RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

IN THE YEAR

1918.

UNDER THE DIRECTION OF

SIR FRANK DYSON, M.A., LL.D., F.R.S.,
ASTRONOMER ROYAL.

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INDEX.

INDEX.

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS IN TABULAR ARRANGEMENT:—

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS—*continued.* PAGE

GREENWICH MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1918.

INTRODUCTION.

In the present volume a brief account is given of the instruments and methods of reduction now in use. Fuller information, principally of an historical nature, may be found in the Introductions to the volumes for 1909 and previous years.

§ 1. *Personal Establishment and Arrangements.*

During the year 1918 the personal establishment in the Magnetical and Meteorological Department of the Royal Observatory consisted of Walter William Bryant, Superintendent, aided generally by three Computers. The Computers employed during the year were:—S. W. Palmer until May 22, G. F. Wells, E. H. Tibbitts, and Miss E. W. Clack.

§ 2. *General Description of the Buildings and Instruments of the Magnetical and Meteorological Observatory.*

The Magnetic Pavilion is constructed of non-magnetic materials, and stands in an enclosure in Greenwich Park, 350 yards to the east of the Observatory, on a site carefully chosen for its freedom from abnormal magnetic conditions. In the enclosure there are two sets of thermometers used for ordinary eye observations, thermometers for solar and terrestrial radiation, and two rain-gauges.

The anemometers, three rain-gauges, and the sunshine recorder are fixed above the roof of the Octagon Room (the ancient part of the Observatory).

For a detailed description of the New Magnetograph House, which was completed in 1914, reference should be made to the Greenwich Observations for 1915.

The New Magnetograph House stands 50 feet north-west of the Magnetic Pavilion in which the absolute magnetic observations are made. The recording instruments are situated in a small inner chamber 15 feet long, 12 feet wide, and 8 feet high. This chamber is supported on small concrete piers and surrounded by an outer chamber, whose walls of non-conducting material are nearly 2 feet thick. Between the walls of the two chambers is an air space of from 2 to 3 feet. The inner chamber is electrically heated by about 50 suitably insulated low-temperature non-magnetic metallic resistance strips, each consuming 25 watts. The current used is alternating, and is therefore without effect upon the magnetic registration.

The temperature is controlled by a thermostat placed in the centre of the room, at the same level as the magnetic instruments. This actuates a relay, which switches the electric current into or out of the heating circuits.

The centres of the three instrument piers are situated as follows: For the north force instrument, 2 feet south and 2 feet 6 inches east of the north-west angle of the room; for the declination instrument, 5 feet 6 inches south and 5 feet east of the same angle; for the vertical force instrument, 2 feet north and 3 feet west of the south-east angle. The two piers which support the recording mechanism occupy the north-east and south-west corners of the room, their longer sides being in the direction of the meridian. The clocks can be wound and the recording drums inserted or removed through shuttered openings in the wall of the inner chamber. The temperature in the chamber is read daily from a thermometer attached to the north force instrument, by means of a small telescope, projecting into the room.

The Magnetograph House contains also the photographic and standard barometers. The former is mounted on the south wall of the instrument room, $5\frac{1}{2}$ feet from the south-east corner of the room. The standard barometer is situated in the passage way, being supported on a board screwed to the north-west corner pillar of the inner room.

The north force and declination instruments record on the north-east drum; the vertical force instrument and the barometer record on the other drum. Both drums are horizontal and are 10 inches long by $5\frac{1}{2}$ inches in diameter. Their normal period of revolution is 30 hours and the scale 15 mm. to the hour. The

registering beams of light are focussed on the drum by an adjustable cylindrical lens. Two horizontal straight filament lamps mounted at suitable heights on the east and west walls of the chamber provide the time registration for the photographic sheets. The lamps are illumined for a period of one second centred at each exact hour of Greenwich time, the current being controlled by a relay connected to the Mean Solar clock in the Clock Room of the Observatory. The effect is to produce narrow dark hour lines right across the photographic records.

§ 3. *Subjects of Observation in the year* 1918.

The observations comprise determinations of absolute magnetic declination, horizontal force, and dip; continuous photographic record of the variations of declination, horizontal force, and vertical force; eye observations of the ordinary meteorological instruments, including the barometer, dry and wet bulb thermometers, radiation and earth thermometers; continuous photographic record of the variations of the barometer, dry and wet-bulb thermometers, and electrometer (for atmospheric electricity); continuous automatic record of the direction, pressure, and velocity of the wind, and of the amount of rain; registration of the duration of sunshine; general record of ordinary atmospheric changes of weather, including numerical estimation of the amount of cloud, special cloud observations in connection with the International Balloon ascents, and occasional phenomena.

Since 1885, Greenwich civil time, reckoning from midnight to midnight, and counting from 0 to 24 hours, has been employed throughout the magnetical and meteorological sections, except in regard to the sunshine registers (see p. E xvii).

§ 4. *Magnetic Instruments.*

DECLINATION MAGNET FOR ABSOLUTE DETERMINATIONS.—Since 1899 January 1, regular observations of declination have been made in the Magnetic Pavilion. The hollow cylindrical magnet Elliot No. 75 is used in conjunction with a telescope by Troughton and Simms, placed on a pier about 2 feet south of the magnet. The magnet is about 4 inches long, and at one end is an engraved glass scale for collimation. The telescope is 21 inches long, and the aperture of its object-glass is 2 inches; its horizontal circle is 16·6 inches in diameter, divided to 5′ and read by verniers to 5″. It has no vertical circle. The eye-piece has one fixed horizontal wire and one vertical wire, moved by a micrometer screw, the value of one revolution of which is 1′ 34″·2. The adopted collimation reading was $100^{r}\cdot140$.

The vertical axis of the telescope is adjusted by means of a fixed level, one division of which corresponds to $1''\cdot15$. The level correction for inequality of the pivots of the axis of the telescope was found in 1898 to be $-6^{div}\cdot0$ or $-6''\cdot9$.

Since 1913 September the magnet has been suspended by a tungsten wire of 0·02 mm. diameter, and about 25 cm. length. The effect of 90° of torsion is to turn the magnet through about 4′. The torsion is found to change little or not at all; it is checked at intervals, and a correction on this account is made when necessary. The collimation error is eliminated by reversing the magnet in the middle of each month, so that half the observations are made with the scale direct and half with the scale reversed (by turning the magnet through 180° in its carrier, about the longitudinal axis).

The reading of the azimuth circle corresponding to the astronomical meridian is determined by observations of Polaris, taken once a week whenever practicable.

Declination observations have been made at least thrice weekly throughout 1918.

ABSOLUTE HORIZONTAL FORCE INSTRUMENT.—This instrument is of the Kew pattern, and rests on a slate slab in the Magnetic Pavilion. A full account of its construction and use is given in earlier volumes, and will not be repeated here.

Observations of the absolute horizontal magnetic force are made twice weekly. Observations of the moment of inertia of the deflecting magnet are made occasionally.

DIP INDUCTOR.—The dip inductor is used in conjunction with a Broca mirror galvanometer, with electric light and scale. Observations are made in four positions to eliminate any small errors arising from slight asymmetry in the instrument. After the first adjustment, the ring is reversed about a horizontal axis and a second adjustment obtained: the instrument is then reversed in azimuth and two further adjustments made. The circles for the measurement of inclination and azimuth are each 8 inches in diameter, and are read by means of screw micrometers to one second of arc. The levels on the base can likewise be read to one second. A detailed description of the dip inductor will be found in the volume for 1915.

The observations are made thrice weekly.

THE DECLINATION VARIOMETER.—This instrument consists essentially of a magnet and mirror suspended by a fine phosphor bronze strip 30 cm. long. The

torsion head to which the top of the fibre is attached is adjusted so that there shall be no torsion in the mean position of the magnet. A quarter revolution of the torsion head deflects the magnet through 8′.

The magnet consists of nine short pieces of steel 4·5 cm. long and of 1 mm. diameter, supported in an aluminium holder. The mounting of the movable mirror attached to this holder is also of aluminium. It can be turned relative to the magnet, so that the beam of light can be suitably adjusted in azimuth. The fixed mirror for base-line registration is situated beneath the magnet and mirror system. Both mirrors are of silvered glass, 2·5 cm. long and 1 cm. wide, and possess the necessary adjustments for tilt and orientation. The magnet is surrounded by copper blocks, rendering the instrument almost dead-beat.

The instrument rests on three foot-screws, which provide adjustment for level. It is completely enclosed by a tall brass cylinder with lid, resting on the concrete pier; this protects the instrument from dust, draughts, and accidental displacements. The lens which focusses the beam of light passing from lamp to mirror and mirror to drum is mounted in the side of this cylinder, the mirror chamber of the instrument itself being closed by a plane glass window.

The distance from the mirrors to the centre of the slit of the drum box is such that the scale value at the middle of the photographic sheets is 0′·585 per millimetre; at the present time (1915–20) this angle represents 3·17 γ, in terms of force. Since the beam of light, when directed towards the centre of the slit, makes an angle 11°·42′ with the normal to the drum, the scale value is not the same right across the sheet, the percentage difference of scale between the centre and edges being 0·5. This is allowed for, when necessary, in measuring the photographic traces.

The photographic sheets are changed generally at about 11 a.m. The time scale is 15 mm. per hour. The base-line value is determined from the absolute declination observations.

THE NORTH FORCE VARIOMETER.—The general construction of this instrument resembles that of the declination variometer. The suspension is of quartz, however, 20 cm. long, and the magnet system contains a single magnet similar to those in the declination instrument. In other respects the magnet and mirror systems of the two instruments are identical.

The torsion head is adjusted so that the magnetic axis of the magnet system is kept in the (geographical) east-west direction. The angle between this direction

and the line joining the mirror to the middle of the slit of the drum is 7°·30′. The mirror was adjusted relative to the magnetic axis so that the angle between the latter and the normal to the mirror agreed with the above angle to within a few minutes of arc. The magnet can consequently be maintained in the right direction by keeping the beam of light directed towards the middle of the photographic sheet.

The instrument is enclosed in a brass cylinder, in which is mounted the focussing lens, as in the case of the declination variometer. Through apertures in this casing also project two arms, one to the north and the other to the south of the instrument, to which they are attached. These are designed to support a deflecting magnet for the determination of the scale value of the variometer. The deflecting magnet is similar to those in the magnet system itself, but is cased in brass so as to be preserved from rust and made convenient for handling; its external diameter and length are 5 mm. and 7 cm. respectively. Deflections are made at two distances along both north and south arms, and in each position the magnet is used with its axis directed to the north and also to the south. Thus eight deflections are involved in each determination of scale value. The deflected positions are recorded on the photographic sheet, and the measurement is performed subsequently. The two adopted distances of the deflecting magnet from the magnet system are 27 cm. and 32 cm. The deflecting forces at these two distances are determined monthly by deflecting the absolute horizontal force magnet in the same way; the moment of the latter being known, the angle of deflection enables the deflecting force to be calculated readily in absolute measure. It is found that the magnetic moment of the deflecting magnet is slowly diminishing; the deflecting forces at the above two distances were 244·6 γ and 148·2 γ in the mean of 1918, and the present rates of diminution of their values are 4·4 γ and 2·8 γ per year.

The scale value determinations for the north force instrument are made once weekly. Since the instrument was installed the scale value has been found to be slowly diminishing. It has been treated as constant throughout each month, the difference from month to month being very small (about ·01 γ per mm.). The adopted scale value for the month of 1918 January was 3·25 γ per mm., and for 1919 January was 3·30 γ per mm.

The base-line value of the instrument is determined by means of the absolute horizontal force observations, together with the absolute and photographic declination determinations. The base line is steadily changing (though at a decreasing rate), owing to the gradual diminution of the moment of the magnet

system. The mean rate of change of base-line value during 1918 was 0·52 γ, and the mean annual decrease in this rate of change is 0·15 γ. The progressive change of base-line value is allowed for in the reductions.

The instrument is kept at a constant temperature, and therefore the records require no temperature correction in general. When the instrument was first set up, however, its temperature correction was determined by electrically heating the interior of the outer casing by heating coils wrapped round the outside of the latter. It was found that a rise of temperature through 1° C. increased the base-line value of the instrument by 2γ. During the periods when the thermostat was out of order and under repair, the observations were corrected for temperature according to this determination.

THE QUARTZ-THREAD VERTICAL FORCE VARIOMETER.—For a detailed description of this instrument reference may be made to the *Philosophical Magazine*, vol. vii., sixth series, p. 393, 1904. The base of the instrument consists of a metal casting with uprights at the two ends, carrying attachments for the ends of the quartz fibre which supports the magnet system. The latter consists of two magnets, 8 cms. long and 1 mm. in diameter, which are attached by small platinum stirrups to two rods of fused quartz; these are fused to a quartz plate, the upper surface of which is optically worked and platinised to form a plane mirror. The quartz rods are drawn out at their other ends into fibres of about 0·008 to 0·010 cm. diameter; one of these is attached to a coiled quartz spring. The quartz spring and the other fibre are soldered to small brass rods fitting into clamps at the two ends of the metal base. The thread is under sufficient tension to stretch the spring through about two millimetres. A right-angled prism is supported in a frame above the mirror, so as to reflect the light in a horizontal direction; a single lens is placed beneath to focus the light on the recording drum. The prism frame is adjustable in azimuth in order to enable the trace to be brought to any desired part of the sheet. An adjustable mirror beneath the quartz fibre and adjacent to the mirror of the magnet system serves to give a base line.

The sensitiveness of the instrument is varied by adjusting the centre of gravity of the movable system. For this purpose a small vertical quartz arm is fixed to one of the rods attached to the mirror and a small piece of brass can slide on this arm, being fixed into any desired position by means of a little shellac. The sensitiveness adopted until the end of 1919 was 3·6 γ per mm. on the sheet. At the beginning of 1920 this was increased to 2·0 γ per mm.

The variometer was not at first compensated for temperature changes and was found to possess a temperature coefficient of 25 γ per 1° C. The gradual

change in the thermostat control temperature necessitated compensation ; the adjustment was made by means of a small stirrup sliding on one of the magnets, and the chamber was alternately heated and cooled until, with a range in temperature of 8° C., there was no measurable displacement of the photographic trace.

SCALE VALUE OF VERTICAL FORCE VARIOMETER.—The scale value of the instrument is determined by the methods of deflections, which in this case are produced electro-magnetically. The deflecting coil consists of two equal parallel circular rings of wire separated by a distance equal to their own radii. The wire is laid in V-grooves on a vulcanised fibre framework which rests permanently on the instrument pier. The leads and connections between the two separate rings are laid side by side. With such an arrangement a very uniform magnetic field is produced at the centre of the coil, when an electric current circulates in the same direction round the two circles. The diameter of each circular turn of wire is 55·7 cm., and the distance between their two centres is 27·7 cm. If x, ρ represent axial and radial co-ordinates, measured in cms. from the centre of the coil as origin, the value of the axial force magnetic force at (x, ρ), due to a current of strength A ampères, is—

$$3239A\left[1-0\cdot0129\frac{x^2-\frac{1}{2}\rho^2}{R^2}-1\cdot782\,\frac{x^4-3x^2\rho^2+\frac{3}{8}\rho^4}{R^4}\ldots\right]$$

where R is 31·06 cms., being the distance from the centre of the coil to a point on the circumference of either ring. The coil is placed so that its centre plane is horizontal, and with its centre as nearly as possible coincident with the vertical force magnets ; there is no horizontal magnetic field produced by the coil in the plane of the magnets, and the vertical force produced is constant to within 0·5 per cent. throughout the space occupied by the magnets. Within this limit of error, also, an inclination of the magnets to the horizontal even by several degrees would not affect the vertical force to which they would be subject ; and the horizontal forces on them, besides being inappreciable, would have a force and not a couple resultant.

In this making scale value determinations, the current is supplied by a small portable battery, and is measured by an ammeter. The current strength used is 100 milliampères, which from the above formula, allowing for the slight non-centrality of the magnets with respect to the coil, is found to produce a deflecting force of 323 γ, and a movement of the trace on the photographic sheets through about 92 mm. The scale value is found to be uniform across the sheets.

The scale value determinations are made weekly. The scale value was found to be constant. The adopted value is 3·66 γ per mm.

The base line value is determined from the dip observations, in conjunction with the recorded values of north force and declination. It is at present slowly decreasing.

§ 5. *Magnetic Reductions.*

The results given in the magnetic section refer to the civil day, commencing at midnight.

Before the photographic records of magnetic declination, horizontal or north force, and vertical force are discussed, they are divided into two groups—one including all days on which the traces show no particular disturbance, and which, therefore, are suitable for the determination of diurnal inequality; the other comprising days of unusual and violent disturbance, when the traces are so irregular that it appears impossible to treat them except by the exhibition of every motion of each magnet through the day. Following the principle of separation hitherto adopted, there are no days in the year 1918 which are classed as days of great disturbance. Days of lesser disturbance are March 7–8, April 11–12, May 16–17, August 15–16, September 21, October 16, December 8 and December 25–26. When two days are mentioned, it is to be understood that the reference is usually to one set of photographic sheets extending from noon to noon, and including the last half and the first half respectively of two consecutive civil days.

The mean ordinates for each complete form are measured by the aid of a transparent-celluloid scale, and from the tables of these measures, for each calendar month, are obtained the mean monthly values for each hour of the day, and the mean daily value of the element for each day of the month. The daily mean is taken from the 24 mean ordinates. Tables I to XV contain the results for declination, north force, and vertical force. For each element the mean daily value and daily range are given for every day of the year, together with the monthly and annual mean diurnal inequalities for all days and for quiet and disturbed days (as selected by the International Committee). In the formation of diurnal inequalities it is unimportant whether a day omitted be a complete civil day, or the parts of two successive civil days making together a whole day, although in the latter case the results are not available for daily values. No days were omitted on account of great disturbance in the formation of these Tables.

The variations of declination are given in arc and those of north force and vertical force in C.G.S. measure.

The magnetic diurnal inequalities of declination, north force, and vertical force, for each month and for the year, as given in Tables IV, VIII, and XII, have been treated by the method of harmonic analysis, and the results are given in Table XVI.

In Table XVII the absolute determinations of horizontal force are given, both as observed and also as reduced to the mean value for the month. The latter was effected by application of the difference between the north force ordinate at the time of observation and the mean value for the month, as obtained from the photographic register, taking into account also the change of declination.

As regards magnetic dip, the result of each observation of dip with the dip inductor is given in Table XVIII ; these have not been reduced to the mean value for the month, but a correction has been applied on account of the diurnal variation of dip (as deduced from Tables VIII and XII) in forming the monthly mean values of dip given in Table XIX.

Table XIX contains an annual summary of the magnetic elements, giving the mean monthly values, the monthly mean diurnal ranges, and sums of hourly deviations from mean.

In Tables VI, X, and XIV are given mean diurnal inequalities of declination, horizontal force, and vertical force derived from five quiet days each month. In Tables VII, XI, and XV are given similar inequalities derived from five disturbed days each month, both sets of days being selected by the International Committee.

Reduced copies of the magnetograms for certain disturbed days (mentioned on p. E ix) have been printed in each volume since 1882. The list of these days since the year 1889 has been selected in concert with M. Mascart, or his successor M. Angot, so that the two Observatories of Val Joyeux (formerly of the Parc Saint Maur) and Greenwich should publish the magnetic registers for the same days of disturbance with a view to the comparison of the results. As far as possible the days of greater disturbance are those selected by the International Committee.

The plates are followed by a brief description of other significant magnetic motions (superposed on the ordinary diurnal movement) recorded during the year.

With regard to the plates, on each day three distinct registers are usually given, viz. : declination, north force, and vertical force.

At the foot of each plate, scales, in C.G.S. measure, are given for each of the magnetic registers.

The subjoined table gives the values of Magnetic Elements determined at the Royal Observatory, Greenwich :—

[TABLE

Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡	Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡
	° ′		° ′		° ′		° ′
1841	23·16·2	..	..	1880	18·32·6	0·1805	67·35·7
1842	23·14·6	..	..	1881	18·27·1	0·1807	67·34·7
1843	23·11·7	..	69· 0·6	1882	18·22·3	0·1806	67·34·2
1844	23·15·3	..	69· 0·3	1883	18·15·0	0·1812	67·31·7
1845	22·56·7	..	68·57·5	1884	18· 7·6	0·1814	67·29·7
1846	22·49·6	0·1731	68·58·1	1885	18· 1·7	0·1817	67·28·0
1847	22·51·3	0·1736	68·59·0	1886	17·54·5	0·1818	67·27·1
1848	22·51·8	0·1731	68·54·7	1887	17·49·1	0·1819	67·26·6
1849	22·37·8	0·1733	68·51·3	1888	17·40·4	0·1822	67·25·6
1850	22·23·5	0·1738	68·46·9	1889	17·34·9	0·1823	67·24·3
1851	22·18·3	0·1744	68·40·4	1890	17·28·6	0·1825	67·23·0
1852	22·17·9	0·1745	68·42·7	1891	17·23·4	0·1827	67·21·5
1853	22·10·1	0·1748	68·44·6	1892	17·17·4	0·1829	67·20·0
1854	22· 0·8	0·1749	68·47·7	1893	17·11·4	0·1831	67·17·9
1855	21·48·4	0·1756	68·44·6	1894	17· 4·6	0·1831	67·17·4
1856	21·43·5	0·1759	68·43·5	1895	16·57·4	0·1834	67·16·1*
1857	21·35·4	0·1769	68·31·1	1896	16·51·7*	0·1835*	67·15·1*
1858	21·30·3	0·1762	68·28·3	1897	16·45·8*	0·1838	67·13·5*
1859	21·23·5	0·1761	68·26·9	1898	16·39·2*	0·1840	67·12·1
1860	21·14·3	..	68·30·1	1899	16·34·2	0·1843	67·10·5
1861	21· 5·5	0·1773	68·24·6	1900	16·29·0	0·1846	67· 8·8
		0·1759	68·15·8	1901	16·26·0	0·1850	67· 6·4
1862	20·52·6	0·1763	68· 9·6	1902	16·22·8	0·1852	67· 3·8
1863	20·45·9	0·1764	68· 7·0	1903	16·19·1	0·1852	67· 1·2
1864	..	0·1767	68· 4·1	1904	16·15·0	0·1854	66·57·6
1865	20·33·9	0·1767	68· 2·7	1905	16· 9·9	0·1854	66·56·3
1866	20·28·0	0·1773	68· 1·3	1906	16· 3·6	0·1854	66·55·6
1867	20·20·5	0·1777	67·57·2	1907	15·59·8	0·1855	66·56·2
1868	20·13·1	0·1779	67·56·5	1908	15·53·5	0·1854	66·56·3
1869	20· 4·1	0·1782	67·54·8	1909	15·47·6	0·1854	66·54·1
1870	19·53·0	0·1784	67·52·5	1910	15·41·2	0·1855	66·52·8
1871	19·41·9	0·1786	67·50·3	1911	15·33·0	0·1855	66·52·1
1872	19·36·8	0·1789	67·47·8	1912	15·24·3	0·1855	66·51·8
1873	19·33·4	0·1793	67·45·8	1913	15·15·2	0·1853	66·50·5
1874	19·28·9	0·1797	67·43·6	1914	15· 6·3	0·1853	66·51·2
1875	19·21·2	0·1797	67·42·4	1915	14·56·5	0·1851	66·52·0
1876	19· 8·3	0·1799	67·41·0	1916	14·46·9	0·1850	66·52·8
1877	18·57·2	0·1800	67·39·7	1917	14·37·1	0·1848	66·53·0
1878	18·49·3	0·1802	67·38·2	1918	14·27·8	0·1846	66·52·8
1879	18·40·5	0·1805	67·37·0				

* Corrected for the effect of the iron in the new buildings.

† The values of the Horizontal Force from 1861 differ from those given in previous volumes, on account of the correction mentioned on p. E iv, 1914 volume.

‡ These values of the dip differ slightly in some instances from those given in previous volumes, on account of the correction mentioned on p. E v, 1912 volume.

In 1861 the new Unifilar Apparatus for absolute Horizontal Force and the Airy Dip-Circle were introduced, both sets of apparatus being used in that year. In 1864 the excavation of the Magnetic Basement caused the suspension of complete Declination Observations. From 1914 the Dip was determined with the Inductor.

§ 6. *Meteorological Instruments.*

STANDARD BAROMETER.—The standard barometer is Newman No. 64. Its tube is $0^{in.}\cdot565$ in diameter, and the depression of the mercury due to capillary action is $0^{in.}\cdot002$, but no correction is applied on this account. The cistern is of glass, and the graduated scale and attached rod are of brass; at its lower end the rod terminates in a point of ivory, which in observation is made just to meet the reflected image of the point as seen in the mercury. The scale is divided to $0^{in.}\cdot05$, subdivided by vernier to $0^{in.}\cdot002$. The barometer was mounted in 1840 on the southern wall of the western arm of the Upper Magnet Room at a height above mean sea level of 159 feet. It was transferred to the New Magnetograph House on 1917 April 3, where the height above mean sea level is 152 feet.

The barometer is read at 9^h, 12^h (noon), 15^h, 21^h (civil reckoning) every day. Each reading is corrected by application of an index-correction, and reduced to the temperature 32°. The readings thus found are used to determine the value of the instrumental base line on the photographic record.

THE PHOTOGRAPHIC BAROMETER.—In consequence of the use of a horizontal drum for the new vertical force instrument, it became necessary to modify the lever mechanism of the photographic barometer on its removal to the Magnetograph House in 1916. On account of the optical magnification associated with a moving mirror at some distance from the instrument, the new mechanism had to be such as would reduce the motion of the plunger to a smaller amount at the end of the lever which carried the mirror. In the actual arrangement two levers are used, the one connected to the arm of the plunger resting in the free surface of the mercury, being 12 inches long from plunger to pivot. A pin with a rounded conical point is screwed into this lever at a distance of 1 inch from the pivot. On this pin rests the plane under-surface of a shorter lever, which is 4 inches long from its pivots to this pin, and is set at right angles to the first lever. Both levers are approximately horizontal in their mean position. On the short lever is mounted the moving mirror of the instrument. This mirror is 2·5 cm. long and 1 cm. wide, and is mounted horizontally in a suitable frame attached to the lever, just above its pivots. The first lever lies east and west, so that the axis about which the mirror turns is in the same direction. The motion of the beam of light is transformed so as to be horizontal by a fixed right-angled prism supported above the mirror. A lens of suitable focus is mounted in a vertical plane in front of the prism, and brings the beam of light from

the straight filament lamp, which also illuminates the vertical force variometer, to a focus on the drum. A base-line mirror, similar to the moving mirror, is mounted in a vertical plane behind the lower half of this lens. Provision is made for all necessary adjustments of level and azimuth and tilt of the base line and moving beams of light.

The barometer is mounted on the south wall of the instrument chamber, at a distance of 3 feet from the vertical force instrument. The levers and optical parts are screwed to a brass plate supported on a small shelf by the side of the barometer. The instrument is 12 feet from the recording drum, and consequently the scale value of the record is 3 cm. on the sheet for 1 cm. change of height of the mercury column of the standard barometer. In the photographic barometer both arms are, near the surface of the mercury, of the same bore, so that the plunger moves through only half the change of height of the standard barometer.

The photographic sheets being 24 cm. wide, the whole range of barometric motion can be included without changing the zero, as was formerly necessary, when the scale value was 4 to 1 in place of 3 to 1 as now.

The metal parts of the instrument are all of brass or aluminium, except the cast-iron plunger disc (which is 24 mm. in diameter and 4 mm. thick) and four small pivot screws, which are of steel. These are sufficiently far from the vertical force instrument to ensure that they do not affect its records. The weight of the plunger and lever mechanism is relieved by a balance weight on the far side of the pivot, so that the plunger rests on the mercury surface without appreciably depressing it. There is some evidence of a slight difference of behaviour according to whether the barometer is rising or falling.

The scale value of the instrument is actually determined experimentally by comparison with the readings of the standard photographic barometer. Readings of the latter are taken four times daily, and from them the base-line value of the barometer is adopted, having regard to the tendency referred to in the preceding paragraph.

DRY- AND WET-BULB THERMOMETERS.—The standard dry- and wet-bulb thermometers and maximum and minimum self-registering thermometers, both dry and wet, are mounted on a revolving frame planned by Sir George Airy. This, together with details of the thermometers and the corrections applicable to them, may be found fully described in the volumes for 1912 and previous years.

Since 1899 January 4 this stand has stood in an open position in the Magnetic Pavilion enclosure.

The corrections to be applied to the thermometers in ordinary use are determined, usually once each year for the whole extent of scale actually employed, by observations at 32° in pounded ice and by comparison with the standard thermometer No. 515, kindly supplied to the Royal Observatory by the Kew Committee of the Royal Society.

The dry-bulb thermometer used throughout the year was Negretti and Zambra, No. 45354. The correction $-0°\cdot4$ has been applied to the readings of this thermometer. The wet-bulb thermometer used throughout the year was Negretti and Zambra, No. 94737. The correction $-0°\cdot2$ has been applied to the readings of this thermometer.

The dry- and wet-bulb thermometers are read at 9^h, 12^h (noon), 15^h, 21^h (civil reckoning) every day. Readings of the maximum and minimum thermometers are taken at 9^h, 15^h, and 21^h every day. Those of the dry- and wet-bulb thermometers are employed to correct the indications of the photographic dry- and wet-bulb thermometers.

PHOTOGRAPHIC DRY-BULB AND WET-BULB THERMOMETERS.—The apparatus which has been in use since 1887 was designed by Sir William Christie, and from 1899 to 1917 stood in the same position in the Magnet Ground. It was transferred to the Magnetic Pavilion Enclosure on 1917 February 21. It is placed in a shed 8 feet square, standing upon posts about 8 feet high, and open to the north. The apparatus is screened from the direct rays of the sun, without impeding the circulation of the air. The recording mechanism is similar in general plan to that already described in connection with the magnetometers in the Magnet Basement, the illumination being by gaslight. The traces consist of broad bands, due to the free passage of light to the drum, above the mercury column in the dry-bulb, and through an air-bubble in that of the wet-bulb, crossed by fine lines caused by the shadows of the graduations on the thermometer tubes. The two traces fall on the same part of the cylinder as regards time scale. The stems of the thermometers are placed close together, each being covered by a vertical metal plate having a fine vertical slit, so that light passes through only at such parts of the bore of the tube as do not contain mercury. Further details of the thermometers and recording arrangements may be found in the volume for 1912. The scale value of the records is approximately 10° per inch.

RADIATION THERMOMETERS.—These thermometers are placed in the Magnetic Pavilion enclosure, in an open position about 50 feet south-west of the building. The thermometer for solar radiation is a self-registering mercurial maximum thermometer on Negretti and Zambra's principle, with its bulb blackened, and the thermometer enclosed in a glass sphere from which the air has been exhausted. The thermometer employed was Negretti and Zambra, No. 165157. The thermometer for radiation to the sky was a self-registering spirit minimum thermometer, Negretti and Zambra, No. 165654. The thermometers are laid on short grass and freely exposed to the sky; they require no correction for index-error.

EARTH THERMOMETERS.—These four thermometers, the bulbs of which are sunk to depths of 25·6, 12·8, 6·4, and 3·2 feet below the surface, are fully described in earlier volumes. The shortest thermometer is read daily at noon, the readings being given (subject to an unknown small index correction) in the daily results. The other thermometers are read weekly on Monday at noon, but the results are not published, as the daily readings previously printed for many years seem to offer all the information which these thermometers are likely to afford. A discussion by Professor Everett of the observations up to 1859 was given in an appendix to the volume for 1860. All four thermometers were accidentally broken on September 14, during the removal of the old Magnet House.

OSLER'S ANEMOMETER.—This self-registering anemometer, devised by A. Follett Osler, for continuous registration of the direction and pressure of the wind and of the amount of rain, is fixed above the north-western turret of the ancient part of the observatory. The direction of the wind is registered by means of a large vane (9ft. 2in. in length), connected by gearing with a rack-work carrying a pencil; the latter marks on a flat horizontally moving sheet of paper. The vane is 25 feet above the roof of the Octagon Room, 60 feet above the adjacent ground, and 215 feet above the mean level of the sea. A fixed mark on the north-eastern turret, in a known azimuth, as determined by celestial observation, is used for examining at any time the position of the direction plate over the registering table, to which reference is made by means of a direction pointer when adjusting a new sheet on the travelling board.

A circular pressure plate with an area of 192 square inches is attached 2 feet below the vane; moving with the latter, it is always kept directed against the wind. A light wind causes the plate to compress slender springs, the motion being registered on the horizontal sheet by a pencil connected with the plate by a flexible brass chain, which is always in tension. Higher wind pressures bring stiffer

springs into play behind the plate, and the two sets of springs are adjusted by screws and clamps so as to afford fixed scales on the sheet, the scale for light winds being double that for heavy winds. The scale is determined experimentally in lbs. per square foot from time to time.

The recording sheet is changed daily at noon. The time scale, ordinarily the same as that of the magnetic registers, can be increased 24-fold by altering the gearing.

A self-registering rain gauge of peculiar construction forms part of the apparatus; this is described under the heading "Rain Gauges" in previous volumes.

ROBINSON'S ANEMOMETER.—This instrument, for registration of the horizontal movement of the air, is mounted above the roof of the Octagon Room. It was brought into use in 1866, and is of smaller size than that now usual, the four hemispherical cups being 5 inches in diameter, the centre of each cup being 15 inches distant from the vertical axis of rotation. The cups are 21 feet above the roof of the Octagon Room, 56 feet above the adjacent ground, and 211 feet above the mean level of the sea. A motion of the recording pencil through 1 inch corresponds to horizontal motion of the air through 100 miles. The time scale is the same as for the magnetic registers, and the sheet is changed daily at noon.

In preceding volumes the values of wind velocity V given in the tables are three times the actual velocity v of the cups. From some tests of the Browning instrument, made by Mr. W. H. Dines at Hersham in 1889, on his whirling machine, it would appear that the relation between V and v is more correctly given by

$$V = 4{\cdot}0 + 2{\cdot}0\, v,$$

and that the instrument fails to record wind velocities less than 4 miles per hour. The values of the wind velocity given by the formula $V = 3\, v$ would thus be too high when V exceeds 12. Since the two formulæ agree, however, for $V = 12$, the mean values of the wind velocity (which seldom differ much from 12) will be approximately correct in either case; therefore, for the sake of continuity and simplicity, the formula $V = 3\, v$ will continue to be used. In this volume, however, the greatest hourly measures (p. E xix) are given according to both formulæ, and the least hourly measures omitted.

RAIN GAUGES.—During the year 1918 three rain gauges were employed, placed at different elevations above the ground, for which see page E 80 of the Meteorological Results.

The gauge No. 1 forms part of the Osler Anemometer apparatus, and is self-registering, the record being made on the sheet on which the direction and pressure of the wind are recorded. The apparatus is fully described in earlier volumes.

Gauges Nos. 2 and 3 are no longer read, and Nos. 4, 5, and 7 have been removed.

Gauge No. 6 is an 8-inch circular gauge placed with the receiving surface 5 inches above the ground in the Magnetic Pavilion enclosure, about 10 feet north-west of the thermometer stand. No. 8 is a new gauge of the same diameter, but of the modified Snowdon pattern adopted by the Meteorological Office, having its receiving surface 1 foot above the ground. It was brought into use 1908 January 1, being fixed SW by W from No. 6 with a clear space of 6 feet between the rims. No. 6 is the Standard gauge, No. 8 is used as a check on the readings of No. 6. No. 6 is read daily, usually at 9^h, 15^h, and 21^h Greenwich civil time, and No. 8 at 9^h only as a rule.

The present height of the Standard gauge above mean sea-level is 5 feet 9 inches less than in its old position in the Observatory Grounds, before its removal to the Pavilion Enclosure.

The gauges are also read at midnight on the last day of each calendar month.

ELECTROMETER.—The electric potential of the atmosphere is measured by means of a Thomson self-recording quadrant electrometer, made by White, of Glasgow. It is situated in a small hut in the Magnetic Enclosure and has the usual arrangements for photographic registration. The time scale is the same as for the magnetic registers, the hourly break of trace being made by the driving-clock itself. The Electrometer is connected by a fine wire directly with a small radium collector, carried on an insulated support, at a height of about 7 feet.

SUNSHINE RECORDER.—The instrument in use is of the Campbell-Stokes pattern, with 4-inch glass globe. The recorded durations are those of *bright* sunshine, no register being obtained when the sun shines faintly through fog or cloud, or is very near the horizon. The hourly results relate to *apparent* time.

§ 7. *Meteorological Reductions.*

The results given in the Meteorological Section refer to the civil day, commencing at midnight.

All results in regard to atmospheric pressure, temperature of the air and of evaporation with deductions therefrom, are derived from the photographic records, excepting that the maximum and minimum values of air temperature are those given by eye observation of the ordinary maximum and minimum thermometers at 9^h, 15^h, and 21^h (civil reckoning), reference being made, however, to the photographic register when necessary to obtain the values corresponding to the civil day from midnight to midnight. The hourly readings for the elements mentioned are measured direct from the photographic curves, and reduced so as to be based fundamentally, both as regards scale and zero, on the readings of the standard barometer and dry- and wet-bulb thermometers.

The barometer results are not reduced to sea-level, neither are they corrected for the effect of gravity, by reduction to the latitude of 45°.

The mean daily temperature of the dew-point and degree of humidity are deduced from the mean daily temperatures of the air and of evaporation by use of Glaisher's *Hygrometrical Tables.* The table of factors for this purpose may be found in the Introductions for 1910 and previous years.

In the same way the mean hourly values of the dew-point temperature and degree of humidity in each month (pages E 75 and E 76) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pages E 74 and E 75).

The excess of the mean temperature of the air on each day above the average of 65 years, given in the "Daily Results of the Meteorological Observations," is found by comparing the numbers contained in column 6 with a table of average daily temperatures found by smoothing the accidental irregularities of the daily means deduced from the observations for the sixty-five years 1841–1905. In this series the mean daily temperature from 1841 to 1847 depends usually on 12 observations daily, in 1848 on 6 observations daily, and from 1849 to 1905 on 24 hourly readings from the photographic record. The smoothed numbers are given in Table VII, *Reduction of the Greenwich Meteorological Observations,* Part IV, and also in the Introduction for 1910.

The daily register of rain contained in column 16 is that recorded by the gauge No. 6, whose receiving surface is 5 inches above the ground. This gauge is read at 9^h, 15^h, and 21^h Greenwich civil time. The continuous record of Osler's self-registering gauge shows whether the amounts measured at 9^h are to be placed to the same, or to the preceding civil day; and in cases in which rain fell both before and after midnight, also gives the means of ascertaining the proper proportion of the 9^h amount which should be placed to each civil day. The number of days of rain given in the footnotes, and in the abstract tables, pages E 73 and E 80, is formed from the records of this gauge. In this numeration only those days are counted on which the fall amounted to or exceeded $0 \cdot^{in.} 005$.

The indications of atmospheric electricity are derived from Thomson's Electrometer.

No particular explanation of the anemometric results seems necessary. It may be understood generally that the greatest pressures usually occur in gusts of short duration. The "Mean of 24 Hourly Measures" was in former years the mean of 24 measures of pressure taken *at* each hour; but commencing with 1887 January 1, it is the mean of measures, each one of which is the average pressure during the hour of which the nominal hour is the middle point.

The mean amount of cloud given in the footnotes on the right-hand pages E 49 to E 71, and in the abstract table, page E 73, is the mean found from observations made at 9^h, 12^h (noon), 15^h, and 21^h of each civil day.

For understanding the divisions of time under the headings "Clouds and Weather" and "Electricity," the following remarks are necessary:—In regard to Clouds and Weather, the day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the indications before it apply (roughly) to the interval from midnight to 6^h, and those following it to the interval from 6^h to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column. In regard to Electricity, the results are included in one column; in this case the colons divide the whole period of 24 hours (midnight to midnight).

As regards the notation for clouds and weather, the following are the symbols which denote actual phenomena :—

a,	*aurora*	h,	*haze*	s,	*stratus*
ci,	*cirrus*	ha,	*halo*	sc,	*scud*
cl,	*clouds*	hl,	*hail*	sh, shs,	*shower* (*s*)
co,	*corona*	l,	*lightning*	sl,	*sleet*
cu,	*cumulus*	m,	*mist*	sm,	*storm*
d,	*dew*	n,	*nimbus*	sn,	*snow*
f,	*fog*	prh,	*parhelion*	sq, sqs,	*squall* (*s*)
fr,	*frost*	prs,	*paraselene*	t,	*thunder*
g,	*gale*	r,	*rain*	w,	*wind*
glm,	*gloom*				

The following are qualifying symbols used in conjunction with the above :—

c,	*continued*	li,	*light*	so,	*solar*
fq,	*frequent*	lu,	*lunar*	st,	*strong*
fr,	*frozen*	m,	*misty*	th,	*thin*
gt,	*great*	oc,	*occasional*	tk,	*thick*
ho,	*hoar*	p-cl,	*partially cloudy*	v,	*variable*
hy,	*heavy*	slt,	*slight*	vv,	*very variable*

These symbols are used in combination : thus c-hy-r denotes continued heavy rain ; t-sm, thunderstorm ; p-cl, partially cloudy ; m-r, misty rain ; and so on. In regard to clouds, cl is omitted when the type is specified : thus ci-cu denotes cirro-cumulus clouds.

Howard's nomenclature is used for clouds, and the figure indicates the proportion of sky covered by cloud, an overcast sky being represented by 10.

The following is the notation employed for electricity :—

N,	*negative*	m,	*moderate*	s,	*strong*
P,	*positive*	w,	*weak*	v,	*variable*
ss,	*very strong*	ww,	*very weak*	vv,	*very variable*

Zero potential is indicated by 0, and a dash (—) indicates accidental failure of the apparatus.

F. W. DYSON.

ROYAL OBSERVATORY, GREENWICH,
1922 *October* 2.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL OBSERVATIONS,

1918.

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION.

January. — 14° + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	31·2	31·2	31·7	31·7	31·6	32·2	32·2	31·7	31·2	30·8	30·2	32·7	34·2	35·5	35·5	34·7	34·1	32·9	32·7	32·2	31·7	29·7	30·7	31·0	32·2	
2	30·9	30·7	29·5	30·9	31·7	31·7	31·9	31·9	31·5	31·2	32·2	33·2	34·7	35·2	35·4	35·4	35·3	36·0	35·7	33·2	31·9	31·5	30·9	30·9	32·6	
3	31·5	31·2	30·9	32·0	30·9	31·2	32·0	32·2	31·9	32·2	32·9	34·7	36·7	37·5	38·1	37·7	37·5	39·7	36·2	34·7	32·2	30·9	27·7	26·7	33·3	
4	25·2	26·7	23·7	29·7	29·2	30·2	30·7	32·2	31·9	31·5	32·2	33·2	34·5	36·4	35·7	34·5	34·7	34·0	32·9	31·9	32·7	30·9	26·2	24·7	31·1	
5**	26·7	28·9	31·2	32·2	32·7	32·2	31·9	31·9	32·7	32·5	33·3	33·7	35·3	35·4	36·5	34·9	34·0	26·2	32·2	33·7	32·0	30·7	29·7	27·9	32·0	
6	27·0	26·9	27·4	29·2	31·9	30·7	31·5	31·2	31·9	32·9	32·7	35·2	37·2	37·7	36·7	36·7	32·7	32·3	32·5	32·1	31·7	30·7	30·7	27·7	32·0	
7	27·2	29·2	29·2	31·2	31·9	31·5	31·2	31·3	31·5	30·9	32·2	34·1	35·2	35·7	34·2	33·2	32·9	32·7	32·5	32·0	32·4	31·7	31·2	31·5	31·9	
8*	30·9	31·0	31·1	31·1	31·5	31·4	31·3	31·5	32·7	32·3	32·2	33·7	35·5	36·1	34·9	33·5	32·7	32·1	32·2	31·9	31·7	31·7	31·5	31·7	32·3	
9	31·1	31·7	32·3	31·9	32·0	31·9	31·7	31·7	31·3	30·7	31·7	32·9	34·2	35·2	35·5	33·7	32·7	32·7	31·5	31·9	32·2	31·2	30·9	29·5	32·2	
10	28·9	30·9	32·3	32·5	32·2	31·7	31·7	31·7	34·7	33·2	31·7	32·9	34·7	35·2	37·2	36·2	35·2	34·4	30·0	32·2	31·2	30·4	30·0	30·7	32·6	
11*	31·9	32·3	32·5	32·5	32·9	31·7	31·1	31·5	31·3	30·5	—	—	32·7	34·5	34·1	33·7	32·7	32·2	32·2	31·9	31·7	31·5	31·7	31·7	32·2	
12**	31·7	31·9	32·3	32·1	31·7	31·5	31·4	30·7	30·7	30·0	32·2	33·9	35·5	37·2	36·7	34·2	34·7	36·7	34·7	33·2	31·2	29·2	27·9	20·2	32·1	
13	23·7	26·9	30·7	31·7	32·7	32·2	31·7	31·2	30·7	29·7	30·7	32·7	35·2	37·7	34·7	34·2	34·7	33·7	32·2	31·7	27·7	27·7	29·7	29·7	31·4	
14	30·7	27·2	26·2	29·2	29·7	30·5	30·9	31·2	30·2	29·7	31·2	34·4	35·2	37·7	37·2	36·2	34·9	32·2	32·9	31·2	31·0	29·7	29·2	27·7	31·5	
15	30·5	31·7	31·9	30·9	32·7	31·7	31·5	31·0	30·7	30·4	31·2	32·5	33·7	36·2	35·9	34·7	34·0	33·7	33·2	28·9	31·1	27·7	25·7	29·7	31·7	
16	29·2	30·7	29·2	29·9	31·0	30·7	30·2	30·7	30·7	—	32·2	34·0	35·7	36·7	36·2	33·9	33·2	33·0	32·9	31·9	31·2	30·7	30·7	29·7	31·9	
17*	29·7	30·4	31·0	31·7	32·2	31·7	31·2	30·9	30·5	29·9	31·5	32·9	35·0	35·9	35·7	34·7	33·7	33·0	32·9	32·0	31·7	30·9	28·5	27·7	31·9	
18*	28·9	30·0	30·7	31·5	32·1	31·7	32·0	31·7	30·7	29·7	32·2	34·2	35·5	36·5	36·1	35·4	34·0	32·7	33·2	32·2	32·0	31·4	31·2	31·5	32·4	
19*	31·5	31·7	31·9	32·2	32·2	31·9	31·9	31·5	30·7	29·5	31·5	32·7	34·5	36·3	36·2	34·2	33·7	33·5	33·2	32·5	31·7	31·2	30·9	30·9	32·4	
20	31·2	31·5	31·7	32·4	32·2	32·2	32·2	31·7	31·1	30·7	33·2	34·9	36·9	38·5	37·7	36·1	35·0	34·0	33·2	32·2	31·7	31·2	31·2	31·2	33·1	
21	30·5	29·0	30·7	31·9	32·4	31·9	31·7	30·5	29·7	29·9	30·9	32·5	34·3	36·9	37·9	36·7	35·7	32·7	32·9	32·5	31·2	29·7	28·2	27·7	32·0	
22	28·5	28·9	30·7	34·7	31·5	31·7	31·7	31·7	30·2	29·9	31·7	33·2	35·2	36·0	35·2	34·2	33·7	33·0	33·0	32·5	31·9	31·4	31·2	31·2	32·2	
23	31·2	29·2	32·0	30·9	31·2	31·2	31·2	30·9	30·0	29·5	30·2	31·9	33·2	34·2	34·2	33·9	33·5	32·7	32·7	32·2	31·7	31·2	31·2	31·2	31·7	
24	31·7	31·9	32·2	32·2	32·2	31·9	31·7	31·2	30·2	29·9	30·9	33·2	35·7	35·9	36·1	35·9	35·2	34·2	32·0	31·7	31·2	30·4	30·7	30·7	32·5	
25	30·7	31·7	31·2	32·0	31·7	31·9	30·7	30·9	30·5	31·2	32·5	33·5	34·7	35·7	35·2	34·3	33·5	32·9	32·5	31·5	26·9	29·5	30·4	30·7	31·9	
26	31·7	31·7	32·2	33·9	32·2	30·9	30·9	30·2	29·2	28·9	31·7	33·5	34·7	35·4	35·0	34·5	33·7	32·9	32·3	31·7	29·7	26·9	30·5	31·2	31·9	
27	29·7	27·7	29·7	31·7	32·7	31·2	30·9	31·9	31·5	31·5	31·3	32·9	36·0	37·9	37·9	35·5	33·4	32·5	32·7	31·2	30·7	29·7	30·5	31·2	32·2	
28	31·7	31·7	31·9	31·9	31·7	31·5	30·9	30·5	29·2	28·9	30·5	31·9	33·5	35·5	35·5	34·7	33·5	32·2	32·9	32·4	31·7	31·5	30·9	29·9	31·9	
29**	30·2	31·7	31·9	32·5	32·7	32·0	31·7	31·4	30·5	30·2	30·7	31·2	32·9	36·2	37·7	37·2	38·5	41·7	40·2	35·7	33·2	24·7	23·7	29·7	32·8	
30**	29·7	36·2	31·7	30·2	30·7	31·2	31·7	32·2	32·7	34·2	33·7	34·7	37·5	36·9	36·9	37·2	36·9	34·9	32·7	31·7	22·2	11·9	12·7	10·7	30·5	
31**	11·7	23·2	25·2	27·5	29·7	29·2	29·9	30·7	31·0	30·5	31·2	33·7	36·7	38·7	41·7	37·9	36·5	35·9	34·7	32·9	33·7	28·5	25·9	25·2	30·9	
Mean	29·3	30·2	30·5	31·5	31·7	31·5	31·4	31·3	31·1	30·7	31·7	33·2	35·1	36·3	36·2	35·2	34·4	33·6	33·1	32·2	31·1	29·6	29·1	28·8	32·0	
Mean*	30·6	31·1	31·4	31·8	32·2	31·7	31·5	31·4	31·2	30·4	31·2	32·4	34·6	35·9	35·4	34·3	33·4	32·7	32·7	32·1	31·8	31·3	30·8	30·7	32·2	
Mean**	26·0	30·4	30·5	30·9	31·5	31·2	31·3	31·4	31·5	31·5	32·2	33·4	35·6	36·9	37·9	36·3	36·1	35·1	34·9	33·4	30·5	25·0	24·0	22·7	31·7	

February. — 14° + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	27·7	29·7	34·7	32·7	31·7	31·7	30·9	30·9	30·7	30·9	33·7	33·2	34·7	35·7	35·7	33·7	34·2	23·7	26·2	30·7	27·7	31·7	27·2	26·7	31·1	
2	29·2	27·7	29·7	30·7	29·7	30·7	31·2	31·2	30·2	30·2	30·7	31·9	33·2	34·5	33·7	33·7	34·2	30·7	26·2	27·2	30·2	29·7	30·7	31·2	30·8	
3	29·2	29·2	29·7	30·5	30·9	31·2	30·9	30·7	30·2	30·2	31·7	32·7	34·7	35·5	35·2	33·5	32·7	32·7	32·2	31·7	31·2	30·7	29·7	29·9	31·5	
4	30·9	31·7	31·2	31·2	31·2	30·9	30·7	30·3	29·7	29·7	30·7	31·7	33·2	34·4	34·2	33·7	32·2	33·7	32·9	32·0	31·5	30·9	30·4	30·0	31·6	
5**	30·9	31·7	31·2	31·2	31·3	31·5	31·1	30·7	29·9	30·7	33·2	35·7	33·7	35·4	37·0	37·4	37·7	35·0	34·1	32·7	32·3	31·5	30·9	30·7	32·8	
6**	29·7	31·5	22·7	19·7	22·7	30·7	32·9	32·7	32·7	34·2	33·2	34·2	36·2	36·9	37·5	34·7	34·5	33·7	32·9	31·9	31·5	31·5	30·9	27·9	31·5	
7	29·2	30·7	31·0	29·9	29·7	30·5	30·7	31·2	33·7	30·5	32·2	32·7	34·5	36·7	35·7	34·2	33·5	32·9	32·7	31·7	31·2	30·2	30·7	29·7	31·9	
8*	31·4	31·2	31·4	31·5	31·3	30·9	30·7	30·2	29·2	29·7	30·7	32·2	33·7	34·7	34·4	34·0	33·5	32·7	32·2	31·7	31·2	31·2	31·2	30·7	31·7	
9	30·9	30·7	29·5	29·9	30·5	30·7	30·7	30·7	29·9	30·7	33·2	35·0	36·5	36·9	35·7	33·7	32·7	32·7	32·9	32·5	30·5	27·7	27·9	28·9	31·7	
10	29·7	25·4	26·2	28·5	29·7	30·7	29·5	29·2	29·7	30·5	31·7	33·7	35·4	36·7	35·7	35·9	36·0	30·7	31·2	31·9	26·7	25·2	24·2	25·2	30·4	
11	24·7	34·7	29·2	28·2	29·2	29·7	30·2	29·2	28·9	29·0	31·9	33·2	35·5	38·2	37·7	34·7	34·7	33·9	33·2	33·2	30·0	27·7	27·7	25·5	31·3	
12**	24·7	23·2	20·7	24·2	29·2	29·7	28·2	30·2	30·2	30·7	33·2	31·7	32·2	31·7	30·9	34·7	35·9	34·7	32·9	35·7	30·7	28·9	20·7	22·7	29·5	
13**	21·2	13·7	17·2	22·7	20·7	27·7	29·7	29·7	30·2	31·7	32·5	31·7	30·2	30·7	30·7	30·9	31·7	33·5	34·5	34·9	36·2	31·9	29·9	26·7	28·8	
14	20·7	22·2	29·2	25·7	23·7	29·2	29·2	31·7	32·2	34·2	33·7	34·7	36·9	37·7	37·0	35·5	33·7	33·2	33·2	33·7	32·4	30·7	29·7	29·2	31·2	
15**	27·2	24·2	24·7	26·7	28·5	29·7	29·7	28·9	28·5	29·2	31·2	32·2	34·2	36·2	37·7	38·2	40·2	38·7	44·2	36·7	33·7	30·7	29·7	27·2	32·1	
16	26·9	29·2	30·2	30·9	30·9	31·5	31·2	31·2	31·5	31·7	34·2	37·2	33·9	35·7	36·2	35·7	34·5	33·2	32·9	32·0	29·2	26·7	29·7	29·7	31·9	
17	30·2	30·5	30·7	30·9	31·5	31·7	31·7	31·1	29·5	29·0	30·2	32·5	34·2	35·9	35·7	35·5	34·2	31·7	32·7	32·2	29·7	29·2	29·7	29·9	31·7	
18	30·2	31·2	30·7	30·5	30·7	31·2	31·2	31·7	30·9	28·9	30·2	32·9	34·0	33·9	34·7	34·2	33·7	32·7	30·9	32·7	32·2	31·2	30·9	30·7	31·8	
19*	30·2	29·9	29·7	29·5	29·9	29·9	30·0	30·5	29·7	30·5	32·2	33·5	33·5	33·9	34·7	33·9	33·5	33·5	32·9	32·5	31·9	30·7	30·7	30·7	31·6	
20	30·7	30·7	30·7	30·5	30·2	30·2	30·5	29·7	28·9	29·1	31·2	32·9	34·0	34·9	34·9	34·5	33·9	32·7	32·5	32·7	31·9	30·9	24·7	26·7	31·2	
21	29·7	31·2	31·7	30·9	30·7	26·2	29·7	30·7	30·5	31·7	34·2	34·5	34·7	35·2	34·7	33·5	31·9	31·7	32·2	31·7	30·7	31·2	30·7	30·7	31·7	
22*	30·5	30·5	30·7	30·5	30·3	30·0	29·9	29·2	28·9	29·2	31·0	32·9	33·7	33·9	33·5	32·7	32·9	32·7	32·5	31·7	30·7	31·2	30·9	30·7	31·3	
23	30·7	31·2	30·7	30·7	30·2	30·2	29·9	29·2	28·2	28·2	30·2	32·9	34·9	35·7	36·2	35·1	33·7	33·7	32·2	30·7	31·2	26·7	19·2	23·2	30·6	
24	26·7	27·7	28·2	26·2	26·2	29·2	29·2	29·2	29·7	29·7	31·7	34·2	36·2	34·5	34·9	33·7	32·4	31·7	31·2	30·0	27·2	27·7	28·2	30·2	30·2	
25*	30·2	30·7	30·9	30·9	30·7	30·7	30·5	29·7	29·2	29·2	30·7	32·9	34·7	34·5	34·7	34·2	32·7	32·5	32·2	31·7	30·9	30·7	30·7	30·5	31·5	
26*	30·7	30·7	30·4	30·4	30·7	30·7	30·0	29·2	29·0	28·9	31·2	33·7	36·2	36·7	36·2	34·7	33·2	32·7	31·9	31·0	30·7	30·2	30·2	30·2	31·6	
27	30·5	30·7	30·7	30·9	30·2	29·7	29·7	29·2	28·9	29·5	31·4	34·7	35·5	36·4	36·7	35·0	34·2	33·9	33·2	32·5	29·4	28·9	25·2	26·7	31·4	
28	26·5	25·5	27·9	27·5	28·7	28·4	28·2	31·7	32·2	29·7	30·2	33·7	37·9	40·7	40·7	40·7	39·7	36·5	34·2	31·2	25·7	26·2	28·2	29·2	32·0	
Mean	28·7	29·1	29·0	29·1	29·3	30·2	30·3	30·4	30·1	30·3	31·9	33·4	34·6	35·5	35·4	34·7	34·2	32·9	32·6	32·2	30·6	29·7	28·6	28 6	31·3	
Mean*	30·6	30·6	30·6	30·6	30·6	30·4	30·2	29·8	29·2	29·5	31·2	33·0	34·4	34·7	34·7	33·9	33·2	32·8	32·3	31·7	31·1	30·8	30·7	30·6	31·6	
Mean**	27·3	24·9	23·3	24·9	26·5	29·9	30·3	30·4	30·3	31·3	32·7	33·1	33·3	34·2	34·8	35·2	36·0	35·1	35·7	34·4	32·9	30·9	28·4	27·0	30·9	

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION.—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
March	14°+Tabular Quantities.																									Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	28·5	27·5	29·7	30·9	29·2	29·9	29·9	30·7	30·5	30·4	31·2	32·2	33·9	34·5	33·9	32·0	31·7	31·9	31·7	31·5	27·7	29·2	28·9	28·2	30·7	
2	27·2	26·7	28·2	29·2	30·2	28·2	30·2	29·7	30·2	30·9	33·2	33·7	35·5	35·4	34·0	32·7	31·7	30·2	31·9	28·2	24·7	28·2	29·7	28·2	30·3	
3	28·9	29·2	30·2	28·2	28·5	27·7	27·7	28·2	28·7	29·7	31·2	35·7	38·2	39·7	37·0	35·0	36·7	34·7	33·4	31·9	30·9	26·5	24·7	22·2	31·0	
4	22·2	27·9	32·9	30·7	29·7	29·7	29·2	28·9	28·9	30·2	31·7	33·5	34·9	34·9	34·5	32·9	32·7	31·9	32·7	32·0	31·2	30·2	29·9	29·7	31·0	
5*	30·7	30·2	30·7	30·5	30·5	30·1	29·7	29·2	28·2	29·2	30·7	34·2	36·2	36·4	35·2	33·7	32·0	32·7	32·7	30·7	27·7	29·2	29·2	30·2	31·2	
6*	29·7	29·7	29·7	29·7	29·7	29·9	30·2	31·5	31·2	30·7	32·7	35·0	35·7	37·4	36·5	33·9	32·7	32·5	32·0	30·9	29·7	29·2	29·2	29·2	31·6	
7	30·5	30·2	29·9	30·2	30·2	30·2	30·2	30·2	30·2	30·9	33·2	35·2	36·2	35·7	34·9	33·7	32·5	32·2	32·2	31·7	31·7	31·2	29·2	25·2	31·5	
8**	20·7	15·2	2·2	11·7	22·7	29·7	29·7	29·2	30·2	30·7	31·7	33·7	34·7	34·2	34·2	34·7	31·2	31·7	16·7	29·9	31·2	30·2	31·2	29·7	27·3	
9	29·7	34·2	30·7	29·2	29·7	29·7	28·2	26·7	26·7	27·7	30·2	33·5	35·2	35·5	35·2	33·2	32·2	31·7	31·5	30·9	30·7	30·7	30·7	30·7	31·0	
10	30·2	29·7	29·2	29·5	29·2	28·9	28·9	27·7	27·2	28·2	31·5	34·9	37·5	38·9	39·2	38·7	33·7	33·9	32·7	31·7	30·2	25·7	24·9	26·5	31·2	
11**	27·7	28·2	31·7	30·7	26·7	25·7	26·7	27·7	28·2	29·2	31·7	34·7	36·9	36·7	38·4	35·0	34·7	34·2	30·7	27·2	27·7	27·2	26·7	26·2	30·4	
12**	28·5	27·7	27·7	27·7	26·7	28·2	29·7	29·7	28·9	30·9	35·7	37·2	39·7	39·4	38·7	32·7	31·7	32·2	31·2	30·7	29·2	28·2	28·5	27·7	31·2	
13	26·2	27·5	28·2	28·9	28·9	28·7	28·2	27·5	27·7	29·2	31·2	34·7	37·7	38·2	35·7	33·9	32·2	31·7	31·7	31·2	30·7	30·2	29·9	29·9	30·8	
14	29·7	29·7	29·5	28·5	27·7	27·9	28·2	29·7	26·7	28·9	31·7	35·7	38·7	39·2	37·7	36·5	33·7	30·7	32·5	32·7	31·7	29·7	28·5	28·9	31·4	
15**	29·7	30·7	29·2	29·2	28·9	28·5	28·2	30·7	29·7	29·7	31·2	34·2	35·5	40·2	36·7	33·7	31·2	31·7	32·5	31·2	30·9	30·7	29·9	29·7	31·4	
16**	28·9	25·2	23·2	23·7	24·5	27·7	28·2	27·7	26·7	27·5	29·7	33·9	40·2	39·7	41·7	39·7	36·7	29·7	29·7	30·2	28·2	30·7	30·5	30·2	30·6	
17	30·2	29·9	29·7	29·5	29·2	28·9	28·9	28·7	28·9	30·2	31·7	35·0	36·7	36·7	35·2	33·5	31·7	31·9	31·7	31·5	31·2	30·2	27·2	29·7	31·2	
18	29·7	29·7	29·7	29·2	29·0	28·9	29·2	26·9	25·5	26·7	30·7	35·7	37·2	37·7	34·9	33·7	31·0	30·5	30·9	30·7	30·7	30·7	30·2	30·8		
19*	30·2	29·9	29·7	29·2	29·0	28·7	27·7	26·7	25·7	27·2	30·7	33·7	35·5	36·2	34·2	32·2	31·5	30·7	31·2	30·7	29·2	29·7	28·9	29·0	30·3	
20	29·2	29·7	29·9	29·7	29·5	28·9	28·9	28·5	28·9	29·7	33·2	35·7	38·2	37·7	36·0	33·7	31·4	30·7	31·2	30·7	30·7	30·2	29·9	29·9	31·3	
21	29·7	29·7	29·7	29·5	28·9	29·2	28·5	26·5	25·7	27·2	31·2	35·7	38·2	41·2	40·2	39·7	35·2	32·7	29·7	26·2	25·7	28·2	27·7	29·7	31·1	
22	29·9	30·7	30·7	29·7	29·7	31·3	30·7	27·7	26·7	27·7	30·7	35·2	38·2	39·2	38·7	37·2	31·7	29·7	33·2	31·7	30·9	30·5	30·2	30·2	31·8	
23	30·2	27·7	32·2	28·2	26·7	29·7	27·5	25·9	25·2	27·2	30·7	33·7	37·2	37·7	36·9	34·7	33·2	32·2	30·7	26·7	27·7	27·2	29·2	29·7	30·3	
24*	29·7	29·7	30·5	29·9	30·5	29·7	28·2	26·2	25·7	26·9	29·2	32·7	35·9	37·4	36·0	34·2	32·0	30·7	30·2	29·9	29·7	29·7	29·9	30·2	30·6	
25*	30·2	30·4	30·2	30·0	29·7	29·5	28·5	26·4	24·7	26·2	29·7	33·7	36·3	37·4	36·1	34·0	31·7	30·5	29·9	29·7	27·5	27·4	28·9	29·7	30·3	
26	29·9	30·7	30·5	29·5	28·9	28·2	26·7	24·7	24·9	28·2	32·7	38·5	39·9	39·7	38·5	37·5	35·5	33·7	32·2	30·7	30·2	29·7	27·7	26·7	31·5	
27	29·9	30·5	29·9	29·7	28·2	27·2	27·2	25·7	23·7	27·2	30·7	35·7	40·2	42·7	42·5	40·9	36·0	31·7	29·9	29·7	23·9	24·2	27·7	28·2	31·0	
28	28·2	27·7	28·2	27·2	27·7	27·2	27·7	27·2	25·7	26·7	30·2	35·2	39·2	41·0	39·9	37·2	35·0	34·2	32·5	31·4	30·7	28·2	29·2	28·9	31·1	
29	29·7	29·2	27·2	27·7	27·2	26·2	26·7	26·7	27·2	27·2	30·7	35·5	37·9	37·7	35·7	32·7	31·2	29·7	29·7	29·7	29·7	30·2	29·2	26·2	30·0	
30	28·9	30·0	29·7	29·7	30·2	29·2	27·2	25·7	25·9	26·2	30·2	34·2	37·2	37·7	36·5	32·2	30·7	30·2	30·2	25·7	26·2	29·9	29·7	29·7	30·2	
31	29·7	29·7	29·2	29·2	29·2	28·9	27·2	24·7	25·2	26·2	29·7	34·7	38·7	39·7	36·7	34·7	32·9	30·5	27·7	25·7	27·7	29·7	29·7	29·7	30·3	
Mean	28·8	28·9	28·7	28·6	28·6	28·8	28·9	27·8	27·4	28·5	31·3	34·7	37·2	37·9	36·8	34·9	32·8	31·7	30·9	30·1	29·2	29·1	28·9	28·7	30·8	
Mean*	30·1	30·0	30·2	29·9	29·9	29·6	28·9	28·0	27·1	28·0	30·6	33·9	35·9	37·0	35·6	33·6	32·0	31·4	31·2	30·4	28·8	29·0	29·2	29·7	30·8	
Mean**	27·1	25·4	22·8	24·6	25·7	28·0	28·5	29·0	28·7	29·6	32·0	34·7	37·4	38·0	37·9	35·2	33·1	31·9	28·2	29·8	29·4	29·4	29·4	28·7	30·2	
April	14°+Tabular Quantities.																									Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	29·7	29·7	29·7	29·5	29·2	28·9	27·5	25·7	25·2	27·2	30·7	36·2	39·7	40·2	38·2	35·7	33·2	30·2	29·2	27·7	27·7	27·2	26·9	28·2	30·6	
2	30·7	26·7	24·7	26·2	24·7	26·7	27·2	24·7	24·2	26·2	30·7	34·2	37·2	39·2	38·2	35·2	32·9	30·7	30·7	29·7	29·7	29·9	29·7	29·5	30·0	
3	29·2	29·2	29·2	29·2	29·2	28·9	27·2	25·7	24·9	26·2	28·9	33·2	36·2	39·2	38·7	35·5	33·7	31·7	30·7	30·2	30·2	29·2	26·7	24·7	30·3	
4	29·2	26·9	23·7	25·9	27·2	29·7	29·7	26·7	27·2	27·2	31·2	34·2	39·2	42·2	41·2	36·7	33·7	30·2	29·7	30·2	29·2	24·7	22·2	25·7	30·2	
5*	27·7	31·2	22·2	23·7	27·7	30·2	27·2	27·7	25·2	26·7	30·7	34·7	37·7	38·2	38·2	36·7	35·5	31·7	25·2	26·2	23·7	24·7	23·7	17·7	28·9	
6**	18·5	13·9	17·2	20·7	22·2	26·2	26·7	25·7	23·7	27·7	34·7	38·2	41·2	44·2	38·2	37·7	36·7	35·7	32·2	30·2	29·7	34·2	23·2	19·2	29·1	
7	26·7	26·7	20·2	23·2	30·7	25·2	24·7	26·2	29·2	29·2	31·2	34·7	38·2	38·7	37·7	35·2	32·2	29·7	29·7	29·7	30·2	30·7	30·7	25·2	29·8	
8	31·7	28·2	27·7	27·2	26·7	28·2	26·7	24·7	23·7	25·2	28·2	32·7	36·2	37·2	36·2	34·2	33·5	32·5	31·5	24·7	27·7	29·7	29·2	29·7	29·7	
9	29·2	27·7	27·7	27·7	26·7	28·2	27·2	23·7	23·7	26·7	30·7	34·7	39·2	40·2	38·7	34·2	32·2	30·7	29·7	28·9	28·2	26·7	29·2	29·2	30·0	
10	28·9	29·2	28·5	27·7	27·7	27·7	26·7	24·7	22·7	24·2	29·2	32·7	37·2	38·2	37·2	35·7	32·7	30·2	29·7	29·7	29·7	30·2	29·2	30·7	30·0	
11**	27·7	24·2	25·7	26·7	26·7	27·7	27·2	26·2	23·7	24·7	29·7	35·2	39·2	38·7	38·7	39·7	35·2	35·7	30·7	29·2	26·2	25·7	18·7	20·2	29·3	
12	24·7	26·7	23·9	25·7	26·7	26·7	23·7	21·7	24·2	27·2	28·2	30·7	33·2	32·7	32·7	31·7	31·7	31·2	27·9	29·7	30·5	30·7	29·7	28·9	28·4	
13*	29·7	29·2	29·2	28·9	28·7	28·2	26·7	24·5	23·7	26·7	31·2	35·2	37·7	37·7	35·2	32·7	30·2	29·7	29·2	30·2	29·7	29·7	29·2	29·7	30·1	
14*	29·7	29·2	28·9	28·7	28·5	28·7	27·9	26·2	24·7	26·7	29·7	31·7	34·2	34·7	33·7	31·7	30·7	30·2	29·7	29·7	29·7	29·7	29·7	29·7	29·8	
15*	29·2	29·7	29·9	31·7	27·5	27·2	26·5	25·2	24·7	26·7	30·2	33·7	37·7	38·4	37·5	35·2	33·7	31·0	30·7	31·2	30·7	30·2	29·5	29·2	30·7	
16	28·9	28·7	28·7	28·2	28·2	27·9	27·2	25·7	24·7	25·7	27·5	30·2	34·2	35·7	34·7	32·7	31·2	30·7	30·5	30·2	30·2	28·5	29·2	29·9	29·6	
17	29·7	29·2	28·9	28·5	28·2	27·7	26·7	25·7	24·7	24·7	25·7	30·7	33·7	35·2	34·7	32·7	31·7	31·2	30·7	30·7	30·7	27·2	23·9	23·5	29·0	
18	22·2	19·9	22·7	24·7	25·7	26·5	25·7	24·7	25·7	27·4	29·7	32·2	36·2	40·9	39·5	38·2	36·5	34·7	33·2	32·7	29·2	24·2	30·7	21·7	29·4	
19**	18·7	25·7	25·7	25·7	30·7	37·2	31·7	29·7	27·7	28·9	32·7	37·2	38·2	36·5	35·5	33·2	31·7	29·7	27·7	28·2	28·5	28·9	28·9	29·7	30·3	
20*	29·2	28·9	28·2	27·7	27·4	27·5	26·5	25·3	24·1	25·2	27·7	30·7	33·2	33·7	32·7	31·7	31·2	30·2	29·7	29·5	29·2	28·9	28·9	29·2	29·0	
21	29·2	28·9	27·9	27·5	27·2	27·2	26·7	25·2	24·2	24·7	26·7	31·7	34·7	35·7	35·7	34·2	32·9	31·7	31·7	31·2	27·7	24·5	26·9	25·5	29·2	
22	26·2	28·5	27·5	26·9	26·7	26·7	26·2	25·2	25·7	27·7	30·7	34·9	37·5	37·7	36·5	34·5	32·9	30·9	29·2	29·7	28·2	27·2	25·2	24·2	29·5	
23	26·7	22·2	24·2	25·7	22·7	24·7	24·7	23·9	26·2	29·7	29·2	32·7	35·9	37·5	35·7	34·7	32·7	30·2	26·5	27·4	28·2	29·5	28·9	29·2	28·7	
24*	28·9	28·9	29·0	28·5	27·7	27·4	26·5	25·5	26·7	29·7	31·7	35·9	38·2	37·7	35·2	33·2	31·5	30·7	29·2	29·5	29·7	28·9	28·2	27·5	30·2	
25	25·7	29·2	22·2	23·7	23·2	23·2	22·7	23·7	23·7	26·5	30·2	32·7	35·2	35·5	33·9	33·4	31·7	31·0	30·7	29·7	28·2	27·7	25·2	13·2	27·6	
26**	15·7	19·2	23·2	28·5	28·2	24·7	23·7	24·7	26·7	28·9	33·2	38·2	40·5	41·2	39·2	37·4	35·7	33·7	30·7	23·7	26·7	27·2	27·7	28·2	29·5	
27	28·5	27·9	27·2	27·7	25·2	24·7	24·2	24·2	24·9	26·7	29·7	31·2	34·2	34·7	34·9	34·0	32·2	30·7	29·2	28·9	29·2	29·0	28·9	29·0	29·0	
28	28·9	28·8	28·6	28·5	27·7	27·2	26·9	24·7	23·7	24·7	26·7	29·7	32·7	34·9	34·0	33·7	32·7	31·2	28·9	28·2	25·7	26·7	26·7	27·2	28·7	
29	28·2	28·2	28·2	28·2	27·9	27·7	26·7	25·9	25·3	25·7	26·2	28·9	31·7	32·9	32·7	32·7	32·7	31·9	30·5	29·5	29·2	28·2	28·7	28·7	29·0	
30	28·7	27·7	28·5	28·4	28·9	29·7	29·7	29·2	28·2	29·2	29·9	32·2	33·7	34·7	36·2	34·2	33·2	29·2	27·7	24·7	27·7	27·2	27·7	22·2	29·5	
Mean	27·2	27·0	26·3	27·0	27·2	27·6	26·6	25·4	25·1	26·8	29·8	33·4	36·5	37·5	36·4	34·6	32·9	31·3	29·8	29·0	28·7	28·2	27·4	26·2	29·5	
Mean*	29·3	29·2	29·0	29·1	28·0	27·8	26·8	25·3	24·8	27·0	30·1	33·4	36·2	36·4	34·9	32·9	31·5	30·4	29·7	30·0	29·8	29·5	29·1	29·1	30·0	
Mean**	21·7	22·8	22·8	25·1	27·1	29·2	27·3	26·8	25·4	27·4	32·2	36·7	39·4	39·8	38·0	36·9	35·0	33·3	29·3	27·5	27·0	28·1	24·4	23·0	29·4	

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
May.													14°+Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1**	20·7	22·7	25·7	21·2	22·2	24·2	26·7	26·7	26·2	26·7	30·2	30·5	33·7	35·2	33·9	31·7	30·0	29·2	27·7	24·7	27·7	27·9	28·2	28·9	27·5	
2	28·9	30·2	27·7	26 7	25·2	25·2	23·5	25·2	24·7	26·7	28·5	31·7	34·2	34·7	34·2	32·7	31·2	30·5	29·9	29·2	28·9	28·9	29·2	30·7	29·1	
3	29·2	26·7	27·7	26·2	24·7	25·2	23·2	22·7	23·5	25·7	29·7	31 7	34·0	34·4	36·5	34·0	30·7	30·2	29·2	29·5	28·9	29·2	28·9	27·7	28·7	
4	28·2	27·9	27·7	27·5	25·2	25·7	27·2	25·2	24·7	24·7	29·2	34·2	38·2	39·7	38·5	36·2	32·9	30·2	27·7	28·2	28·9	28·9	28·5	28·2	29·7	
5	28·2	27·7	26·7	27·7	26·7	26·2	26·2	25·2	27·7	27·2	29·2	33·7	35·2	36·5	34·5	31·7	30·7	29·2	28·2	30·7	28·7	28·9	28·5	28·2	29·1	
6	27·7	27·7	27·2	25·9	27·2	25·5	24·7	24·2	26·2	28·2	30·7	33·7	37·7	36·7	34·7	33·7	31·7	30·2	29·7	29·7	29·7	29·2	29·2	28·7	29·6	
7*	28·9	28·5	27·9	26·9	25·7	24·7	23·7	23·7	24·2	26·2	30·2	32·7	34·2	35·2	33·7	31·2	29·2	28·2	28·7	29·2	29·7	29·7	28·7	28·7	28·7	
8*	28·9	28·7	27·9	30·7	32·7	34·2	34·5	35·2	33·7	30·7	31·2	36·7	39·7	40·7	36·7	33·7	30·7	29·5	29·2	29·9	30·2	29·9	29·7	29·5	29·7	
9*	29·7	27·9	25·7	26·5	25·2	24·2	22·7	22·2	23·2	25·7	29·7	34·2	37·2	36·9	36·0	33·9	31·7	29·7	28·2	28·7	28·7	28·2	27·9	28·2	29·0	
10	29·2	28·7	28·7	28·2	27·7	24·7	22·2	20 2	22·7	26·2	29·7	32·7	35·7	35·2	33·9	32·9	31·7	30·3	28·7	29·2	29·2	29·5	29·2	28·7	29·0	
11	27·7	27·9	27·7	27·5	26·7	24·7	23·7	23·7	25·7	27·7	30·2	32·7	34·2	35·2	34·7	34·7	33·5	30·9	29·9	29·2	22·7	26·2	29·2	27·7	28·9	
12	24·2	25·2	27·7	28·7	26·7	24·7	24·2	23·9	27·2	27·7	30·2	33·2	34·7	34·2	34·7	33·7	32·2	30·7	29·7	29·9	30·0	29·2	28·7	26·2	29·1	
13	26·7	26·7	27·7	26·7	27·7	27·5	24·7	23·7	24·5	27·2	30·2	32·7	35·7	35·7	34·7	32·2	30·2	29·7	29·2	30·2	30·2	29·7	29·7	29·2	29·3	
14	28·9	28·7	28·2	27·7	27·2	24·7	21·7	23·2	23·7	25·7	29·7	33·2	36·2	37·2	35·2	32·7	31·7	30·7	29·7	29·5	29·7	29·2	28·7	29·2	29·3	
15	25·7	25·7	27·7	27·9	26·9	25·5	24·2	23·7	23·7	27·2	30·2	33·9	37·2	40·5	40·5	37·7	33·7	29·7	30·2	30·2	27·2	23·7	26·7	27·7	29·5	
16**	25·7	22·2	24·2	24·2	24·2	23·7	23·2	23·9	24·9	26·7	28·2	32·2	34·2	34·7	36·0	35·7	35·4	35·4	34·7	29·0	20·7	17·7	13·7	12·7	26·8	
17**	13·2	20·7	22·7	25·2	24·2	21·2	20·2	21·2	25·7	29·7	29·7	31·9	34·7	36·7	34·2	32·2	32·0	30·7	29·7	22·2	27·2	28·2	30·2	23·7	27·0	
18**	24·7	27·7	28·2	28·7	28·7	30·2	24·7	23·2	21·7	25·2	27·7	31·2	31·7	31·7	34·2	32·7	31·2	29·7	30·2	28·7	29·2	30·7	26·7	26·7	28·6	
19**	30·7	30·7	29·2	28·2	26·7	26·7	25·2	25·2	25·7	28·2	29·7	31·2	32·7	33·2	33·7	31·2	31·2	30·7	28·5	28·5	28·7	29·2	32·7	30·2	29·5	
20	29·2	29·2	27·2	25·7	27·7	26·2	26·2	23·7	23·7	25·7	29·2	30·7	33·7	35·9	35·0	31·9	31·0	30·2	27·7	26·2	27·7	28·2	29·7	25·2	28·6	
21	26·2	29·2	25·7	26·7	28·2	26·2	25·7	23·7	25·2	26·2	27·7	30·2	33·9	32·0	33·7	31·9	30·7	30·5	29·7	28·5	27·7	27·9	26·9	27·5	28·5	
22	25·9	23·7	24·2	26·7	25·7	24·9	23·5	25·2	25·4	26·5	29·7	32·5	33·9	33·9	33·4	31·7	30·5	29·9	29·5	29·0	29·4	29·4	27·2	28·7	28·3	
23	28·7	26·7	29·7	30·2	27·2	25·7	24·7	23·7	24·2	24·7	26·9	30·5	34·2	35·2	35·2	34·2	31·2	29·7	29·5	29·7	29·5	28·9	28·9	28·7	29·1	
24	29·2	28·2	29·9	30·7	30·9	31·7	32·7	33·7	32·9	30·7	29·7	32·2	32·2	32·2	32·2	31·7	31·2	30·7	30·2	29·2	28·9	29·0	28·7	28·7	28·8	
25	29·2	29·2	29·2	30·7	31·7	33·7	33·7	32·7	31·2	29·7	33·7	35·2	35·7	34·7	33·7	31·2	29·2	28·2	26·7	28·2	28·7	28·7	28·2	28·2	29·0	
26*	27·9	27·9	29·7	30·7	31·7	33·1	34·7	35·5	34·7	32·2	28·7	34·2	34·7	35·2	33·2	31·2	29·2	28·2	28·2	28·5	28·7	28·7	28·7	28·7	28·3	
27*	28·5	28·7	27·9	27·5	26·2	25·7	25·2	24·7	24·7	26·2	29·2	33·2	35·7	35·2	34·2	32·7	31·7	29·2	28·7	28·2	29·2	29·2	28·9	29·0	29·2	
28	28·5	27·7	27·7	26·9	25·7	23·9	23·7	23·5	24·7	25·2	27·2	31·2	33·7	36·2	35·7	34·7	33·7	31·7	29·2	28·7	28·9	28·9	28·9	28·7	29·0	
29	28·7	29.2	28·5	27·7	25·7	25·7	24·7	24·5	24·2	23·2	25·7	29·2	32·5	34·9	34·7	34·2	34·2	33·2	32·7	31·2	27·7	25·9	26·7	27·5	28·9	
30	26·7	26·2	25·2	28·2	29·7	27·7	25·7	24·5	24·7	25·9	27·7	32·2	34·5	34·9	36·2	35·2	34·9	33·2	30·0	27·7	28·5	28·4	28·2	28·2	29·3	
31	28·2	27·7	27·2	26·7	26·7	25·9	24·5	24·7	23·7	25·2	29·7	31·9	33·7	34·7	34·5	33·7	32·2	31·2	29·2	26·7	28·2	29·2	29·2	28·2	28·8	
Mean	27·2	27·3	27·2	26·9	26·3	25·1	24·2	23·8	24·6	26·4	29·3	32·5	34·8	35·5	34·9	33·2	31·7	30·4	29·3	28·5	28·4	28·3	28·3	27·7	28·8	
Mean*	28·8	28·3	27·4	26·8	25·5	24·4	23·4	22·9	23·7	26·0	29·8	34·2	36·3	36·6	34·8	32·5	30·5	29·0	28·6	28·9	29·3	29·3	29·1	29·0	29·0	
Mean**	23·0	24·8	26·0	25·5	25·2	24·8	24·0	24·0	24·8	27·4	29·1	31·4	33·4	34·3	34·4	32·7	32·0	31·1	30·2	26·6	26·7	26·7	26·3	24·4	27·9	
June.													14°+Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	28·7	28·2	26·7	26·2	24·7	24·2	23·7	22·2	21·7	23·7	26·7	31·2	33·2	34·2	34·2	32·2	31·2	29·7	29·2	29·7	29·2	29·2	28·9	28·5	28·2	
2*	28·2	27·7	27·7	27·2	25·7	24·2	23·2	22·9	22·5	24·2	26·7	30·2	33·5	35·5	35·1	33·0	31·4	30·0	29·4	29·2	29·5	29·9	29·7	28·2	28·5	
3*	27·5	27·2	26·7	26·2	24·7	23·7	23·2	23·7	23·2	24·7	28·2	30·2	32·5	33·2	33·2	32·7	30·2	28·9	28·9	29·2	29·2	29·3	29·2	28·7	28·1	
4*	28·2	27·7	27·2	26·7	25·7	24·5	24·2	24·5	24·9	26·9	28·7	33·2	35·7	37·2	35·7	34·7	31·7	30·7	29·9	29·5	28·7	28·7	28·7	27·9	29·2	
5	27·2	26·7	26·7	26·2	26·2	24·9	24·2	23·2	23·7	26·7	29·7	34·2	36·7	38·2	37·2	35·7	33·2	30·7	29 ·2	28·2	29·2	29·2	29·2	28·9	29·4	
6	29·2	27·7	27·7	27·2	25·7	24·2	24·7	25·7	24·2	25·2	27·7	33·7	37·2	38·7	37·7	35·7	32·2	30·2	28·5	28·4	28·7	28·9	29·7	29·7	29·5	
7	26·7	26·7	25·7	25·2	24·2	22·5	22·9	23·2	23·7	26·7	30·7	33·2	36·2	37·5	36·2	34·2	30·7	29·2	27·7	27·7	28·2	28·5	28·7	28·9	28·5	
8	28·7	28·7	29·2	28·2	25·7	24·7	24·2	24·7	25·2	27·2	30·7	37·2	39·2	38·2	36·2	32·7	29·7	28·2	27·2	27·7	28·2	29·9	28·7	28·2	29·5	
9**	28·9	28·2	28·2	27·5	26·7	24·2	23·7	23·7	23·9	26·2	30·2	32·7	35·2	36·0	35·2	33·9	32·2	31·7	31·2	28·7	25·7	24·7	24·7	22·7	28·6	
10**	15·7	26·7	24·7	21·7	18·2	20·2	23·2	23·7	28·2	31·7	30·7	32·7	33·7	35·7	37·7	37·2	34·2	30·7	29·2	28·2	28·7	30·2	27·2	26·7	28·2	
11**	27·7	28·2	30·2	29·2	26·2	25·2	24·2	25·7	22·2	24·2	26·7	31·2	34·2	33·7	35·7	34·7	34·2	31·7	30·2	29·7	27·7	28·2	27·7	25·2	28·9	
12**	24·7	29·2	28·7	25·2	26·7	24·2	23·7	21·9	23·5	25·2	27·7	31·2	32·7	35·2	34·7	34·2	33·2	29·7	28·7	28·7	28·9	28·5	27·7	26·7	28·4	
13	23·7	23·7	27·7	24·7	24·9	24·7	24·5	23·5	22·7	24·7	27·2	29·2	31·2	32·2	33·2	32·2	31·2	30·7	28·7	26·7	27·2	26·7	26·2	22·7	27·1	
14	26·7	24·7	22·2	24·7	22·7	23·2	24·7	25·7	24·7	28·2	30·5	32·2	34·7	33·7	34·7	34·2	31·7	30·2	29·7	29·2	28·9	28·7	28·5	28·7	28·4	
15**	26·2	28·2	24·7	21·7	22·2	24·2	24·7	25·2	23·9	25·5	27·7	31·7	34·7	34·7	34·2	33·7	30·2	30·2	30·2	26·7	27·7	27·7	25·7	25·2	27·8	
16	26·2	30·7	23·7	22·7	26·7	26·7	24·7	21·2	22·2	24·2	26·7	29·7	31·7	32·0	32·7	32·7	31·4	29·2	27·7	25·7	27·2	25·7	27·2	23·7	27·2	
17	23·7	24·7	23·7	26·7	25·7	25·7	25·2	22·9	23·7	25·2	28·7	31·2	32·7	34·7	34·7	31·7	30·7	30·7	29·7	27·7	28·2	29·2	26·7	24·7	27·9	
18	25·5	26·9	28·2	27·2	25·7	23·7	23·2	21·2	23·9	26·2	28·2	30·7	32·2	33·2	32·7	31·2	30·2	30·2	29·5	27·9	28·2	28·2	28·2	27·7	27·9	
19	27·7	25·9	24·7	24·5	23·7	21·9	22·7	24·2	25·7	28·2	30·2	31·7	31·7	31·2	30·2	28·9	29·5	29·2	28·7	27·2	27·9	28·2	28·2	27·9	27·5	
20	27·7	27·5	27·2	25·7	24·7	23·2	22·2	22·4	24·7	27·2	29·7	31·7	32·2	33·2	32·7	30·7	29·2	28·2	27·7	27·7	27·7	28·7	27·2	24·2	27·6	
21	23·2	25·2	25·2	24·2	22·9	20·5	19·2	19·7	20·9	23·2	27·7	32·7	34·2	34·7	33·7	32·7	30·2	30·7	30·7	28·2	28·7	28·7	29·2	28·7	27·3	
22	28·5	27·5	26·1	24·7	23·4	22·5	22·5	23·7	23·9	26·4	26·5	28·9	31·2	32·5	31·7	30·2	28·7	27·7	27·7	27·7	28·2	27·9	27·7	27·5	27·2	
23	26·9	26·7	26·9	26·3	24·7	22·7	22·7	23·2	24·7	27·2	31·7	34·5	35·7	35·9	34·7	31·5	28·7	26·7	26·9	27·5	27·7	27·7	27·7	27·9	28·2	
24	28·9	29·0	28·2	26·7	25·2	23·9	24·2	25·7	26·2	28·2	31·7	33·9	33·7	34·7	34·0	32·5	30·2	28·5	27·7	27·7	27·9	28·5	28·2	27·4	28·9	
25	28·2	27·2	26·9	26·0	23·7	22·7	22·7	23·2	25·7	27·7	30·7	33·2	33·7	33·5	33·7	32·2	29·7	28·5	28·7	28·7	28·7	28·5	28·1	27·7	28·3	
26	27·5	27·2	26·4	25·5	23·7	24·2	22·7	21·5	21·2	23·4	27·2	31·2	35·0	37·4	36·9	35·7	34·0	30·7	29·7	29·2	28·2	27·2	25·7	24·2	28·1	
27	23·0	25·7	25·9	24·7	21·2	21·7	21·2	21·2	22·7	25·7	28·2	31·2	34·7	34·7	33·7	32·2	30·7	29·2	28·9	28·5	28·2	28·2	26·7	25·7	27·2	
28	26·5	25·7	25·9	25·7	24·5	23·7	22·4	21·7	21·7	23·7	26·7	30·7	32·2	34·2	34·2	32·7	30·7	29·5	28·9	28·5	27·9	28·2	27·9	27·5	27·6	
29*	27·5	26·9	26·7	26·0	24·9	23·7	23·2	22·7	23·2	24·0	26·4	29·2	31·9	33·7	33·0	31·9	30·7	29·2	28·9	29·0	28·7	28·7	28·7	27·7	27·8	
30*	27·2	26·2	26·7	26·7	26·7	23·7	23·2	23·2	22·7	24·7	27·2	31·2	34·7	35·7	35·2	34·2	32·7	30·7	28·7	28·0	27·7	27·7	27·9	28·5	28·4	
Mean	26·5	27·1	26·5	25·6	24·6	23·6	23·4	23·2	23·7	25·9	28·6	31·9	33·9	34·8	34·5	33·1	31·2	29·7	28·9	28·2	28·2	28·3	27·9	26·9	28·2	
Mean*	27·7	27·1	27·0	26·6	25·5	24·0	23·4	23·4	23·3	24·9	27·4	30·8	33·7	35·1	34·4	33·3	31·3	29·9	29·2	29·0	28·8	28·9	28·8	28·2	28·4	
Mean**	24·6	28·1	27·3	25·1	24·0	23·6	23·9	24·0	24·3	26·6	28·8	31·9	34·1	35·1	35·5	34·7	32·8	30·8	29·9	28·4	27·7	27·9	26·6	25·3	28·4	

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
July													14°+Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	27·7	26·7	26·4	25·5	24·7	23·9	23·0	22·7	23·7	25·2	28·2	32·7	33·5	34·2	34·9	35·7	34·2	32·2	31·2	29·7	29·5	30·2	29·7	29·2	28·9	
2	30 7	27·2	25·7	25·5	23·4	21·7	22·5	23·5	23·7	25·7	26·7	28·5	30·7	31·9	31·9	31·5	30·9	31·5	30·7	29·7	30·7	28·2	26·2	24·7	27·6	
3	26·7	25·9	26·5	27·2	25·9	22·2	23·7	24·7	23·9	25·7	28·2	30·2	32·2	33·5	32·7	30·7	28·2	27·2	27·2	27·9	26·9	28·2	29·2	28·7	27·6	
4	28·7	27·5	25·7	24·2	23·4	21·9	23·2	25·7	24·7	26·7	27·7	30·9	34·5	35·7	34·7	33·7	33·5	31·7	30·5	29·7	29·2	28·2	27·7	27·7	28·6	
5	26·5	26·7	25·4	24·7	23·7	22·2	22·7	23·7	23·7	26·7	27·2	29·2	32·7	33·7	32·2	29·7	29·2	29·2	29·2	28·9	28·7	28·7	28·5	26·2	27·5	
6	26·2	26·2	25·9	25·0	23·7	22·7	22·7	23·2	24·7	26·7	30·2	31·9	34·7	34·7	33·2	32·7	31·2	30·2	29·2	28·2	27·7	27·7	28·2	27·2	28·1	
7*	26·7	26·7	26·5	25·9	24·7	23·7	21·7	20·7	21·7	25·2	29·7	32·2	35·7	35·7	34·5	32·7	31·5	29·7	28·7	28·7	28·7	28·9	29·2	29·0	28·3	
8**	27·2	26·7	25·7	16·7	18·2	18·5	16·9	20·7	22·7	27·2	28·7	31·5	33·2	33·7	33·9	33·9	32·7	30·2	28·5	26·7	26·9	27·2	26·7	23·2	26·6	
9	21·2	21·5	23·9	24·7	24·9	24·2	22·5	21·7	22·5	23·9	26·7	31·2	33·5	34·7	34·5	33·2	31·5	28·9	28·2	27·7	20·7	24·2	25·2	24·9	26·5	
10	23·9	26·2	26·2	25·5	25·9	21·7	20·9	21·7	23·2	25·7	27·7	31·5	33·7	34·7	34·2	33·2	31·5	29·9	29·5	28·7	27·9	27·5	20·7	25·7	27·4	
11**	19·7	26·7	24·2	25·9	27·5	27·5	25·2	20·7	21·7	22·7	25·2	29·7	30·7	32·7	34·2	33·9	31·5	30·2	28·7	23·7	22·9	23·5	23·2	25·9	26·5	
12	23·7	22·7	23·2	24·5	25·2	23·2	21·4	22·7	23·2	25·7	27·2	28·7	31·9	33·7	33·2	31·7	30·5	30·7	29·2	28·2	27·2	25·7	23·7	24·2	26·7	
13	25·2	24·2	24·7	23·7	21·7	21·2	20·7	21·2	21·7	23·7	27·2	31·7	35·7	34·2	35·7	33·7	31·2	31·2	30·2	29·7	29·2	28·2	27·2	26·7	27·5	
14	26·5	24·5	25·5	24·9	23·1	21·7	21·7	21·7	23·2	25·5	28·2	31·9	33·5	34·2	34·5	33·7	32·7	31·7	31·2	29·2	28·2	27·2	21·7	22·7	27·4	
15	24·5	28·2	25·9	22·7	21·7	21·7	24·7	25·7	25·2	27·2	27·2	31·5	32·7	33·2	34·2	32·2	30·7	29·2	27·7	27·7	27·7	27·7	27·2	27·7	27·7	
16	28·7	25·7	25·2	25·5	26·5	24·2	23·9	23·7	24·7	26·5	27·7	29·7	31·9	32·5	32·7	32·7	31·7	29·2	26·7	26·2	28·2	27·7	27·2	25·7	27·7	
17	24·9	25·7	25·7	25·7	24·7	23·5	22·7	22·7	23·7	25·7	27·7	31·5	33·5	34·9	34·5	33·7	31·5	30·4	29·7	29·2	28·7	28·7	27·2	25·5	28·0	
18	25·2	26·7	24·7	22·7	22·5	20·5	21·7	23·2	24·7	25·7	28·1	32·2	33·7	34·7	33·5	31·9	30·7	29·9	28·7	28·2	27·7	27·5	27·7	26·9	27·5	
19*	27·2	26·9	26·7	25·7	23·7	21·7	21·5	21·2	21·2	22·7	24·7	29·2	31·7	31·7	31·5	29·7	28·7	27·7	27·2	27·2	26·7	27·5	27·5	26·7	26·5	
20*	26·5	26·7	26·2	25·7	24·5	23·2	23·7	23·7	23·4	24·7	26·4	29·2	32·9	34·7	34·0	32·2	30·2	28·7	27·9	27·2	26·9	27·7	27·5	26·9	27·5	
21*	26·7	26·5	26·2	26·2	26·7	26·2	25·7	24·7	23·9	24·9	26·7	30·7	31·2	33·5	32·7	30·7	29·2	28·5	27·9	28·5	28·2	27·7	27·2	27·2	27·8	
22*	26·9	26·7	26·2	25·5	23·7	22·2	22·7	23·2	24·7	26·7	29·2	32·7	35·2	35·2	34·7	32·7	30·7	27·7	27·5	27·9	28·5	28·2	27·7	27·7	28·1	
23	26·9	26·2	25·9	24·7	23·7	20·7	19·7	19·7	22·2	23·7	26·7	30·7	33·5	34·4	34·9	34·0	31·9	29·7	28·2	27·2	26·2	26·7	26·2	27·2	27·1	
24	26·2	25·2	24·7	23·5	23·2	21·9	22·2	24·2	23·7	24·9	26·7	30·9	33·7	35·2	34·7	33·7	31·2	29·7	28·7	26·7	26·7	26·7	26·7	26·7	27·4	
25**	26·5	26·4	26·9	27·0	26·5	23·3	19·3	22·2	23·7	26·2	30·2	34·2	36·2	37·5	39·7	38·2	36·7	30·9	22·7	21·5	26·9	27·7	26·2	25·4	28·4	
26	24·7	24·2	23·7	23·7	26·7	21·2	19·2	21·2	22·2	24·7	27·7	30·7	32·7	34·7	35·2	33·2	30·7	27·9	23·5	25·9	27·5	28·2	26·2	24·7	26·7	
27	25·5	25·5	25·7	24·2	23·7	23·9	23·7	22·7	24·4	26·2	27·9	31·2	34·2	35·2	34·7	32·7	32·2	29·7	28·7	26·7	27·7	27·5	27·7	27·4	27·9	
28**	23·7	26·7	25·7	25·2	26·7	23·2	24·2	21·5	20·7	20·4	23·5	28·2	33·2	34·7	34·7	32·7	32·2	28·7	23·2	23·7	20·7	19·7	24·2	16·7	25·6	
29**	23·2	22·2	25·7	28·7	30·7	25·9	23·5	24·1	25·2	26·2	27·5	30·5	32·7	33·7	31·7	30·5	29·7	29·2	26·5	24·7	20·9	24·9	27·5	28·5	27·2	
30	32·7	28·2	22·7	22·7	21·7	21·0	24·7	26·7	20·7	22·7	24·7	28·9	30·7	31·7	32·7	30·7	29·2	28·2	26·7	25·7	23·9	25·7	25·7	26·2	26·4	
31	27·7	25·9	25·5	24·9	26·7	24·2	22·2	21·2	22·2	24·7	26·7	30·7	32·5	33·7	31·7	30·5	29·7	28·5	27·9	26·7	23·7	27·7	27·7	27·2	27·3	
Mean	26·1	25·9	25·4	24·8	24·5	22·7	22·4	22·8	23·2	25·2	27·4	30·8	33·2	34·2	33·9	32·6	31·2	29·6	28·1	27·4	26·8	27·1	26·6	26·2	27·4	
Mean*	26·8	26·7	26·4	25·8	24·7	23·4	23·1	22·7	23·0	24·8	27·3	30·8	33·3	34·2	33·5	31·6	30·1	28·5	27·8	27·9	27·8	28·0	27·8	27·5	27·6	
Mean**	24·1	25·7	25·6	24·7	25·9	23·7	21·8	21·8	22·8	24·5	27·0	30·8	33·2	34·5	34·8	33·8	32·6	29·8	25·9	24·1	23·7	24·6	25·6	23·9	26·9	
August													14°+Tabular Quantities.													Mean
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1*	24·7	24·7	24·7	24·7	22·7	21·7	20·7	20·2	21·7	24·2	25·7	29·7	33·2	33·9	32·7	30·2	28·2	26·2	26·7	26·7	26·7	27·2	27·2	27·7	26·3	
2	27·7	25·2	24·2	23·7	23·5	22·7	21·7	22·5	23·1	25·2	27·7	31·2	32·7	32·7	31·2	29·7	29·2	28·2	27·7	26·7	25·7	23·2	21·5	22·7	26·2	
3	19·2	24·2	24·2	25·9	22·9	19·7	18·7	19·2	20·7	23·7	28·2	31·7	32·5	34·5	36·1	33·7	29·9	29·2	27·7	25·7	26·2	26·7	26·7	27·7	26·5	
4	26·7	26·2	25·2	24·2	23·2	21·4	21·0	22·2	24·2	27·2	30·2	33·2	35·7	35·7	34·7	31·7	30·7	29·2	28·7	28·9	27·5	26·7	25·9	24·2	27·7	
5	24·9	24·2	23·7	22·7	21·9	22·3	21·2	21·4	23·7	27·0	30·7	33·2	37·2	34·7	32·2	30·9	30·2	26·2	25·5	25·9	25·7	26·2	25·7	25·9	26·8	
6	25·7	27·7	27·7	22·9	19·5	19·7	19·9	20·2	24·5	27·2	27·9	32·2	36·5	36·9	33·7	31·2	29·2	26·9	27·5	27·2	27·2	24·2	24·7	24·9	26·9	
7	25·2	25·2	24·7	23·9	24·5	21·7	21·7	23·5	24·9	26·7	27·9	32·5	33·7	33·5	31·9	31·4	30·7	30·4	29·3	25·7	25·7	26·7	27·2	30·2	27·5	
8	26·9	22·9	22·7	25·3	25·7	23·5	23·7	22·9	23·7	25·2	27·7	32·2	34·9	36·7	33·7	31·2	29·2	28·2	24·7	24·7	27·7	25·2	21·7	21·2	26·7	
9	25·2	25·2	22·7	26·7	23·2	19·9	20·9	21·3	23·5	25·7	26·7	30·7	32·7	33·7	24·2	29·7	29·2	28·7	26·2	27·7	27·7	21·2	25·2	24·7	25·9	
10	27·7	23·2	21·7	24·7	24·2	23·2	22·7	22·2	22·2	23·4	25·0	27·7	30·2	32·2	33·2	32·2	30·2	28·2	27·5	27·7	24·9	21·7	22·2	23·2	25·9	
11	23·2	22·2	23·2	27·2	23·7	22·2	20·5	19·9	22·2	23·0	24·4	28·7	33·7	36·2	34·2	32·2	32·0	29·9	28·2	26·5	25·7	27·7	25·2	24·7	26·5	
12	24·5	23·9	23·9	24·7	27·2	24·2	23·2	22·7	22·7	23·7	27·7	30·2	32·7	33·7	34·2	32·7	30·7	29·2	28·7	28·7	28·2	26·7	26·2	25·7	27·3	
13	25·2	25·2	24·2	23·7	23·2	23·5	22·9	23·0	23·7	25·4	26·7	29·7	32·7	33·2	33·2	32·5	30·9	29·2	27·7	26·7	26·7	24·2	21·2	22·9	26·6	
14	22·7	24·7	22·9	23·5	23·2	22·7	22·9	21·7	22·2	24·9	26·9	31·2	30·7	31·7	31·2	32·2	30·5	26·9	25·7	26·7	23·7	21·2	21·9	25·7	25·7	
15**	23·2	24·7	24·7	23·2	23·7	22·4	21·7	21·7	22·0	23·2	26·2	30·7	33·2	33·7	33·7	36·7	35·7	36·7	34·7	26·7	26·2	24·7	17·7	18·7	26·9	
16**	19·9	22·5	27·2	28·2	26·2	25·7	22·9	22·7	24·9	28·5	27·7	33·7	34·9	33·7	32·2	30·7	27·7	25·2	24·7	25·2	25·7	25·7	25·7	24·7	26·9	
17	25·7	24·7	24·2	23·7	21·7	21·9	22·5	22·7	23·2	23·9	25·7	28·7	31·7	33·7	33·5	31·2	28·7	27·7	27·2	27·7	27·2	26·7	26·2	24·7	26·4	
18*	24·7	26·2	27·7	27·7	24·7	22·9	22·5	22·7	22·2	24·7	26·2	29·7	30·2	31·2	31·2	29·7	28·2	26·7	26·2	26·2	26·7	26·2	26·2	26·2	26·5	
19*	26·2	25·7	25·2	24·7	23·7	22·7	21·7	21·7	22·7	25·2	28·7	32·7	34·5	34·7	32·7	29·9	27·7	26·9	26·7	26·7	27·2	26·7	26·2	25·5	26·9	
20	26·2	25·7	26·7	25·7	24·2	23·2	22·2	21·7	21·9	25·0	30·2	32·7	34·7	35·9	32·2	30·0	27·7	25·4	23·7	23·7	25·7	26·9	28·7	30·9	27·1	
21*	31·7	30·2	29·7	26·7	24·9	22·5	21·7	20·5	20·7	24·7	28·7	32·7	34·2	34·7	32·7	30·2	27·2	24·7	23·9	24·7	25·7	26·7	26·9	26·9	27·2	
22	26·5	25·7	24·7	23·9	22·5	21·9	23·7	22·7	22·7	26·2	31·2	35·2	36·7	35·7	34·2	31·9	28·7	25·7	25·2	24·7	24·7	25·7	24·7	25·4	27·1	
23	26·0	26·2	25·7	25·7	22·4	21·7	20·5	19·7	20·2	22·9	26·7	33·2	33·7	34·2	33·2	30·7	27·9	25·2	25·7	26·7	26·7	26·7	26·2	25·5	26·4	
24	26·2	25·5	25·7	24·7	22·9	21·9	21·7	23·3	23·4	26·2	27·7	34·2	36·9	36·0	34·2	32·7	31·7	26·5	23·2	24·7	26·2	22·9	21·7	23·7	26·8	
25**	19·7	24·7	23·7	30·7	20·7	20·7	18·2	20·7	26·7	26·7	28·2	34·7	35·2	37·2	35·9	34·5	31·9	28·7	27·7	28·2	27·7	26·7	25·7	23·2	27·4	
26**	22·7	22·2	28·2	27·7	23·7	23·7	24·7	23·2	22·2	22·2	26·7	29·7	32·7	34·5	34·4	33·7	29·7	29·2	26·7	25·7	27·2	27·2	23·9	21·7	26·8	
27**	23·7	23·2	25·2	24·2	27·7	26·7	24·7	26·7	27·2	26·2	28·7	32·7	35·2	32·7	32·2	30·7	29·2	27·2	20·7	24·2	26·7	27·2	27·2	25·7	27·3	
28	26·7	23·2	23·7	23·7	24·5	23·4	21·7	20·2	20·7	23·7	28·7	30·7	33·7	34·0	32·4	31·2	28·7	27·0	26·4	26·5	26·2	25·7	23·9	25·9	26·3	
29	29·2	25·7	25·2	24·7	24·7	23·9	23·2	21·7	21·7	23·9	26·7	31·7	33·7	33·9	32·2	30·2	28·7	27·2	26·2	26·2	25·7	24·7	24·2	26·7	26·7	
30*	25·7	26·2	25·2	24·7	23·7	22·2	20·9	20·5	21·7	22·7	25·7	29·7	32·2	32·9	31·2	29·5	27·7	26·9	25·7	26·2	26·2	23·9	24·7	22·9	25·8	
31	21·7	23·7	24·5	23·7	23·2	22·2	20·7	20·7	20·7	23·7	27·7	29·7	31·9	32·7	31·7	32·5	32·2	29·2	29·2	18·7	23·2	26·7	23·7	24·2	25·8	
Mean	25·0	24·9	24·9	25·1	23·7	22·5	21·8	21·8	22·8	24·9	27·6	31·5	33·7	34·2	33·1	31·5	29·7	27·8	26·6	26·1	26·3	25·5	24·7	25·0	26·7	
Mean*	26·6	26·6	26·5	25·7	23·9	22·4	21·5	21·1	21·8	24·3	27·0	30·9	32·9	33·5	32·1	29·9	27·8	26·3	25·8	26·1	26·5	26·1	26·2	25·8	26·6	
Mean**	21·8	23·5	25·8	26·8	24·4	23·8	22·4	23·0	24·6	25·4	27·5	32·3	34·2	34·4	33·7	33·3	30·8	29·4	26·9	26·0	26·7	26·3	24·0	22·8	27·3	

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September.										14°+Tabular Quantities.															Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1**	16·7	12·7	16·7	17·7	20·2	20·7	21·7	22·2	25·2	27·2	30·2	34·7	35·5	38·7	36·7	32·5	31·9	28·2	24·7	21·9	24·7	24·5	24·5	23·9	25·6
2	26·0	24·7	24·4	23·5	22·9	22·5	21·9	23·5	26·2	27·7	30·2	32·7	32·7	32·7	31·5	29·7	28·7	26·5	27·5	27·5	26·5	26·5	26·2	24·2	26·9
3	22·7	22·5	22·5	21·9	21·2	22·7	19·7	23·2	23·7	28·2	29·7	31·7	31·7	31·2	30·7	30·2	24·7	25·7	26·7	25·4	24·7	23·2	27·2	26·0	25·7
4	22·2	27·7	20·7	20·2	19·9	22·2	22·5	22·9	25·7	28·2	33·2	34·2	36·7	33·7	31·5	29·7	26·7	25·5	25·9	24·2	21·2	24·2	27·7	25·2	26·3
5	27·2	22·2	21·7	23·2	23·2	22·7	22·2	22·7	23·7	26·5	30·5	33·2	33·7	33·2	31·2	27·7	24·7	26·2	18·7	21·2	23·7	24·7	23·7	27·7	25·6
6	26·2	24·7	24·5	23·7	24·4	23·2	21·7	20·9	22·2	25·2	31·7	34·2	34·7	32·7	31·7	28·7	28·2	23·7	24·2	26·7	24·2	23·2	21·2	22·2	26·0
7	25·2	25·2	25·2	23·4	23·5	23·2	22·9	21·5	22·9	26·7	32·2	33·7	34·7	32·2	31·2	29·2	25·7	23·9	25·5	22·7	25·2	25·5	25·2	24·2	26·3
8	26·9	22·2	21·5	21·9	24·7	26·7	20·7	20·7	23·2	26·7	28·2	28·7	33·2	36·2	36·7	36·2	36·2	35·7	32·7	28·7	27·7	30·7	31·9	33·7	28·8
9	32·7	32·7	37·7	35·7	30·7	29·7	27·7	25·7	23·9	24·5	26·7	32·7	33·7	31·2	30·2	28·7	27·2	27·7	27·7	26·7	25·9	24·5	24·2	23·9	28·8
10	25·7	24·7	24·5	23·7	23·4	23·2	22·2	21·7	21·7	24·5	28·7	32·9	33·7	33·7	31·7	28·7	26·7	26·2	25·9	25·7	26·7	22·5	21·7	24·7	26·0
11*	26·7	26·2	25·2	23·2	22·2	22·2	21·9	21·5	21·5	22·9	26·2	30·5	31·7	32·5	29·9	28·2	25·7	25·2	26·5	26·7	24·7	24·7	23·7	22·2	25·5
12*	23·7	24·7	24·5	23·9	23·2	22·7	22·2	21·9	22·2	24·7	27·7	29·2	29·7	30·2	29·7	28·2	27·2	27·2	27·7	27·2	27·2	26·2	24·7	24·2	25·9
13	26·7	24·9	25·9	23·3	21·2	22·2	23·5	24·4	25·7	26·7	29·7	31·7	33·7	33·7	31·7	29·7	26·9	26·5	26·7	26·7	26·7	26·2	25·7	25·7	26·9
14	24·7	24·7	24·2	23·7	23·2	22·5	21·7	21·7	23·9	26·7	31·2	33·7	34·7	35·2	35·2	32·7	29·2	27·7	26·2	23·5	25·9	26·7	26·5	25·7	27·1
15*	24·9	25·5	23·5	23·0	23·7	23·4	21·9	21·2	22·2	25·2	28·7	30·9	32·2	32·7	30·7	28·7	27·5	26·9	26·7	26·7	26·7	25·9	23·7	21·7	26·0
16	17·7	22·7	19·7	18·7	23·7	23·7	23·2	22·7	21·7	23·7	25·2	30·7	32·2	31·7	29·7	28·2	27·2	26·7	27·7	27·7	25·7	16·2	27·7	23·2	24·9
17	20·2	27·7	25·2	24·2	28·2	24·7	23·7	21·7	21·7	23·7	26·7	32·2	34·7	33·7	34·7	31·7	29·7	16·9	25·2	23·7	22·7	23·7	22·2	21·7	26·3
18**	23·7	24·2	24·5	24·5	24·7	30·7	34·7	30·7	29·7	27·2	26·7	28·2	30·2	29·7	29·2	28·7	26·7	25·5	24·4	25·2	19·7	23·7	23·7	21·7	26·4
19**	21·7	20·2	18·7	21·7	17·7	19·9	23·2	27·7	28·7	27·7	30·7	30·5	34·2	34·7	31·7	29·7	28·2	25·7	22·5	23·4	24·7	15·2	23·7	24·7	25·2
20**	26·7	22·2	26·7	26·7	23·2	24·2	28·7	26·2	23·2	25·7	29·7	31·7	31·2	28·7	29·2	28·7	25·2	26·2	24·2	23·9	23·2	25·2	21·2	21·7	26·0
21**	24·7	25·7	22·9	25·7	27·7	29·7	25·7	29·7	26·7	29·7	31·2	35·7	36·2	32·2	33·7	35·7	28·7	27·7	25·2	21·7	33·7	17·7	21·7	17·7	27·8
22	21·7	27·7	27·2	29·7	25·2	23·9	20·5	18·7	18·2	21·2	24·7	29·7	32·7	32·5	30·9	28·7	26·7	23·2	17·7	20·2	12·2	18·7	22·2	24·7	24·1
23	27·2	29·2	20·7	22·7	22·7	24·2	21·7	20·2	20·5	22·7	28·7	31·7	31·7	30·7	27·2	26·2	27·2	26·7	25·9	25·5	25·2	25·2	24·7	24·7	25·6
24	24·7	24·2	24·2	23·9	24·2	23·7	26·2	22·7	22·7	24·2	26·2	31·2	32·2	33·2	33·2	32·2	29·2	28·2	25·2	21·7	21·7	19·7	18·7	22·7	25·6
25*	23·7	23·9	25·5	26·7	25·7	26·2	27·5	22·9	20·7	21·7	24·7	29·2	31·2	33·5	30·9	30·2	28·2	27·2	26·5	24·9	22·7	22·7	23·2	21·7	25·9
26*	23·2	23·9	25·2	24·5	23·7	23·2	22·7	22·2	22·2	23·7	25·7	28·7	31·7	30·7	31·2	29·2	28·2	26·7	23·7	25·7	25·7	25·7	25·2	24·7	25·7
27	24·7	23·9	23·7	23·7	25·5	23·5	25·7	23·2	23·7	25·7	28·2	31·2	34·2	35·2	34·7	32·2	26·7	28·2	26·7	26·2	25·7	25·7	25·5	24·7	27·0
28	24·5	22·9	23·7	21·7	23·2	23·5	23·2	21·7	19·7	22·2	27·7	28·7	38·7	37·5	36·2	36·2	35·7	35·5	30·5	31·7	26·9	23·7	22·2	21·2	27·5
29	19·9	20·5	22·7	23·7	22·7	23·2	22·7	21·7	21·9	22·7	23·7	27·2	30·2	32·7	32·5	32·5	29·5	28·7	26·7	25·2	18·2	19·2	24·7	23·7	24·8
30	21·7	21·7	14·2	17·2	23·2	22·7	22·5	20·9	21·9	21·9	25·2	27·7	30·2	30·9	31·7	30;9	20·7	24·2	27·7	24·7	23·5	20·9	22·2	24·7	23·9
Mean	24·1	24·2	23·6	23·6	23·6	23·9	23·4	23·0	23·2	25·2	28·3	31·3	33·1	32·9	31·9	30·3	27·8	27·0	25·8	25·1	24·4	23·4	24·2	24·0	26·1
Mean*	24·4	24·8	24·8	24·3	23·7	23·5	23·2	21·9	21·8	23·6	26·6	29·7	31·3	31·9	30·5	28·9	27·4	26·7	26·2	26·2	25·4	25·0	24·1	22·9	25·8
Mean**	22·7	21·0	21·9	23·3	22·7	25·0	26·8	27·3	26·7	27·5	29·7	32·2	33·5	32·8	32·1	31·1	28·1	26·7	24·2	23·2	25·2	21·3	23·0	21·9	26·2
October.										14°+Tabular Quantities.															Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	26·2	19·2	24·5	23·4	21·7	23·7	23·2	22·2	23·2	23·7	26·2	28·2	30·7	31·9	31·5	29·7	27·7	26·2	25·7	20·7	16·2	21·2	24·2	24·7	24·8
2**	24·2	21·7	22·7	25·2	28·2	26·2	24·5	20·7	20·2	21·9	24·2	28·2	30·7	32·2	28·7	28·2	27·2	21·2	26·2	25·7	20·7	24·2	24·7	25·7	25·1
3	25·2	24·5	23·2	24·4	27·7	27·2	22·7	22·2	22·2	22·7	24·7	28·2	30·2	32·5	32·5	30·7	27·7	19·7	23·2	25·7	21·2	23·7	21·2	21·2	25·2
4	24·7	26·7	22·4	24·5	25·2	26·2	22·7	22·7	22·2	22·7	23·7	26·7	31·2	33·7	32·7	29·2	26·7	26·2	25·2	21·7	20·7	23·7	25·2	22·7	25·4
5	22·7	23·7	23·7	24·2	25·2	24·2	22·7	21·7	20·7	20·7	23·7	27·2	30·2	33·7	33·5	32·2	29·2	28·7	27·7	21·7	16·7	15·7	20·7	26·2	24·9
6	24·7	26·2	22·7	23·7	26·7	25·2	23·7	20·7	20·5	20·9	24·2	27·7	30·5	30·9	30·7	29·7	28·2	27·2	26·7	22·2	20·7	21·9	22·7	25·7	25·2
7	24·2	26·7	26·7	23·2	23·7	24·7	24·2	23·2	21·7	22·2	24·7	28·7	29·7	30·7	31·7	28·7	23·7	23·7	25·7	25·2	19·7	20·7	23·7	24·7	25·1
8**	24·9	25·5	25·7	25·7	24·9	24·2	25·5	24·7	23·2	25·7	23·7	31·7	34·7	33·2	34·7	30·7	33·7	28·7	20·2	15·2	23·2	17·7	14·2	12·2	25·2
9	13·2	16·2	17·7	18·2	22·2	24·7	20·2	19·7	19·9	21·7	27·7	30·7	31·2	32·2	31·7	30·2	28·2	27·7	26·7	26·2	24·7	23·2	24·7	23·9	24·2
10	23·7	24·2	23·9	23·2	25·2	24·2	23·7	22·5	21·7	22·7	24·7	29·2	30·7	30·7	29·2	28·2	26·7	26·2	25·2	23·2	23·7	23·9	24·0	23·7	25·2
11*	24·2	24·7	25·7	24·2	24·2	24·2	23·4	22·0	21·2	22·2	26·7	28·7	30·7	30·7	29·7	28·7	27·7	27·2	26·7	26·2	25·2	22·7	24·7	24·7	25·6
12*	24·7	23·7	23·2	23·7	23·5	23·4	22·9	21·5	21·7	22·2	23·7	26·7	29·7	29·2	29·7	28·7	27·7	26·7	24·7	24·2	24·7	24·7	24·2	24·7	25·0
13*	23·2	23·7	23·7	24·2	24·2	24·2	23·7	21·7	20·2	20·7	22·7	26·9	29·7	29·7	29·7	28·2	27·2	26·7	25·5	24·9	25·7	25·2	24·7	24·2	25·0
14*	24·2	24·2	23·7	23·7	23·7	23·7	23·7	23·2	21·2	22·7	24·2	27·7	30·2	31·2	31·2	28·7	27·7	27·7	26·7	26·7	24·7	23·9	25·2	24·7	25·5
15	24·5	24·5	23·9	23·7	24·5	26·7	24·9	24·5	23·5	22·7	25·7	31·7	35·2	35·2	32·2	33·7	31·7	29·2	27·2	26·7	24·9	23·2	23·7	24·2	27·0
16**	24·5	23·7	25·7	23·7	30·7	33·7	32·2	29·2	26·7	31·7	35·7	33·7	34·5	30·7	35·7	29·7	29·7	27·7	25·7	18·7	22·7	25·7	24·5	25·7	28·5
17**	23·7	25·2	27·7	27·2	28·2	26·7	23·7	22·7	23·5	23·7	28·2	29·2	31·7	32·7	26·7	25·2	23·7	26·7	25·7	16·7	18·7	22·7	22·7	22·7	25·2
18	23·2	25·7	25·7	24·2	24·2	24·2	28·7	26·2	25·7	26·7	28·7	29·7	30·7	30·2	27·7	26·7	24·7	23·7	22·7	23·7	22·2	21·7	22·7	22·7	25·5
19	24·2	23·7	24·7	24·2	26·2	25·7	24·2	22·7	22·7	23·7	27·7	30·7	31·7	33·7	33·7	27·7	29·2	27·2	25·7	24·2	23·2	19·7	13·7	12·2	25·1
20	17·2	24·7	27·7	22·2	23·7	23·2	22·2	21·7	25·2	28·2	29·7	30·7	29·7	30·7	27·7	25·7	24·2	25·7	23·7	22·2	23·7	23·7	23·7	20·9	24·9
21	19·2	19·2	21·2	22·2	23·7	22·9	22·7	22·7	20·9	21·7	24·7	28·2	30·2	30·7	30·7	30·7	30·5	29·9	30·2	22·7	23·2	21·2	21·7	21·7	24·7
22	21·2	21·2	20·9	20·7	23·5	22·7	23·2	23·9	22·7	23·5	26·7	29·5	30·7	32·7	31·2	28·2	26·2	25·9	24·7	24·7	23·7	22·9	22·7	20·7	24·7
23	22·2	23·2	23·9	24·2	24·7	24·5	22·7	20·9	20·2	25·7	27·7	30·7	32·7	32·7	32·5	30·7	27·7	26·7	26·7	22·9	21·7	20·7	17·2	19·2	25·1
24	19·7	19·5	18·9	20·7	20·7	21·7	22·9	22·2	23·2	24·5	29·2	30·7	33·7	29·7	31·2	28·7	27·2	26·2	26·2	26·2	23·2	24·2	23·7	23·2	24·9
25	21·9	20·9	21·7	22·7	23·5	23·7	23·6	22·7	21·2	21·5	23·7	29·7	28·2	29·2	32·7	30·2	28·7	28·7	26·2	26·2	25·2	23·7	23·7	20·7	24·9
26	19·2	22·7	22·2	23·2	23·2	23·2	22·9	22·7	22·2	22·7	25·7	27·7	29·7	29·7	29·2	26·7	25·7	26·7	24·9	25·5	24·7	24·2	23·7	23·7	24·7
27*	23·7	22·9	23·7	23·9	23·7	23·7	23·7	22·5	21·7	21·7	24·2	27·2	28·7	29·2	28·2	26·7	25·7	25·0	24·9	25·2	24·5	23·9	23·5	22·7	24·6
28	23·2	24·2	23·5	23·5	23·7	23·7	23·7	22·9	21·9	22·5	24·2	29·7	33·7	30·7	32·7	31·2	21·2	27·2	27·2	24·7	24·7	24·2	23·2	23·7	25·5
29	24·7	22·2	23·7	23·7	23·7	23·2	23·2	22·2	21·7	22·2	24·2	27·7	28·2	29·2	28·7	27·7	26·9	25·7	25·2	24·2	23·9	21·2	18·7	19·7	24·2
30	23·0	23·7	24·7	24·2	23·2	22·7	23·2	21·9	21·7	22·2	24·7	28·2	29·7	28·7	28·2	27·2	25·7	25·2	25·2	24·9	24·7	23·9	21·9	17·7	24·4
31**	20·7	21·2	22·2	20·7	24·7	20·7	23·7	28·7	26·7	27·7	27·7	29·7	30·5	32·7	30·7	26·7	27·2	26·2	23·2	19·2	20·9	19·9	23·2	26·9	25·1
Mean	22·8	23·1	23·5	23·4	24·6	24·5	23·8	22·8	22·3	23·4	25·9	29·1	31·0	31·3	30·9	28·9	27·2	26·4	25·5	23·5	22·7	22·5	22·5	22·5	25·2
Mean*	24·0	23·8	23·6	23·9	23·9	23·8	23·4	22·0	21·2	21·9	24·3	27·4	29·8	30·0	29·7	28·2	27·2	26·7	25·7	25·4	25·0	24·1	24·5	24·2	25·2
Mean**	23·6	23·5	24·8	24·5	27·3	26·3	25·9	25·2	24·1	26·1	27·9	30·5	32·4	32·3	31·3	28·1	28·3	26·1	24·2	19·1	21·2	22·0	21·9	22·6	25·8

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION—*continued.*

November. 14°+Tabular Quantities. Mean.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	22·9	23·5	24·2	24·5	23·9	23·2	22·7	21·7	21·7	23·2	24·7	27·7	29·2	29·2	28·7	27·2	26·2	25·7	25·5	24·9	20·5	21·9	22·7	23·2	24·4	
2	24·7	23·7	24·5	25·5	25·1	23·7	22·9	22·2	22·2	23·7	24·7	27·7	28·7	28·2	28·7	27·7	23·2	24·9	24·7	24·2	23·7	23·2	22·7	22·7	24·8	
3	21·5	21·9	22·7	23·7	23·7	22·9	22·7	22·2	21·5	22·2	24·7	27·2	28·7	28·7	28·2	26·7	25·7	25·2	24·9	24·5	22·2	23·7	23·2	23·7	24·3	
4	23·7	23·5	23·7	23·7	23·9	23·5	23·2	22·7	21·7	21·9	24·7	27·2	28·5	28·2	27·7	26·7	26·2	25·7	25·2	24·7	24·2	20·7	20·9	19·5	24·2	
5*	22·9	23·9	23·7	23·3	23·5	23·2	23·2	22·7	21·2	21·7	24·7	28·2	29·2	28·7	27·9	26·7	25·9	25·7	25·5	24·9	24·5	23·7	22·7	22·7	24·6	
6*	23·5	23·7	23·7	23·4	23·7	23·7	23·5	22·7	22·2	22·7	25·2	27·7	28·7	28·2	27·7	26·7	26·2	25·7	25·2	24·7	24·2	23·7	23·7	23·7	24·8	
7*	23·7	23·9	24·0	24·2	23·9	23·7	23·7	23·5	22·7	23·5	26·2	28·7	29·2	28·2	27·7	26·7	26·5	25·9	25·5	24·9	24·2	23·7	23·5	23·2	25·0	
8	22·9	23·5	22·7	23·2	23·2	23·2	23·2	23·2	22·7	23·7	25·7	28·2	28·5	29·4	28·5	27·9	26·9	26·2	25·7	24·7	24·2	23·7	22·9	20·9	24·8	
9	20·7	22·2	22·7	23·7	23·7	23·9	23·5	23·7	23·9	23·2	24·7	26·7	28·7	28·2	27·5	27·5	26·9	26·7	25·2	24·7	23·7	22·4	20·5	21·2	24·4	
10	22·7	23·2	23·5	22·9	23·2	23·2	23·2	22·7	21·7	22·2	23·7	27·7	29·2	29·7	29·7	26·7	28·2	28·7	26·2	25·2	19·2	20·2	17·7	18·7	24·1	
11**	18·7	21·7	21·2	22·7	27·7	28·2	25·2	25·5	23·7	26·7	24·7	26·7	28·2	29·7	26·9	28·5	26·7	21·7	19·7	8·2	15·9	17·2	13·9	15·5	22·7	
12**	19·7	21·9	25·9	23·7	30·2	34·2	27·7	28·2	27·7	27·2	26·7	27·7	29·2	31·7	25·7	27·2	27·2	18·7	15·7	14·2	16·7	19·2	21·2	24·7	24·7	
13	26·2	23·7	23·2	25·9	27·9	23·9	26·1	27·9	28·7	25·7	26·7	28·7	27·7	26·2	26·7	26·2	15·2	17·7	16·7	21·7	21·7	19·7	21·9	21·7	24·1	
14	23·5	25·9	24·9	23·5	23·7	23·5	23·5	22·9	23·9	25·2	27·7	28·2	28·7	27·9	27·5	26·2	25·7	24·7	17·2	20·7	16·2	20·7	22·2	20·7	23·9	
15**	22·5	23·7	23·2	24·0	21·9	30·7	27·9	23·0	22·7	24·2	26·2	26·9	27·2	26·9	27·0	25·7	22·7	10·7	22·7	21·7	19·2	25·7	16·7	18·7	23·4	
16	20·2	23·7	23·2	25·2	24·7	23·9	24·5	24·2	23·2	25·2	25·7	28·2	28·7	28·7	28·2	22·7	24·2	19·7	21·2	21·7	19·7	19·2	19·9	21·5	23·6	
17	26·2	22·2	23·9	23·2	23·9	22·7	23·5	22·9	23·0	23·1	24·7	28·2	27·2	26·7	28·7	25·2	25·7	23·7	21·5	22·9	23·2	22·0	22·2	21·7	24·1	
18	21·9	22·9	23·1	23·5	22·7	22·7	23·1	24·7	24·9	25·3	25·7	27·7	28·2	28·7	27·7	27·7	26·9	26·0	23·7	21·7	21·2	22·2	22·2	23·5	24·5	
19	22·7	22·7	23·7	23·9	23·5	23·4	22·7	22·7	22·7	23·5	25·2	26·7	28·7	29·7	27·5	27·7	26·9	25·9	22·7	17·7	19·2	16·7	20·2	21·7	23·7	
20	23·0	23·9	24·7	23·5	23·7	23·2	21·9	21·7	20·9	22·5	23·7	26·5	28·2	28·7	28·7	28·2	27·2	26·2	25·2	24·2	23·2	22·9	22·7	22·5	24·5	
21	23·5	24·4	24·2	24·9	25·0	25·2	22·9	22·7	22·2	23·7	25·2	27·2	29·2	29·7	28·7	27·5	25·7	25·2	24·2	23·0	21·7	22·4	22·5	21·7	24·7	
22	22·5	23·5	23·9	24·2	24·7	23·9	23·7	23·5	23·2	22·9	24·2	24·9	26·7	27·9	27·7	26·7	26·7	25·9	25·5	25·2	24·2	24·5	18·7	16·2	24·2	
23**	17·7	17·7	14·2	18·2	21·7	19·5	24·7	24·7	26·9	28·7	26·7	33·7	31·7	33·2	31·7	31·7	32·7	27·7	24·7	23·7	19·7	19·9	22·2	22·2	24·8	
24	22·5	20·7	19·9	21·2	19·7	19·9	21·7	22·2	22·7	24·9	30·7	32·7	30·7	29·7	25·7	26·2	26·2	16·2	11·7	21·7	22·5	22·7	22·7	23·2		
25	22·2	23·2	23·2	23·7	21·7	22·2	22·2	22·2	22·2	23·5	24·7	25·7	25·7	25·7	25·7	25·7	25·9	22·7	25·7	24·5	23·2	22·5	22·9	23·7	23·8	
26*	23·2	22·7	22·9	23·7	22·2	21·9	21·9	22·7	22·9	23·2	24·2	25·2	27·2	26·2	25·5	25·5	24·7	24·7	24·7	24·2	23·7	23·2	22·2	20·5	23·7	
27*	19·7	22·2	21·7	23·5	20·5	21·4	22·2	22·7	22·9	22·7	23·7	25·9	26·5	26·5	25·7	24·9	24·2	23·7	23·7	23·4	22·9	22·7	22·7	22·5	23·3	
28	22·7	22·7	22·7	23·0	22·7	22·7	22·7	23·2	22·7	22·9	23·7	26·7	27·7	27·7	27·7	26·2	24·7	24·2	23·7	23·7	23·2	23·2	19·7	19·5	23·7	
29**	22·7	23·2	22·7	22·7	23·2	23·2	23·2	23·5	23·7	23·7	24·7	26·7	26·7	27·2	26·2	25·2	25·7	27·2	29·7	32·7	28·7	23·9	11·7	11·7	24·7	
30	11·7	21·7	26·2	22·7	22·7	22·7	22·9	22·7	22·2	24·2	25·2	25·9	27·2	27·2	27·7	28·2	27·2	28·7	28·2	23·2	19·2	17·7	20·5	21·4	23·4	
Mean	22·1	22·9	23·1	23·5	23·7	23·8	23·5	23·4	23·1	23·8	25·1	27·5	28·4	28·5	27·8	26·8	25·8	24·4	23·5	22·6	21·8	21·8	21·0	21·1	24·1	
Mean*	22·6	23·3	23·2	23·6	22·8	22·8	22·9	22·9	22·4	22·8	24·8	27·1	28·2	27·6	26·9	26·1	25·5	25·1	24·9	24·4	23·9	23·4	23·0	22·5	24·3	
Mean**	20·3	21·6	21·4	22·3	24·9	27·2	25·7	25·0	24·9	26·1	25·8	28·3	28·6	29·7	27·5	27·7	27·0	21·2	22·5	20·1	20·0	21·2	17·1	18·1	24·0	

December. 14°+Tabular Quantities. Mean.

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1**	22·9	21·5	23·7	23·2	24·7	24·7	23·7	23·9	22·9	22·1	24·3	25·7	29·7	26·2	29·7	27·9	16·2	23·7	16·2	11·2	9·7	3·7	12·7	15·7	21·1	
2	18·7	23·7	24·9	24·5	24·7	24·7	23·9	23·5	23·2	23·4	23·7	24·9	25·9	26·5	25·7	25·2	24·7	24·2	23·2	22·7	22·2	21·9	22·7	22·7	23·8	
3	23·2	23·2	23·2	23·2	24·7	23·7	23·9	24·5	24·9	26·7	26·7	30·2	30·7	30·2	28·9	29·9	27·7	24·5	24·2	23·7	18·7	13·7	20·2	12·2	24·4	
4	21·2	21·2	22·9	23·2	22·9	22·9	23·1	23·2	23·7	23·7	26·2	26·2	24·7	26·2	26·7	24·7	24·7	25·2	23·7	22·9	22·2	20·7	22·0	21·7	23·6	
5*	22·7	22·7	22·5	22·5	22·7	22·9	22·7	22·9	23·0	23·7	24·4	24·9	25·5	24·7	24·7	24·5	24·2	23·7	23·7	22·9	22·7	22·5	22·2	22·2	23·4	
6*	22·7	22·7	22·7	23·2	23·3	23·1	23·2	23·4	23·5	24·5	25·7	25·7	25·7	25·2	24·7	24·7	24·7	24·7	24·7	24·2	23·5	22·7	22·2	22·7	23·9	
7	22·7	22·7	22·2	22·7	23·7	22·7	22·2	22·2	23·7	25·7	25·9	25·9	25·7	25·9	26·7	26·2	26·2	27·2	28·2	16·7	13·2	19·2	16·2	15·7	22·9	
8**	11·7	13·7	11·5	15·2	18·2	24·2	27·7	27·7	25·7	28·7	30·2	30·7	33·2	38·7	31·2	26·2	25·7	22·2	20·2	21·2	19·2	15·7	8·7	18·7	22·8	
9**	20·7	21·2	26·7	25·7	23·7	25·2	24·7	25·7	26·2	24·7	26·2	28·2	28·7	29·2	24·2	24·7	21·2	21·7	18·2	13·7	15·7	18·2	18·2	22·7	23·1	
10	22·7	21·2	21·5	22·9	23·7	24·7	26·7	26·7	28·2	26·7	28·7	22·7	23·2	26·7	22·7	23·2	19·7	20·7	22·9	21·7	19·2	19·7	18·9	19·9	23·1	
11	22·7	22·7	21·2	21·5	23·2	23·5	24·7	25·1	23·7	23·9	23·7	23·7	25·7	26·2	25·2	18·7	21·5	23·7	21·7	10·7	18·2	18·7	16·7	18·9	21·9	
12	21·7	21·9	23·9	23·7	24·7	25·2	24·2	23·7	23·5	22·7	23·2	23·7	25·2	26·2	22·7	25·2	24·9	23·9	20·9	22·1	19·7	21·2	20·7	20·9	23·2	
13	20·7	22·7	23·7	22·9	23·5	25·9	23·7	24·2	23·9	23·3	22·9	26·2	28·2	26·5	25·9	24·9	22·7	16·7	24·5	23·2	13·2	17·7	20·5	20·7	22·9	
14	21·5	22·2	22·5	22·9	23·4	23·5	23·2	24·2	24·9	25·9	25·7	24·7	26·9	24·7	25·5	27·7	24·2	24·5	22·9	22·5	22·2	21·7	19·2	21·2	23·7	
15	21·9	21·9	23·3	22·9	22·2	22·2	22·9	23·7	23·9	24·7	25·3	25·9	26·7	25·7	26·5	24·9	24·5	23·7	23·2	22·7	22·7	22·7	22·2	22·7	23·7	
16	23·2	23·7	23·7	23·7	22·7	22·2	22·7	22·2	23·2	23·2	23·7	24·7	26·7	26·7	27·7	26·7	28·2	26·2	24·2	20·7	19·2	19·9	20·9	22·9	23·7	
17	23·7	23·7	23·5	23·9	21·2	22·7	22·7	22·7	24·7	24·2	25·7	25·7	26·2	25·2	25·2	23·7	23·7	23·2	19·2	21·9	21·5	22·2	21·5	23·9	23·4	
18	23·2	23·5	22·7	22·7	22·2	22·7	21·9	22·5	23·2	24·7	24·7	25·5	25·7	25·5	23·9	23·9	23·7	23·7	24·5	22·7	21·9	21·2	19·9	17·9	23·1	
19	18·9	16·9	18·2	16·2	18·5	20·5	22·5	22·9	24·7	25·2	27·7	28·2	28·2	31·7	28·7	24·9	25·7	26·5	25·5	27·7	20·7	18·9	20·7	21·5	23·4	
20	21·5	20·9	22·2	23·7	21·7	22·2	22·7	23·2	23·7	23·7	25·5	23·9	25·2	25·7	25·5	26·7	23·9	22·7	21·7	23·2	22·9	22·9	19·2	18·7	23·0	
21	19·9	22·5	22·7	22·2	22·7	22·7	24·7	22·7	24·2	23·9	25·7	26·2	23·7	25·2	24·7	26·2	26·2	26·5	17·7	20·5	22·7	22·9	21·7	21·7	23·3	
22	21·2	20·7	18·7	22·2	18·2	20·7	21·2	21·7	23·2	23·7	24·7	24·7	24·7	23·7	23·7	24·9	24·5	24·7	23·7	23·7	18·7	18·5	21·5	21·2	22·3	
23	21·5	21·7	17·7	21·7	19·5	20·5	23·7	22·9	23·9	25·2	25·2	25·7	24·5	24·7	24·9	25·9	23·9	22·7	23·0	21·1	21·7	16·7	18·7	19·4	22·3	
24	20·5	22·5	22·1	22·5	21·9	22·1	22·2	22·1	22·5	24·2	25·2	24·7	27·7	26·7	26·5	25·1	25·1	25·5	21·5	23·7	22·7	21·9	21·7	21·2	23·5	
25**	21·7	22·0	22·2	22·5	21·1	23·2	27·9	24·7	23·7	23·7	25·2	25·5	27·2	28·7	31·7	27·9	24·7	20·2	19·2	−0·8	9·2	7·7	17·2	24·2	21·7	
26**	25·9	24·2	21·7	21·7	21·7	21·7	24·7	23·2	23·7	24·7	26·5	25·7	27·2	24·2	26·2	25·2	23·2	16·7	16·7	20·2	10·7	7·2	14·7	18·7	21·5	
27	21·7	18·9	22·2	20·7	21·2	21·2	21·7	22·2	22·2	22·7	24·2	24·5	24·4	23·7	22·9	22·7	22·5	22·2	22·4	22·5	22·2	22·5	22·4	22·2	22·3	
28*	22·2	22·2	22·0	21·7	21·7	21·7	21·9	22·2	22·1	22·7	23·7	24·9	25·1	25·2	24·9	23·7	22·5	22·5	22·3	22·3	21·9	21·9	22·2	21·9	22·7	
29*	22·4	22·5	22·7	22·9	22·5	21·7	21·2	21·2	21·7	22·7	23·2	24·2	24·2	25·9	24·2	23·5	21·9	22·2	22·5	22·5	22·2	22·2	22·5	22·4	22·7	
30*	22·2	22·2	22·2	22·2	22·2	22·2	22·2	22·2	22·7	23·2	23·7	24·7	24·2	24·2	23·9	23·7	23·5	22·7	22·5	22·0	22·2	22·1	21·9	21·5	22·8	
31	21·7	22·7	22·9	23·2	22·9	22·9	22·7	22·7	22·7	23·5	23·7	24·7	26·2	28·2	26·9	25·7	26·2	23·7	23·7	19·0	20·0	21·7	21·5	21·7	23·4	
Mean	21·6	21·8	22·1	22·4	22·3	22·9	23·5	23·4	23·8	24·2	25·2	25·6	26·2	26·4	25·9	25·1	23·9	23·3	22·2	20·5	19·4	19·0	19·7	20·9	23·0	
Mean*	22·4	22·5	22·4	22·5	22·5	22·3	22·2	22·4	22·6	23·4	24·1	24·9	24·9	25·0	24·5	24·0	23·4	23·2	23·1	22·8	22·5	22·3	22·2	22·1	23·1	
Mean**	20·6	20·5	21·2	21·7	21·9	23·8	25·7	25·0	24·4	24·8	26·5	27·2	29·2	29·2	28·6	26·4	22·2	20·9	18·1	13·1	12·9	10·5	14·3	20·0	22·0	

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January.	17000 γ + Tabular Quantities.																								Mean.
1	896γ	897γ	901γ	902γ	903γ	900γ	901γ	901γ	899γ	893γ	882γ	874γ	874γ	880γ	883γ	887γ	889γ	893γ	902γ	903γ	903γ	897γ	894γ	896γ	894γ
2	897	904	903	902	899	906	908	905	902	895	889	887	884	889	889	887	883	885	887	897	902	901	899	899	896
3	899	898	898	898	903	902	905	904	910	905	902	892	874	880	880	880	888	880	876	892	900	895	905	902	895
4	898	899	922	905	915	900	899	904	908	906	899	889	886	884	881	886	889	891	891	896	895	893	896	901	897
5**	900	893	892	891	893	897	899	897	895	891	891	854	863	873	876	885	886	899	882	887	892	892	892	900	888
6	906	902	907	897	886	894	897	896	892	889	892	886	874	861	856	871	875	882	898	898	891	891	891	909	889
7	903	898	893	890	891	892	896	895	893	891	893	883	878	884	887	890	895	896	897	898	898	897	899	899	893
8*	896	899	899	899	900	902	904	904	902	896	889	882	875	880	887	894	899	902	901	899	904	899	899	899	896
9	899	896	897	901	904	906	910	912	910	910	905	893	887	889	895	895	903	905	905	907	905	900	898	910	902
10	915	900	903	905	907	912	915	915	905	905	903	893	888	877	880	875	880	886	910	904	896	896	900	900	899
11*	896	896	896	898	901	906	906	904	908	904	896	890	884	884	886	888	891	896	899	899	900	900	900	899	897
12**	900	901	903	904	907	909	911	913	909	910	907	887	854	854	854	856	878	878	887	887	890	894	892	907	891
13	886	882	879	880	880	888	888	888	888	888	882	884	877	875	848	864	877	888	890	891	898	901	890	890	883
14	899	906	903	890	888	886	891	893	891	889	887	875	871	870	868	876	883	891	894	883	883	889	889	897	887
15	891	891	893	897	897	899	899	899	897	897	891	885	882	879	875	871	881	884	884	872	883	893	890	888	888
16	890	890	900	890	888	898	900	898	896	890	884	879	877	877	879	888	890	892	893	895	897	898	897	901	891
17*	898	895	894	893	896	898	899	901	901	897	893	885	880	873	872	880	885	896	896	899	899	899	908	908	894
18*	897	896	895	895	897	902	902	902	897	886	876	867	869	875	879	881	885	890	892	894	894	894	894	894	890
19*	892	892	894	894	895	897	900	900	898	893	877	870	867	872	877	882	887	891	889	893	893	893	893	893	889
20	891	893	893	895	899	903	903	907	903	893	877	865	857	860	865	866	871	878	885	885	892	896	894	894	886
21	896	906	886	889	896	901	901	900	900	894	886	871	867	873	866	844	857	846	869	879	884	878	878	884	881
22	897	886	882	888	887	889	893	895	890	884	874	869	858	855	858	864	869	874	878	882	884	884	884	881	879
23	881	887	880	885	885	889	896	896	894	882	870	865	865	870	870	867	873	882	885	887	888	888	888	888	882
24	887	887	889	891	894	898	901	904	905	902	897	880	868	866	862	855	852	840	866	874	881	883	881	879	881
25	879	880	889	882	883	890	897	893	886	876	866	860	861	870	874	875	877	880	882	883	887	885	883	884	880
26	885	885	885	884	892	894	892	893	887	879	877	869	867	867	872	877	877	882	888	888	888	898	891	888	884
27	897	899	886	880	888	893	899	880	883	878	873	857	847	842	852	865	873	881	881	878	880	886	886	886	878
28	889	891	887	889	889	891	894	892	889	879	872	867	867	869	874	881	877	869	874	879	887	891	894	902	883
29**	894	894	892	898	900	902	908	911	908	911	904	895	888	885	875	857	854	847	841	847	844	847	875	868	881
30**	870	880	877	872	880	885	888	877	862	839	849	849	824	852	848	835	838	850	865	863	902	922	850	860	864
31**	855	891	855	852	874	881	881	879	871	863	857	862	860	831	842	855	865	852	800	846	841	870	882	874	860
Mean	893	894	893	891	894	897	899	899	896	891	885	876	870	871	871	873	878	881	883	887	890	892	891	893	887
Mean*	896	896	896	896	898	901	902	902	901	895	886	879	875	877	880	885	889	895	895	897	898	897	899	899	893
Mean**	884	892	884	883	891	895	897	895	889	883	882	869	858	859	859	858	864	865	855	866	874	885	878	882	877
February.	17000 γ + Tabular Quantities.																								Mean.
1	867γ	872γ	874γ	870γ	883γ	880γ	886γ	883γ	874γ	874γ	867γ	860γ	865γ	863γ	859γ	867γ	870γ	895γ	903γ	868γ	919γ	886γ	881γ	880γ	877γ
2	879	882	886	897	889	886	894	894	896	892	887	886	879	875	873	878	880	879	894	894	884	889	897	896	887
3	889	898	884	884	884	889	894	896	896	892	884	875	867	876	885	889	892	893	893	895	895	895	895	893	888
4	893	888	889	890	891	895	897	898	898	898	893	889	887	880	874	869	872	876	885	892	892	891	890	890	888
5**	894	889	886	888	889	896	901	925	915	906	901	875	860	867	863	863	857	865	884	886	888	893	889	886	886
6**	886	896	896	917	908	906	891	886	863	848	863	850	842	830	843	856	861	856	864	882	882	884	883	882	874
7	884	880	887	897	887	881	893	894	884	890	878	866	866	864	861	866	868	874	876	878	882	882	878	890	879
8*	885	883	883	883	888	888	890	891	888	883	877	874	869	865	867	867	872	879	882	888	888	888	888	888	881
9	900	888	886	886	888	893	890	898	896	890	877	874	880	876	878	884	887	891	894	889	878	865	871	883	885
10	878	885	878	878	880	883	889	885	886	882	878	871	873	872	883	884	873	870	873	884	889	925	914	892	884
11	881	890	872	879	877	879	885	890	881	872	871	869	862	864	872	874	876	875	884	881	871	864	864	859	875
12**	864	866	869	862	859	879	867	871	869	849	843	864	865	877	880	854	844	847	860	789	817	811	846	850	854
13**	860	860	844	834	870	860	860	844	829	839	844	850	860	870	873	855	855	850	852	847	834	837	839	839	850
14	851	851	866	900	887	881	866	856	840	825	832	830	830	833	842	851	861	866	871	866	854	853	863	869	857
15**	874	881	876	876	873	876	876	883	879	868	856	851	852	854	860	867	867	859	857	860	888	882	877	880	870
16	891	884	888	888	893	898	901	898	882	867	862	841	833	852	860	867	874	882	888	891	895	908	891	896	880
17	894	892	894	897	901	902	906	904	906	892	883	878	873	868	868	878	883	889	894	894	894	896	899	899	891
18	902	904	904	904	902	902	910	906	902	904	894	885	884	882	879	879	884	892	903	903	905	905	905	905	898
19*	910	910	913	913	913	915	913	907	905	897	886	879	877	879	878	880	886	892	895	900	903	905	905	905	899
20	906	906	906	910	912	913	916	913	906	894	890	885	885	885	890	890	896	885	885	885	887	896	923	890	898
21	889	892	896	903	920	930	903	906	901	886	862	868	873	876	878	884	886	888	892	895	897	899	897	897	892
22*	899	899	899	897	900	902	903	900	897	886	883	878	876	879	881	882	884	886	891	895	897	897	897	897	892
23	898	898	896	895	898	900	901	900	898	887	882	880	881	883	889	867	882	891	879	877	903	903	913	887	891
24	879	887	884	887	898	885	898	901	896	889	879	875	866	868	866	864	866	872	878	883	888	890	886	888	882
25*	888	886	886	888	888	890	890	893	888	883	878	873	873	873	873	876	880	886	890	896	899	899	899	899	886
26*	900	900	900	902	902	902	904	902	895	879	879	877	877	879	883	884	889	897	900	900	900	900	900	900	894
27	900	900	900	900	902	908	910	910	908	905	897	889	880	882	884	888	888	892	885	875	878	878	906	896	894
28	901	896	899	890	887	890	899	899	911	906	896	885	865	849	849	860	870	882	888	885	865	875	885	888	884
Mean	887	888	887	889	892	893	895	894	889	882	876	871	868	869	871	872	875	879	884	881	885	886	889	887	883
Mean*	896	896	896	897	898	899	900	899	895	886	881	876	874	875	876	878	882	888	892	896	897	898	898	898	890
Mean**	876	878	874	875	880	883	879	882	871	862	861	858	856	860	864	859	857	855	863	853	862	861	867	867	867

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE—*continued.*

March. 17000γ + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	894γ	892γ	887γ	890γ	897γ	894γ	894γ	892γ	894γ	887γ	882γ	882γ	882γ	882γ	882γ	887γ	890γ	894γ	897γ	902γ	910γ	916γ	915γ	916γ	894γ	
2	911	904	897	900	902	911	911	902	900	887	882	887	892	897	902	902	900	890	902	907	916	902	902	902	900	
3	908	894	902	913	913	911	904	908	892	880	861	853	866	866	859	870	862	859	888	903	903	898	888	888	887	
4	885	885	885	893	895	897	901	900	891	881	872	875	878	883	889	893	893	895	898	898	898	898	898	903	891	
5*	901	900	898	901	903	905	906	903	893	887	876	870	870	878	890	900	899	899	901	903	914	909	919	914	897	
6*	909	909	909	909	910	910	910	906	913	902	894	879	876	884	889	894	899	904	906	910	910	907	908	911	902	
7	910	906	906	906	907	913	915	911	906	897	889	889	889	890	892	894	896	899	906	906	904	928	915	887	903	
8**	873	899	848	792	879	837	837	834	827	822	822	812	820	822	830	843	834	843	869	864	864	864	874	869	845	
9	869	869	866	866	869	874	880	878	874	872	859	854	856	859	866	874	883	883	883	883	885	885	885	881	873	
10	883	885	887	885	885	887	887	885	881	874	871	871	878	883	880	872	868	856	864	883	887	895	910	900	882	
11**	890	880	874	885	885	891	893	890	890	886	881	878	884	886	889	875	891	872	878	878	865	870	881	891	883	
12**	886	894	886	875	879	883	894	875	870	857	829	845	847	853	847	870	886	870	870	886	888	875	884	886	872	
13	898	881	879	875	875	875	875	875	870	867	865	862	860	860	868	878	881	878	882	884	886	886	887	887	876	
14	887	889	890	891	891	890	892	887	882	872	874	874	874	874	879	879	871	871	885	889	894	897	890	892	884	
15**	894	905	902	895	907	909	912	902	905	897	871	866	861	887	851	864	882	895	915	894	889	898	887	893	891	
16*	897	915	917	915	909	901	892	887	879	874	866	858	859	849	865	859	857	877	877	867	883	893	886	886	882	
17	888	886	886	886	886	888	888	888	882	871	857	860	864	867	872	877	883	883	888	888	890	891	903	890	882	
18	890	891	893	895	898	903	903	903	891	875	847	841	847	857	867	880	883	886	888	888	890	890	890	888	883	
19*	892	893	891	891	892	896	899	891	878	868	858	858	853	856	863	877	884	887	894	896	897	897	899	897	884	
20	892	889	889	892	899	905	903	894	899	894	863	853	858	856	853	860	873	878	887	891	891	892	889	889	883	
21	889	894	894	892	894	899	904	907	897	881	868	858	855	848	851	866	864	869	876	883	898	892	900	888	882	
22	887	888	892	888	892	890	892	893	887	874	859	854	849	851	851	849	859	888	888	894	897	895	895	895	879	
23	900	898	898	910	882	882	893	892	884	869	854	849	851	859	864	872	879	876	888	910	874	885	890	890	881	
24*	890	887	885	887	888	888	895	891	875	863	860	858	854	855	862	870	878	883	889	891	891	891	891	891	880	
25*	893	891	891	893	895	896	896	893	884	872	860	852	858	865	875	883	886	891	897	899	895	891	891	893	885	
26	893	894	901	901	901	909	911	906	883	868	855	850	858	868	874	877	873	889	893	904	909	907	914	918	890	
27	904	904	902	902	902	902	900	897	879	861	859	848	853	861	861	869	879	888	882	894	923	910	897	902	887	
28	902	900	897	897	897	902	894	894	887	876	866	861	863	866	869	876	887	894	897	900	894	902	894	902	888	
29	890	902	896	896	925	921	904	890	879	871	857	854	859	865	882	893	895	891	898	898	898	898	898	908	890	
30	901	891	895	891	893	895	898	891	882	877	862	854	860	872	880	882	889	893	895	897	898	895	893	898	887	
31	898	895	895	895	903	906	905	897	880	872	867	862	852	854	862	877	882	886	888	898	896	895	893	893	885	
Mean	894	894	892	891	895	896	896	892	885	875	864	860	862	866	870	876	880	883	889	893	895	895	896	895	885	
Mean*	897	896	895	896	898	899	901	897	889	878	870	863	862	868	876	885	889	893	897	900	901	899	902	901	890	
Mean**	888	899	885	872	892	884	886	878	874	867	854	852	854	859	856	862	870	871	882	878	878	878	882	885	875	

April. 17000γ + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	894γ	894γ	894γ	896γ	896γ	896γ	896γ	892γ	882γ	872γ	858γ	855γ	866γ	874γ	882γ	889γ	891γ	900γ	905γ	912γ	905γ	905γ	908γ	897γ	890γ	
2	905	910	892	896	903	894	905	905	896	889	874	855	853	863	867	874	879	889	896	903	905	902	900	900	890	
3	897	898	897	897	902	905	903	900	889	874	858	848	848	863	872	876	884	892	900	905	908	905	905	897	888	
4	895	906	906	895	906	895	901	893	864	864	859	854	849	849	849	859	877	895	898	895	893	895	904	893	883	
5**	885	870	900	887	895	905	875	875	870	855	834	828	828	834	854	864	873	880	921	885	875	870	875	885	872	
6**	875	875	870	890	862	867	863	856	854	808	823	834	828	859	859	834	829	849	859	880	880	881	876	886	859	
7	871	881	886	886	865	886	871	855	840	835	819	814	814	824	855	855	865	881	891	886	886	886	886	891	864	
8	881	876	876	876	886	886	888	886	876	860	855	850	847	850	860	876	886	881	901	886	881	881	876	881	875	
9	881	886	881	881	886	886	891	886	871	856	840	840	850	855	850	865	876	886	891	888	889	892	904	897	876	
10	887	885	885	885	883	884	887	892	877	864	858	854	851	853	856	864	864	884	890	895	897	918	916	923	881	
11**	913	895	892	895	897	887	882	879	885	872	851	848	833	820	841	856	856	856	851	848	892	872	851	866	868	
12	872	877	866	851	851	858	870	874	864	848	851	848	848	848	858	866	877	882	878	881	878	883	880	876	866	
13*	873	875	876	876	878	878	878	875	857	839	831	831	837	849	859	867	873	881	883	888	888	883	883	880	868	
14*	881	882	883	883	883	888	885	886	878	860	852	849	852	857	867	878	883	888	890	890	890	889	888	888	878	
15*	890	893	898	891	893	893	893	890	881	862	852	852	859	859	871	883	886	897	894	891	897	897	894	891	884	
16	891	892	892	891	894	899	899	897	894	884	868	866	868	868	874	884	889	889	899	899	899	889	889	889	887	
17	889	889	891	892	894	896	894	889	884	877	868	858	860	876	887	894	899	902	891	899	905	899	894	891	888	
18	899	894	899	894	897	894	897	896	887	874	870	862	863	875	871	869	885	892	893	906	906	921	913	911	890	
19**	892	892	888	890	892	905	898	882	888	872	854	823	816	828	854	872	872	888	890	885	890	885	890	895	877	
20*	883	880	880	880	885	888	892	890	885	872	861	859	859	862	869	880	885	890	895	898	897	900	903	892	883	
21	894	895	895	895	896	898	902	906	909	900	888	872	867	869	881	891	899	912	912	912	927	907	895	899	897	
22	901	898	891	891	894	891	889	886	888	878	873	865	867	878	887	891	891	899	893	899	896	901	912	891	890	
23	901	914	891	907	912	912	910	896	868	854	858	858	860	865	870	873	883	887	896	901	889	886	886	889	886	
24*	886	886	886	886	886	886	886	879	862	860	855	855	866	866	871	882	887	894	892	897	902	904	902	902	882	
25	908	918	918	913	904	900	897	892	890	880	876	874	874	884	890	897	897	908	913	910	897	880	871	882	895	
26**	913	902	908	882	882	863	871	866	846	830	828	825	828	830	835	846	856	866	877	892	897	882	882	882	866	
27	882	880	874	882	887	884	884	882	875	863	861	854	849	850	862	857	870	883	891	893	897	889	891	890	876	
28	890	891	893	893	893	893	895	903	901	888	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	—	—	—	—	850	854	862	870	878	885	890	893	891	906	903	905	—	
30	909	909	905	893	893	896	867	875	869	856	837	832	830	850	858	858	879	924	899	892	904	873	884	904	879	
Mean	891	891	891	889	889	890	889	885	877	864	854	849	849	856	865	871	879	888	892	893	895	892	892	892	880	
Mean*	883	883	885	883	885	887	887	884	873	859	850	849	855	859	867	878	883	890	891	893	895	895	894	891	879	
Mean**	896	887	892	889	886	885	878	882	869	847	838	832	827	834	849	854	859	868	880	878	887	878	875	883	868	

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
May.													17000γ+Tabular Quantities.													Mean.
1**	922γ	912γ	901γ	922γ	905γ	891γ	878γ	886γ	881γ	871γ	867γ	855γ	863γ	871γ	878γ	886γ	896γ	909γ	915γ	907γ	901γ	912γ	896γ	896γ	893γ	
2	896	898	888	896	898	901	900	888	888	881	871	858	862	871	884	888	898	905	909	907	896	901	901	902	891	
3	907	901	901	907	900	902	907	906	899	887	872	866	869	882	889	885	885	902	902	908	906	906	905	901	896	
4	902	899	897	908	906	897	897	892	892	882	866	851	839	846	851	861	882	892	897	897	897	897	897	897	885	
5	897	897	908	910	913	902	882	867	867	872	862	846	849	858	872	892	899	902	923	897	897	897	902	897	888	
6	895	892	892	889	887	898	893	888	883	878	873	873	878	867	869	883	888	893	896	898	895	898	898	898	888	
7*	896	895	898	898	900	901	893	878	873	869	862	860	865	876	892	895	901	903	903	901	906	907	909	900	891	
8*	898	898	898	898	900	901	896	888	878	862	852	857	862	869	883	898	898	903	901	903	903	903	903	903	890	
9*	911	922	909	898	912	917	910	899	889	877	868	868	870	874	879	884	897	904	908	910	901	902	907	903	897	
10	901	899	899	899	904	910	910	904	901	885	868	866	866	873	884	894	897	901	908	904	901	902	904	910	895	
11	904	901	901	902	901	904	889	889	879	887	883	879	887	885	883	899	894	897	901	910	920	901	901	904	896	
12	910	889	889	891	899	901	897	891	866	862	850	856	858	873	881	884	897	901	910	910	904	904	910	904	889	
13	905	895	900	902	913	911	913	902	895	882	859	859	859	869	882	888	890	905	900	900	900	900	900	900	893	
14	902	909	909	909	909	909	902	885	880	859	854	854	849	854	869	884	900	904	911	906	911	913	896	911	891	
15	905	901	893	896	896	894	881	870	862	870	868	860	865	865	870	884	924	927	920	906	901	912	896	896	890	
16**	903	891	886	886	889	886	881	876	870	876	870	876	876	876	891	889	903	922	945	920	896	850	829	839	884	
17**	829	819	850	819	817	824	819	803	793	809	814	809	822	834	826	865	860	865	883	917	896	872	879	892	842	
18**	871	861	861	846	861	861	863	866	849	837	848	838	836	853	849	882	873	892	894	889	882	902	892	864	865	
19**	877	882	861	861	861	861	859	853	851	840	846	856	859	861	890	897	890	882	911	906	884	882	882	880	875	
20	887	861	871	871	866	863	861	859	851	846	835	851	853	856	864	871	873	882	882	913	887	882	883	888	869	
21	874	883	883	862	860	852	852	847	841	841	841	847	857	860	862	864	868	878	883	888	890	888	901	893	867	
22	893	888	875	869	870	874	868	852	852	860	864	852	855	862	862	862	867	878	883	888	888	893	903	898	873	
23	888	870	874	880	874	872	862	867	859	852	852	850	852	852	860	866	872	878	883	883	884	884	886	884	870	
24	886	884	886	884	882	882	875	873	871	868	868	868	865	873	876	884	889	894	894	894	904	904	899	899	883	
25	894	889	891	892	894	892	889	884	873	863	865	875	876	878	889	886	894	889	894	894	889	889	889	889	886	
26*	884	884	884	886	889	889	884	879	875	876	882	871	863	863	873	879	889	889	889	893	893	890	890	890	883	
27*	890	890	890	890	895	893	890	885	874	866	872	874	876	874	869	874	883	890	897	900	895	895	895	895	885	
28	895	890	892	893	900	898	895	892	885	877	869	869	866	864	867	874	883	890	900	905	905	903	903	903	888	
29	900	897	903	905	910	912	905	905	902	895	885	874	880	890	895	882	885	895	911	904	886	881	886	886	895	
30	894	894	880	875	881	880	880	871	857	855	853	850	855	873	883	873	883	888	886	901	896	893	889	886	878	
31	884	886	888	886	886	891	890	881	877	865	865	863	861	855	860	865	870	894	901	901	896	891	886	886	880	
Mean	894	890	889	888	890	889	885	878	871	866	861	859	861	866	874	881	888	895	901	902	897	895	894	893	884	
Mean*	896	898	896	894	899	900	895	886	878	870	867	866	867	871	879	886	894	898	900	901	900	899	901	898	889	
Mean**	880	873	872	867	867	865	860	857	849	847	849	847	851	859	867	884	884	894	910	908	892	884	876	874	872	
June.													17000γ+Tabular Quantities.													Mean.
1	891γ	886γ	884γ	886γ	897γ	902γ	897γ	891γ	886γ	868γ	850γ	857γ	860γ	871γ	874γ	878γ	887γ	891γ	890γ	898γ	893γ	894γ	892γ	892γ	884γ	
2*	892	892	889	895	898	903	903	900	898	882	877	867	858	867	877	880	889	898	892	898	892	892	895	892	888	
3*	892	889	890	892	895	903	900	903	895	877	861	858	861	867	877	889	896	891	901	901	903	901	901	901	889	
4*	901	903	903	903	905	905	901	896	893	886	879	883	886	891	899	904	898	901	906	909	912	912	906	901	899	
5	901	901	899	893	903	906	901	901	896	889	881	881	870	882	882	892	904	910	910	910	917	918	918	913	899	
6	910	910	904	909	913	916	913	907	902	884	871	863	876	871	887	884	894	902	902	913	913	910	913	915	899	
7	915	897	902	904	913	913	907	902	897	887	872	862	867	883	891	898	905	911	908	908	910	908	906	908	899	
8	903	908	905	906	916	919	908	896	883	872	867	850	864	864	890	896	903	911	916	914	914	914	911	908	897	
9**	903	905	905	908	911	914	911	904	897	889	875	875	873	884	894	906	923	937	925	920	909	909	909	950	906	
10**	935	894	927	935	927	904	894	866	809	796	793	801	—	848	855	853	848	858	858	868	870	878	875	871	864	
11**	863	863	853	863	885	883	869	859	854	843	828	843	843	859	864	854	859	869	880	900	895	900	900	900	868	
12**	895	869	895	895	849	869	864	859	843	849	864	890	890	900	895	885	890	885	895	895	892	877	876	900	880	
13	900	901	891	875	875	877	873	865	857	853	853	863	870	870	879	888	891	901	906	906	896	896	894	888	882	
14	894	896	906	891	894	891	869	867	863	844	844	831	847	875	870	868	873	884	894	892	894	890	889	902	878	
15**	892	892	897	895	895	887	893	876	866	876	866	845	856	861	876	887	912	912	918	943	902	897	897	902	889	
16	887	905	887	866	881	899	892	869	853	856	853	852	866	861	892	897	887	912	912	916	910	908	906	919	887	
17	916	903	896	888	888	879	879	877	877	877	872	865	869	879	877	898	898	908	916	929	908	903	900	893	891	
18	888	888	888	888	896	892	886	869	857	869	877	877	875	880	890	896	897	905	909	917	911	907	914	904	891	
19	909	899	894	896	901	902	892	882	874	870	868	871	872	875	881	889	895	906	904	901	899	897	899	897	891	
20	899	899	901	897	899	899	897	891	878	871	871	872	870	874	879	890	898	905	910	910	907	912	910	918	894	
21	907	890	893	895	905	910	905	898	888	871	869	874	874	890	884	884	890	910	914	908	902	906	912	910	895	
22	905	905	902	908	905	906	904	890	874	864	875	875	875	875	880	889	901	903	906	901	901	901	901	901	902	
23	903	903	901	901	907	906	896	889	880	870	865	868	868	880	891	899	901	897	901	901	903	901	901	901	893	
24	903	907	911	911	919	908	907	892	881	876	876	874	881	878	892	895	892	902	902	910	906	904	905	907	897	
25	904	905	904	910	914	912	902	892	884	884	881	883	886	889	905	904	908	917	919	917	915	915	919	919	904	
26	917	917	917	917	916	913	913	908	895	887	882	877	877	887	893	901	907	907	924	919	903	908	896	900	902	
27	896	893	900	903	905	901	887	877	867	862	857	860	869	877	891	903	911	915	915	913	913	908	908	903	893	
28	905	908	904	906	908	909	904	899	892	880	876	868	868	878	886	896	901	904	904	907	907	909	911	909	897	
29*	906	906	902	904	907	908	904	896	886	881	873	873	873	875	885	894	902	906	914	914	909	909	910	907	899	
30*	907	905	905	903	905	905	903	895	893	882	866	862	862	862	—	—	—	—	—	911	910	903	900	902	894	
Mean	901	898	899	898	901	901	896	887	877	870	865	864	869	875	884	889	892	902	905	908	904	903	902	904	891	
Mean*	900	899	898	899	902	905	902	898	893	882	871	869	868	872	885	892	896	899	905	907	905	903	902	901	894	
Mean**	898	885	895	899	893	891	886	873	854	851	845	851	866	870	877	877	886	892	895	905	893	892	891	905	881	

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE—*continued*.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
July.	17000 γ+Tabular Quantities.																									Mean.
1	900γ	898γ	902γ	904γ	910γ	909γ	902γ	887γ	880γ	877γ	870γ	864γ	846γ	862γ	868γ	922γ	922γ	880γ	906γ	902γ	899γ	907γ	907γ	905γ	893γ	
2	907	903	905	907	911	909	902	895	886	880	880	878	873	876	876	889	889	897	911	905	909	907	886	876	894	
3	886	886	894	901	898	898	887	879	879	872	856	856	854	868	877	897	920	910	910	913	908	900	898	898	889	
4	898	903	908	898	900	898	880	879	882	881	878	878	876	865	878	890	883	893	909	911	909	904	907	907	892	
5	901	899	899	899	901	907	897	885	878	881	878	876	879	869	888	896	897	894	908	910	902	900	903	902	893	
6	900	900	898	900	900	897	891	885	879	876	879	870	868	872	877	891	884	904	902	910	908	902	900	901	891	
7*	901	901	901	901	901	899	890	882	871	861	865	859	867	875	887	893	893	901	911	911	916	923	925	930	894	
8**	913	909	909	913	903	903	902	899	886	876	876	876	868	876	868	881	902	917	924	912	896	894	898	899	896	
9	907	896	893	896	899	881	879	870	865	858	855	841	865	866	877	886	903	905	915	913	934	908	894	900	888	
10	900	894	892	894	892	890	892	882	871	866	863	871	880	884	892	892	894	903	913	923	921	912	899	894	892	
11**	888	872	888	895	883	885	885	883	870	853	846	853	853	867	881	888	888	891	908	912	912	893	888	901	883	
12	898	897	889	889	882	886	882	870	863	855	858	865	871	882	889	889	896	913	898	905	915	915	905	900	888	
13	894	910	905	899	901	894	887	873	865	863	862	856	868	864	895	916	918	906	914	913	906	900	900	909	892	
14	916	900	898	906	908	906	895	887	885	880	874	867	866	864	874	880	890	901	933	898	907	927	920	904	892	
15	896	901	901	909	904	894	886	869	849	855	857	857	863	857	867	877	891	894	899	901	896	898	896	896	884	
16	889	889	893	892	889	897	894	882	866	854	856	861	858	866	885	889	900	908	913	908	895	897	894	897	886	
17	889	887	889	890	895	897	887	876	865	857	857	864	877	875	879	888	893	898	901	898	903	906	909	914	887	
18	903	905	914	919	912	903	896	879	867	865	851	848	857	862	869	884	889	894	894	899	897	894	891	889	887	
19*	889	889	889	891	899	899	889	880	873	871	868	861	860	866	873	887	891	897	899	897	897	891	892	890	881	
20*	890	890	895	895	895	893	881	877	874	869	864	859	859	869	879	895	900	900	900	900	900	898	898	900	887	
21*	900	902	902	900	896	893	886	886	882	880	874	874	878	880	882	898	896	894	894	893	896	897	901	901	891	
22*	901	901	901	901	903	901	896	888	875	863	868	880	890	890	892	902	899	894	899	902	902	902	899	899	894	
23	896	892	892	897	902	913	907	892	876	871	871	866	871	861	875	879	892	902	904	907	908	910	896	898	891	
24	901	900	898	900	903	896	884	882	882	879	875	877	869	875	880	893	895	900	903	914	900	896	896	900	892	
25**	901	901	904	912	925	919	915	896	889	885	883	873	873	873	892	902	898	894	909	894	894	894	878	878	895	
26	878	881	883	883	894	904	899	894	875	864	843	843	843	843	851	864	886	895	905	895	893	886	879	872	877	
27	869	876	879	895	895	893	882	874	862	845	832	841	848	855	862	874	885	880	894	887	896	894	894	898	875	
28**	891	891	896	901	898	885	873	877	875	854	821	802	839	844	849	870	904	917	925	900	880	917	883	857	877	
29**	860	876	874	876	883	891	876	—	—	—	840	834	840	847	864	876	890	904	902	895	878	871	876	879	873	
30	884	876	884	884	882	883	851	851	872	856	835	832	835	849	846	856	874	885	887	887	887	887	891	896	870	
31	889	885	887	880	871	880	879	877	864	846	848	848	851	857	857	880	883	888	894	899	899	888	888	897	877	
Mean	895	894	896	898	898	897	889	881	874	866	861	859	862	866	875	888	895	899	903	904	902	901	896	896	887	
Mean*	896	897	898	898	899	897	888	883	875	869	868	867	871	876	883	895	896	897	901	901	902	902	903	904	890	
Mean**	891	890	894	899	898	897	890	889	880	869	853	848	854	862	871	883	896	905	914	903	892	894	885	883	885	
August.	17000 γ+Tabular Quantities.																									Mean.
1*	902γ	885γ	888γ	890γ	890γ	885γ	877γ	871γ	864γ	854γ	854γ	857γ	859γ	857γ	869γ	882γ	890γ	895γ	887γ	892γ	896γ	896γ	893γ	896γ	880γ	
2	899	899	895	894	898	901	880	858	875	872	870	872	872	870	867	873	898	888	897	898	894	883	878	880	884	
3	873	877	886	871	885	878	869	863	856	842	827	819	852	864	869	868	876	892	890	892	892	892	886	884	871	
4	889	885	884	884	884	881	871	867	864	861	859	867	874	872	882	882	888	888	903	898	914	893	882	898	882	
5	903	893	888	891	885	879	872	872	867	870	867	862	853	851	872	882	893	883	907	899	889	889	878	883	880	
6	881	878	880	894	886	883	880	881	863	842	863	858	850	832	852	881	892	894	908	897	896	901	888	875	873	
7	888	884	889	891	893	893	887	876	859	851	859	855	859	869	876	888	884	889	905	898	905	903	897	910	884	
8	900	905	884	879	884	884	855	841	839	839	823	830	836	844	870	891	901	896	906	906	896	906	919	901	876	
9	883	883	890	873	885	888	867	856	844	846	849	849	846	854	867	886	902	905	897	895	895	918	899	884	877	
10	886	895	886	881	889	884	878	874	868	864	864	861	862	871	874	878	890	886	897	905	915	912	898	887	884	
11	898	903	885	885	893	895	885	877	858	862	867	867	851	854	851	877	890	896	891	896	896	894	896	898	882	
12	896	895	891	881	887	883	863	880	874	859	834	834	855	866	873	880	894	888	894	892	894	894	892	894	879	
13	892	896	899	896	892	888	888	884	876	870	872	878	879	869	871	879	892	903	905	898	900	905	908	889	889	
14	889	889	889	887	889	892	893	889	884	864	864	869	864	869	869	879	877	892	892	899	909	911	895	888	885	
15**	887	880	880	880	880	883	884	882	874	861	857	—	856	857	859	880	906	942	1015	924	901	875	861	873	887	
16**	867	857	842	840	840	860	862	862	831	769	767	777	821	829	845	850	848	852	866	874	871	862	866	871	843	
17	866	873	874	876	876	871	862	858	848	838	832	832	838	843	849	856	870	880	880	880	882	882	884	882	864	
18*	880	874	874	874	880	882	876	870	867	861	856	856	859	859	861	870	873	883	885	891	891	891	891	891	875	
19*	885	885	883	883	883	883	875	868	857	852	852	855	857	857	859	873	883	888	891	893	899	893	896	894	877	
20	897	897	894	894	894	894	886	882	870	861	855	851	851	848	840	863	874	882	889	889	889	891	889	882	877	
21*	876	866	865	869	876	882	881	866	849	833	835	844	849	856	859	866	877	883	887	893	890	890	890	885	869	
22	893	895	898	900	901	895	882	875	859	849	841	840	841	857	876	881	886	876	894	884	883	886	886	886	877	
23	884	886	881	878	886	883	884	871	850	845	829	845	850	857	863	871	871	871	886	888	890	890	892	895	873	
24	889	887	885	885	885	884	877	861	830	837	838	856	866	846	854	864	872	892	877	877	882	900	861	858	869	
25**	872	877	882	865	893	893	890	862	829	817	817	801	817	824	817	831	865	867	876	890	888	888	888	898	860	
26**	904	893	883	888	873	867	855	834	838	836	818	827	842	848	858	858	863	874	881	899	894	887	894	905	868	
27**	889	881	879	881	863	885	879	837	837	833	811	811	816	848	848	851	865	875	895	895	888	885	888	892	863	
28	898	882	882	880	878	885	882	875	859	846	838	833	828	831	843	859	866	880	888	888	888	888	890	888	870	
29	901	886	889	881	881	883	881	881	865	852	839	841	850	858	865	870	876	881	883	891	891	891	889	889	876	
30*	891	883	883	883	886	891	891	886	877	871	861	863	866	866	869	873	880	887	887	892	894	894	887	908	882	
31	900	887	887	890	892	892	890	884	875	863	866	877	887	882	883	898	888	885	927	898	888	888	893	893	888	
Mean	889	886	884	882	884	885	877	869	858	849	845	846	852	855	862	872	881	887	896	894	893	893	889	889	876	
Mean*	887	879	879	880	883	885	880	872	863	854	852	855	858	859	863	873	881	887	887	892	894	893	893	895	877	
Mean**	884	878	873	871	870	878	874	855	842	823	814	804	831	841	845	854	869	882	907	896	888	879	879	888	864	

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE—*continued.*

September. 17000γ+Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1**	896γ	911γ	892γ	892γ	883γ	878γ	865γ	857γ	837γ	844γ	847γ	852γ	873γ	868γ	842γ	878γ	875γ	892γ	885γ	894γ	889γ	884γ	893γ	903γ	876γ	
2	897	884	886	890	890	879	872	853	843	858	853	864	869	869	874	876	884	890	897	895	898	897	895	913	880	
3	910	890	893	890	886	879	879	866	862	853	855	869	872	876	879	879	886	888	895	895	897	901	897	910	884	
4	910	913	907	895	884	879	870	867	852	844	839	821	831	858	877	883	880	894	887	901	911	896	908	891	883	
5	911	901	885	885	880	880	873	865	854	842	849	854	859	867	859	875	887	889	916	906	894	891	887	891	879	
6	885	885	883	883	883	885	885	875	859	852	854	859	865	885	887	892	881	907	899	881	892	897	915	897	883	
7	876	878	881	886	879	881	878	871	855	850	857	850	860	868	868	874	892	895	888	881	881	886	886	895	876	
8	909	905	892	894	895	881	888	876	832	821	834	899	899	897	892	876	866	860	866	878	876	871	871	868	877	
9	869	867	856	856	872	882	885	889	898	908	908	861	872	882	885	887	889	900	903	900	906	908	902	887	886	
10	887	889	887	889	887	889	883	875	867	858	856	856	865	869	875	887	893	898	898	903	898	900	900	894	883	
11*	889	891	896	889	893	893	889	887	877	868	862	862	868	873	878	883	888	894	897	902	906	901	909	901	887	
12*	892	885	888	888	890	890	884	876	868	859	857	859	868	876	883	886	890	901	904	904	907	904	911	902	886	
13	904	901	899	911	904	897	890	888	873	866	855	855	857	855	859	859	868	883	897	895	898	897	895	895	883	
14	895	895	895	893	891	889	884	874	869	848	829	837	840	858	860	867	866	886	889	900	898	895	891	893	877	
15*	889	895	889	889	886	882	882	881	869	855	843	841	848	850	863	869	879	884	895	897	897	896	898	891	878	
16	895	884	915	906	885	885	885	880	875	859	854	859	872	875	878	885	880	859	870	882	888	878	872	880	879	
17	885	870	882	888	890	885	896	880	880	870	833	818	818	841	841	847	851	851	859	874	880	875	878	885	866	
18**	878	878	878	880	872	857	847	849	864	849	833	831	824	834	845	839	855	871	881	876	891	893	881	886	862	
19**	883	883	902	902	902	898	860	845	845	803	777	814	829	814	817	831	848	842	862	862	875	886	876	871	855	
20**	886	876	876	871	871	871	850	842	817	817	808	803	821	845	850	845	855	855	865	876	876	898	887	880	856	
21**	877	877	887	866	898	903	882	799	783	780	780	763	778	780	786	799	861	820	828	877	851	892	828	843	835	
22	851	846	846	843	870	870	856	849	835	822	809	811	818	832	846	856	849	859	851	851	882	861	861	869	848	
23	874	870	887	892	887	872	862	857	847	839	833	836	847	852	857	844	852	852	873	875	875	878	878	878	863	
24	881	883	878	878	880	886	875	860	852	836	810	816	823	839	854	852	841	850	867	871	883	878	883	878	861	
25*	875	876	873	873	873	876	873	864	852	841	831	829	831	833	833	851	855	866	874	876	876	877	879	879	861	
26*	879	879	879	882	884	886	884	865	863	858	853	845	846	845	853	861	871	868	879	886	889	889	886	884	871	
27	884	884	892	900	905	889	886	884	863	853	845	834	834	840	848	861	858	872	884	884	886	886	886	884	873	
28	887	887	897	893	889	890	887	880	869	852	854	857	880	835	859	866	862	875	880	885	890	895	895	901	878	
29	906	901	887	887	890	890	888	887	883	862	859	849	849	852	864	877	873	880	873	890	918	877	877	890	875	
30	895	901	911	887	869	875	877	875	859	857	858	855	852	850	852	865	898	902	881	891	907	917	894	902	880	
Mean	888	886	887	886	886	883	877	867	857	847	841	842	849	854	859	865	871	876	881	886	891	890	887	888	873	
Mean*	885	888	885	884	883	883	882	875	866	856	849	847	852	855	862	870	877	883	889	893	895	893	897	891	877	
Mean**	884	885	887	882	885	881	861	838	829	819	809	813	825	828	828	838	859	856	864	877	876	888	873	877	857	

October. 17000γ+Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	892γ	898γ	890γ	893γ	885γ	887γ	885γ	874γ	843γ	817γ	848γ	848γ	848γ	856γ	867γ	864γ	876γ	885γ	893γ	895γ	947γ	898γ	899γ	898γ	879γ	
2**	892	895	885	880	880	890	895	888	876	845	841	851	856	862	866	883	874	895	890	890	906	895	890	910	881	
3	899	888	888	880	869	890	900	890	866	852	856	852	854	859	864	866	866	880	885	880	902	888	890	891	873	
4	888	877	888	886	888	882	892	884	863	853	839	844	844	855	865	865	888	879	877	930	896	888	896	894	873	
5	886	886	886	881	886	891	894	886	875	870	860	855	860	870	870	865	875	881	877	886	904	917	886	891	881	
6	881	891	888	881	879	886	886	886	870	865	860	855	849	855	863	870	881	886	886	884	884	888	920	905	879	
7	892	878	885	895	887	889	892	892	885	882	861	856	856	866	864	861	871	882	885	889	902	899	890	887	881	
8**	892	892	895	897	902	902	897	887	878	856	856	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9	—	—	—	—	—	—	—	—	—	—	—	840	843	856	858	866	871	876	878	882	871	872	872	877	—	
10	883	875	875	875	873	877	877	867	857	846	841	836	841	846	855	862	867	872	877	879	883	879	877	879	867	
11*	875	875	875	877	877	877	877	869	860	851	846	846	848	855	859	865	872	877	879	886	877	893	883	883	870	
12*	883	883	883	879	886	886	886	883	879	860	855	851	851	857	865	864	867	872	879	883	884	884	889	884	874	
13*	887	884	880	884	887	887	899	884	880	870	858	852	849	856	863	873	878	884	891	889	889	889	889	889	878	
14*	889	889	889	889	889	894	896	892	885	873	862	856	858	860	860	868	880	891	897	897	897	899	899	899	884	
15	899	897	899	899	901	901	918	910	889	878	858	835	829	832	837	852	825	842	863	879	879	885	885	895	874	
16**	884	884	907	901	859	894	819	817	809	744	734	774	759	774	774	789	794	804	801	824	839	849	839	839	821	
17**	838	838	827	848	859	843	843	815	815	815	786	807	817	812	807	822	820	838	850	864	888	859	864	864	835	
18	864	859	853	853	862	866	864	866	851	830	815	815	830	827	831	848	864	853	851	854	875	891	865	868	852	
19	870	870	868	868	868	872	876	864	851	834	839	844	847	854	839	831	839	865	868	868	876	895	895	875	861	
20	858	847	853	865	865	870	870	860	828	797	787	813	823	820	818	815	842	851	862	875	868	868	868	886	846	
21	875	870	865	865	865	868	872	860	849	849	839	834	828	834	844	849	854	850	850	869	871	866	871	873	857	
22	881	879	876	881	869	871	875	855	850	835	819	809	821	827	827	840	850	859	866	873	871	871	879	894	857	
23	881	871	871	873	871	871	873	871	848	829	824	817	814	824	827	835	850	845	845	848	871	871	883	879	854	
24	881	883	876	881	883	881	879	869	867	849	829	827	829	832	850	855	867	872	880	879	862	862	874	874	864	
25	877	880	877	877	877	882	882	882	877	872	849	836	846	853	867	851	867	872	872	880	880	880	880	884	871	
26	880	874	874	874	874	874	874	874	872	864	856	846	851	856	867	872	882	877	877	882	888	888	888	882	873	
27*	884	882	882	882	884	882	882	877	872	862	853	851	853	856	862	871	873	881	881	883	883	889	885	883	875	
28	881	880	880	880	881	883	883	881	873	868	861	849	842	844	842	831	852	857	863	873	877	885	881	878	868	
29	878	873	868	873	873	873	875	873	868	857	842	837	842	845	850	854	863	873	878	868	875	904	894	873	867	
30	868	868	870	873	873	873	876	875	868	863	852	852	852	857	864	864	864	876	882	882	884	884	884	900	871	
31**	884	874	874	882	876	905	888	845	807	812	830	827	820	819	801	822	843	848	864	879	869	866	858	862	852	
Mean	880	878	878	879	878	882	881	872	861	846	839	837	839	844	848	853	860	867	872	878	883	880	882	883	866	
Mean*	884	883	882	882	885	885	886	881	877	863	855	851	852	857	862	868	874	881	885	888	886	891	889	888	876	
Mean**	875	873	873	878	869	883	861	841	827	804	798	815	813	817	812	829	833	846	851	864	875	867	863	869	847	

TABLE II.—HOURLY MEANS OF NORTH COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
November.													17000γ+Tabular Quantities.													Mean.
1	861γ	855γ	858γ	860γ	864γ	864γ	864γ	861γ	853γ	843γ	838γ	835γ	838γ	843γ	850γ	853γ	855γ	864γ	864γ	867γ	884γ	884γ	869γ	866γ	858γ	
2	864	864	864	864	872	874	874	872	847	843	834	841	843	838	844	850	852	870	873	875	875	875	875	880	861	
3	880	873	867	870	873	873	873	871	865	854	844	844	844	849	854	865	873	875	875	877	883	877	877	875	867	
4	880	877	877	877	880	885	885	880	873	861	855	850	857	868	874	878	884	886	886	886	886	876	884	874	876	
5*	871	871	874	878	878	879	881	876	874	866	857	855	855	857	866	869	871	876	878	879	881	884	886	881	873	
6*	881	878	876	876	879	881	886	885	877	872	867	864	867	872	875	871	875	882	882	885	887	885	885	885	878	
7*	885	887	887	889	889	889	889	885	877	867	861	864	864	861	867	882	887	887	887	887	889	887	887	887	882	
8	887	887	887	887	888	888	888	886	883	875	868	868	868	875	873	868	878	886	888	888	890	890	890	888	882	
9	888	886	888	888	890	896	899	897	893	888	883	870	876	878	886	888	885	886	890	893	891	890	890	888	888	
10	888	889	889	891	892	894	894	902	902	892	882	871	863	869	858	874	879	863	863	863	858	858	866	874	878	
11**	879	875	894	879	881	900	889	863	838	830	848	848	848	825	839	843	832	829	827	884	858	858	872	872	859	
12**	867	866	861	867	870	870	880	859	826	847	816	816	807	816	840	840	840	888	890	882	859	882	872	861	855	
13	861	859	870	859	856	880	873	838	833	854	854	849	830	847	851	859	880	870	864	860	865	883	883	862	860	
14	865	865	871	871	876	886	881	876	871	851	824	829	850	858	862	865	871	871	871	902	876	871	871	879	867	
15**	873	879	865	868	891	881	891	876	862	862	860	852	850	852	845	850	849	863	859	851	877	892	887	880	867	
16	874	866	875	879	875	879	880	861	863	851	842	851	838	835	840	861	856	877	877	872	877	918	877	872	866	
17	877	877	877	877	877	877	880	877	872	863	856	840	842	850	841	852	873	875	891	873	881	887	888	893	871	
18	890	883	886	878	881	890	883	878	875	867	860	860	856	850	854	860	867	870	873	880	888	885	885	883	874	
19	887	883	879	883	881	885	890	883	876	864	858	855	861	863	842	853	863	874	861	879	879	876	876	877	872	
20	874	874	879	887	889	894	894	894	894	868	858	858	863	874	876	882	892	894	894	896	896	894	894	894	884	
21	894	894	892	892	894	903	905	902	890	875	864	854	843	849	859	864	867	868	878	883	883	885	887	887	880	
22	887	885	890	890	895	900	895	898	890	875	864	856	864	875	880	883	890	887	895	897	893	893	890	887	886	
23**	889	887	893	879	888	881	881	881	844	815	801	798	801	801	809	811	815	839	846	853	855	847	845	855	846	
24	855	855	853	850	855	857	855	855	855	847	850	839	826	846	836	840	859	855	867	891	853	863	865	870	854	
25	867	870	868	862	863	864	864	868	866	856	854	856	860	864	864	870	870	874	868	874	879	871	874	874	867	
26*	873	877	874	871	877	879	884	880	877	871	864	861	864	868	871	866	874	877	879	881	881	879	878	883	875	
27*	878	869	870	872	880	883	881	880	878	869	859	862	862	865	867	872	878	878	883	883	883	883	886	880	875	
28	883	883	883	883	886	888	888	888	886	878	866	862	857	857	857	865	872	883	886	889	887	881	879	881	878	
29**	879	881	883	881	879	884	884	884	884	881	879	879	884	899	904	901	904	908	868	816	814	849	889	842	877	
30	827	821	835	842	849	858	856	849	847	840	837	837	847	853	853	842	854	861	840	846	871	859	861	863	848	
Mean	875	874	876	875	878	882	882	877	869	861	854	851	851	855	858	863	868	874	873	876	876	879	879	876	870	
Mean*	878	876	876	877	881	882	884	882	878	871	863	861	862	865	869	872	877	880	882	883	884	884	884	883	877	
Mean**	877	878	879	875	882	885	885	873	851	847	841	839	838	839	847	849	848	865	858	857	853	866	873	862	861	
December.													17000γ+Tabular Quantities.													Mean.
1**	872γ	872γ	862γ	870γ	870γ	868γ	872γ	872γ	862γ	857γ	862γ	860γ	837γ	851γ	837γ	820γ	860γ	813γ	816γ	830γ	841γ	849γ	839γ	844γ	852γ	
2	849	844	844	849	854	862	868	870	857	854	849	854	851	858	855	855	861	869	869	869	871	877	871	860		
3	871	871	871	869	868	871	881	855	842	827	819	807	821	838	835	823	809	829	861	855	855	871	845	852	848	
4	861	861	858	858	861	861	861	861	861	845	843	851	862	859	851	839	851	851	863	866	867	877	872	864	858	
5*	862	862	862	862	864	867	867	865	864	864	864	862	864	865	865	870	872	872	874	874	878	877	874	872	868	
6*	872	872	872	872	872	874	874	873	871	865	871	873	875	878	878	875	875	879	878	875	876	878	878	875	874	
7	875	875	875	875	881	883	887	878	875	886	892	885	873	871	870	863	860	857	873	894	837	831	831	843	870	
8**	833	842	842	847	861	864	848	827	843	832	817	803	781	791	801	812	812	786	817	827	834	843	895	838	829	
9**	838	848	833	874	843	845	851	845	827	812	810	812	820	796	822	834	830	832	843	864	869	843	848	864	838	
10	864	852	854	851	852	849	854	846	835	813	818	813	823	815	831	825	862	849	849	885	862	849	862	852	844	
11	856	865	862	854	859	857	854	856	852	861	857	854	854	852	849	865	849	844	854	878	852	849	871	866	857	
12	855	855	850	857	855	866	860	866	866	860	860	857	857	847	836	855	857	857	878	853	874	866	859	857	858	
13	855	857	855	871	871	871	866	868	869	868	863	855	845	840	855	845	845	850	853	851	882	858	851	885	860	
14	854	856	858	858	858	861	872	859	858	846	848	852	844	835	835	835	846	856	861	858	851	867	867	856	854	
15	856	853	859	860	871	877	872	867	861	867	872	861	851	841	844	848	854	857	862	868	868	868	865	865	861	
16	865	862	862	865	870	878	878	876	870	868	859	857	855	849	847	849	847	842	842	842	852	855	862	865	859	
17	868	868	870	883	878	878	883	878	865	855	855	868	868	869	863	863	860	869	887	879	877	871	869	877	871	
18	871	869	874	879	884	889	884	879	884	879	881	889	887	881	881	879	882	872	865	876	879	879	892	876	880	
19	874	863	869	881	889	900	900	892	869	848	851	849	828	833	826	854	861	838	849	857	861	861	875	861	862	
20	867	861	859	866	872	872	878	880	880	877	873	870	870	861	870	844	833	833	847	861	861	864	870	859	864	
21	859	859	861	864	870	864	860	876	871	860	871	871	873	871	876	871	868	862	886	871	873	874	873	874	869	
22	873	879	881	879	893	881	881	871	871	883	884	888	886	881	881	879	881	881	881	881	881	902	871	879	881	
23	865	871	871	866	866	882	872	876	874	866	863	853	866	872	875	866	859	866	863	866	872	894	901	890	871	
24	877	872	874	879	880	882	882	880	872	869	867	872	875	861	882	882	882	882	884	887	887	890	882	888	879	
25**	885	883	883	886	902	893	893	904	904	902	893	885	885	878	821	841	843	780	770	790	780	785	815	821	855	
26**	805	823	828	839	845	852	850	839	841	833	829	831	831	841	862	862	873	873	893	870	884	915	848	842	850	
27	855	861	853	861	861	863	858	853	855	851	848	848	848	853	855	858	861	863	865	866	868	865	865	868	858	
28*	868	869	874	874	874	874	874	868	863	858	855	853	855	859	861	863	868	870	872	875	875	870	872	875	867	
29*	871	872	872	871	875	875	875	875	866	859	854	854	852	851	856	854	861	866	869	869	869	872	875	872	866	
30*	875	875	877	878	880	880	883	877	875	872	869	875	877	877	876	876	881	884	886	886	884	884	878	878	878	
31	878	878	884	888	886	886	886	886	886	880	886	884	865	850	859	865	865	863	872	886	879	876	881	878	877	
Mean	862	863	863	867	870	872	872	868	864	859	858	856	854	852	853	854	857	853	861	865	864	866	867	865	862	
Mean*	870	870	871	871	873	874	875	872	868	864	863	863	865	866	867	868	871	874	876	876	876	876	875	874	871	
Mean**	847	854	850	863	864	864	863	857	855	847	842	838	831	831	829	834	844	817	828	836	842	847	849	842	845	

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE.

January. 43000 γ + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	285γ	285γ	285γ	285γ	285γ	285γ	285γ	284γ	284γ	284γ	283γ	282γ	283γ	284γ	285γ	288γ	293γ	292γ	287γ	287γ	285γ	287γ	289γ	286γ	287γ	
2	285	284	283	284	285	284	284	283	283	283	280	279	278	281	284	288	290	289	288	289	288	287	286	285	285	
3	282	283	283	283	282	284	282	282	280	279	276	278	283	283	288	294	294	294	296	295	293	291	290	288	286	
4	288	286	285	278	278	281	279	280	281	282	283	283	283	283	285	291	293	293	291	293	291	291	293	293	286	
5**	285	285	285	284	284	284	282	282	281	283	274	275	280	282	285	292	292	295	298	294	292	292	292	290	286	
6	288	284	280	280	281	282	282	282	280	276	274	273	276	281	296	297	297	297	291	291	291	289	289	285	285	
7	279	279	280	280	281	281	281	281	281	277	273	274	276	279	283	289	289	289	286	285	284	287	285	285	282	
8*	285	282	281	280	282	284	280	278	280	282	280	280	280	282	284	286	288	287	283	285	285	285	282	282	283	
9	282	281	281	281	283	282	281	279	279	277	271	274	273	274	279	286	287	285	284	283	284	282	283	282	281	
10	279	279	277	277	277	279	277	277	274	274	271	271	274	279	286	288	288	288	288	283	282	284	283	280	280	
11*	278	276	276	276	278	278	276	273	276	278	—	—	—	290	288	288	288	286	280	280	278	278	278	278	280	
12**	277	277	277	277	277	277	275	270	270	272	272	275	279	285	297	303	295	291	287	287	287	287	287	287	282	
13	287	285	281	282	281	279	279	277	275	269	268	268	271	281	286	291	288	286	286	284	286	281	278	278	280	
14	276	268	268	268	271	276	276	276	276	276	267	267	274	278	284	288	292	302	294	290	292	290	289	287	280	
15	285	283	283	280	282	277	277	273	270	267	267	267	267	275	270	285	293	287	283	285	285	285	285	285	279	
16	282	278	277	277	278	278	275	273	—	—	—	275	273	275	283	285	285	285	283	283	280	282	283	280	279	
17*	275	277	280	278	279	281	277	278	285	285	275	270	273	275	280	285	287	285	283	277	280	280	280	277	279	
18*	273	272	273	274	274	274	274	274	276	274	264	266	272	272	274	276	279	282	276	278	276	278	274	272	274	
19*	271	268	269	271	271	271	271	268	274	274	266	268	271	271	274	276	274	271	274	274	274	274	272	271	272	
20	274	274	273	271	273	271	273	271	269	269	266	263	265	271	273	274	279	281	278	279	279	275	276	273	273	
21	271	263	266	269	269	271	277	268	269	269	265	262	262	268	270	278	285	285	285	284	280	278	278	274	273	
22	268	268	268	262	260	264	265	268	268	262	258	260	268	270	272	272	275	275	273	272	272	272	272	270	268	
23	268	266	266	262	266	266	265	263	265	266	263	262	261	265	268	270	273	275	268	268	270	268	268	268	267	
24	268	268	266	265	265	264	264	262	260	260	260	262	262	268	272	277	281	282	281	278	276	271	271	269	269	
25	267	265	259	260	262	259	259	260	260	259	257	259	262	262	264	267	270	269	267	265	267	267	267	265	265	
26	267	261	264	264	261	264	262	261	266	267	261	264	269	267	269	269	269	267	269	269	269	269	267	265	266	
27	256	254	256	256	256	256	256	256	254	254	256	257	259	264	266	267	272	271	266	267	267	264	264	262	261	
28	258	256	258	256	260	260	257	259	263	261	258	258	260	258	263	265	265	269	271	267	265	263	259	261	261	
29**	256	256	256	258	257	256	256	255	255	253	253	258	253	253	263	271	280	282	290	293	293	303	299	283	268	
30**	275	263	253	256	263	263	263	261	261	259	255	255	263	271	275	285	290	293	290	282	282	261	254	229	267	
31**	230	233	248	260	258	259	263	263	261	263	259	261	262	270	284	282	282	285	303	302	308	298	282	277	271	
Mean	274	272	272	272	273	273	273	272	272	271	267	268	270	274	278	282	284	285	284	282	282	281	279	276	276	
Mean*	276	275	276	276	277	278	276	274	278	279	271	271	274	278	280	282	283	282	279	279	279	279	277	276	278	
Mean**	265	263	264	267	268	268	268	266	266	266	263	265	267	272	281	287	290	289	294	292	292	288	283	273	275	

February. 43000 γ + Tabular Quantities.

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	272γ	268γ	260γ	256γ	260γ	262γ	263γ	265γ	265γ	262γ	260γ	262γ	262γ	265γ	270γ	278γ	280γ	281γ	280γ	278γ	280γ	260γ	262γ	268γ	267γ	
2	268	268	264	254	256	260	260	260	260	260	260	260	260	260	270	270	270	270	275	275	272	270	265	250	264	
3	258	260	260	260	265	265	262	260	260	260	260	258	258	260	265	269	269	269	268	269	268	269	269	263	264	
4	261	261	261	261	261	261	261	261	261	259	253	253	255	256	261	265	271	269	269	266	265	265	263	261	262	
5**	261	259	259	259	261	261	261	253	251	251	251	249	249	249	255	261	269	271	269	269	269	269	267	263	260	
6**	263	256	242	225	230	232	232	242	249	251	253	253	254	263	270	273	278	280	281	271	269	269	266	264	257	
7	264	262	260	252	254	260	257	257	257	262	262	264	267	267	270	270	270	270	268	266	264	265	264	262	263	
8*	262	260	260	260	262	262	260	262	264	264	262	262	260	262	264	264	264	267	267	262	264	262	262	262	263	
9	257	254	257	260	260	260	257	257	259	255	252	247	250	245	252	254	257	257	260	260	264	274	272	258	257	
10	258	258	263	261	261	258	257	253	255	253	253	248	251	253	261	265	272	272	272	277	277	263	251	251	260	
11	251	242	244	253	255	258	255	255	255	255	255	255	259	263	271	273	271	271	267	265	272	272	263	258	260	
12**	258	245	245	243	245	245	249	254	251	249	246	248	263	269	282	306	309	309	305	301	278	282	282	273	268	
13**	255	255	253	253	245	245	255	260	269	272	272	274	274	278	282	284	284	285	288	293	299	301	293	293	273	
14	283	276	264	250	250	245	243	247	250	250	256	264	267	266	277	283	281	280	279	277	283	283	281	278	267	
15**	274	262	264	266	268	270	269	269	266	262	255	255	260	262	266	274	284	291	293	298	285	284	279	274	272	
16	264	262	262	263	266	266	265	263	263	263	261	260	268	271	268	273	273	273	273	273	275	273	268	265	267	
17	260	262	265	263	263	262	262	258	258	258	252	251	255	255	260	268	270	270	270	272	272	275	270	265	263	
18	260	255	255	255	255	260	257	257	263	263	255	253	255	255	260	265	267	267	267	265	265	263	263	263	260	
19*	263	260	260	257	257	257	258	264	266	266	258	258	264	264	264	264	266	264	264	264	264	266	264	264	262	
20	264	261	261	258	262	260	261	261	264	264	258	256	256	256	256	258	264	268	271	271	274	268	264	261	262	
21	260	260	258	258	254	247	249	254	258	264	266	264	268	268	274	274	272	270	266	266	266	266	266	266	263	
22*	266	266	266	264	265	266	263	260	260	261	259	257	259	264	267	269	267	269	264	264	267	267	263	265	264	
23	267	267	267	267	267	267	267	271	275	272	265	263	265	265	267	280	275	273	277	280	275	275	273	270	270	
24	263	255	255	257	257	257	258	258	260	260	255	253	255	263	273	277	275	277	275	275	275	275	273	267	265	
25*	265	267	268	270	268	267	268	267	273	267	265	260	263	266	268	274	276	274	273	271	271	271	271	271	270	
26*	262	262	262	262	262	262	262	264	262	260	260	252	258	258	262	268	270	270	268	268	262	262	262	260	263	
27	262	262	262	262	262	262	260	260	260	258	252	252	252	254	258	260	262	268	268	272	280	280	260	260	262	
28	260	255	253	258	260	260	260	258	253	251	249	251	255	262	273	278	278	278	278	278	290	288	280	263	265	
Mean	263	260	259	258	258	258	258	259	260	260	257	257	259	261	267	271	272	274	274	273	273	272	269	265	264	
Mean*	264	263	263	263	263	263	262	263	265	264	261	258	261	263	265	268	269	269	267	266	266	266	264	264	264	
Mean**	262	255	253	249	250	251	253	256	257	257	255	257	260	264	271	280	285	287	287	286	280	281	277	273	266	

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
March.													43000 γ+Tabular Quantities.													Mean.
1	269γ	266γ	267γ	264γ	264γ	269γ	264γ	264γ	264γ	264γ	262γ	254γ	258γ	262γ	269γ	272γ	276γ	274γ	274γ	272γ	274γ	272γ	268γ	264γ	267γ	
2	259	261	266	267	262	264	264	264	267	267	267	261	267	269	269	275	279	277	277	277	275	269	271	267	268	
3	260	260	258	258	258	258	261	265	267	267	267	265	267	275	296	304	296	294	286	279	275	275	275	265	272	
4	259	259	262	265	267	269	269	269	269	267	265	259	259	267	269	275	277	277	272	272	269	269	269	267	268	
5*	268	268	268	268	268	268	268	270	268	268	263	258	258	258	263	268	273	270	270	270	270	270	266	266	267	
6*	260	260	263	263	266	266	263	266	260	260	258	255	256	258	263	268	268	268	268	268	268	268	268	268	264	
7	267	264	264	264	266	264	264	269	269	267	261	259	259	266	269	269	269	267	264	269	269	269	269	277	266	
8**	250	182	122	206	226	261	278	286	283	288	283	279	286	290	296	299	297	304	315	297	293	290	286	279	270	
9	280	272	272	280	282	288	288	290	288	278	272	270	272	280	285	285	288	285	282	282	285	283	285	282	281	
10	282	280	280	280	280	280	280	280	278	272	261	259	263	269	278	288	307	312	301	294	290	288	282	278	282	
11**	279	279	282	272	272	274	274	274	274	269	265	260	261	265	274	284	298	303	303	298	298	298	298	293	281	
12**	284	274	272	278	280	276	255	253	255	255	255	263	267	282	289	304	312	304	301	293	282	284	284	284	279	
13	273	273	277	277	280	280	280	277	275	267	264	258	265	273	279	283	285	283	281	280	277	277	277	275	276	
14	275	277	277	275	277	277	277	279	275	269	261	261	264	265	273	283	287	292	287	283	283	283	280	280	277	
15**	278	274	268	274	276	276	276	276	266	264	262	264	266	268	276	286	286	286	276	281	281	278	279	281	275	
16**	273	266	262	255	255	258	264	273	275	273	264	255	264	278	290	301	309	306	300	297	294	285	283	283	278	
17	279	279	279	279	282	282	282	276	274	264	255	255	257	264	269	272	276	279	279	279	279	284	279	276	274	
18	274	274	274	276	276	280	279	281	277	274	264	257	262	264	272	276	282	279	276	274	274	279	277	274	274	
19*	275	275	275	275	277	277	285	285	283	273	265	258	263	265	273	275	283	281	277	277	280	277	275	275	275	
20	275	275	275	275	275	275	277	275	265	263	256	256	258	260	265	270	275	275	275	275	275	275	277	275	271	
21	276	274	274	276	276	276	276	276	274	267	262	257	257	265	276	295	312	309	304	295	286	278	278	276	279	
22	276	276	271	271	276	276	274	276	271	266	266	256	262	274	286	295	300	300	284	278	276	276	276	276	277	
23	272	267	258	248	258	267	272	275	272	269	265	265	265	267	269	277	279	282	286	291	277	284	284	277	272	
24*	275	277	277	275	275	273	275	277	277	267	256	248	248	258	265	275	277	277	277	277	277	277	275	275	271	
25*	276	276	276	276	276	274	278	278	273	263	254	249	249	259	260	268	278	272	276	278	278	280	278	278	271	
26	276	276	276	276	276	276	278	278	273	263	254	254	251	259	263	271	278	278	278	278	278	276	273	268	271	
27	269	265	267	271	274	277	279	279	279	269	262	260	265	272	279	287	290	298	298	298	289	281	281	279	278	
28	277	277	277	277	277	277	277	277	277	269	263	263	263	269	279	285	282	284	284	285	287	287	279	277	277	
29	280	278	280	280	268	268	270	270	266	268	261	253	259	270	280	287	289	287	287	286	280	280	280	280	275	
30	268	270	278	278	278	278	281	286	278	268	266	258	—	—	—	—	—	—	—	—	—	—	—	—	—	
31	—	—	—	—	—	—	—	—	—	—	—	—	259	271	273	279	283	289	291	291	289	281	281	279	—	
Mean	272	268	266	270	271	273	274	275	272	268	263	259	262	270	275	282	286	288	284	280	280	279	278	276	275	
Mean*	271	271	272	271	271	271	274	275	272	266	259	254	255	260	265	271	276	274	274	274	275	274	272	272	270	
Mean**	273	255	241	257	262	269	269	272	271	270	266	264	269	277	285	295	300	301	299	293	290	287	286	284	277	
April.													43000 γ+Tabular Quantities.													Mean.
1	279γ	279γ	279γ	279γ	279γ	279γ	281γ	283γ	273γ	261γ	247γ	247γ	250γ	260γ	269γ	273γ	281γ	281γ	281γ	279γ	279γ	281γ	275γ	275γ	273γ	
2	272	263	267	270	272	274	280	280	280	272	266	266	267	272	274	282	282	282	282	282	282	282	280	280	275	
3	272	278	275	275	278	278	280	280	272	262	256	251	251	250	260	270	270	272	272	273	278	278	280	278	271	
4	260	252	250	260	262	260	262	268	260	256	252	245	241	245	262	273	279	289	289	284	284	284	279	270	265	
5**	248	252	248	260	266	251	259	265	270	265	259	259	255	256	270	287	298	310	298	298	298	295	265	262	271	
6**	250	239	235	230	244	258	272	279	275	265	258	258	260	285	305	305	303	307	305	303	297	272	277	262	273	
7	—	—	—	—	—	—	—	—	—	—	263	266	268	273	283	283	288	288	290	288	288	290	280	276	—	
8	270	268	276	280	280	278	280	286	282	276	268	261	259	259	268	276	280	283	288	304	297	292	292	290	279	
9	287	287	286	286	282	278	278	280	273	258	251	250	250	261	271	278	280	280	281	285	283	287	278	278	275	
10	270	276	278	278	278	278	278	278	273	263	254	247	249	258	270	278	283	283	278	278	278	276	276	258	271	
11**	248	259	267	269	270	270	276	278	269	258	250	248	259	269	288	308	324	342	347	332	306	264	269	258	280	
12	227	232	249	269	277	279	286	289	289	281	279	274	279	287	291	295	298	300	305	300	291	289	281	282	281	
13*	284	287	289	289	289	289	289	287	279	269	255	252	253	260	271	279	281	285	284	284	281	284	281	281	278	
14*	279	279	281	282	282	283	283	282	277	267	263	258	258	267	275	277	279	279	285	285	279	285	279	277	277	
15*	277	277	277	275	277	277	279	282	277	267	258	248	248	253	260	270	275	279	284	282	279	279	277	277	272	
16	275	277	277	275	275	275	275	277	275	267	265	256	251	256	265	273	285	285	285	283	280	283	279	275	274	
17	273	275	275	273	279	278	283	281	278	273	261	254	254	259	263	271	273	275	275	278	278	278	281	278	273	
18	273	273	273	275	275	273	273	271	271	263	256	254	252	254	265	281	283	284	284	290	292	290	271	256	272	
19**	252	254	263	273	271	245	240	251	254	258	254	254	261	265	280	284	282	284	290	290	284	283	282	275	268	
20*	275	281	283	283	283	280	281	281	278	281	273	271	271	273	281	283	283	283	283	283	283	283	281	278	280	
21	280	280	283	283	282	282	280	280	275	273	265	264	264	273	275	277	280	280	283	283	285	287	285	283	278	
22	284	278	276	281	281	281	281	281	276	271	266	257	252	259	269	276	286	290	290	290	286	286	278	276	277	
23	274	266	266	258	264	266	268	270	268	268	266	262	262	268	278	284	287	295	295	295	295	286	286	284	275	
24*	284	284	284	284	280	282	281	284	281	268	267	267	268	276	284	288	291	289	286	286	284	281	278	276	280	
25	274	268	255	264	266	274	274	276	274	266	261	257	255	264	268	276	280	284	285	287	292	295	278	257	272	
26**	247	235	228	217	213	226	235	249	257	259	254	254	256	264	273	283	292	300	302	302	283	278	278	275	260	
27	283	283	283	277	273	273	273	273	267	263	256	256	256	265	270	275	275	283	283	285	279	279	277	275	274	
28	277	275	275	277	275	277	275	270	265	263	263	259	257	265	270	278	280	285	285	285	285	277	275	275	274	
29	274	276	277	277	279	274	276	274	274	274	274	264	257	258	264	266	274	277	281	282	281	276	274	274	273	
30	274	272	272	272	264	255	255	255	255	259	257	253	253	260	272	282	291	302	302	302	283	276	277	269	271	
Mean	270	269	272	271	272	271	273	275	272	266	260	256	256	263	273	283	285	289	290	290	286	282	275	273	274	
Mean*	280	282	283	283	282	282	283	283	278	270	264	258	259	264	274	279	282	283	284	284	281	282	279	278	277	
Mean**	249	248	248	250	253	250	256	264	265	261	255	255	258	268	283	293	300	309	308	305	294	278	274	266	270	

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May.	43000 γ + Tabular Quantities.																								Mean.
1**	255γ	246γ	228γ	232γ	239γ	250γ	255γ	260γ	265γ	260γ	255γ	246γ	259γ	255γ	265γ	274γ	276γ	280γ	289γ	293γ	291γ	274γ	274γ	274γ	262γ
2	277	274	266	272	274	281	282	282	276	266	255	253	255	263	274	278	282	284	284	288	288	284	282	279	275
3	269	274	274	269	274	276	274	274	269	259	259	253	250	253	264	276	276	283	283	282	282	279	278	276	271
4	276	276	276	274	276	276	274	269	269	260	255	253	248	257	269	274	282	288	293	285	284	279	279	276	273
5	274	274	274	269	260	260	263	263	263	261	257	253	255	272	292	302	302	300	302	300	288	284	282	279	276
6	279	279	276	276	277	272	269	264	264	250	245	236	236	253	261	272	279	279	280	278	279	279	279	274	268
7*	274	274	272	272	272	274	274	270	264	255	250	250	247	253	262	274	280	279	274	274	274	274	274	274	268
8*	269	269	269	271	275	273	271	265	259	254	252	252	252	261	261	273	279	280	276	271	271	271	271	269	267
9*	271	261	261	266	271	271	271	266	266	261	252	254	254	261	261	271	273	276	274	273	273	271	269	269	266
10	267	267	269	269	271	271	269	261	249	245	240	240	245	249	259	264	269	269	269	269	267	266	266	265	261
11	264	264	264	267	274	274	269	269	259	254	251	250	254	254	259	269	270	280	278	278	274	271	267	261	266
12	254	256	256	258	266	266	266	258	256	248	242	237	244	247	254	261	266	271	273	266	266	266	264	256	259
13	256	256	256	264	264	256	256	256	256	251	247	239	239	247	256	268	273	273	270	266	266	266	264	264	259
14	261	261	264	266	271	268	268	268	258	256	251	242	242	251	258	266	271	268	266	266	266	266	266	256	261
15	252	254	258	261	266	266	266	258	256	250	240	238	238	245	261	276	285	294	294	287	280	276	266	266	264
16**	256	256	261	265	267	268	265	264	256	248	246	239	237	244	248	254	258	264	269	291	291	265	200	156	253
17**	158	158	181	190	199	234	255	255	262	264	259	257	262	275	292	292	283	273	273	282	272	264	245	243	247
18**	278	286	278	276	278	261	268	268	268	264	259	259	268	278	288	301	299	295	292	292	286	280	268	268	278
19**	263	259	249	257	263	273	278	278	270	266	257	251	259	273	287	295	285	283	285	283	280	276	268	259	271
20	251	249	258	260	266	266	268	268	268	260	254	254	258	268	278	285	282	285	282	280	276	278	268	258	268
21	258	249	247	256	256	263	266	270	272	268	260	258	258	266	276	277	276	273	270	276	270	268	263	258	265
22	238	233	235	243	243	247	247	247	235	231	223	216	223	—	—	238	243	241	241	243	243	241	238	233	233
23	228	228	223	223	231	233	233	233	225	214	214	212	212	214	221	223	225	233	233	233	235	238	238	240	227
24	220	221	223	223	228	228	230	226	226	218	211	211	216	223	228	230	233	236	233	238	238	238	238	238	227
25	238	238	238	240	238	238	238	238	233	224	219	223	228	233	246	250	259	260	257	253	251	250	248	248	241
26*	248	248	248	250	251	248	243	238	233	224	219	210	215	229	238	243	250	253	251	248	248	248	248	248	241
27*	248	248	248	250	256	266	260	260	258	256	246	239	239	248	256	258	266	264	262	258	256	250	253	248	254
28	245	251	251	253	253	253	253	253	251	243	241	239	239	243	248	255	261	261	263	263	258	253	253	253	251
29	251	253	253	253	253	253	253	253	253	248	244	230	230	232	253	270	270	270	272	282	274	270	268	263	256
30	253	251	253	255	248	251	251	253	253	243	243	236	236	243	253	263	268	273	273	273	268	263	258	258	255
31	278	275	278	276	278	273	271	268	265	261	254	249	254	249	254	261	271*	275	282	286	282	273	271	268	269
Mean	255	255	254	257	259	261	263	260	257	250	246	244	243	251	261	268	272	272	272	273	270	267	261	260	260
Mean*	262	260	260	262	265	266	266	262	256	250	243	241	246	250	256	264	270	270	267	267	264	263	263	262	259
Mean**	242	241	239	244	249	257	264	265	264	260	255	250	257	265	276	283	281	279	282	288	284	272	251	240	262
June.	43000 γ + Tabular Quantities.																								Mean.
1	258γ	258γ	258γ	260γ	260γ	258γ	260γ	258γ	257γ	248γ	243γ	228γ	—	—	—	—	—	—	—	—	—	—	—	—	—
2*	—	—	—	—	—	—	—	—	—	—	—	—	233γ	243γ	248γ	253γ	255γ	256γ	258γ	255γ	253γ	251γ	245γ	245γ	—
3*	244	242	244	244	246	244	242	242	238	228	221	221	217	221	223	233	233	223	216	216	214	214	214	209	229γ
4*	236	230	233	233	236	230	228	226	225	218	213	209	204	204	211	218	223	228	230	236	236	236	236	234	225
5	233	233	233	236	236	230	233	233	228	218	209	209	209	214	218	226	236	236	236	234	233	233	230	230	228
6	230	230	230	233	236	236	233	228	223	216	211	207	207	211	218	228	236	238	238	238	238	236	233	233	228
7	228	230	233	236	238	236	238	230	228	221	219	209	209	228	230	238	243	248	243	243	240	238	238	238	233
8	236	238	238	238	238	238	238	238	236	222	219	219	218	216	229	232	237	242	242	237	235	234	232	232	232
9**	235	235	237	237	237	237	237	235	227	224	218	213	216	218	229	235	245	250	256	265	265	251	237	232	236
10**	218	218	196	209	218	226	235	233	233	228	228	228	247	305	315	295	295	295	290	280	271	237	233	237	249
11**	245	250	245	248	252	252	258	260	260	250	250	240	239	250	250	258	264	262	255	258	260	255	245	240	252
12**	235	226	207	201	195	212	230	235	238	238	238	235	234	240	248	257	263	274	279	274	264	254	250	240	240
13	235	235	229	233	250	250	250	250	250	245	235	233	231	231	240	250	253	255	259	259	259	257	248	242	245
14	238	238	232	226	236	232	240	240	240	235	231	232	248	252	250	255	259	259	255	255	250	248	248	245	243
15**	242	240	233	240	246	245	242	240	240	233	231	235	235	240	252	257	261	268	268	259	252	252	242	233	245
16	228	219	217	226	226	226	236	238	236	234	231	226	228	236	244	246	255	260	257	260	255	246	241	234	238
17	220	227	228	234	234	234	234	236	236	236	228	231	225	236	246	255	255	255	260	260	255	246	236	241	240
18	241	241	244	241	238	244	244	246	246	236	234	256	236	241	246	246	248	254	256	251	251	248	246	246	245
19	244	236	241	246	246	246	241	244	244	240	236	236	244	246	246	244	248	251	254	251	248	246	246	246	245
20	246	246	246	246	246	246	236	236	236	231	227	228	229	227	227	236	246	251	253	251	248	246	246	241	240
21	236	241	244	244	246	246	244	238	230	217	209	217	217	227	236	246	253	255	255	255	255	248	246	246	240
22	246	244	244	246	246	246	242	244	242	241	238	234	234	236	236	238	238	246	248	246	246	246	244	244	242
23	244	246	246	246	246	246	246	244	238	236	231	221	226	226	235	240	245	247	245	245	245	243	243	243	240
24	243	243	243	245	245	245	237	243	243	237	231	228	233	235	243	250	255	250	250	245	245	245	245	243	243
25	243	242	243	245	245	245	243	237	233	225	223	216	216	216	233	243	243	245	243	240	240	237	235	235	236
26	237	238	240	243	243	243	243	243	237	226	217	216	216	226	235	245	254	259	264	264	256	253	247	245	241
27	237	243	243	245	245	240	235	235	233	227	221	218	226	235	243	245	245	250	250	250	250	245	240	240	239
28	243	243	243	245	247	245	239	237	235	226	226	226	227	230	235	245	245	245	245	245	245	245	243	240	239
29*	240	240	242	243	245	245	243	245	235	227	226	226	221	221	235	237	243	245	245	245	245	245	243	237	238
30*	237	237	238	243	243	242	240	243	235	225	221	218	226	228	—	—	—	—	—	249	247	247	245	243	237
Mean	239	238	238	239	240	240	240	240	236	230	226	225	226	232	239	245	248	252	252	251	249	244	240	238	239
Mean*	239	237	239	241	243	240	238	239	233	225	220	219	217	219	223	229	233	232	230	237	236	236	235	231	232
Mean**	235	234	224	227	230	234	240	241	240	235	233	230	234	251	259	260	266	270	270	267	262	250	241	236	244

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
July.	43000γ+Tabular Quantities.																									Mean.
1	239γ	239γ	239γ	242γ	242γ	242γ	239γ	240γ	236γ	225γ	223γ	220γ	225γ	227γ	229γ	239γ	244γ	246γ	258γ	265γ	261γ	253γ	246γ	244γ	240γ	
2	239	239	239	242	242	238	234	234	234	226	218	215	220	232	234	234	242	244	244	246	248	244	244	242	236	
3	244	244	242	244	236	239	242	242	236	232	229	227	232	239	242	244	244	244	242	244	246	244	242	239	240	
4	239	236	234	237	241	242	239	232	232	224	217	220	222	232	242	242	244	244	242	240	242	239	238	238	235	
5	235	233	233	238	241	243	238	238	231	228	225	231	225	228	233	238	241	243	241	238	241	238	238	235	236	
6	235	236	238	241	241	241	238	231	225	223	214	210	212	219	231	238	238	243	243	243	243	241	235	235	233	
7*	235	235	236	238	240	240	235	233	233	223	214	214	214	214	231	237	243	241	235	235	233	233	233	231	231	
8**	233	233	231	214	223	216	214	223	223	221	214	209	209	218	228	233	241	242	249	249	249	241	238	234	229	
9	227	224	230	234	235	234	232	230	224	213	206	211	215	222	230	232	237	241	241	241	241	237	232	232	229	
10	230	229	230	232	234	232	230	227	224	222	217	213	205	213	222	232	232	234	234	236	236	238	232	217	227	
11**	213	213	224	234	234	232	232	232	236	230	222	215	213	222	232	234	242	248	248	249	248	242	240	232	232	
12	222	222	222	227	234	234	232	232	230	222	220	213	213	222	231	236	239	245	245	241	241	236	231	231	230	
13	231	231	231	229	231	236	231	229	223	219	214	212	221	228	234	241	241	243	241	239	236	236	236	231	231	
14	229	229	231	233	236	236	231	229	223	216	212	203	203	204	221	231	231	231	238	240	240	238	221	225	226	
15	226	219	212	221	231	231	229	229	227	221	221	219	219	221	233	241	245	248	242	241	239	236	236	231	230	
16	226	229	231	231	231	231	231	233	233	226	216	211	211	211	220	235	238	240	241	247	240	238	234	230	229	
17	230	230	230	230	235	230	230	230	230	225	210	200	208	212	220	230	232	238	239	235	235	230	228	228	227	
18	228	230	220	218	220	220	214	220	220	220	217	218	218	220	222	230	238	238	239	239	236	235	232	230	226	
19*	230	230	230	232	235	232	228	230	228	215	211	211	213	220	228	230	232	230	232	230	230	230	230	228	227	
20*	230	230	228	228	230	230	227	223	224	219	214	210	209	210	211	222	224	229	229	229	229	229	227	227	223	
21*	227	227	227	227	229	229	221	219	219	211	205	205	200	205	214	224	234	236	229	227	223	227	227	227	222	
22*	227	227	227	227	229	229	227	226	219	210	203	202	202	208	211	229	236	235	232	229	229	229	227	227	223	
23	230	230	232	232	232	230	224	229	222	213	213	213	211	213	222	227	232	239	237	234	232	232	230	230	226	
24	227	230	226	229	231	229	225	226	221	219	213	212	204	212	221	223	229	233	233	231	233	231	229	229	225	
25**	229	229	228	224	228	222	214	212	212	212	212	212	212	220	233	239	270	298	300	289	258	241	239	237	236	
26	238	238	241	241	241	229	228	223	214	219	214	219	214	214	231	235	243	250	257	252	245	243	238	233	233	
27	231	233	231	231	239	239	239	239	237	233	229	231	229	226	233	241	249	250	246	246	241	239	235	230	237	
28**	228	228	211	211	211	216	222	228	228	228	222	220	220	230	238	240	247	258	268	258	253	220	204	205	229	
29**	207	193	213	223	219	216	221	—	—	221	221	221	224	230	238	242	249	256	266	267	262	251	247	240	233	
30	228	209	221	230	240	240	238	230	226	228	226	221	216	221	230	238	240	242	247	247	249	249	240	235	233	
31	225	227	227	227	229	227	227	232	229	227	225	220	218	225	232	237	237	242	241	245	245	238	236	234	232	
Mean	230	228	229	231	233	232	229	229	226	221	217	215	215	220	228	235	240	244	245	244	242	237	234	231	231	
Mean*	230	230	230	230	233	232	228	226	225	216	209	208	207	211	219	228	234	234	231	230	229	230	229	228	225	
Mean**	222	219	221	221	223	219	220	224	225	222	218	215	216	224	234	238	250	261	267	263	254	239	234	230	232	
August.	43000γ+Tabular Quantities.																									Mean.
1*	226γ	226γ	226γ	226γ	228γ	231γ	231γ	228γ	230γ	226γ	226γ	218γ	216γ	216γ	226γ	226γ	234γ	234γ	226γ	226γ	230γ	231γ	228γ	226γ	227γ	
2	224	218	221	224	228	226	228	233	226	226	218	209	224	220	224	234	236	236	236	238	243	238	236	232	228	
3	226	224	221	205	202	207	220	226	226	224	213	211	215	215	227	235	237	246	242	237	237	235	235	227	225	
4	225	227	227	227	229	233	225	220	208	201	201	198	197	204	215	225	225	227	233	233	234	234	230	225	221	
5	223	220	225	225	229	227	225	225	225	216	212	206	216	217	227	235	246	252	252	246	242	235	235	230	229	
6	229	226	216	216	224	224	224	222	212	216	214	200	200	205	224	232	235	234	234	234	234	232	231	229	223	
7	224	224	224	226	230	226	222	222	214	212	214	203	203	205	208	221	224	224	227	235	233	232	224	209	220	
8	203	205	214	216	216	214	212	214	216	214	212	212	212	216	225	234	243	242	234	232	231	229	217	211	220	
9	209	204	204	213	221	225	225	221	215	213	199	196	202	213	225	240	244	244	242	240	233	231	218	218	221	
10	215	211	215	223	223	223	229	231	225	223	221	211	204	211	215	221	225	231	231	231	225	223	223	223	221	
11	221	213	219	217	220	224	224	224	222	220	208	203	201	217	224	225	230	234	234	236	234	230	220	220	222	
12	220	220	222	222	222	222	232	230	224	220	212	203	203	205	212	222	226	226	228	226	230	224	224	224	221	
13	224	222	222	222	224	222	220	220	220	216	212	208	208	210	220	224	230	232	231	238	233	231	221	219	222	
14	219	219	218	221	223	223	221	221	219	209	211	211	211	211	216	221	223	232	231	229	229	221	211	202	219	
15**	212	219	221	221	226	229	231	229	223	221	216	203	203	210	210	212	212	221	250	266	297	251	229	231	227	
16**	236	239	231	201	211	213	225	230	230	228	220	222	238	234	240	247	249	247	240	240	240	240	240	238	232	
17	241	241	238	238	241	243	243	243	243	243	243	233	231	231	233	243	243	243	243	243	243	243	243	241	240	
18*	243	243	239	237	237	241	242	243	243	239	233	233	233	230	235	237	242	243	243	243	243	243	241	240	240	
19*	242	242	242	242	244	244	244	244	236	225	225	217	223	232	234	234	236	236	236	242	242	242	242	242	237	
20	242	239	239	238	242	241	242	241	234	225	223	217	217	231	234	242	246	249	246	244	244	242	236	234	237	
21*	244	246	252	252	253	252	252	253	253	242	227	223	222	223	233	243	243	243	243	241	237	235	235	233	240	
22	238	236	230	230	230	238	238	233	228	220	218	218	218	226	228	233	238	236	233	228	228	228	233	228	230	
23	223	223	223	223	221	223	223	223	223	215	213	204	204	213	223	231	233	233	223	221	221	223	223	223	221	
24	213	213	216	218	222	222	222	224	224	214	208	203	203	212	222	230	241	250	260	255	246	222	217	220	224	
25**	189	196	187	187	179	205	215	217	217	215	207	198	207	215	227	236	245	255	245	236	231	231	228	227	216	
26**	223	215	197	187	199	215	223	225	225	225	215	215	219	224	234	243	253	243	243	243	234	234	234	224	225	
27**	223	224	224	224	229	226	232	232	232	226	224	224	234	248	251	251	247	248	248	244	239	236	236	234	235	
28	221	219	227	227	229	229	231	237	234	221	212	212	217	224	227	229	234	236	237	234	234	234	228	228	228	
29	220	218	220	226	228	228	233	236	238	228	218	214	218	223	228	233	233	233	233	230	236	233	230	228	228	
30*	223	223	223	223	225	227	229	230	227	223	217	208	206	215	223	230	233	233	232	230	230	230	229	223	225	
31	223	223	226	226	228	228	228	228	222	215	213	208	208	210	215	219	225	227	241	246	246	248	262	248	227	
Mean	224	223	223	222	224	227	229	229	226	221	216	211	214	219	225	232	236	238	238	238	234	234	230	227	227	
Mean*	236	236	236	236	237	239	240	240	238	231	226	220	220	223	230	234	238	238	236	236	236	236	235	233	234	
Mean**	217	219	212	204	209	218	225	227	225	223	216	212	220	226	232	238	241	243	245	246	248	238	233	231	227	

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September.	43000 γ + Tabular Quantities.																								Mean.
1**	233γ	221γ	221γ	223γ	225γ	223γ	223γ	214γ	217γ	214γ	206γ	204γ	208γ	215γ	231γ	240γ	240γ	250γ	251γ	244γ	242γ	240γ	231γ	227γ	227γ
2	215	215	221	223	223	223	223	221	217	213	213	211	215	221	223	231	231	231	230	231	231	227	230	226	223
3	213	218	220	222	222	217	214	212	212	207	210	212	216	220	227	237	252	242	232	232	232	232	224	212	222
4	212	198	203	207	212	212	212	212	207	201	195	210	214	222	231	236	233	231	229	231	229	226	212	207	216
5	203	194	203	214	220	222	224	222	220	212	210	203	205	212	221	240	246	240	242	231	229	226	226	223	220
6	216	221	226	226	226	226	226	226	223	219	207	201	202	213	221	238	245	249	240	231	229	225	221	211	224
7	216	221	221	221	226	226	226	226	226	216	216	210	216	221	229	236	240	240	238	238	233	231	229	229	226
8	219	211	212	218	218	208	212	214	210	201	199	201	208	216	225	230	234	231	239	237	230	222	220	220	218
9	222	220	212	218	220	220	222	227	220	210	208	208	215	220	225	228	222	222	222	228	228	228	220	220	220
10	222	222	222	222	222	222	225	228	222	220	215	212	212	215	223	231	231	229	219	224	224	224	224	221	222
11*	219	219	217	219	221	227	227	227	225	219	217	209	209	209	214	221	227	221	219	219	221	221	219	219	219
12*	219	219	221	222	224	229	229	229	229	219	219	211	209	209	219	219	219	219	219	219	221	224	222	219	220
13	219	219	218	216	218	218	218	218	218	218	207	201	204	208	218	228	237	228	228	228	228	228	228	228	220
14	223	223	223	223	223	226	226	226	218	213	211	211	218	218	228	237	237	237	236	232	230	228	228	226	225
15*	226	225	221	220	223	226	228	228	220	217	208	210	214	219	225	227	225	225	224	225	224	227	227	227	222
16	219	217	198	198	206	212	219	227	229	227	217	208	208	209	217	227	245	249	241	236	232	234	225	211	221
17	208	212	210	212	208	205	212	217	217	215	212	215	217	229	232	246	258	253	247	243	236	226	226	224	224
18**	221	221	221	221	221	211	204	207	210	211	221	219	216	229	231	234	233	231	231	231	231	223	221	221	222
19**	213	213	207	183	183	188	197	206	211	211	216	221	221	226	229	230	240	244	249	240	238	230	221	218	218
20**	208	205	210	193	207	210	210	218	222	225	215	215	225	230	230	230	237	230	227	230	230	220	210	218	219
21**	217	210	212	212	210	205	210	212	220	220	217	214	240	272	272	278	294	288	284	266	214	203	188	210	232
22	218	218	220	220	214	222	229	237	229	229	219	214	208	208	219	227	237	242	253	248	238	229	229	224	226
23	221	209	200	200	198	200	209	219	221	219	217	211	209	217	229	240	245	233	229	229	229	227	227	223	219
24	224	221	222	224	227	227	229	229	229	219	214	210	210	211	218	236	247	245	239	238	238	228	228	223	226
25*	223	223	220	218	223	223	220	220	220	220	213	211	216	223	228	236	236	236	230	233	236	236	228	223	225
26*	223	223	223	223	226	228	228	226	220	218	213	213	210	209	216	223	228	230	228	228	227	225	222	222	222
27	222	217	217	217	209	210	209	215	217	215	207	203	200	206	212	231	245	234	229	227	227	225	225	221	218
28	222	222	217	213	217	217	219	225	222	222	213	208	206	208	213	227	244	249	246	238	244	238	234	226	225
29	214	216	216	216	216	216	218	218	216	218	216	211	211	208	211	224	226	228	234	234	226	228	226	226	220
30	206	188	188	198	206	216	221	226	226	224	218	211	208	214	224	228	244	242	228	226	226	224	218	216	218
Mean	218	215	216	215	216	217	219	221	220	216	212	210	212	218	225	233	239	238	235	234	230	227	223	223	222
Mean*	222	222	220	220	223	227	226	226	223	219	214	211	212	214	220	225	227	226	224	225	226	227	224	222	222
Mean**	218	214	214	206	209	207	209	211	214	214	215	215	222	234	239	242	249	249	248	242	231	223	214	219	223
October.	43000 γ + Tabular Quantities.																								Mean.
1	205γ	200γ	200γ	181γ	196γ	210γ	212γ	218γ	220γ	222γ	220γ	210γ	210γ	210γ	212γ	220γ	220γ	220γ	220γ	220γ	215γ	215γ	212γ	205γ	211γ
2**	203	208	212	212	208	212	212	222	222	220	214	208	210	217	230	239	241	241	232	227	227	224	224	214	220
3	202	202	211	211	206	202	204	211	211	211	211	211	211	221	226	240	240	248	238	230	229	219	221	221	218
4	221	211	211	211	209	204	211	211	216	221	221	216	216	219	223	232	242	238	231	225	221	229	223	211	220
5	215	220	220	220	220	220	222	222	220	218	215	210	218	218	220	228	230	230	230	232	237	222	220	218	222
6	201	199	205	210	215	218	220	218	218	212	210	212	210	212	218	220	222	222	228	229	229	228	220	201	216
7	200	203	206	209	209	214	214	217	219	214	209	204	204	211	219	222	228	228	224	219	219	219	219	219	215
8**	220	220	218	217	215	218	217	215	218	220	212	206	210	215	229	248	271	290	266	266	257	253	234	229	232
9	218	210	203	197	190	194	213	218	218	210	206	206	206	208	218	222	227	227	226	226	227	231	227	227	215
10	220	218	218	220	220	222	225	226	223	220	216	210	209	216	220	226	228	226	226	226	224	220	220	218	221
11*	217	217	219	219	219	219	217	217	219	215	207	205	207	211	217	217	219	217	217	217	219	217	217	217	216
12*	217	217	217	217	217	217	217	219	219	215	207	200	201	207	212	217	222	222	222	222	219	217	217	217	216
13*	216	216	216	216	214	216	216	216	214	206	204	199	199	199	204	211	216	216	216	216	216	216	216	214	212
14*	216	214	214	216	216	216	216	216	216	216	211	201	201	199	204	211	214	214	214	214	214	216	216	214	212
15	205	205	205	205	205	202	196	198	200	200	196	191	196	196	203	220	238	236	229	226	221	220	218	210	209
16**	212	210	199	184	175	157	171	192	192	198	230	240	262	283	299	320	294	274	268	266	246	237	220	220	231
17**	219	221	210	200	200	196	202	210	219	212	210	219	227	234	257	258	257	238	234	234	229	224	219	219	223
18	210	210	212	219	219	222	219	219	221	222	219	224	234	237	246	238	238	238	238	238	234	219	219	223	226
19	218	218	218	218	218	218	216	218	218	216	210	209	209	223	233	260	246	235	228	230	228	226	209	199	222
20	200	207	209	216	218	222	225	228	226	218	218	218	218	228	236	245	245	236	230	230	228	228	228	218	224
21	212	208	212	215	219	219	222	225	224	217	208	206	209	215	225	231	234	234	231	236	227	227	227	225	221
22	228	222	220	218	218	220	220	220	214	215	209	209	210	215	220	230	237	232	230	228	225	225	222	210	221
23	211	215	218	220	220	220	220	228	228	222	213	215	222	228	228	235	239	241	241	239	238	228	220	220	226
24	220	214	212	212	212	212	217	220	222	220	214	212	212	220	222	224	227	227	222	222	232	232	232	232	220
25	224	224	224	224	222	222	222	222	220	214	210	210	209	210	222	230	224	227	232	230	224	227	227	224	222
26	220	220	220	220	220	220	220	220	220	220	215	212	215	218	220	222	220	220	220	222	220	220	220	220	219
27*	213	217	218	218	218	220	220	220	220	220	210	210	208	210	215	220	220	220	218	220	220	220	220	218	217
28	215	218	217	218	217	218	215	215	217	212	209	209	212	220	228	241	251	239	230	230	228	225	222	220	222
29	219	216	217	219	217	219	217	219	219	214	209	209	211	217	219	221	221	221	219	221	221	219	209	217	217
30	217	217	216	217	217	219	217	217	219	211	207	207	209	217	217	221	219	219	211	214	217	217	217	217	216
31**	209	209	209	209	207	193	193	198	202	217	217	219	224	229	240	246	238	229	229	229	219	219	219	209	217
Mean	214	213	213	213	212	212	214	217	217	215	212	210	213	218	225	230	234	232	229	229	226	224	221	217	219
Mean*	216	216	217	217	217	218	217	218	218	214	208	203	203	205	214	215	218	218	217	218	218	217	217	216	215
Mean**	213	214	210	204	201	195	199	207	211	211	217	218	227	236	251	262	260	254	246	244	236	231	223	218	225

TABLE III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE—*continued.*

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November.													43000γ + Tabular Quantities.												Mean.
1	204γ	208γ	211γ	214γ	214γ	214γ	214γ	216γ	216γ	214γ	214γ	211γ	208γ	214γ	218γ	218γ	218γ	216γ	214γ	214γ	214γ	208γ	208γ	208γ	213γ
2	214	211	211	208	208	209	211	214	216	211	211	208	214	218	219	221	226	221	216	216	214	216	216	214	214
3	208	209	211	214	214	210	214	216	214	208	208	214	215	212	217	217	217	217	215	215	217	217	217	215	214
4	212	209	210	209	210	212	207	207	207	207	202	205	207	209	212	215	214	209	207	207	209	217	212	210	209
5*	209	209	209	209	209	207	207	207	205	202	197	202	207	207	212	214	215	209	209	207	207	209	210	209	208
6*	207	207	207	207	207	207	208	208	208	208	203	206	208	208	210	213	213	213	210	208	210	213	210	208	209
7*	208	208	208	208	208	210	206	208	208	206	200	200	206	208	210	210	213	213	208	208	208	208	208	208	208
8	208	208	208	208	210	210	208	208	208	203	203	200	201	206	208	210	210	213	210	210	208	208	208	210	208
9	209	209	209	209	211	211	211	209	209	209	207	207	213	213	217	217	217	216	212	211	214	214	214	215	212
10	212	211	211	211	211	211	209	209	209	204	200	200	202	207	214	219	219	219	224	228	233	233	228	211	214
11**	209	207	198	200	198	193	195	200	202	207	209	209	212	225	229	231	239	249	259	253	225	225	203	190	216
12**	192	188	182	199	201	190	197	205	211	216	220	228	229	241	244	244	244	241	235	228	228	216	208	201	216
13	199	208	216	210	208	213	213	216	216	216	218	216	218	226	228	232	237	237	237	235	226	228	208	214	220
14	219	217	211	219	219	219	219	219	217	217	217	221	227	227	229	227	227	229	229	229	219	224	219	217	222
15**	214	208	216	219	214	210	200	210	214	219	217	217	219	227	231	234	238	252	245	245	238	221	210	214	222
16	210	210	210	208	208	210	212	217	219	217	212	221	230	237	247	252	247	246	239	232	230	218	218	222	224
17	218	213	217	218	220	220	220	220	220	218	218	224	232	240	241	241	240	240	235	232	230	230	230	228	227
18	222	222	220	222	222	222	220	220	220	220	220	220	228	230	240	240	238	237	238	238	230	230	228	228	227
19	231	231	229	227	230	231	231	231	233	233	233	231	235	241	241	243	243	243	245	247	233	236	236	233	235
20	231	231	231	229	229	225	225	223	223	225	221	221	223	221	221	221	226	226	223	221	223	225	223	221	225
21	221	221	223	224	221	221	219	219	223	221	221	223	230	230	234	237	240	240	234	234	237	232	232	227	228
22	224	225	224	224	225	227	224	222	222	222	222	222	224	230	230	230	232	232	230	230	230	232	232	222	227
23**	221	219	216	220	207	209	206	199	209	212	221	232	253	260	270	285	280	270	268	259	257	255	251	250	239
24	245	245	243	243	238	241	241	241	238	237	235	235	241	248	253	262	257	253	256	253	248	245	243	238	245
25	233	233	233	236	240	238	238	235	233	231	230	231	233	237	238	241	243	243	241	241	237	241	241	239	237
26*	235	236	233	233	235	236	233	233	233	233	231	233	234	234	234	239	239	239	239	236	236	238	238	232	235
27*	234	234	234	234	234	234	234	232	234	229	226	229	234	234	236	236	240	234	234	234	234	234	234	234	234
28	234	234	232	232	232	234	226	226	231	232	226	227	229	239	239	242	242	238	234	234	236	239	239	237	234
29**	235	235	235	235	233	233	230	231	231	231	231	228	229	226	226	226	226	231	245	290	370	300	281	250	243
30	253	247	235	245	245	245	243	242	240	235	235	240	243	245	245	253	255	255	259	257	247	245	245	243	246
Mean	219	218	218	219	219	218	217	218	219	218	217	219	223	227	230	232	233	233	232	232	226	225	225	222	224
Mean*	219	219	218	218	219	219	218	218	218	216	211	214	218	218	220	222	224	222	220	219	219	220	220	218	219
Mean**	214	211	209	215	211	207	206	209	213	217	220	223	228	236	242	244	245	249	250	255	251	243	231	221	227
December.													43000γ + Tabular Quantities.												Mean.
1**	235γ	234γ	234γ	234γ	234γ	234γ	235γ	235γ	235γ	235γ	231γ	226γ	235γ	240γ	250γ	266γ	285γ	282γ	287γ	275γ	257γ	245γ	237γ	237γ	246γ
2	234	238	244	244	240	240	240	236	238	236	236	231	231	236	236	241	241	241	241	238	241	244	236	236	238
3	237	237	239	237	237	235	232	228	228	235	235	239	245	247	249	256	264	266	252	249	247	252	250	247	244
4	243	243	240	241	238	238	238	233	233	231	232	228	231	233	238	240	245	246	243	238	238	238	238	233	237
5*	237	239	239	239	239	239	234	231	232	231	229	234	234	234	237	237	237	234	231	229	229	231	231	231	234
6*	230	232	232	230	230	232	234	230	230	230	228	228	230	230	230	230	230	230	230	230	230	230	234	230	230
7	231	231	231	231	229	229	229	226	227	223	221	221	223	226	231	231	236	241	245	245	239	248	248	241	233
8**	222	206	192	215	226	224	226	231	233	240	242	250	271	298	322	294	280	300	291	278	266	252	242	238	252
9**	238	235	234	220	220	229	234	241	243	245	248	245	258	267	276	267	267	270	262	259	253	243	243	234	247
10	213	225	235	237	239	244	239	241	239	244	249	249	265	263	271	271	271	263	258	249	254	249	246	244	248
11	235	231	235	240	235	240	242	245	245	253	250	245	245	245	250	255	255	259	255	257	250	250	235	235	245
12	236	236	241	241	241	243	243	244	256	256	256	244	243	246	246	251	246	246	251	248	246	246	246	244	246
13	239	239	237	235	235	233	235	235	237	237	237	235	237	245	247	251	252	264	252	252	252	242	242	230	242
14	235	238	238	238	238	240	238	238	238	243	238	238	246	250	250	255	250	250	248	248	248	246	240	240	243
15	239	239	239	239	239	239	239	231	235	237	237	239	241	247	249	247	247	249	249	249	247	247	247	245	242
16	242	242	240	240	240	240	240	238	238	238	238	235	240	248	250	248	250	252	258	261	261	259	256	250	246
17	249	248	243	241	239	239	239	239	241	249	249	241	247	249	249	248	249	249	249	247	243	247	249	243	245
18	242	242	244	242	242	242	242	240	240	240	240	240	238	240	242	242	242	244	250	247	244	242	240	240	242
19	243	243	245	243	243	239	234	234	234	241	241	241	253	263	265	263	263	272	272	270	272	273	265	263	253
20	256	256	254	246	248	254	252	246	245	246	252	252	252	252	256	264	273	275	278	269	269	264	264	262	258
21	262	259	256	256	254	254	252	246	246	246	250	249	244	246	249	254	259	262	264	264	262	259	262	259	255
22	260	257	257	255	245	250	253	253	255	255	255	253	255	255	257	255	255	255	255	255	257	255	253	253	255
23	254	246	244	239	248	254	248	250	248	250	256	258	266	258	258	261	261	266	268	273	266	261	254	244	256
24	247	249	255	257	257	257	257	257	257	257	257	257	257	259	259	259	259	259	265	265	259	257	257	257	257
25**	259	259	257	257	255	257	250	245	245	245	245	255	260	267	278	315	329	381	391	348	299	286	280	257	280
26**	252	260	264	267	267	269	267	269	277	277	281	284	288	288	284	279	274	279	279	271	279	260	258	260	272
27	255	260	260	260	260	266	268	270	270	270	268	268	270	272	270	270	270	270	270	268	268	270	270	270	267
28*	271	269	269	269	269	271	269	271	271	271	271	271	271	269	271	273	273	271	271	271	271	271	271	266	270
29*	267	267	267	267	264	267	267	267	267	269	272	272	272	272	272	272	272	272	272	272	270	270	270	268	270
30*	268	266	265	265	265	266	265	266	263	265	265	268	271	268	265	265	268	268	266	265	266	265	268	268	266
31	264	264	264	262	260	264	262	260	262	262	259	259	262	264	266	269	269	274	274	272	270	272	272	266	266
Mean	245	245	245	245	244	246	245	244	245	247	247	247	251	254	257	259	260	264	264	260	257	254	252	248	251
Mean*	267	267	266	266	265	267	266	265	265	265	265	267	268	267	267	267	268	267	266	265	265	265	267	265	266
Mean**	240	243	245	243	243	247	245	246	248	249	251	252	261	265	272	280	285	295	295	280	268	257	253	246	250

TABLE IV.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC DECLINATION WEST.
(*The results in each month are diminished by the smallest hourly value.*)

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	0·5	0·1	1·4	2·1	3·4	3·3	3·7	3·2	1·1	0·5	1·1	2·6	0·86
1h.	1·4	0·5	1·5	1·9	3·5	3·9	3·5	3·1	1·2	0·8	1·9	2·8	1·11
2	1·7	0·4	1·3	1·2	3·4	3·3	3·0	3·1	0·6	1·2	2·1	3·1	0·97
3	2·7	0·5	1·2	1·9	3·1	2·4	2·4	3·3	0·6	1·1	2·5	3·4	1·03
4	2·9	0·7	1·2	2·1	2·5	1·4	2·1	1·9	0·6	2·3	2·7	3·3	0·92
5	2·7	1·6	1·4	2·5	1·3	0·4	0·3	0·7	0·9	2·2	2·8	3·9	0·66
6	2·6	1·7	1·1	1·5	0·4	0·2	0·0	0·0	0·4	1·5	2·5	4·5	0·31
7	2·5	1·8	0·4	0·3	0·0	0·0	0·4	0·0	0·0	0·5	2·4	4·4	0·00
8	2·3	1·5	0·0	0·0	0·8	0·5	0·8	1·0	0·2	0·0	2·1	4·8	0·11
9	1·9	1·7	1·1	1·7	2·6	2·7	2·8	3·1	2·2	1·1	2·8	5·2	1·36
10	2·9	3·3	3·9	4·7	5·5	5·4	5·0	5·8	5·3	3·6	4·1	6·2	3·58
11	4·4	4·8	7·3	8·3	8·7	8·7	8·4	9·7	8·3	6·8	6·5	6·6	6·32
Noon	6·3	6·0	9·8	11·4	11·0	10·7	10·8	11·9	10·1	8·7	7·4	7·2	8·22
13h.	7·5	6·9	10·5	12·4	11·7	11·6	11·8	12·4	9·9	9·0	7·5	7·4	8·82
14	7·4	6·8	9·4	11·3	11·1	11·3	11·5	11·3	8·9	8·6	6·8	6·9	8·21
15	6·4	6·1	7·5	9·5	9·4	9·9	10·2	9·7	7·3	6·6	5·8	6·1	6·82
16	5·6	5·6	5·4	7·8	7·9	8·0	8·8	7·9	4·8	4·9	4·8	4·9	5·31
17	4·8	4·3	4·3	6·2	6·6	6·5	7·2	6·0	4·0	4·1	3·4	4·3	4·08
18	4·3	4·0	3·5	4·7	5·5	5·7	5·7	4·8	2·8	3·2	2·5	3·2	3·10
19	3·4	3·6	2·7	3·9	4·7	5·0	5·0	4·3	2·1	1·2	1·6	1·5	2·19
20	2·3	2·0	1·8	3·6	4·6	5·0	4·4	4·5	1·4	0·4	0·8	0·4	1·54
21	0·8	1·1	1·7	3·1	4·5	5·1	4·7	3·7	0·4	0·2	0·8	0·0	1·11
22	0·3	0·0	1·5	2·3	4·5	4·7	4·2	2·9	1·2	0·2	0·0	0·7	0·82
23	0·0	0·0	1·3	1·1	3·9	3·7	3·8	3·2	1·0	0·2	0·1	1·9	0·62
Means	3′·24	2′·71	3′·38	4′·40	5′·03	4′·98	5′·02	4′·90	3′·14	2′·87	3′·12	3′·97	2′·84

TABLE V.—DIURNAL RANGE of DECLINATION, on each CIVIL DAY, as deduced from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTERS.

1918.

Day of Month.	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.
d.	′	′	′	′	′	′	′	′	′	′	′	′
1	5·8	12·0	7·0	15·0	14·5	12·5	13·0	13·7	26·0	15·7	7·5	26·0
2	6·5	8·3	10·8	15·0	11·2	13·0	10·2	11·2	10·8	12·0	7·0	7·8
3	13·0	6·3	17·5	14·5	13·8	10·0	11·3	17·4	12·0	12·8	7·2	16·5
4	12·7	4·7	12·7	20·0	15·0	13·0	13·8	14·7	16·8	13·0	9·0	6·0
5	10·3	7·8	8·7	20·5	11·3	15·0	11·5	16·0	15·0	18·0	8·0	3·3
6	10·8	17·8	8·2	30·3	13·5	14·5	12·0	17·4	13·8	10·4	6·5	3·5
7	8·5	7·5	11·0	18·5	11·5	15·0	15·0	12·0	13·2	12·0	6·5	15·0
8	5·2	5·5	32·5	13·5	18·5	15·0	17·2	15·5	16·0	22·5	8·5	30·0
9	6·0	9·2	8·8	16·5	15·0	13·3	14·0	14·3	13·8	19·0	8·2	15·0
10	8·3	12·5	14·3	15·5	15·5	22·0	14·0	11·5	12·0	9·0	12·0	9·8
11	4·3	13·5	12·7	21·0	12·5	13·5	14·5	16·3	11·0	9·5	21·5	15·5
12	17·0	15·2	13·0	11·5	10·8	13·3	12·3	11·5	8·3	8·2	20·0	6·5
13	14·0	22·5	12·0	14·0	12·0	10·5	15·0	12·0	12·5	9·5	13·5	15·0
14	11·5	17·0	12·5	10·0	15·5	12·5	12·8	11·0	13·5	10·0	12·5	8·5
15	10·5	20·0	12·0	13·7	16·8	13·0	12·5	19·0	11·5	12·5	20·0	4·8
16	7·5	10·5	18·5	11·0	23·3	11·5	9·0	15·0	16·0	17·0	9·5	9·0
17	8·2	6·9	9·5	11·7	23·5	11·8	12·2	12·0	14·5	16·0	7·2	7·0
18	7·6	5·8	12·2	21·0	12·5	12·0	14·2	9·0	15·0	9·0	7·5	7·8
19	6·8	5·2	10·5	19·5	8·5	9·8	10·5	13·0	19·5	21·5	13·0	15·5
20	7·8	10·2	9·7	9·6	12·2	11·0	11·5	14·2	10·5	13·5	7·8	8·0
21	10·2	9·0	15·5	11·5	10·2	15·5	9·6	14·2	18·5	11·5	8·0	8·8
22	7·5	5·0	12·5	13·5	10·4	10·0	13·0	14·8	20·5	12·0	11·7	6·7
23	5·0	17·0	12·5	15·3	11·5	13·2	15·2	14·5	11·5	15·5	19·5	9·2
24	6·2	10·0	11·7	12·7	8·5	10·8	13·3	15·2	14·5	14·8	21·0	7·2
25	8·8	5·5	12·7	22·3	12·0	11·0	20·4	19·0	12·8	13·8	4·2	32·5
26	8·5	7·8	15·2	25·5	13·3	16·2	16·0	12·8	9·5	10·5	6·8	20·0
27	10·2	11·5	19·0	10·7	11·0	13·5	12·5	14·5	12·0	7·5	6·8	5·6
28	6·6	15·0	15·3	11·2	12·7	12·5	18·0	13·8	19·0	12·5	8·2	3·5
29	18·0		11·7	7·6	11·7	11·0	12·8	12·2	14·5	10·5	21·0	4·7
30	26·8		12·0	14·0	11·7	13·0	12·0	12·4	17·5	12·0	16·5	3·2
31	30·0		15·0		11·0		12·5	14·0		13·5		9·2
Means	10′·3	10′·7	13′·1	15′·6	13′·3	12′·6	13′·3	14′·0	14′·4	13′·1	11′·2	11′·0

The mean of the twelve monthly values is 12′·72.

TABLE VI.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC DECLINATION WEST from HOURLY ORDINATES, on FIVE SELECTED QUIET DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five quiet days in each month, selected by the International Committee for comparison with results at other Observatories. The results in each case are diminished by the smallest hourly value. The days included are :—

January 8, 11, 17, 18, 19.	April 13, 14, 15, 20, 24.	July 7, 19, 20, 21, 22.	October 11, 12, 13, 14, 27.
February 8, 19, 22, 25, 26.	May 7, 8, 9, 26, 27.	August 1, 18, 19, 21, 30.	November 5, 6, 7, 26, 27.
March 5, 6, 19, 24, 25.	June 2, 3, 4, 29, 30.	September 11, 12, 15, 25, 26.	December 5, 6, 28, 29, 30.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	0·2	1·4	3·0	4·5	5·9	4·4	4·1	5·5	2·6	2·8	0·2	0·3	2·65
1h.	0·7	1·4	2·9	4·4	5·4	3·8	4·0	5·5	3·0	2·6	0·9	0·4	2·66
2	1·0	1·4	3·1	4·2	4·5	3·7	3·7	5·4	3·0	2·4	0·8	0·3	2·53
3	1·4	1·4	2·8	4·3	3·9	3·3	3·1	4·6	2·5	2·7	1·2	0·4	2·37
4	1·8	1·4	2·8	3·2	2·6	2·2	2·0	2·8	1·9	2·7	0·4	0·4	1·76
5	1·3	1·2	2·5	3·0	1·5	0·7	0·7	1·3	1·7	2·6	0·4	0·2	1·17
6	1·1	1·0	1·8	2·0	0·5	0·1	0·4	0·4	1·4	2·2	0·5	0·1	0·70
7	1·0	0·6	0·9	0·5	0·0	0·1	0·0	0·0	0·1	0·8	0·5	0·3	0·14
8	0·8	0·0	0·0	0·0	0·8	0·0	0·3	0·7	0·0	0·0	0·0	0·5	0·00
9	0·0	0·3	0·9	2·2	3·1	1·6	2·1	3·2	1·8	0·7	0·4	1·3	1·21
10	0·8	2·0	3·5	5·3	6·9	4·1	4·6	5·9	4·8	3·1	2·4	2·0	3·55
11	2·0	3·8	6·8	8·6	11·3	7·5	8·1	9·8	7·9	6·2	4·7	2·8	6·41
Noon	4·2	5·2	8·8	11·4	13·4	10·4	10·6	11·8	9·5	8·6	5·8	2·8	8·28
13	5·5	5·5	9·9	11·6	13·7	11·8	11·5	12·4	10·1	8·8	5·2	2·9	8·82
14	5·0	5·5	8·5	10·1	11·9	11·1	10·8	11·0	8·7	8·5	4·5	2·4	7·91
15	3·9	4·7	6·5	8·1	9·6	10·0	8·9	8·8	7·1	7·0	3·7	1·9	6·42
16	3·0	4·0	4·9	6·7	7·6	8·0	7·4	6·7	5·6	6·0	3·1	1·3	5·10
17	2·3	3·6	4·3	5·6	6·1	6·6	5·8	5·2	4·9	5·5	2·7	1·1	4·21
18	2·3	3·1	4·1	4·9	5·7	5·9	5·1	4·7	4·4	4·5	2·5	1·0	3·76
19	1·7	2·5	3·3	5·2	6·0	5·7	5·2	5·0	4·4	4·2	2·0	0·7	3·57
20	1·4	1·9	1·7	5·0	6·4	5·5	5·1	5·4	3·6	3·8	1·5	0·4	3·21
21	0·9	1·6	1·9	4·7	6·4	5·6	5·3	5·0	3·2	2·9	1·0	0·2	2·97
22	0·4	1·5	2·1	4·3	6·2	5·5	5·1	5·1	2·3	3·3	0·6	0·1	2·78
23	0·3	1·4	2·6	4·3	6·1	4·9	4·8	4·7	1·1	3·0	0·1	0·0	2·51
Means	1′·75	2′·35	3′·73	5′·17	6′·06	5′·10	4′·95	5′·45	3′·98	3′·95	1′·88	0′·99	3′·53

TABLE VII.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC DECLINATION WEST from HOURLY ORDINATES, on FIVE SELECTED DISTURBED DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five disturbed days in each month, selected by the International Committee for comparison with results at other Observatories. The results in each case are diminished by the smallest hourly value. The days included are :—

January 5, 12, 29, 30, 31.	April 5, 6, 11, 19, 26.	July 8, 11, 25, 28, 29.	October 2, 8, 16, 17, 31.
February 5, 6, 12, 13, 15.	May 1, 16, 17, 18, 19.	August 15, 16, 25, 26, 27.	November 11, 12, 15, 23, 29.
March 8, 11, 12, 15, 16.	June 9, 10, 11, 12, 15.	September 1, 18, 19, 20, 21.	December 1, 8, 9, 25, 26.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	3·3	4·0	4·3	0·0	0·0	1·0	2·3	0·0	1·7	4·5	3·2	10·1	0·16
1h.	7·7	1·6	2·6	1·1	1·8	4·5	3·9	1·7	0·0	4·4	4·5	10·0	0·94
2	7·8	0·0	0·0	1·1	3·0	3·7	3·8	4·0	0·9	5·7	4·3	10·7	1·04
3	8·2	1·6	1·8	3·4	2·5	1·5	2·9	5·0	2·3	2·4	5·2	11·2	1·29
4	8·8	3·2	2·9	5·4	2·2	0·4	4·1	2·6	1·7	8·2	7·8	11·4	2·18
5	8·5	6·6	5·2	7·5	1·8	0·0	1·9	2·0	4·0	7·2	10·1	13·3	2·96
6	8·6	7·0	5·7	5·6	1·0	0·3	0·0	0·6	5·8	6·8	8·6	15·2	2·72
7	8·7	7·1	6·2	5·1	1·0	0·4	0·0	1·2	6·3	6·1	7·9	14·5	2·67
8	8·8	7·0	5·9	3·7	1·8	0·7	1·0	2·8	5·7	5·0	7·8	13·9	2·63
9	8·8	8·0	6·8	5·7	4·4	3·0	2·7	3·6	6·5	7·0	9·0	14·3	3·94
10	9·5	9·4	9·2	10·5	6·1	5·0	5·2	5·7	8·7	8·8	8·7	16·0	5·86
11	10·7	9·8	11·9	15·0	8·4	8·3	9·0	10·5	11·2	11·4	11·2	16·7	8·46
Noon	12·9	10·0	14·6	17·7	10·4	10·5	11·4	12·4	12·5	13·3	11·5	18·7	10·28
13	14·2	10·9	15·2	18·1	11·3	11·5	12·7	12·6	11·8	13·2	12·6	18·7	10·86
14	15·2	11·5	15·1	16·3	11·4	11·9	13·0	11·9	11·1	12·2	10·4	18·1	10·46
15	13·6	11·9	12·4	15·2	9·7	11·1	12·0	11·5	10·1	9·0	10·6	15·9	9·21
16	13·4	12·7	10·3	13·3	9·0	9·2	10·8	9·0	7·1	9·2	9·9	11·7	7·76
17	12·4	11·8	9·1	11·6	8·1	7·2	8·0	7·6	5·7	7·0	4·1	10·4	5·87
18	12·2	12·4	5·4	7·6	7·2	6·3	4·1	5·1	3·2	5·1	5·4	7·6	4·09
19	10·7	11·1	7·0	5·8	3·6	4·8	2·3	4·2	2·2	0·0	3·0	2·6	2·07
20	7·8	9·6	6·6	5·3	3·7	4·1	1·9	4·9	3·8	2·1	2·9	2·4	1·88
21	2·3	7·6	6·6	6·4	3·7	4·3	2·8	4·5	0·3	2·9	4·1	0·0	1·08
22	1·3	5·1	6·6	2·7	3·3	3·0	3·8	2·2	1·6	2·8	0·0	3·8	0·31
23	0·0	3·7	5·9	1·3	1·4	1·7	2·1	1·0	0·9	3·5	1·5	9·5	0·00
Means	8′·97	7′·65	7′·39	7′·73	4′·87	4′·77	5′·07	5′·28	5′·21	6′·58	6′·85	11′·53	4′·11

TABLE VIII.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC NORTH FORCE.
(*The results are expressed in Gauss Units and in each case diminished by the smallest hourly value*).

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	23γ	19γ	34γ	42γ	35γ	37γ	36γ	44γ	47γ	43γ	24γ	10γ	31·5γ
1h.	24	20	34	42	31	34	35	41	45	41	23	11	30·5
2	23	19	32	42	30	35	37	39	46	41	25	11	30·4
3	21	21	31	40	29	34	39	37	45	42	24	15	30·2
4	24	24	35	40	31	37	39	39	45	41	27	18	32·0
5	27	25	36	41	30	37	38	40	42	45	31	20	33·0
6	29	27	36	40	26	32	30	32	36	44	31	20	30·6
7	29	26	32	36	19	23	22	24	26	35	26	16	24·9
8	26	21	25	28	12	13	15	13	16	24	18	12	17·3
9	21	14	15	15	7	6	7	4	6	9	10	7	8·8
10	15	8	4	5	2	1	2	0	0	2	3	6	2·7
11	6	3	0	0	0	0	0	1	1	0	0	4	0·0
Noon	0	0	2	0	2	5	3	7	8	2	0	2	1·3
13h.	1	1	6	7	7	11	7	10	13	7	4	0	4·9
14	1	3	10	16	15	20	16	17	18	11	7	1	10·0
15	3	4	16	22	22	25	29	27	24	16	12	2	15·5
16	8	7	20	30	29	28	36	36	30	23	17	5	21·1
17	11	11	23	39	36	38	40	42	35	30	23	1	26·1
18	13	16	29	43	42	41	44	51	40	35	22	9	30·8
19	17	13	33	44	43	44	45	49	45	41	25	13	33·0
20	20	17	35	46	38	40	43	48	50	46	25	12	33·7
21	22	18	35	43	36	39	42	48	49	43	28	14	33·5
22	21	21	36	43	35	38	37	44	46	45	28	15	32·8
23	23	19	35	43	34	40	37	44	47	46	25	13	32·5
Means	17·0	14·9	24·8	31·1	24·6	27·4	28·3	30·7	31·7	29·7	19·1	9·9	22·8

TABLE IX.—DIURNAL RANGE of MAGNETIC NORTH FORCE, on each CIVIL DAY, as deduced from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTERS.
(*The results are corrected for Temperature and are expressed in Gauss units.*)

1918.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	29γ	60γ	34γ	57γ	67γ	52γ	76γ	48γ	74γ	130γ	49γ	59γ
2	25	24	34	57	51	45	38	43	70	69	46	33
3	36	29	60	60	42	45	66	73	57	50	39	74
4	41	29	31	57	69	33	46	55	92	91	36	34
5	46	68	49	93	77	48	41	56	74	62	31	16
6	53	87	37	82	31	53	42	76	63	71	23	14
7	25	36	41	77	49	53	71	59	45	46	28	63
8	29	26	107	54	51	69	56	96	88	—	22	114
9	25	35	31	64	54	77	91	74	52	—	29	78
10	40	55	54	72	44	142	60	54	47	47	44	72
11	24	31	28	93	41	72	66	52	47	47	75	34
12	59	91	65	35	60	57	60	62	54	38	83	42
13	53	44	38	57	54	53	62	39	56	42	53	45
14	38	75	26	41	64	75	69	47	71	43	78	37
15	28	37	64	46	67	98	60	159	57	93	47	36
16	24	75	68	33	116	67	59	107	61	173	83	36
17	36	38	46	47	124	64	57	52	78	102	53	32
18	35	31	62	59	66	60	71	35	69	76	40	27
19	33	38	46	89	71	41	39	47	125	64	48	74
20	50	38	52	44	78	42	41	57	95	99	38	47
21	62	68	59	60	60	45	28	60	140	47	62	27
22	42	27	48	47	51	44	40	61	73	85	44	31
23	31	46	61	60	38	42	52	66	59	69	95	48
24	65	37	41	49	39	45	45	70	76	56	65	29
25	37	26	47	47	31	38	52	97	50	48	25	134
26	31	27	68	88	30	47	62	87	44	42	23	110
27	57	35	75	48	34	58	66	84	71	38	27	20
28	35	62	41	—	41	43	123	70	66	54	32	22
29	70		71	—	38	41	70	62	69	67	94	24
30	98		47	94	51	—	64	47	67	48	50	17
31	60		54		46		53	64		104		38
Means	42·5	45·5	51·1	61·1	56·0	52·4	58·9	66·4	69·7	63·5	48·7	47·3

The mean of the twelve monthly values is 55·3 γ.

TABLE X.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC NORTH FORCE from HOURLY ORDINATES, on FIVE SELECTED QUIET DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five quiet days in each month, selected by the International Committee for comparison with results at other Observatories. The results are corrected for Temperature and in each case diminished by the smallest hourly value. The days included are :—

January	8, 11, 17, 18, 19.	April	13, 14, 15, 20, 24.	July	7, 19, 20, 21, 22.	October	11, 12, 13, 14, 27.
February	8, 19, 22, 25, 26.	May	7, 8, 9, 26, 27.	August	1, 18, 19, 21, 30.	November	5, 6, 7, 26, 27.
March	5, 6, 19, 24, 25.	June	2, 3, 4, 29, 30.	September	11, 12, 15, 25, 26.	December	5, 6, 28, 29, 30.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	21γ	22γ	35γ	34γ	30γ	32γ	29γ	35γ	38γ	33γ	17γ	7γ	26·9γ
1h.	21	22	34	34	32	31	30	27	41	32	15	7	26·3
2	21	22	33	36	30	30	31	27	38	31	15	8	25·9
3	21	23	34	34	28	31	31	28	37	31	16	8	25·9
4	23	24	36	36	33	34	32	31	36	34	20	10	28·2
5	26	25	37	38	34	37	30	33	36	34	21	11	29·3
6	27	26	39	38	29	34	21	28	35	35	23	12	28·0
7	27	25	35	35	20	30	16	20	28	30	21	9	23·8
8	26	21	27	24	12	25	8	11	19	26	17	5	17·5
9	20	12	16	10	4	14	2	2	9	12	10	1	8·4
10	11	7	8	1	1	3	1	0	2	4	2	0	2·4
11	4	2	1	0	0	1	0	3	0	0	0	0	0·0
Noon	0	0	0	6	1	0	4	6	5	1	1	2	1·3
13h.	2	1	6	10	5	4	9	7	8	6	4	3	4·5
14	5	2	14	18	13	17	16	11	15	11	8	4	10·3
15	10	4	23	29	20	24	28	21	23	17	11	5	17·0
16	14	8	27	34	28	28	29	29	30	23	16	8	21·9
17	20	14	31	41	32	31	30	35	36	30	19	11	26·6
18	20	18	35	42	34	37	34	35	42	34	21	13	29·5
19	22	22	38	44	35	39	34	40	46	37	22	13	31·8
20	23	23	39	46	34	37	35	42	48	35	23	13	32·3
21	22	24	37	46	33	35	35	41	46	40	23	13	32·0
22	24	24	40	45	35	34	36	41	50	38	23	12	32·6
23	24	24	39	42	32	33	37	43	44	37	22	11	31·4
Means	18·1	16·5	27·7	30·1	23·1	25·9	23·3	24·8	29·7	25·5	15·4	7·7	21·4

TABLE XI.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC NORTH FORCE from HOURLY ORDINATES, on FIVE SELECTED DISTURBED DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five disturbed days in each month, selected by the International Committee for comparison with results at other Observatories. The results are corrected for Temperature and in each case diminished by the smallest hourly value. The days included are :—

January	5, 12, 29, 30, 31.	April	5, 6, 11, 19, 26.	July	8, 11, 25, 28, 29.	October	2, 8, 16, 17, 31.
February	5, 6, 12, 13, 15.	May	1, 16, 17, 18, 19.	August	15, 16, 25, 26, 27.	November	11, 12, 15, 23, 29.
March	8, 11, 12, 15, 16.	June	9, 10, 11, 12, 15.	September	1, 18, 19, 20, 21.	December	1, 8, 9, 25, 26.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	29γ	23γ	36γ	69γ	33γ	53γ	43γ	80γ	75γ	77γ	39γ	30γ	42·8γ
1h.	37	25	47	60	26	40	42	74	76	75	40	37	42·2
2	29	21	33	65	25	50	46	69	78	75	41	33	41·0
3	28	22	20	62	20	54	51	67	73	80	37	46	40·6
4	36	27	40	59	20	48	50	66	76	71	44	47	42·6
5	40	30	32	58	18	46	49	74	72	85	47	47	43·7
6	42	26	34	51	13	41	42	70	52	63	47	46	37·8
7	40	29	26	45	10	28	41	51	29	43	35	40	28·6
8	34	18	22	42	2	9	32	38	20	29	13	38	18·7
9	28	9	15	20	0	6	21	19	10	6	9	30	8·3
10	27	8	2	11	2	0	5	10	0	0	3	25	1·6
11	14	5	0	5	0	6	0	0	4	17	1	21	0·0
Noon	3	3	2	0	4	21	6	27	16	15	0	14	3·2
13h.	4	7	7	7	12	25	14	37	19	19	1	14	7·7
14	4	11	4	22	20	32	23	41	19	14	9	12	11·5
15	3	6	10	27	37	32	35	50	29	31	11	17	17·9
16	9	4	18	32	37	41	48	65	50	35	10	27	25·2
17	10	2	19	41	47	47	57	78	47	48	27	0	29·1
18	0	10	30	53	63	50	66	103	55	53	20	11	36·7
19	11	0	26	51	61	60	55	92	68	66	19	19	37·9
20	19	9	26	60	45	48	44	84	67	77	15	25	37·2
21	30	8	26	51	37	47	46	75	79	69	28	30	37·7
22	23	14	30	48	29	46	37	75	64	65	35	32	35·4
23	27	14	33	56	27	60	35	84	68	71	24	25	37·6
Means	22·0	13·8	22·4	41·5	24·5	37·1	37·0	59·5	47·8	49·3	23·1	27·7	22·7

TABLE XII.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of VERTICAL MAGNETIC FORCE.

(*The results are expressed in Gauss units, and in each case diminished by the smallest hourly value.*)

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	7γ	6γ	13γ	14γ	12γ	14γ	15γ	13γ	8γ	4γ	2γ	1γ	8·5γ
1h.	5	3	9	13	12	13	13	12	5	3	1	1	6·9
2	5	2	7	16	11	13	14	12	6	3	1	1	7·0
3	5	1	11	15	14	14	16	11	5	3	2	1	7·6
4	6	1	12	16	16	15	18	13	6	2	2	0	8·3
5	6	1	14	15	18	15	17	16	7	2	1	2	8·9
6	6	1	15	17	20	15	14	18	9	4	0	1	9·4
7	5	2	16	19	17	15	14	18	11	7	1	0	9·8
8	5	3	13	16	14	11	11	15	10	7	2	1	8·4
9	4	3	9	10	7	5	6	10	6	5	1	3	5·2
10	0	0	4	4	3	1	2	5	2	2	0	3	1·6
11	1	0	0	0	1	0	0	0	0	0	2	3	0·0
Noon	3	2	3	0	0	1	0	3	2	3	6	7	1·9
13h.	7	4	11	7	8	7	5	8	8	8	10	10	7·2
14	11	10	16	17	18	14	13	14	15	15	13	13	13·5
15	15	14	23	27	25	20	20	21	23	20	15	15	19·2
16	17	15	27	29	29	23	25	25	29	24	16	16	22·3
17	18	17	29	33	29	27	29	27	28	22	16	20	24·0
18	17	17	25	34	29	27	30	27	25	19	15	20	23·2
19	15	16	21	34	30	26	29	27	24	19	15	16	22·1
20	15	16	21	30	27	24	27	23	20	16	9	13	19·5
21	14	15	20	26	24	19	22	23	17	14	8	10	17·1
22	12	12	19	19	18	15	19	19	13	11	8	8	13·8
23	9	8	17	17	17	13	16	16	13	7	5	4	11·2
Means.	8·7	7·0	14·8	17·8	16·6	14·5	15·6	15·7	12·2	9·2	6·3	7·0	11·5

TABLE XIII.—DIURNAL RANGE of VERTICAL MAGNETIC FORCE, on each CIVIL DAY, as deduced from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTERS.

(*The results are corrected for Temperature and expressed in Gauss units.*)

1918.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	11γ	25γ	22γ	36γ	65γ	—	45γ	18γ	47γ	46γ	14γ	61γ
2	12	21	20	19	35	—	33	34	20	38	18	13
3	20	11	46	30	33	37γ	19	44	45	46	9	38
4	15	18	18	48	45	32	27	37	41	38	15	18
5	24	22	15	62	49	27	18	46	52	27	18	10
6	24	56	13	77	44	31	33	35	48	30	10	6
7	16	18	18	—	33	24	29	32	30	28	13	27
8	10	7	193	45	28	26	40	40	40	84	13	130
9	16	29	20	37	24	52	35	48	20	41	10	56
10	17	29	53	36	31	119	33	27	19	19	33	58
11	17	31	43	99	30	25	36	35	18	14	69	28
12	33	66	59	78	36	84	32	27	20	22	62	20
13	23	56	27	37	34	30	31	30	36	17	38	34
14	35	40	31	27	29	33	37	30	26	17	18	20
15	26	43	24	36	56	37	36	94	20	47	52	18
16	12	15	54	34	145	43	36	48	51	163	44	26
17	17	24	29	29	134	40	39	12	53	62	28	10
18	18	14	25	40	42	22	25	13	30	36	20	12
19	10	9	27	50	46	18	24	27	66	61	20	38
20	18	18	21	12	36	26	25	32	44	45	10	33
21	23	27	55	23	30	46	36	31	106	30	21	20
22	17	12	44	38	31	14	34	20	45	28	10	15
23	14	17	43	37	28	26	28	29	47	30	86	34
24	22	24	29	24	27	27	29	57	37	20	28	18
25	13	16	31	40	41	29	88	76	25	23	13	146
26	8	18	27	89	43	48	43	66	21	10	8	36
27	18	28	38	29	27	32	24	28	45	12	14	17
28	15	41	24	28	24	21	64	25	43	42	16	7
29	50		36	25	52	24	74	24	26	12	81	8
30	64		—	49	37	31	40	27	54	14	24	8
31	73		—		37		27	54		53		15
Means	22·3	26·3	37·4	41·9	43·6	35·9	36·1	37·0	39·2	37·3	27·2	31·6

The mean of the twelve monthly values is 34·36γ.

TABLE XIV.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of VERTICAL MAGNETIC FORCE from HOURLY ORDINATES, on FIVE SELECTED QUIET DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five quiet days in each month, selected by the International Committee for comparison with results at other Observatories. The results in each case are diminished by the smallest hourly value. The days included are :—

January 8, 11, 17, 18, 19.	April 13, 14, 15, 20, 24.	July 7, 19, 20, 21, 22.	October 11, 12, 13, 14, 27.
February 8, 19, 22, 25, 26.	May 7, 8, 9, 26, 27.	August 1, 18, 19, 21, 30.	November 5, 6, 7, 26, 27.
March 5, 6, 19, 24, 25.	June .. 3, 4, 29, 30.	September 11, 12, 15, 25, 26.	December 5, 6, 28, 29, 30.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	5γ	6γ	17γ	22γ	21γ	22γ	23γ	16γ	11γ	13γ	8γ	2γ	13·1γ
1h.	4	5	17	24	19	20	23	16	11	13	8	2	12·8
2	5	5	18	25	19	22	23	16	9	14	7	1	13·0
3	5	5	17	25	21	24	23	16	9	14	7	1	13·2
4	6	5	17	24	24	26	26	17	12	14	8	0	14·2
5	7	5	17	24	25	23	25	19	16	15	8	2	14·8
6	5	4	20	25	25	21	21	20	15	14	7	1	14·1
7	3	5	21	25	21	22	19	20	15	15	7	0	13·7
8	7	7	18	20	15	16	18	18	12	15	7	0	12·1
9	8	6	12	12	9	8	9	11	8	11	5	0	7·6
10	0	3	5	6	2	3	2	6	3	5	0	0	2·2
11	0	0	0	0	0	2	1	0	0	0	3	2	0·0
Noon	3	3	1	1	0	0	0	0	1	0	7	3	0·9
13h.	7	5	6	6	9	2	4	3	3	2	7	2	4·0
14	9	7	11	16	15	6	12	10	9	11	9	2	9·1
15	11	10	17	21	23	12	21	14	14	12	11	2	13·3
16	12	11	22	24	29	16	27	18	16	15	13	3	16·5
17	11	11	20	25	29	15	27	18	15	15	11	2	15·9
18	8	9	20	26	26	13	24	16	13	14	9	1	14·2
19	8	8	20	26	26	20	23	16	14	15	8	0	14·6
20	8	8	21	23	23	19	22	16	15	15	8	0	14·1
21	8	8	20	24	22	19	23	16	16	14	9	0	14·2
22	6	6	18	21	22	18	22	15	13	14	9	2	13·1
23	5	6	18	20	21	14	21	13	11	13	7	0	11·7
Means	6·3	6·2	15·5	19·4	18·6	15·1	18·3	13·8	10·9	11·8	7·6	1·2	11·4

TABLE XV.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of VERTICAL MAGNETIC FORCE from HOURLY ORDINATES, on FIVE SELECTED DISTURBED DAYS in each MONTH.

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five disturbed days in each month, selected by the International Committee for comparison with results at other Observatories. The results in each case are diminished by the smallest hourly value. The days included are :—

January 5, 12, 29, 30, 31.	April 5, 6, 11, 19, 26.	July 8, 11, 25, 28, 29.	October 2, 8, 16, 17, 31.
February 5, 6, 12, 13, 15.	May 1, 16, 17, 18, 19.	August 15, 16, 25, 26, 27.	November 11, 12, 15, 23, 29.
March 8, 11, 12, 15, 16.	June 9, 10, 11, 12, 15.	September 1, 18, 19, 20, 21.	December 1, 8, 9 25, 26.

1918.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	2γ	13γ	32γ	1γ	3γ	11γ	7γ	13γ	12γ	18γ	8γ	0γ	5·8γ
1h.	0	6	14	0	2	10	4	15	8	19	5	3	3·0
2	1	4	0	0	0	0	6	8	8	15	3	5	0·0
3	4	0	16	2	5	3	6	0	0	9	9	3	0·6
4	5	1	21	5	10	6	8	5	3	6	5	3	2·3
5	5	2	28	2	18	10	4	14	1	0	1	7	3·5
6	5	4	28	8	25	16	5	21	3	4	0	5	6·1
7	3	7	31	16	26	17	9	23	5	12	3	6	9·0
8	3	8	30	17	25	16	10	21	8	16	7	8	9·9
9	3	8	29	13	21	11	7	19	8	16	11	9	8·7
10	0	6	25	7	16	9	3	12	9	22	14	11	7·0
11	2	8	23	7	11	6	0	8	9	23	17	12	6·3
Noon	4	11	28	10	18	10	1	16	16	32	22	21	11·6
13h.	9	15	36	20	26	27	9	22	28	41	30	25	19·8
14	18	22	44	35	37	35	19	28	33	56	36	32	28·7
15	24	31	54	45	44	36	23	34	36	67	38	40	35·1
16	27	36	59	52	42	42	35	37	43	65	39	45	39·3
17	26	38	60	61	40	46	46	39	43	59	43	55	42·1
18	31	38	58	60	43	46	52	41	42	51	44	55	42·6
19	29	37	52	57	49	43	48	42	36	49	49	40	40·1
20	29	31	49	46	45	38	39	44	25	41	45	28	34·1
21	25	32	46	30	33	26	24	34	17	36	37	17	25·6
22	20	28	45	26	12	17	19	29	8	28	25	13	18·3
23	10	24	43	18	1	12	15	27	13	23	15	6	13·1
Means	11·9	17·1	35·5	22·4	23·0	20·5	16·6	23·0	17·3	29·5	21·1	18·7	17·2

TABLE XVI.—VALUE of the COEFFICIENTS and PHASE ANGLES in the PERIODICAL EXPRESSION.

$$V_t = m + a_1 \cos t + b_1 \sin t + a_2 \cos 2t + b_2 \sin 2t + a_3 \cos 3t + b_3 \sin 3t + a_4 \cos 4t + b_4 \sin 4t$$
$$= m + c_1 \sin (t + a_1) + c_2 \sin (2t + a_2) + c_3 \sin (3t + a_3) + c_4 \sin (4t + a_4),$$

in which t represents the time from Greenwich mean midnight converted into arc at the rate of 15° to each hour, and V_t the annual or monthly mean hourly value of the magnetic element at time t, as given in Tables IV, VIII and XII.

The coefficients, a, b, c, are given in units of 1 γ (0·00001 C.G.S. unit) for N.F. and V.F. and in minutes of arc ($1' = 5{\cdot}39\ \gamma$) for Declination.

If the inequalities are expressed relative to time reckoned from apparent midnight, the new phase angles a'_1, a'_2, a'_3, a'_4 may be obtained from a_1, a_2, a_3, a_4 by adding respectively a, $2a$, $3a$, $4a$, the value for each month being as follows :—

Jan.	+ 2°·19′.	April	+ 0°· 4′.	July	+ 1°·21′.	Oct.	− 3°·28′.
Feb.	+ 3°·29′.	May	− 0°·52′.	Aug.	+ 0°·59′.	Nov.	− 3°·47′.
Mar.	+ 2°·12′.	June	+ 0°· 4′.	Sept.	− 1°·11′.	Dec.	− 1°· 6′.

Month, 1918.	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	c_1	a_1	c_2	a_2	c_3	a_3	c_4	a_4
	DECLINATION WEST.															
	′	′	′	′	′	′	′	′	′	°	′	°	′	°	′	°
January ..	−2·18	−0·80	−0·04	+1·37	−0·48	−0·18	+0·20	+0·33	2·32	249·9	1·37	358·9	0·51	249·4	0·39	80·5
February..	−2·46	−1·26	+0·12	+0·86	−0·33	−0·17	+0·30	+0·21	2·76	242·8	0·87	7·7	0·37	242·6	0·37	54·9
March	−2·92	−1·56	+1·57	+1·35	−0·94	−0·51	+0·51	+0·09	3·31	241·9	2·07	49·4	1·07	241·4	0·52	80·5
April	−3·34	−2·18	+1·36	+1·63	−1·17	−0·63	+0·40	−0·03	3·99	236·9	2·12	40·0	1·33	241·9	0·40	93·9
May	−2·48	−2·47	+1·98	+1·26	−0·90	−0·21	+0·06	−0·07	3·50	225·2	2·35	57·6	0·92	256·7	0·09	140·0
June	−2·50	−2·81	+2·04	+1·09	−0·77	−0·22	−0·01	+0·12	3·76	221·7	2·31	61·9	0·80	253·7	0·12	355·2
July	−2·62	−2·82	+1·93	+1·31	−0·57	−0·26	+0·03	+0·04	3·85	222·9	2·33	55·8	0·63	245·3	0·05	34·5
August ..	−3·05	−2·32	+2·25	+1·33	−0·97	−0·05	+0·04	+0·11	3·83	232·8	2·61	59·4	0·97	266·9	0·12	20·7
September	−3·33	−1·35	+1·83	+1·04	−0·83	−0·20	+0·46	−0·12	3·59	247·9	2·10	70·4	0·85	256·1	0·48	104·4
October ..	−2·94	−0·92	+1·15	+1·61	−0·86	−0·37	+0·52	−0·17	3·08	252·7	1·98	35·4	0·94	246·6	0·55	108·3
November.	−2·42	−0·11	+0·76	+1·77	−0·51	−0·09	+0·22	+0·05	2·42	267·3	1·40	32·9	0·52	260·5	0·23	76·7
December.	−2·34	+0·67	+0·59	+0·89	+0·21	+0·04	+0·31	−0·03	2·43	285·9	1·07	33·6	0·21	79·8	0·31	96·1
For the Year	−2·72	−1·48	+1·31	+1·24	−0·68	−0·24	+0·25	+0·04	3·10	241·4	1·80	46·5	0·72	250·6	0·25	80·2
	NORTH FORCE.															
January ..	+ 8·2	+ 6·4	− 4·1	− 3·7	+ 2·0	− 0·3	− 0·2	+ 0·4	10·4	52·0	5·5	228·4	2·0	97·3	0·4	337·4
February .	+ 7·7	+ 5·2	− 4·7	− 1·6	+ 1·2	− 1·2	+ 0·4	+ 0·1	9·3	56·1	5·0	250·8	1·7	136·6	0·4	69·1
March	+13·8	+ 1·2	− 6·7	− 0·5	+ 1·3	− 2·6	+ 0·4	+ 1·2	13·9	85·1	6·7	265·9	2·9	153·9	1·3	18·6
April	+17·0	− 2·2	− 9·1	+ 0·9	+ 2·3	− 1·4	+ 0·5	+ 1·3	17·1	97·4	9·1	275·8	2·7	120·7	1·4	20·0
May	+13·3	− 7·0	− 7·2	+ 2·1	+ 0·6	− 0·3	+ 1·2	− 0·1	15·0	117·8	7·5	286·4	0·7	113·4	1·2	96·5
June	+14·4	− 5·7	− 7·1	+ 3·4	− 0·3	− 2·0	+ 1·4	+ 0·1	15·5	111·7	7·9	295·8	2·0	187·9	1·4	87·2
July	+14·9	− 6·5	− 8·6	+ 4·1	+ 0·1	− 0·5	− 0·4	− 0·6	16·3	113·7	9·5	295·7	0·5	165·7	0·7	211·8
August ...	+17·3	− 8·3	− 7·7	+ 3·2	− 0·2	− 1·2	+ 2·0	− 0·3	19·2	115·6	8·3	292·5	1·2	190·8	2·0	99·7
September	+19·2	− 4·4	− 5·5	+ 3·5	− 1·4	− 2·4	+ 0·7	+ 0·9	19·7	102·8	6·5	302·1	2·8	211·1	1·1	37·8
October ..	+18·9	+ 0·2	− 7·7	+ 0·5	0·0	− 3·3	+ 1·5	+ 0·9	18·9	89·4	7·7	273·4	3·3	179·4	1·7	59·0
November.	+10·4	+ 1·0	− 6·7	+ 0·1	+ 0·9	− 2·4	+ 0·5	− 0·1	10·4	84·3	6·7	271·1	2·6	158·7	0·5	98·0
December .	+ 5·1	+ 3·8	− 3·3	− 1·4	− 1·2	− 1·5	+ 0·2	− 0·4	6·4	53·0	3·6	256·4	1·9	218·6	0·4	155·4
For the Year	+13·2	− 1·4	− 6·4	+ 0·9	+ 0·3	− 1·5	+ 0·8	+ 0·3	13·3	95·8	6·5	277·6	1·5	168·4	0·9	70·8
	VERTICAL FORCE.															
January ..	+ 1·1	− 5·7	− 3·0	+ 0·8	+ 0·8	− 1·0	− 0·6	− 0·1	5·8	168·7	3·1	285·4	1·3	140·0	0·6	263·4
February .	+ 1·0	− 7·4	− 2·6	− 0·5	+ 0·9	− 0·5	− 0·8	+ 0·1	7·5	172·1	2·6	259·3	1·0	120·0	0·8	279·1
March	+ 2·0	− 6·0	− 5·7	+ 1·0	+ 2·7	− 2·3	− 0·6	− 0·5	6·3	161·6	5·8	280·3	3·5	129·9	0·8	230·7
April	+ 4·1	− 7·8	− 8·4	+ 1·0	+ 2·2	− 0·2	− 1·4	+ 1·3	8·8	152·4	8·5	276·9	2·2	95·9	1·9	312·8
May	+ 3·4	− 6·6	− 7·9	+ 1·5	+ 1·6	− 1·9	− 0·9	+ 0·4	7·4	152·7	8·0	280·9	2·5	139·6	1·0	294·8
June	+ 4·0	− 5·7	− 6·5	+ 2·0	+ 1·3	− 0·5	− 0·1	+ 0·9	7·0	145·3	6·8	287·2	1·4	109·6	0·9	354·9
July	+ 5·2	− 6·5	− 7·1	+ 1·5	+ 1·0	− 0·1	− 0·6	0·0	8·3	141·4	7·3	282·3	1·0	93·0	0·6	270·0
August ...	+ 3·2	− 5·4	− 6·7	+ 0·1	+ 2·1	− 1·3	− 0·4	+ 0·5	6·3	149·8	6·7	271·0	2·5	122·1	0·6	322·7
September	+ 0·5	− 8·4	− 5·8	+ 1·1	+ 2·8	− 0·9	− 0·7	+ 0·1	8·4	176·4	5·9	281·1	2·9	107·5	0·7	275·2
October ..	− 0·9	− 7·9	− 4·0	+ 0·9	+ 2·1	− 0·8	− 1·4	+ 0·5	8·0	186·3	4·1	283·0	2·2	111·1	1·5	290·9
November.	− 1·6	− 6·7	− 1·8	+ 1·7	+ 0·3	− 0·6	− 0·3	+ 0·1	6·9	193·5	2·5	313·1	0·7	152·1	0·3	298·1
December.	− 2·1	− 7·8	− 2·6	+ 0·9	− 0·1	+ 0·3	0·0	− 0·1	8·1	195·0	2·8	289·4	0·3	339·8	0·1	153·4
For the Year	+ 1·7	− 6·8	− 5·2	+ 1·0	+ 1·5	− 0·8	− 0·6	+ 0·3	7·0	166·4	5·3	281·1	1·7	118·4	0·7	293·9

TABLE XVII.—RESULTS of OBSERVATIONS of MAGNETIC DECLINATION, with DEDUCED VALUES of the BASE-LINE of the DECLINATION MAGNETOGRAMS.

Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
Jan. 1. 12. 10	14. 33·2	14. 28·3	Mar. 4. 12. 36	14. 34·4	14. 28·4	May 4. 7. 50	14. 24·2	14. 28·3
12. 40	34·1	28·5	5. 15. 20	33·7	28·6	6. 8. 10	25·2	27·2
2. 11. 15	32·6	28·4	15. 50	32·7	28·6	7. 8. 20	23·8	28·5
3. 11. 15	34·0	28·2	6. 14. 22	36·2	28·5	8. 53	24·7	28·7
4. 12. 22	34·4	28·4	14. 53	35·4	28·6	10. 11. 40	33·8	28·6
12. 50	34·4	28·4	8. 12. 5	34·0	28·6	12. 10	34·7	28·8
7. 16. 0	32·6	28·4	12. 32	34·0	28·5	11. 11. 45	32·3	28·3
8. 12. 20	35·1	28·4	9. 12. 45	35·0	28·4	13. 7. 48	22·7	28·4
12. 51	35·5	28·6	11. 11. 0	33·5	28·8	14. 11. 50	34·7	28·8
9. 14. 20	35·1	28·2	12. 14. 50	38·5	28·5	12. 18	36·1	28·5
10. 14. 30	36·8	28·5	15. 18	36·0	28·7	15. 8. 0	23·2	28·5
12. 12. 15	35·0	28·5	13. 10. 10	30·2	28·2	17. 11. 15	30·4	28·4
12. 45	36·5	28·5	15. 14. 36	34·0	28·2	12. 0	33·3	28·7
14. 13. 2	35·9	28·2	15. 4	34·8	28·4	18. 7. 24	23·1	28·3
15. 12. 25	33·6	28·4	16. 11. 0	31·2	28·3	21. 11. 36	29·9	28·6
12. 55	35·0	28·5	18. 11. 40	35·2	28·3	12. 8	31·5	28·5
16. 11. 48	34·5	28·6	19. 14. 45	33·7	28·8	22. 8. 10	24·7	28·0
12. 0	34·5	28·5	15. 28	32·3	28·8	23. 12. 0	34·9	28·4
17. 13. 0	35·6	28·5	20. 11. 20	35·0	28·2	17. 0	29·4	28·5
18. 12. 15	35·2	28·5	22. 14. 15	38·2	28·4	24. 11. 45	33·5	28·7
12. 45	35·7	28·7	14. 41	38·9	28·7	12. 18	32·4	28·6
19. 12. 30	34·3	28·6	23. 10. 33	30·2	28·2	25. 11. 0	34·8	28·5
21. 14. 10	36·6	28·1	25. 13. 12	37·0	28·5	27. 7. 55	24·4	28·4
22. 14. 38	34·9	28·1	25. 14. 8	39·2	28·6	28. 11. 22	30·7	28·7
15. 25	34·1	28·4	14. 37	37·9	28·4	28. 11. 50	32·4	28·8
23. 14. 20	34·0	28·3	28. 11. 0	32·3	28·5	29. 14. 12	35·3	28·8
24. 11. 0	30·9	27·9	30. 11. 37	34·7	28·7	30. 19. 20	26·2	28·1
25. 12. 21	34·3	28·3	14. 15	36·6	28·6	31. 13. 36	34·5	28·7
12. 48	34·9	28·4	14. 44	36·2	28·7	14. 8	34·8	28·8
28. 14. 8	34·9	27·9						
29. 14. 33	37·4	28·8	Apr. 2. 12. 0	35·3	28·6			
15. 0	36·5	28·7	14. 5	39·7	28·4			
30. 12. 57	37·7	28·9	3. 11. 50	33·0	28·2	June 1. 8. 30	20·8	27·8
31. 12. 30	37·0	28·3	4. 11. 9	33·1	28·5	2. 19. 30	28·9	28·4
			5. 13. 56	36·9	28·4	3. 13. 36	32·8	28·2
Feb. 1. 15. 0	33·6	28·6	14. 24	38·5	28·7	4. 13. 48	37·1	28·8
15. 30	33·4	28·4	6. 8. 0	23·5	28·3	14. 18	36·6	29·1
2. 10. 0	30·4	28·4	8. 13. 50	37·3	28·1	5. 8. 30	23·1	28·1
4. 11. 50	31·6	28·3	9. 14. 17	41·1	28·6	6. 19. 15	27·5	28·3
5. 14. 42	36·7	28·6	14. 44	36·8	28·2	7. 11. 45	33·5	28·5
15. 13	36·5	28·5	11. 13. 10	41·9	29·0	8. 8. 0	23·7	28·4
6. 14. 45	35·7	28·4	15. 40	39·1	28·9	10. 7. 30	20·4	28·4
8. 14. 42	34·2	28·5	12. 8. 24	23·4	28·4	11. 11. 15	30·2	28·2
15. 23	33·7	28·5	8. 52	25·1	28·2	11. 42	31·5	28·2
9. 12. 22	36·1	28·5	13. 11. 0	32·9	28·4	12. 8. 42	23·1	28·2
11. 15. 10	33·9	28·6	15. 8. 30	23·6	27·8	13. 19. 27	26·2	28·2
12. 16. 37	35·1	28·6	16. 13. 35	35·4	28·3	14. 11. 26	31·5	28·5
17. 12	35·7	28·3	14. 16	34·7	28·6	12. 0	33·9	28·7
13. 9. 30	31·6	28·3	17. 8. 8	24·3	28·1	15. 11. 50	32·9	29·0
15. 14. 24	36·5	28·5	19. 13. 32	36·2	28·7	16. 13. 50	31·1	28·7
15. 0	38·3	28·5	14. 0	35·3	28·5	17. 10. 0	26·4	28·3
15. 30	38·0	28·7	20. 8. 40	23·4	28·2	18. 13. 45	33·1	28·5
16. 9. 6	30·6	28·1	22. 11. 38	34·3	28·1	14. 24	33·5	28·8
18. 14. 33	34·6	28·6	23. 14. 3	36·2	28·5	19. 12. 8	31·6	28·6
19. 10. 22	31·9	28·2	14. 30	36·0	28·6	21. 11. 22	31·9	28·8
14. 30	34·4	28·6	24. 10. 57	33·7	28·2	11. 52	33·1	28·7
15. 16	34·0	28·7	25. 10. 10	27·7	28·4	22. 8. 48	23·5	28·2
20. 12. 48	34·2	28·6	26. 13. 20	41·5	28·9	23. 14. 40	34·0	28·4
22. 14. 50	33·2	28·5	13. 47	41·1	28·6	24. 8. 0	25·7	28·5
15. 28	32·4	28·4	27. 8. 35	24·7	28·5	15. 45	32·2	28·7
24. 13. 9	34·3	28·3	29. 11. 30	28·6	28·4	25. 10. 55	31·3	28·3
25. 14. 40	34·3	28·3	30. 13. 50	34·3	28·6	11. 24	32·7	28·4
26. 14. 38	36·2	28·3	14. 16	36·2	28·3	26. 8. 12	20·3	28·3
15. 5	35·8	28·6				20. 15	27·8	27·8
27. 12. 2	34·3	28·4	May 1. 8. 0	24·3	28·3	27. 8. 33	21·8	27·8
			2. 7. 55	25·1	28·3	28. 13. 40	34·1	28·3
Mar. 1. 14. 39	33·6	28·9	3. 13. 52	35·0	28·7	14. 7	34·6	28·6
15. 12	32·0	28·4	14. 24	36·8	28·8	29. 8. 18	22·7	28·2

TABLE XVII.—RESULTS of OBSERVATIONS of MAGNETIC DECLINATION, with DEDUCED VALUES of the BASE-LINE of the DECLINATION MAGNETOGRAMS—*continued*.

Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1918.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
July 1. 11. 39	14. 34·0	14. 29·1	Aug. 21. 11. 54	14. 34·4	14. 29·4	Oct. 29. 12. 20	14 27·7	14 28·7
15. 20	36·0	28·9	22. 11. 10	34·0	29·1	12. 50	28·7	28·7
2. 13. 52	31·8	28·6	11. 40	36·1	29·1	30. 11. 15	26·7	28·5
14. 22	32·0	28·7	28. 13. 52	34·0	29·1	31. 15. 10	25·1	28·3
3. 7. 43	24·3	29·0	14. 20	32·6	29·0			
19. 35	28·1	28·8	29. 11. 42	32·4	28·9	Nov. 1. 12. 3	29·5	29·5
4. 8. 5	25·2	28·7	30. 14. 24	32·4	29·4	12. 42	30·4	29·4
5. 14. 15	33·2	29·2	14. 51	31·0	29·4	5. 15. 3	28·0	29·1
14. 45	31·9	28·9	31. 8. 45	20·6	28·6	15. 33	27·5	29·5
6. 7. 45	23·7	28·7				6. 13. 12	28·7	29·1
7. 19. 4	29·0	29·0	Sept. 2. 8. 45	25·4	28·4	7. 14. 22	28·6	29·6
8. 10. 35	29·3	28·8	3. 13. 52	31·8	29·0	8. 12. 8	28·7	29·0
13. 35	34·4	29·1	14. 20	30·6	29·1	12. 38	29·2	29·3
9. 15. 8	34·6	29·1	5. 11. 36	32·6	29·0	9. 9. 30	23·3	28·5
15. 40	33·1	28·7	6. 14. 9	31·2	28·7	12. 11. 54	30·5	29·5
10. 10. 42	28·0	28·5	14. 35	32·0	29·0	12. 27	30·7	29·7
11. 11. 42	29·6	28·7	7. 8. 45	23·5	28·6	15. 12. 44	28·0	29·6
12. 10. 32	27·7	28·7	9. 8. 3	25·4	29·3	13. 30	26·8	28·9
11. 2	27·3	28·7	10. 13. 27	34·4	29·2	16. 15. 9	24·1	28·7
13. 8. 15	20·7	28·0	13. 55	34·1	29·1	18. 12. 57	29·7	29·3
14. 19. 35	28·3	28·4	11. 8. 20	21·0	28·1	19. 12. 18	29·4	29·4
15. 15. 20	32·4	29·1	12. 10. 35	27·2	28·7	12. 48	29·4	29·4
16. 10. 36	27·6	28·8	13. 13. 35	33·6	28·6	20. 13. 0	29·0	29·3
11. 6	29·5	28·9	14. 2	33·9	28·5	22. 12. 18	28·3	29·5
18. 11. 33	32·2	28·7	14. 8. 3	22·3	28·5	12. 45	29·4	30·0
19. 14. 10	31·5	28·9	16. 12. 3	31·6	28·9	23. 13. 0	30·8	29·3
14. 40	31·5	29·0	17. 14. 0	35·1	28·6	25. 13. 0	25·6	28·6
20. 8. 33	23·0	28·7	14. 45	34·8	28·7	26. 12. 18	28·0	29·1
21. 15. 27	31·1	28·8	18. 8. 15	29·8	28·7	12. 45	27·7	29·1
22. 15. 17	33·4	28·7	19. 11. 38	30·2	28·7	27. 14. 18	26·9	29·9
23. 13. 33	34·4	28·9	20. 11. 15	31·5	29·0	30. 12. 43	27·3	28·9
14. 15	35·1	29·0	11. 42	32·6	28·9			
24. 8. 12	23·7	28·5	21. 11. 0	31·5	28·9			
25. 8. 52	23·7	28·7	23. 11. 36	29·1	28·8	Dec. 2. 12. 50	26·2	29·0
26. 11. 8	29·6	28·7	24. 8. 5	22·1	28·8	3. 12. 5	28·2	29·1
11. 34	30·7	28·7	13. 50	33·1	28·8	12. 35	27·1	29·1
27. 8. 18	23·8	28·5	14. 18	33·6	28·8	4. 11. 0	26·0	28·7
28. 13. 27	34·4	29·1	25. 12. 13	31·4	28·9	5. 10. 38	25·1	29·1
30. 14. 25	33·4	29·1	27. 11. 15	29·8	28·6	6. 11. 27	26·1	29·2
14. 53	32·2	29·7	11. 40	31·7	28·9	12. 0	26·1	29·2
31. 8. 25	21·6	28·5	28. 8. 37	18·5	28·7	9. 11. 10	29·1	29·1
10. 25	26·4	28·9				10. 12. 20	22·3	29·0
						12. 50	24·8	29·4
			Oct. 1. 11. 53	29·5	28·5	11. 11. 37	24·1	29·1
Aug. 1. 8. 8	21·1	27·1	12. 29	31·2	28·4	12. 0	27·0	28·8
2. 11. 24	31·0	29·3	4. 12. 47	29·5	28·2	12. 15. 0	24·1	28·8
11. 52	32·3	29·3	15. 25	31·9	28·8	13. 12. 15	28·6	29·3
3. 8. 24	20·4	28·6	15. 54	26·3	28·6	13. 0	27·1	28·9
12. 7	32·8	29·6	5. 12. 5	28·6	28·6	14. 10. 25	26·0	29·1
6. 14. 2	37·5	29·6	7. 12. 35	29·4	26·7	16. 11. 0	25·1	29·1
14. 30	34·5	29·5	8. 12. 0	33·5	29·3	17. 12. 18	25·7	28·7
7. 19. 16	27·6	29·1	8. 12. 30	35·5	29·5	12. 48	27·0	29·1
8. 8. 15	24·2	28·2	11. 15. 20	28·7	28·7	18. 11. 52	25·5	28·6
9. 13. 40	35·9	29·7	12. 13. 0	28·8	28·8	20. 12. 6	24·8	29·1
14. 7	35·1	29·6	13. 11. 12	25·8	28·5	13. 0	28·3	29·0
12. 13. 40	34·8	29·8	14. 12. 18	29·5	28·7	23. 11. 24	25·3	28·6
13. 14. 0	33·3	29·4	15. 12. 20	35·2	29·0	24. 11. 31	25·2	29·6
14. 38	34·3	29·7	12. 50	33·4	28·6	12. 21	28·3	28·9
14. 8. 30	22·8	28·8	18. 12. 10	29·9	28·3	12. 52	28·5	29·0
15. 8. 8	22·2	29·1	14. 40	26·8	28·8	27. 12. 10	25·0	29·2
16. 11. 32	36·3	29·0	15. 22	26·8	28·6	12. 48	24·5	29·1
14. 10	32·5	29·4	19. 11. 10	29·2	28·5	28. 9. 6	23·1	29·2
14. 42	32·6	29·4	22. 12. 0	29·6	28·9	30. 15. 4	23·7	28·5
17. 8. 15	23·0	28·7	12. 30	30·8	28·8	31. 15. 10	27·0	29·2
18. 15. 5	31·3	29·3	24. 10. 0	25·6	28·5	15. 40	25·7	28·8
19. 8. 10	22·2	28·9	25. 11. 54	29·8	29·0			
20. 13. 54	35·1	29·3	12. 23	27·5	28·4			
14. 32	32·8	29·4	26. 12. 30	29·3	28·4			

TABLE XVIII.—RESULTS OF DETERMINATIONS OF THE ABSOLUTE VALUE OF HORIZONTAL MAGNETIC FORCE from OBSERVATIONS made with the GIBSON INSTRUMENT in the MAGNETIC PAVILION, with DEDUCED VALUES of the BASE LINE of the NORTH FORCE MAGNETOGRAMS.

Greenwich Civil Time, 1918.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1918.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1918.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.
d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+
Jan. 1. 12 2–12 47	460	783	May 3. 13 46–14 32	476	781	Sept. 3. 13 45–14 27	473	876
4. 12 15–12 58	472	785	7. 8 13– 9 2	459	784	6. 14 2–14 44	484	882
8. 12 13–12 59	473	794	10. 11 35–12 16	450	778	10. 13 21–14 3	475	885
12. 12 8–12 53	437	783	14. 11 44–12 26	451	788	13. 13 27–14 10	454	877
15. 12 18–13 0	469	793	17. 11 12–12 6	402	790	17. 13 56–14 53	440	883
18. 12 9–13 0	462	799	21. 11 30–12 16	448	794	20. 11 8–11 50	400	879
22. 14 36–15 34	461	809	24. 11 43–12 27	463	793	24. 13 43–14 26	445	881
25. 12 14–12 57	465	815	28. 11 14–11 57	463	797	27. 11 7–11 49	419	873
29. 14 26–15 7	469	811	31. 13 28–14 16	461	803			
Feb. 1. 14 58–15 43	451	808	June 4. 13 42–14 26	502	821	Oct. 1. 11 48–12 37	418	741
5. 14 36–15 22	477	831	7. 11 8–11 52	449	816	4. 15 18–16 3	451	761
8. 14 36–15 3	462	820	11. 11 8–11 49	430	807	11. 15 14–15 58	464	776
12. 16 35–17 20	446	829	14. 11 20–12 7	418	811	15. 12 15–12 59	419	756
15. 14 53–15 36	470	834	18. 13 37–14 32	471	809	18. 14 30–15 29	429	769
19. 14 24–15 26	453	808	21. 11 17–12 0	468	814	22. 11 57–12 39	416	775
22. 14 44–15 35	476	831	25. 10 48–11 32	467	812	25. 11 46–12 31	420	766
26. 14 30–15 13	474	825	28. 13 33–14 15	473	820	29. 12 13–12 57	428	774
March 1. 14 31–15 21	487	845	July 2. 13 46–14 30	469	822	Nov. 1. 12 1–12 46	435	782
5. 15 13–15 59	487	830	5. 14 8–14 52	484	831	5. 14 57–15 43	468	789
8. 11 58–12 40	401	826	9. 15 1–15 47	484	836	8. 12 2–12 46	453	774
12. 14 44–15 26	438	829	12. 10 26–11 10	440	824	12. 11 52–12 33	395	766
15. 14 29–15 12	429	829	16. 10 29–11 15	440	830	15. 12 44–13 39	442	780
19. 14 38–15 36	463	843	19. 14 2–14 47	476	850	19. 12 12–12 55	437	771
22. 14 6–14 50	451	844	23. 13 25–14 23	463	844	22. 12 12–12 52	444	778
26. 14 0–14 45	475	843	26. 11 1–11 42	436	845	26. 12 11–12 54	446	779
30. 14 9–14 51	477	834	30. 14 17–15 1	435	845	29. 15 19–16 8	489	792
April 2. 13 58–14 27	474	846	Aug. 2. 11 17–12 0	465	850	Dec. 3. 12 0–12 43	409	787
5. 13 48–14 32	445	840	6. 13 54–14 38	441	852	6. 11 21–12 4	468	805
9. 14 10–14 52	451	842	9. 13 32–14 15	464	861	10. 12 13–12 56	403	791
12. 8 11– 8 59	444	846	13. 13 59–14 41	468	860	13. 12 7–13 2	443	806
16. 13 27–14 25	457	839	16. 14 7–14 51	446	858	17. 12 12–12 55	462	806
19. 13 23–14 7	430	844	20. 13 45–14 41	437	869	20. 12 0–13 1	451	797
23. 13 56–14 39	474	860	22. 11 4–11 46	441	865	24. 12 15–13 0	453	791
26. 13 12–13 55	442	854	28. 13 43–14 28	437	872	27. 12 4–12 54	430	800
30. 13 43–14 25	455	856	30. 14 16–14 59	460	870	31. 15 3–15 48	448	803

April 30 and September 30. Suspension of North Force Magnet adjusted to restore the trace to its normal position on the sheets.

TABLE XIX.—RESULTS of OBSERVATIONS of MAGNETIC DIP made with the DIP INDUCTOR, with DEDUCED VALUES of the BASE-LINE of the VERTICAL FORCE MAGNETOGRAMS.

Greenwich Civil Time, 1918.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1918.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1918.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1918.	Magnetic Dip	Deduced Value of Vertical Force Base-line.
d h	° ′	·42900+	d h	° ′	·42900+	d h	° ′	·42900+	d h	° ′	·42900+
Jan. 1. 11·6	66 53·9	100	Apr. 2. 13·7	66 53·3	75	July 2. 13·5	66 52·1	69	Oct. 1. 11·6	66 55·5	89
2. 11·9	66 52·5	79	4. 11·3	66 54·0	84	4. 8·3	66 53·5	105	3. 10·1	66 54·9	65
4. 11·9	66 53·1	90	5. 13·6	66 55·3	108	5. 13·9	66 53·1	106	4. 12·6	66 55·4	89
8. 12·0	66 53·5	88	9. 11·7	66 53·7	55	10. 10·2	66 54·3	121	10. 11·4	66 55·7	68
9. 12·9	66 52·6	90	11. 15·0	66 54·6	65	11. 11·4	66 54·9	119	11. 12·1	66 54·3	58
12. 11·9	66 54·1	95	12. 8·0	66 54·1	35	12. 10·2	66 54·4	99	15. 12·0	66 54·3	26
15. 12·0	66 53·0	89	16. 11·8	66 53·7	84	16. 10·2	66 55·0	127	18. 12·0	66 58·3	107
17. 14·8	66 53·0	75	18. 11·6	66 53·6	74	17. 11·1	66 53·3	102	19. 12·1	66 55·5	81
18. 11·9	66 52·9	57	19. 11·8	66 55·9	66	19. 13·8	66 53·0	94	22. 11·7	66 56·5	44
22. 12·6	66 53·7	55	23. 11·7	66 53·6	66	23. 11·7	66 52·8	85	24. 11·8	66 56·3	62
23. 12·8	66 52·5	30	25. 14·9	66 51·2	50	25. 11·6	66 52·1	91	25. 11·5	66 55·2	55
25. 12·0	66 52·8	45	26. 11·8	66 55·1	66	26. 10·8	66 55·1	100	29. 12·0	66 55·5	56
29. 12·0	66 51·8	70	30. 13·5	66 53·2	36	30. 11·2	66 55·7	92			
30. 12·3	66 55·9	68							Nov. 1. 11·8	66 55·0	21
			May 2. 14·7	66 53·0	88	Aug. 2. 11·1	66 52·7	86	2. 12·5	66 55·4	34
Feb. 1. 14·6	66 55·0	110	3. 13·5	66 52·7	79	3. 11·5	66 56·1	138	5. 12·8	66 54·0	38
5. 15·9	66 54·0	97	7. 7·9	66 53·8	63	6. 13·7	66 55·7	122	7. 13·0	66 53·6	34
6. 12·7	66 55·1	65	9. 11·8	66 52·6	51	7. 15·1	66 51·5	75	8. 11·8	66 53·1	42
8. 12·8	66 53·3	57	10. 11·4	66 52·7	56	9. 11·6	66 53·9	79	12. 11·6	66 57·6	41
12. 16·2	66 55·0	33	14. 11·5	66 53·5	49	13. 11·3	66 53·0	113	14. 12·7	66 54·9	46
14. 12·1	66 55·8	75	16. 11·6	66 52·2	60	15. 11·8	66 54·0	109	15. 12·4	66 55·6	67
15. 14·6	66 53·4	69	17. 11·0	66 57·8	78	16. 11·4	66 59·8	123	19. 12·0	66 55·5	85
19. 12·6	66 54·0	108	21. 12·4	66 54·2	104	20. 11·3	66 54·1	98	21. 12·8	66 55·9	74
21. 12·4	66 54·4	114	24. 11·4	66 52·8	99	22. 10·7	66 53·9	70	22. 12·0	66 54·4	57
22. 14·5	66 52·5	60	25. 11·2	66 51·4	60	24. 11·6	66 53·3	113	26. 12·0	66 54·8	59
26. 12·5	66 53·2	98	28. 11·0	66 53·7	102	28. 13·5	66 55·2	88	30. 12·1	66 55·6	46
27. 14·1	66 52·5	94	30. 15·3	66 52·9	76	30. 11·8	66 53·8	98			
			31. 11·6	66 53·2	87	31. 11·7	66 51·6	69	Dec. 3. 11·7	66 57·2	79
Mar. 1. 12·9	66 52·2	72							5. 12·2	66 53·4	49
5. 14·9	66 51·7	71	June 4. 13·5	66 50·5	119	Sept. 3. 13·5	66 53·9	118	6. 11·1	66 52·9	66
7. 11·8	66 52·6	96	6. 15·3	66 52·1	133	5. 11·8	66 53·1	82	10. 11·9	66 58·9	120
8. 11·7	66 58·4	97	7. 10·9	66 53·0	106	6. 11·5	66 53·1	77	11. 11·3	66 55·0	72
12. 14·5	66 55·6	92	11. 10·9	66 57·5	165	10. 11·1	66 54·3	87	13. 11·9	66 53·3	19
14. 13·5	66 52·5	59	14. 11·1	66 56·7	151	12. 15·9	66 52·9	94	17. 12·0	66 53·7	73
15. 12·0	66 54·3	101	15. 11·8	66 55·3	105	13. 11·9	66 53·9	86	18. 11·6	66 52·1	72
19. 14·4	66 53·9	85	18. 13·6	66 52·4	84	17. 13·7	66 54·7	55	20. 11·8	66 54·2	86
22. 12·2	66 54·4	83	20. 10·4	66 53·7	108	19. 13·9	66 57·4	87	23. 11·3	66 55·2	97
23. 12·2	66 54·4	88	21. 11·0	66 54·3	145	20. 10·9	66 58·1	85	24. 12·0	66 53·8	85
26. 13·8	66 53·0	94	25. 8·7	66 53·1	99	24. 11·5	66 57·4	99	27. 11·9	66 55·4	65
28. 10·1	66 53·7	67	28 11·3	66 53·4	94	27. 10·1	66 55·2	73	31. 12·6	66 53·9	57
30. 11·8	66 53·0	44	29. 8·5	66 53·0	94	28. 11·6	66 53·9	89			

TABLE XX.—ANNUAL SUMMARY OF THE MAGNETIC ELEMENTS.

Month, 1918.	Mean Value of						Monthly Mean Diurnal Range of			Sum of Hourly Deviations from Means of		
	Declination.	Horizontal Force.	Dip.	West Force.	North Force.	Vertical Force.	Declination.	North Force.	Vertical Force.	Declination.	North Force.	Vertical Force.
	° ′		° ′				′			′		
January	14. 32·0	·18478	66. 52·7	·04637	·17887	·43276	7·5	29γ	18γ	41·8	190γ	114γ
February ...	14. 31·3	·18473	66. 52·7	·04632	·17883	·43264	6·9	27	17	48·6	169	139
March	14. 30·8	·18475	66. 52·9	·04630	·17885	·43275	10·5	36	29	62·0	252	145
April	14. 29·5	·18468	66. 53·4	·04621	·17880	·43274	12·4	46	34	73·5	315	182
May.....	14. 28·8	·18471	66. 52·7	·04618	·17884	·43260	11·7	43	30	64·2	269	169
June	14. 28·2	·18477	66. 51·7	·04617	·17891	·43239	11·6	44	27	66·4	288	135
July	14. 27·4	·18472	66. 51·8	·04611	·17887	·43231	11·8	45	30	68·3	311	161
August	14. 26·7	·18460	66. 52·5	·04605	·17876	·43227	12·4	51	27	71·1	345	144
September ..	14. 26·1	·18456	66. 52·7	·04601	·17873	·43222	10·1	50	29	66·7	348	170
October	14. 25·2	·18447	66. 53·1	·04594	·17866	·43219	9·0	46	24	59·5	350	154
November ..	14. 24·1	·18450	66. 53·1	·04589	·17870	·43224	7·5	31	16	42·4	202	127
December ..	14. 23·7	·18441	66. 54·5	·04585	·17862	·43251	7·4	20	20	41·7	123	141
For the year.	14. 27·8	·18464	66. 52·8	·04612	·17879	·43247	9·9	39·0	25·1	58·8	263·8	148

ROYAL OBSERVATORY, GREENWICH.

MAGNETIC DISTURBANCES.

1918.

MAGNETIC DISTURBANCES in DECLINATION, NORTH FORCE, and VERTICAL FORCE, recorded at the ROYAL OBSERVATORY, GREENWICH, in the Year 1918.

The following notes give a brief description of all magnetic movements (superposed on the ordinary diurnal movement) exceeding 3′ in Declination, 20 γ in North Force, or 12 γ in Vertical Force, as taken from the photographic records of the respective Magnetometers. The movements in North and Vertical Force are expressed in C. G. S. units. When any one of the three elements is not specifically mentioned, it is to be understood that the movement, if any, was insignificant. Any failure or want of register is specially indicated.

The term " wave " is used to indicate a movement in one direction and return; " double wave " a movement in one direction and return with continuation in the opposite direction and return; " two successive waves " consecutive wave movement in the same direction; " oscillations " a number of movements in both directions. The extent and direction of the movement are indicated in brackets, + denoting an increase, and − a decrease of the magnetic element. In the case of oscillations the sign $\pm$ denotes positive and negative movements of generally equal extent.

Magnetic movements which do not admit of brief description in this way are exhibited on accompanying plates.

The time is Greenwich Civil Time (commencing at midnight, and counting the hours from 0 to 24).

1918.

January

$3^d\ 16\frac{3}{4}^h$ to $18\frac{1}{4}^h$ Wave in Dec. (+ 5′). 17^h to $18\frac{1}{2}^h$ Wave in N.F. (−26). $22\frac{1}{4}^h$ to $22\frac{3}{4}^h$ Wave in Dec. (−3′). $3^d\ 23\frac{1}{4}^h$ to $4^d\ 1\frac{1}{4}^h$ Irregular double-crested wave in Dec. (− 5′).

$4^d\ 1\frac{3}{4}^h$ to 3^h Irregular double-crested wave in Dec. (− 8′). 2^h to $3\frac{1}{2}^h$ Wave in N.F. (+ 35). 22^h to 24^h Wave in Dec. (− 7′).

$5^d\ 11^h$ to 13^h Wave in N.F. (− 36). $11\frac{1}{2}^h$ to $12\frac{1}{4}^h$ Wave in Dec. (− 4′) with small superposed fluctuations. $16\frac{3}{4}^h$ to $18\frac{1}{2}^h$ Irregular wave in Dec. (− 10′). 17^h to $17\frac{1}{4}^h$ Increase in N.F. (+ 20). $5^d\ 23\frac{3}{4}^h$ to $6^d\ 0\frac{1}{2}^h$ Wave in Dec. (− 4′).

$6^d\ 0\frac{1}{2}^h$ to $3\frac{1}{2}^h$ Two successive waves in Dec. (− 4′, − 4′). 13^h to $15\frac{1}{4}^h$ Irregular wave in N.F. (− 25), followed till $16\frac{1}{2}^h$ by a wave (− 20). 16^h to $16\frac{1}{4}^h$ Decrease in Dec. (− 3′). $6^d\ 23\frac{1}{2}^h$ to $7^d\ 0\frac{1}{4}^h$ Waves in Dec. (− 6′), and N.F. (+ 47), both steeper at commencement.

$9^d\ 23\frac{1}{4}^h$ to $10^d\ 0\frac{3}{4}^h$ Wave in N.F. (+ 32).

$10^d\ 19^h$ to $20\frac{1}{4}^h$ Wave in Dec. (− 7′). $19\frac{1}{4}^h$ to 21^h Wave in N.F. (+ 37).

$12^d\ 11\frac{1}{4}^h$ to $13\frac{1}{4}^h$ Irregular decrease in N.F. (− 58), followed till $13\frac{3}{4}^h$ by a sharper increase (+ 32). $14\frac{1}{4}^h$ to $15\frac{1}{2}^h$ Sharp double-crested wave in N.F. (− 40). $14\frac{1}{2}^h$ to 16^h Wave in V.F. (+ 17). $14\frac{3}{4}^h$ to $15\frac{1}{4}^h$ Increase in Dec. (+ 3′) and decrease (− 6′). $12^d\ 23^h$ to $13^d\ 1^h$ Wave in Dec. (− 12′), steep at commencement. $12^d\ 23^h$ to $13^d\ 0\frac{1}{2}^h$ Wave in N.F. (+ 47), steep at commencement.

$13\frac{3}{4}^h$ to 14^h Sharp decrease in N.F. (− 40). $14\frac{1}{2}^h$ to 16^h Wave in Dec. (− 4′), with sharp superposed vibrations. 20^h to 21^h Sharp wave in Dec. (− 7′), followed till $21\frac{1}{4}^h$ by a sharp decrease (− 4′). 21^h to 22^h Rounded wave in N.F. (+ 24).

$14^d\ 0\frac{1}{2}^h$ to $1\frac{1}{2}^h$ Sharp increase in Dec. (+ 4′) and decrease (− 8′). $0\frac{1}{2}^h$ Sharp increase in N.F. (+ 20). $0\frac{3}{4}^h$ to 1^h Decrease in V.F. (− 14). $3\frac{1}{4}^h$ to $4\frac{1}{4}^h$ Irregular wave in Dec. (+ 4′). $22\frac{3}{4}^h$ to $23\frac{1}{2}^h$ Wave in Dec. (− 4′). 23^h to $23\frac{3}{4}^h$ Wave in N.F. (+ 21).

15^d, $15\frac{1}{2}^h$ to $16\frac{1}{4}^h$ Sharp wave in N.F. (− 30). $15\frac{3}{4}^h$ to $16\frac{1}{2}^h$ Wave in Dec. (− 6′): increase in V.F. (+ 12). $20\frac{1}{2}^h$ to 22^h Wave in N.F. (− 22). 21^h to 22^h Wave in Dec. (− 5′). $15^d\ 23\frac{1}{2}^h$ to $16^h\ 1\frac{1}{4}^h$ Irregular wave in Dec. (− 5′).

$17^d\ 23^h$ to $23\frac{3}{4}^h$ Wave in N.F. (− 22).

$21^d\ 0\frac{3}{4}^h$ to 1^h Sharp increase in N.F. (+ 24). $1\frac{1}{4}^h$ to $2\frac{1}{4}^h$ Decrease in N.F. (− 33). $14\frac{1}{2}^h$ to $16\frac{1}{4}^h$ Wave in N.F. (− 25). 17^h to $17\frac{1}{2}^h$ Decrease in Dec. (− 5′).

$22^d\ 0^h$ to 1^h Wave in N.F. (+ 23). $2\frac{3}{4}^h$ to $4\frac{1}{4}^h$ Double-crested wave in Dec. (+ 5′).

$23^d\ 1^h$ to $3\frac{3}{4}^h$ Slow double wave in Dec. (− 3′, + 3′).

$24^d\ 16\frac{3}{4}^h$ to $17\frac{1}{4}^h$ Wave in Dec. (− 3′). 17^h to 18^h Wave in N.F. (− 20).

$25^d\ 1\frac{1}{4}^h$ to $2\frac{1}{2}^h$ Irregular double-crested wave in Dec. (+ 4′). $1\frac{1}{2}^h$ to 3^h Wave in N.F. (+ 27). $20\frac{1}{4}^h$ to $21\frac{1}{4}^h$ Wave in Dec. (− 5′).

1918.

January

26d 20½h to 21¾h Wave in Dec. (− 6′).

27d 0¼h to 1¾h Wave in N.F. (+ 30). 0½h to 2h Wave in Dec. (− 5′).

29d 12¾h to 13¼h Sharp increase in Dec. (+ 7′) and decrease (− 4′). 13¾h to 14h Increase in Dec. (+ 4′). 17½h to 19h Irregular double wave in Dec. (+ 3′,− 3′). 18¼h to 19h Wave in N.F. (+ 20). 19½h Sharp decrease in Dec. (− 8′), followed till 20½h by an irregular wave (+ 8′). 19½h to 19¾h Sharp increase in N.F. (+ 30), and decrease (− 20). 20h to 20½h Wave in N.F. (− 33). 21h to 23h Irregular double-crested wave in Dec. (− 13′), steep at end. 21½h to 22h Sharp increase in N.F. (+ 45). 22¼h to 23½h Two successive waves in N.F. (− 30,− 28). 29d 22¾h to 30d 2h Irregular decrease in V.F. (− 50).

30d 1h to 2½h Irregular wave in Dec. (+ 9′). 1h to 2h Double-crested wave in N.F. (+ 20). 8½h to 9¼h Decrease in N.F. (− 50). 12h to 13½h Truncated wave in N.F. (− 40). 17½h to 18½h Two successive waves in Dec. (− 5′,− 4′). 17½h Sharp increase in N.F. (+ 32). 18h to 18½h Wave in N.F. (− 22). 20h to 20¼h Decrease in Dec. (− 7′). 20½h to 20¾h Sharp decrease in Dec. (− 11), followed till 21h by a sharp wave (+ 8′). 20½h to 22h Sharp wave in N.F. (+ 85), with sharp double-crested wave (− 38), superposed from 20¾h to 21½h, and followed till 22½h by sharp increase (+ 24) and decrease (− 50). 20½h to 21½h Decrease in V.F. (− 34). 21¼h to 22¼h Two successive sharp waves in Dec. (− 8′,− 9′), followed till 23½h by a double-crested wave (− 10′), followed till 31d 1h by a wave (− 22′), very steep at commencement. 30d 23h to 31d 0¾h Irregular wave in V.F. (− 40), followed till 3h by a wave (−20). 30d 23½h to 31d 2¼h Quadruple wave in N.F. (− 32,+ 36,− 30, + 46).

31d 3h to 4¾h Double wave in Dec. (− 4′,+ 4′), the second portion truncated and serrated. 4½h to 5¼h Wave in N.F. (+ 23). 12h to 12½h Irregular increase in Dec. (+ 7′). 13h to 13¾h Wave in Dec. (+ 4′). 13½h to 14¼h Truncated wave in N.F. (− 35). 13¾h to 15¼h Slow wave in V.F. (+ 13). 14h to 15½h Truncated wave in Dec. (+ 7′), steep at commencement. 15¼h to 19h Double wave in N.F. (+ 30,− 55), the second portion sharper. 17¼h to 18h Irregular decrease in Dec. (− 8′), followed till 19h by a sharp irregular wave (+ 10′). 18h to 18½h Increase in V.F. (+ 18). 19¾h to 21h Irregular double-crested wave in N.F. (− 23). 20h to 21h Wave in Dec. (+ 4′). 20½h to 22½h Serrated decrease in V.F. (− 30). 21½h to 22¼h Sharp double-crested wave in Dec. (− 4′), followed till 22¾h by a sharp decrease (− 7′). 21½h to 22½h Two successive waves in N.F. (+ 20,+ 25).

February

1d 1¾h to 4h Irregular triple-crested wave in Dec. (+ 8′). 2h to 3h Decrease in V.F. (− 13). 3h to 3½h Wave in N.F. (− 20). 16¾h to 18h Double wave in N.F. (− 24,+ 26), followed till 19¼h by a truncated wave (+ 33). 16¾h to 17h Sharp decrease in Dec. (− 11′). 17¾h to 18¼h Sharp wave in Dec. (+ 5′). 18¾h to 21½h Irregular triple wave in Dec. (+ 7′,− 5′,+ 11′), the second portion double-crested, the third very steep. 20¼h to 21¼h Very sharp wave in N.F. (+ 110). 20¾h to 21¼h Irregular decrease in V.F. (− 17).

2d 2½h to 3½h Wave in Dec. (+ 5′). 2¾h to 3½h Decrease in V.F. (− 12). 17½h to 17¾h Decrease in Dec. (− 6′). 18h to 19½h Two successive waves in Dec. (− 6′,− 7′). 18¼h to 19½h Double-crested wave in N.F. (+ 30). 21¾h to 22¼h Wave in Dec. (− 3′). 22¾h to 23½h Wave in Dec. (+ 6′). 22¾h to 23¼h Wave in N.F. (+ 20).

5d 7h to 8¼h Serrated double-crested wave in N.F. (+ 25). 11½h to 12¼h Double-crested wave in Dec. (+ 4′). 12h to 13h Wave in N.F. (− 24).

6d 1¼h to 1½h Sharp increase in Dec. (+ 7′), followed till 6h by a truncated serrated wave (− 19′), steep at commencement. 1¼h to 2¼h Wave in N.F. (+ 40), very steep at commencement. 1½h to 1¾h Sharp decrease in V.F. (− 22). 3h to 4h Triple-crested wave in N.F. (+ 28). 3¼h to 3½h Sharp decrease in V.F. (− 19). 8h to 10½h Slow wave in N.F. (− 22). 14h to 14¾h Wave in Dec. (+ 3′). 23½h to 24h Wave in Dec. (− 4′).

7d 1h to 3½h Slow double-crested wave in Dec. (+ 5′). 7½h to 9h Wave in N.F. (− 25). 7¾h to 9¼h Wave in Dec. (+ 5′). 23h to 23¾h Wave in N.F. (+ 25).

9d 20¼h to 20¾h Decrease in Dec. (− 6′) and N.F. (− 30). 20½h to 23h Flat-crested wave in V.F. (+ 17). 22½h to 23¼h Irregular waves in Dec. (+ 4′) and N.F. (+ 22).

10d 1¼h to 2¼h Wave in N.F. (+ 24). 1½h to 2½h Wave in Dec. (− 7′). '10¾h to 11½h Truncated wave in Dec. (+ 4′). 12¾h to 13½h Irregular wave in Dec. (+ 5′), steep at end. 17¼h to 18½h Wave in Dec. (− 8′). 17½h to 18½h Wave in N.F. (+ 23). 20¼h to 20½h Sharp decrease in Dec. (− 8′), followed till 21¼h by a double-crested wave (+ 5′). 20½h Sharp increase in N.F. (+ 20). 21h to 23¼h Irregular wave in N.F. (+ 48). 21½ to 22¼h Sharp double-crested wave in Dec. (+ 7′).

11d 0h to 2h Double wave in Dec. (− 6′,+ 11′), the second movement very steep, the first wave rounded, the last truncated. 0¼h to 1h Irregular decrease in N.F. (− 38), followed till 2¼h by a wave (+ 40), steep at commencement. 1h to 3h Wave in V.F. (− 27). 20h to 20½h Irregular decrease in Dec. (− 6′). 21¾h to 22½h Wave in Dec. (+ 4′). 22¼h to 23¼h Wave in N.F. (+ 22).

1918.

February. $12^d\ 0^h$ to $0\frac{3}{4}^h$ Wave in Dec. (− 4′). $0\frac{1}{2}^h$ to $1\frac{3}{4}^h$ Decrease in V.F. (− 25). $1\frac{1}{2}^h$ to 4^h Two successive waves in Dec. (− 12′,− 5′). 2^h to 3^h Wave in N.F. (− 20). $3\frac{1}{2}^h$ to $4\frac{3}{4}^h$ Wave in N.F. (− 30). 5^h to $6\frac{1}{4}^h$ Wave in N.F. (+ 20). $12\frac{1}{2}^h$ to $13\frac{1}{4}^h$ Spasmodic double wave in N.F. (− 20,+ 20), with superposed fluctuations. 14^h to $15\frac{3}{4}^h$ Increase in V.F. (+ 43). 15^h to $15\frac{3}{4}^h$ Sharp movements in N.F. (+ 25,− 73,+30). $15\frac{1}{2}^h$ to $16\frac{1}{4}^h$ Wave in Dec. (+ 10′), steep at commencement. 18^h to $18\frac{1}{2}^h$ Wave in N.F. (+ 23). $18\frac{3}{4}^h$ to 19^h Sharp wave in N.F. (− 20), followed till 20^h by very sharp movements (− 150,+ 100,−30), followed till $20\frac{1}{2}^h$ by double-crested wave (+ 50). 19^h to $20\frac{3}{4}^h$ Irregular sharp quadruple wave in Dec. (+ 5′,− 13′,+ 23′,−6′), the fourth movement serrated. 19^h to $19\frac{1}{4}^h$ Sharp increase in V.F. (+ 17), followed till 20^h by a decrease (− 43). 21^h to $21\frac{1}{2}^h$ Wave in Dec. (− 4′). 22^h to 24^h Steep truncated wave in Dec. (− 14′), with double-crested wave (+ 7′), superposed from $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$. $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Truncated wave in N.F. (+ 21). 23^h to $23\frac{3}{4}^h$ Wave in V.F. (− 12), followed till $13^h\ 0\frac{1}{4}^h$ by a decrease (− 25). $12^d\ 23\frac{3}{4}^h$ to $13^d\ 0\frac{3}{4}^h$ Triple wave in N.F. (+ 28,− 20,+ 25), the first portion double-crested.

$13^d\ 0\frac{1}{4}^h$ to $0\frac{1}{2}^h$ Sharp decrease in Dec. (− 17′). 1^h to $1\frac{3}{4}^h$ Wave in Dec. (− 5′). 3^h to $4\frac{1}{4}^h$ Double-crested wave in Dec. (+ 8′), followed till $5\frac{1}{4}^h$ by an increase (+ 12′). 4^h to $4\frac{1}{4}^h$ Very sharp increase in N.F. (+ 70), followed till $4\frac{3}{4}^h$ by slower partial return (− 25).

$14^d\ 2^h$ to $3\frac{1}{2}^h$ Wave in Dec. (+ 12′). $2\frac{1}{4}^h$ to $2\frac{3}{4}^h$ Decrease in N.F. (− 24). $2\frac{3}{4}^h$ to 4^h Wave in V.F. (− 13). 3^h to 4^h Increase in N.F. (+ 60). 5^h to $6\frac{3}{4}^h$ Wave in Dec. (+ 6′), followed till $7\frac{1}{2}^h$ by an increase (+ 6′).

$15^d\ 0\frac{1}{2}^h$ to 1^h Wave in Dec. (+ 4′), continued till $1\frac{3}{4}^h$ by a decrease (− 7′). $0\frac{1}{2}^h$ to $1\frac{1}{4}^h$ decrease in V.F. (− 12). 9^h to 18^h Rapid small oscillations in Dec. and N.F. 16^h to $21\frac{1}{2}^h$ Rapid oscillations in V.F. 18^h to $19\frac{1}{4}^h$ Wave in Dec. (+ 9′) with superposed oscillations. $18\frac{1}{4}^h$ to $19\frac{1}{2}^h$ Irregular double-crested wave in N.F. (− 35). 20^h to 21^h Truncated wave in N.F. (+ 35), very steep at both ends, followed till $21\frac{1}{4}^h$ by a very sharp double wave (+ 50,− 24).

$16^d\ 10^h$ to $10\frac{1}{4}^h$ Increase in Dec. (+ 4′). $11\frac{1}{4}^h$ to $12\frac{1}{2}^h$ Wave in Dec. (+ 6′), with superposed fluctuations. $11\frac{3}{4}^h$ to $12\frac{3}{4}^h$ Wave in N.F. (− 32). $20\frac{1}{4}^h$ to 22^h Waves in Dec. (− 6′), and N.F. (+ 30).

$17^d\ 20\frac{1}{4}^h$ to $21\frac{3}{4}^h$ Wave in Dec. (− 4′).

$20^d\ 21\frac{3}{4}^h$ to $22\frac{1}{4}^h$ Decrease in Dec. (− 10′), followed till $22\frac{3}{4}^h$ by slower partial return (+ 4′). 22^h to $23\frac{1}{4}^h$ Wave in N.F. (+ 43).

$21^d\ 4^h$ to 6^h Wave in N.F. (+ 35). $4\frac{1}{2}^h$ to $6\frac{1}{4}^h$ Wave in Dec. (− 6′).

$23^d\ 14\frac{1}{4}^h$ to $14\frac{1}{2}^h$ Sudden increase in Dec. (+ 4′) and N.F. (+ 20). $14\frac{1}{2}^h$ to 17^h Wave in V.F. (+ 13). 15^h to $16\frac{1}{4}^h$ Truncated wave in N.F. (− 28). $15\frac{3}{4}^h$ to $16\frac{1}{4}^h$ Wave in Dec. (− 3′). 21^h to 24^h Wave in Dec. (− 12′). 22^h to $23\frac{1}{4}^h$ Wave in N.F. (+ 37).

$24^d\ 4\frac{1}{2}^h$ to 6^h Wave in N.F. (− 21). 20^h to $21\frac{1}{2}^h$ Wave in Dec. (− 4′).

$27^d\ 21\frac{3}{4}^h$ to $23\frac{1}{2}^h$ Irregular wave in N.F. (+ 30). 22^h to $23\frac{1}{2}^h$ Wave in Dec. (− 5′). 22^h to $22\frac{1}{2}^h$ Decrease in V.F. (− 18).

$28^d\ 0\frac{3}{4}^h$ to $2\frac{1}{2}^h$ Truncated wave in Dec. (+ 8′). 14^h to 15^h Wave in Dec. (− 4′). 19^h to 22^h Irregular wave in Dec. (− 7′). 19^h to $22\frac{1}{2}^h$ Slow wave in V.F. (+ 17). $19\frac{3}{4}^h$ to 21^h. Truncated wave in N.F. (− 25). $23\frac{1}{2}^h$ to 24^h Wave in Dec. (+ 3′). February 28^d. $23\frac{3}{4}^h$ to March 1^d. $0\frac{1}{2}^h$ Wave in N.F. (+20).

March $1^d\ 2\frac{1}{2}^h$ to $2\frac{3}{4}^h$ Sharp increase in Dec. (+ 5′). $20\frac{1}{4}^h$ to 21^h Sharp wave in Dec. (− 5′). 21^h to $21\frac{3}{4}^h$ Sharp wave in N.F. (+ 34), followed till 22^h by an increase (+ 25).

$2^d\ 16\frac{3}{4}^h$ to $17\frac{3}{4}^h$ Truncated wave in N.F. (− 25). 17^h to 18^h Wave in Dec. (− 3′). $19\frac{3}{4}^h$ to 21^h Wave in Dec. (− 8′). $19\frac{3}{4}^h$ to $21\frac{1}{2}^h$ Wave in N.F. (+ 45).

$3^d\ 1\frac{3}{4}^h$ to 3^h Truncated wave in Dec. (+ 5′). $13\frac{3}{4}^h$ to $15\frac{1}{4}^h$ Sharp double wave in Dec. (+4′, −4′), both portions double-crested. 14^h to 15^h Increase in V.F. (+ 30). $14\frac{1}{4}^h$ to $14\frac{3}{4}^h$ Sharp decrease in N.F. (− 30) and increase (+ 48). 16^h to $17\frac{1}{2}^h$ Wave in Dec. (+ 3′). $16\frac{1}{2}^h$ to 18^h Wave in N.F. (− 25). $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Domed wave in Dec. (− 8′) followed till 23^h by a sharp decrease (− 10′) and increase (+ 3′). $21\frac{3}{4}^h$ to $22\frac{3}{4}^h$ Wave in V.F. (+ 14). $22\frac{3}{4}^h$ to $23\frac{1}{4}^h$ Wave in N.F. (+ 26).

$4^d\ 1\frac{1}{2}^h$ to 4^h Slow wave in Dec. (+ 7′).

$5^d\ 22^h$ to 23^h Wave in N.F. (+ 21).

$7^d\ 20^h$ to $8^d\ 20^h$. See Plate I.

$8^d\ 22\frac{1}{4}^h$ to $22\frac{3}{4}^h$ Sharp wave in Dec. (+ 5′).

$9^d\ 1^h$ to $2\frac{1}{2}^h$ Wave in Dec. (+ 7′).

$10^d\ 16^h$ to $16\frac{3}{4}^h$ Wave in N.F. (− 30), followed till 19^h by an irregular wave (− 30), with a sharp wave (− 24) superposed from $17\frac{3}{4}^h$ to 18^h. 16^h to 19^h Slow wave in V.F. (+ 23). $16\frac{1}{4}^h$ to $17\frac{3}{4}^h$ Irregular wave in Dec. (− 8′). 21^h to $22\frac{1}{2}^h$ Wave in Dec. (− 6′). $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Wave in N.F. (+ 26). $23\frac{3}{4}^h$ to 24^h Sharp decrease in N.F. (− 21).

$11^d\ 2\frac{1}{4}^h$ to 4^h Wave in Dec. (+ 6′). $2\frac{1}{2}^h$ to $3\frac{3}{4}^h$ Slow decrease in V.F. (− 12). $13\frac{3}{4}^h$ to 14^h Sharp increase in Dec. (+ 4′). $15\frac{1}{2}^h$ to $16\frac{3}{4}^h$ Irregular wave in N.F. (+ 32). $17\frac{1}{4}^h$ to $18\frac{1}{4}^h$ Wave in V.F. (+ 15). $17\frac{1}{2}^h$ to $17\frac{3}{4}^h$ Sharp decrease in Dec. (− 8′). 19^h to $19\frac{3}{4}^h$ Sharp movements in Dec. (− 5′, + 8′, − 16′), followed till $20\frac{1}{4}^h$ by an irregular increase (+ 8′). 19^h to $19\frac{3}{4}^h$ Sharp double wave in N.F. (+ 44, − 50). $19\frac{1}{4}^h$ to $19\frac{3}{4}^h$ Wave in V.F. (− 14). 20^h to 21^h Wave in N.F. (− 30). $21\frac{3}{4}^h$ to $22\frac{1}{4}^h$ Wave in Dec. (− 3′). 23^h to 24^h Wave in Dec. (− 5′).

1918.

March

12d 0¾h to 1h Decrease in Dec. (− 3′), followed till 2h by a wave (+ 4′). 5h to 5½h Sharp increase in Dec. (+ 7′). 5h to 6h Wave in N.F. (− 22). 5½h to 6h Decrease in V.F. (− 24). 15h to 16h Increase in V.F. (+ 28). 15¼h to 15¾h Serrated decrease in Dec. (− 8′). 15½h to 17h Wave in N.F. (+ 45), steep at commencement. 19¼h to 20¼h Double wave in Dec. (+ 4′, − 3′), the first portion double-crested. 19½h to 20h Decrease in V.F. (− 16). 19¾h to 21h Wave in N.F. (+ 40). 12d 23¾h to 13d 1h Truncated wave in N.F. (+ 22).

13d 0¼h to 1¼h Wave in Dec. (− 3′).

15d 1h to 2h Wave in Dec. (+ 3′). 7¼h to 8¼h Wave in Dec. (+ 4′). 13h to 14½h Serrated wave in Dec. (+ 9′). 13h to 16h Double wave in N.F. (+ 35, − 45). 13¼h to 14¼h Increase in V.F. (+ 17). 17¾h Very slow increase in N.F. (+ 60), followed till 19½h by very sharp fluctuations superposed on the return. Fluctuations also in Dec.

16d 1h to 2¾h Irregular triple wave in Dec. (− 5′, + 3′, − 3′). 1h to 1½h Truncated wave in N.F. (+ 25). 1¾h to 2¼h Decrease in V.F. (− 12). 5h to 5½h Serrated increase in Dec. (+ 4′). 10½h to 12h Increase in Dec. (+ 7′), followed till 12½h by a sharper increase (+ 6′). 12h to 12¾h Domed wave in N.F. (+ 22). 12¾h to 13½h Increase in V.F. (+ 17). 13h to 14¼h Wave in Dec. (− 6′). 15h to 17¼h Slow wave in V.F. (+ 14), followed till 18½h by a double-crested wave (+ 19). 17½h to 18¾h Waves in Dec. (− 10′), and N.F. (+ 75), both very steep at commencement. 20¼h to 21h Sharp double-crested wave in Dec. (− 5′), followed till 21½h by a sharp double wave (− 6′, + 4′). 20½h to 21½h Two successive waves in N.F. (+ 20, + 47), the second steep.

17d 22h to 23¼h Domed wave in Dec. (− 4′). 22h to 23h Wave in N.F. (+ 35).

20d 10h to 10½h Decrease in N.F. (− 40).

21d 12h to 14¾h Irregular wave in Dec. (+ 5′), followed till 17h by a serrated wave (+ 7′). 13h to 21¾h Slow wave in V.F. (+ 45). 14¾h to 15¼h Increase in N.F. (+ 33). 17¾h to 18¼h Decrease in Dec. (− 6′). 19¾h to 21¼h Irregular wave in Dec. (− 8′), followed till 23h by a shallow wave (− 4′). 20h to 21h Truncated wave in N.F. (+ 21). 21¾h to 23h Wave in N.F. (+ 22).

22d 1¾h to 2½h Wave in Dec. (+ 4′). 13½h to 15¼h Irregular double wave in N.F. (+ 20, − 20). 14¾h to 18½h Wave in V.F. (+ 18). 16½h to 17¾h Sharp wave in Dec. (− 10′) : double wave in N.F. (− 20, + 37).

23d 1¾h to 2½h Sharp wave in N.F. (− 40). 2h to 3½h Wave in Dec. (+ 10′), steep at commencement. 2¼h to 5h Domed wave in V.F. (− 22). 4h to 6h Wave in N.F. (− 30). 4¼h to 5¼h Increase in Dec. (+ 5′). 17¾h to 19¼h Wave in N.F. (+ 28). 19h to 21½h Irregular triple wave in Dec. (− 10′, + 4′, − 7′). 19½h to 20¾h Steep double wave in N.F. (+ 95, − 24) : Wave in V.F. (− 25).

26d 22h to 22¾h Sharp wave in N.F. (+ 33).

27d 0½h to 1½h Wave in Dec. (+ 4′). 17h to 18h Wave in Dec. (− 5′), followed till 18½h by a decrease (− 5′). 17½h to 18h Wave in N.F. (+ 30). 20h to 22¾h Wave in Dec. (− 11′), steep at commencement. 20¼h to 21½h Wave in N.F. (+ 50).

29d 3½h to 5h Truncated Wave in Dec. (+ 4′). 3¾h to 4½h Irregular increase in N.F. (+ 33). 22¾h to 24h Shallow wave in Dec. (− 3′).

30d 16h to 31d 11h loss of V.F. Register. 30d 19h to 21h Wave in Dec. (− 8′).

31d 18¾h to 19½h Wave in Dec. (− 4′).

April

2d 0h to 1h Wave in Dec. (+ 5′). 0½h to 1½h Domed wave in N.F. (+ 20). 0½h to 1h Decrease in V.F. (− 12).

3d 22h to 4d 3½h Slow triple wave in Dec. (− 5′, + 3′, − 5′).

3d 23¾h to 4d 1h Decrease in V.F. (− 20).

4d 0¾h to 3h Flat-crested wave in N.F. (+ 23). 21¼h to 22h wave in N.F. (+ 25). 21½h to 22½h Wave in Dec. (− 4′), followed till 5d 1h by an irregular double wave (− 5′, + 10′). 4d 23¼h to 5d 0½h Irregular double wave in N.F. (− 22, + 33). 4d 23¾h to 5d 1h Domed wave in V.F. (− 25).

5d 1h to 2¼h Wave in Dec. (+ 11′). 1½h to 5½h Slow double wave in V.F. (− 12, + 13). 1¾h to 3¼h Wave in N.F. (+ 32). 3¼h to 4h Increase in Dec. (+ 5′). 4¼h to 5h Increase in Dec. (+ 6′). 5h to 5¼h Increase in N.F. (+ 20). 5½h to 6½h Decrease in N.F. (− 46). 13h to 17½h Increase in V.F. (+ 55). 17h to 19½h Wave in Dec. (− 8′), with several small waves superposed. 17¾h to 19½h Serrated wave in N.F. (+ 60). 21h to 22h Wave in Dec. (+ 6′), followed till 23½h by a sharp double wave (+ 13′, − 8′), the first portion double-crested. 21¾h to 23½h Triple wave in N.F. (+ 40, − 40, + 30). 22h to 22¾h Decrease in V.F. (− 35).

6d 0½h to 1¼h Double-crested wave in N.F. (− 20), followed till 1¼h by a wave (− 45). 1h to 3½h Double wave in Dec. (− 7′,+ 8′), both portions double-crested. 1h to 2h Irregular decrease in V.F. (− 22), followed till 2¾h by a domed wave (+ 18). 3h to 4¼h Increase and decrease in N.F. (+ 20, −43). 4¼h to 4½h Increase in Dec. (+ 6′). 9h to 11¾h Irregular wave in N.F. (− 45). 12¼h to 13h Wave in N.F. (− 28). 12½h to 14h Irregular serrated wave in Dec. (+ 9′), followed till 16½h by four successive waves (− 4′, −3′,− 3′,−4′). 13h to 14h Increase in V.F. (+ 50). 13¼h to 15½h Irregular wave in N.F. (+ 57), with small waves superposed. 17½h to 18¼h Truncated wave in N.F. (− 21). 17¾h to 18½h Wave in Dec. (− 3′). 18¾h to 20h Wave in Dec. (− 4′). 21h to 21½h Wave in Dec. (+ 10′), very steep at commencement : decrease in V.F. (− 28). 21¾h to 22¼h Decrease in Dec. (− 9′). 6d 22¾h to 7d 2h Irregular triple wave in Dec. (+ 4′,− 6′,+16′), the last two portions double-crested. 6d 23¼h to 24h Wave in N.F. (+ 26). 6d 23¼h to 7d 10½h Loss of V.F. register.

1918.

April

7d 0¼h to 1h Wave in N.F. (− 40), followed till 2½h by a Double wave (− 25,+25). 2¾h to 4h Wave in N.F. (− 42). 3h to 4h Domed wave in Dec. (+ 8′). 7d 23¾h to 8d 1¼h Double wave in Dec. (− 6′,+7′), the first portion slow, the second sharp.

8d 18h to 19h Truncated wave in N.F. (+ 25). 19h to 20½h Sharp wave in Dec. (− 11).

9d 4h to 4½h Increase in Dec. (+ 4′). 22h to 22½h Sharp wave in Dec. (+4′): decrease in V.F. (− 12). 22¼h to 23¾h Wave in N.F. (+ 30), steeper at commencement.

10d 21h Very sharp increase in Dec. (+ 3′), and N.F. (+ 40). 10d 22¾h to 11d 0¼h. Two successive waves in Dec. (+ 7′,+ 4′): decrease in V.F. (− 35). 10d 23½h to 11d 0¼h Wave in N.F. (+ 38).

11d 5h to 12d 5h. *See* Plate I.

12d 18h to 18¾h Wave in Dec. (− 3′).

15d 3h to 4h Wave in Dec. (+ 7′).

17d 16¼h Sudden decrease in N.F. (− 20).

18d 13h to 15h Increase in V.F. (+ 22). 14h to 15h Serrated truncated wave in N.F. (− 21), followed till 17¼h by a serrated double wave (− 33,+32). 20¾h to 22½h Double wave in Dec. (− 13′,+5′). 20¾h to 21¾h Wave in N.F. (+ 48). 22h to 22½h Decrease in V.F. (− 22). 22¼h to 23h Wave in N.F. (+ 33), steep at end. 23h to 23½h Decrease in Dec. (− 12′). 18d 23½h to 19d 0½h Irregular decrease in N.F. (− 40).

19d 0h to 0¾h Sharp movements in Dec. (+ 4′,− 3′,+ 5′), followed till 1½h by a sharp wave (− 13′). 0¾h to 1½h Sharp wave in N.F. (+ 52). 1½h to 6h Slow wave in V.F. (+ 30). 4¼h to 7h Irregular wave in Dec. (+ 12′). 4¾h to 7h Serrated flat-crested wave in N.F. (+ 33). 7h to 7½h Serrated wave in Dec. (+ 4′). 18h to 19h Wave in Dec. (− 3′).

20d 22¾h to 23¾h Wave in N.F. (+ 20), steep at commencement.

21d 20¼h to 20½h Sharp decrease in Dec. (− 8′). 20½h to 22½h Irregular Double wave in N.F. (+ 30,−30). 21¾h to 22¾h Wave in Dec. (+ 4′).

22d 21½h to 21¾h Decrease in Dec. (− 4′). 22h to 23h Wave in N.F. (+ 27). 22d 23¼h to 23d 1¾h Irregular double wave in N.F. (− 22,+ 20), followed till 3½h by a wave (− 30). 22d 23¾h to 23d 1¼h Wave in Dec. (+ 5′).

23d 2h to 4h Wave in Dec. (+ 6′). 8½h to 8¾h Sharp decrease in N.F. (− 30). 18½h to 19½h Waves in Dec. (− 6′) and N.F. (+ 30).

25d 1½h Sudden increase in Dec. (+ 6′) and N.F. (+ 20). 1½h to 3h Wave in V.F. (− 20). 1¾h to 2¼h Decrease in Dec. (− 12′). 20¾h to 21¼h Wave in Dec. (+ 4′). 21¾h to 22¾h Two successive sharp waves in Dec. (− 6′,− 6′), followed by a sudden decrease (− 8′). 22h to 22½h Sharp wave in N.F. (+ 26). 22h to 23h Irregular decrease in V.F. (− 42). 23h to 24h Wave in Dec. (− 9′): Sharp double wave in N.F. (−39, + 41), followed till 26d 1¼h by a wave (+ 48), followed till 1½h by an increase (+ 22).

26h 0h to 1h Wave in Dec. (− 5′). 0¼h to 8h Oscillatory wave in V.F. (− 40). 1¾h to 2¼h Increase in Dec. (+ 5′). 2h to 4h Irregular double wave in N.F. (+ 34,− 36), the first position domed, the second sharp. 2¾h to 5h Flat-crested wave in Dec. (+ 7′), with superposed fluctuations. 19½h to 20½h Sharp truncated wave in Dec. (− 10′): Sharp wave in N.F. (+ 55): decrease in V.F. (− 24).

27d 14¾h Sudden increase in N.F. (+ 20), followed till 16h by a wave (− 24).

28d 10½h to 29d 11½h Loss of N.F. register. 28d 19¾h to 21h Wave in Dec. (− 4′).

29d 21¼h to 21¾h Wave in N.F. (+ 27), very steep at commencement.

30d 4½h to 7½h Double wave in N.F. (+ 20,− 25). 5¼h to 7½h Two successive double-crested waves in Dec. (+ 4′,+ 5′). 16h to 16½h Increase in N.F. (+ 33), followed till 18½h by a wave (+ 70). 17¼h to 17½h Sharp decrease in Dec. (− 6′). 19½h to 21¾h Irregular decrease in V.F. (− 36). 20h to 21¼h Two successive sharp waves in Dec. (+10′,+ 5′) and N.F. (+ 60,+ 30).

30d 23h to 23½h Decrease in Dec. (− 8′), continued till May 1d 0½h by a double wave (− 3′,+ 3′). April 30d 23h to 24h Wave in N.F. (+ 35), followed till May 1d 4¼h by an irregular triple wave (+ 25,− 20,+ 25).

May

1d 0¼h to 0½h Decrease in V.F. (− 13). 1¾h to 2h Sharp increase in Dec. (+ 9′). 1¾h to 2¼h Decrease in V.F. (− 18). 2¼h to 3h Decrease in Dec. (− 5′). 4h to 5h Wave in Dec. (+ 5′). 20h to 20½h Increase in Dec. (+ 5′). 21h to 22h Double wave in Dec. (+ 3′− 4′). 21h to 21½h Sharp wave in N.F. (+ 37). 21h to 21¼h Decrease in V.F. (− 12).

2d 1¼h to 2h Wave in Dec. (+ 4′). 2d 23½h to 3h 0½h Wave in Dec. (+ 5′).

4d 15h to 16h Domed wave in N.F. (− 20). 16½h to 18h Wave in N.F. (+ 21).

5d 7¼h to 8h Wave in Dec. (− 5′). 13h to 15h Increase in V.F. (+45). 17¼h to 19½h Double-crested wave in N.F. (+ 47). 18¼h to 20h Wave in Dec. (− 4′).

6d 4h to 5¼h Wave in Dec. (+ 3′).

8d 10½h to 16h Wave in Dec. (+ 10′).

1918.

May

11d 13¼h to 14½h Wave in N.F. (+ 22). 20h to 22h Wave in Dec. (− 13′), steep at commencement. 20¼h to 21h Steep wave in N.F. (+ 40).

12d 0h to 0½h Decrease in Dec. (− 4′). 14¼h to 15½h Wave in N.F. (+ 27). 22¾h to 24h Wave in Dec. (− 4′).

13d 0¼h to 1¼h Wave in Dec. (− 4′). 14¾h to 16h Wave in N.F. (+ 20).

14d 6½h Sudden sharp wave in Dec. (− 4′). 21¾h to 22h Sharp decrease in N.F. (− 30). 23¼h to 23¾h Decrease in V.F. (− 12). 14d 23½h to 15d 1¾h Irregular slow wave in Dec. (− 5′).

15d 13¼h to 13¾h Waves in Dec. (− 4′) and N.F. (− 30), very steep at commencement. 16¼h to 18¼h Two successive waves in Dec. (− 4′,− 4′) and N.F. (+ 35,+ 20), the second truncated. 20¾h to 22h Double-crested wave in Dec. (− 8′). 21h to 21½h Wave in N.F. (+ 22).

16d 0h to 2h Double wave in Dec. (+ 3′,− 5′). 0h to 1h Domed wave in N.F. (+ 20). 0¼h to 0¾h Decrease in V.F. (− 12). 15h to 16¾h Irregular wave in N.F. (− 23).

16d 17h to 17d 17h. *See* Plate II.

17d 19h to 20½h Wave in Dec. (− 12′), with pauses at 9¼h to 19½h on first movement, and 20h to 20¼h on second : irregular waves in N.F. (+ 80) and V.F. (+ 16). 21¾h to 22½h Waves in Dec. (+ 7) and N.F. (+ 28) : decrease in V.F. (− 28). 17d 23¼h to 18d 0¾h Truncated wave in Dec. (− 6′).

18d 0h to 0¾h Decrease in N.F. (− 40). 2¼h to 3h Serrated domed wave in Dec. (− 3′) 2¾h to 3¾h Wave in N.F. (− 33). 3½h to 5½h Serrated double wave in Dec. (− 3′,+ 4′), followed by short sharp fluctuations till 8½h. 4¾h to 5½h Wave in N.F. (− 30). 5h to 7h Wave in V.F. (− 16). 8½h to 9½h Domed wave in N.F. (− 26). 14¾h to 16h Serrated domed wave in N.F. (+ 35). 16½h to 17¾h Domed wave in N.F. (+ 34). 18¼h to 19½h Wave in Dec. (− 4′). 20¾h to 21¾h Sharp wave in Dec. (− 9′). 21¼h to 22h Irregular wave in N.F. (+ 32). 22h to 24h Irregular double-crested wave in Dec. (− 6′) 18d 23¼h to 19d 0¼h Wave in N.F. (− 26).

19d 0h to 0¾h Serrated wave in Dec. (+ 4′). 1½h to 2½h Truncated wave in Dec. (+ 4′) : decrease in V.F. (− 14). 15¼h to 16h Wave in N.F. (+ 40), steep at commencement. 18¼h to 19½h Wave in N.F. (+ 50). 22h to 23¼h Sharp wave in Dec. (+ 7′). 22¼h to 23h Decrease in V.F. (− 16). 19d 23½h to 20d 1¾h Double wave in Dec. (+ 3′,− 3′).

20d 0¾h to 2h Irregular wave in N.F. (− 30). 16h to 16¾h Wave in N.F. (− 23). 18½h to 19¾h Wave in Dec. (− 4′). 18¾h to 20¾h Flat-crested wave in N.F. (+ 32.) 22h to 22¾h Decrease in V.F. (− 13). 22¼h to 23h Wave in Dec. (+ 4′). 22½h Sharp decrease in N.F. (− 23). 20d 23¼h to 21d 2h Double wave in Dec. (− 6′,+ 5′), the first portion truncated. 20d 23¾h to 21d 2h Irregular double-crested wave in N.F. (− 32).

21d 0½h to 1½h Decrease in V.F. (− 16). 2½h to 2¾h Decrease in N.F. (− 25). 22¼h to 22½h Sharp increase in N.F. (+ 24).

30d 0h to 1h Wave in Dec. (− 4′). 3½h to 5h Wave in Dec. (+ 6′). 14¼h to 14¾h Increase in N.F. (+ 25). 15h to 16h Wave in N.F. (− 23).

June

1d 11½h to 2d 10½h Loss of V.F. register.

6d 12½h to 13¼h Wave in N.F. (+ 24). 16¾h to 17½h Wave in N.F. (+ 20). 6d 23¼h to 7d 0½h Wave in Dec. (+ 4′).

7d 1¼h to 2½h Truncated wave in Dec. (+ 4′).

8d 11¼h to 12½h Domed wave in N.F. (− 25).

9d 17¼h to 18h Wave in N.F. (+ 23). 19h to 20h Wave in N.F. (+ 20). 19½h to 20h Decrease in Dec. (− 8′). 20¾h to 21h Very sharp wave in N.F. (+ 22). 21h to 22¼h Two successive waves in Dec. (− 5′,− 8′), the second very steep, followed till 22½h by a decrease (− 8′). 21½h to 22½h Sharp wave in N.F. (+ 45). 21¾h to 23h Wave in V.F. (− 17), followed till 23¾h by an irregular decrease (− 21). 22½h to 24h Domed wave in Dec. (+ 7′), with sharper wave (+ 5′), superposed from 23h to 23¼h. 9d 23h to 10d 3h Very irregular triple wave in N.F. (+ 75,− 60,+ 40), with several sharp movements superposed.

10d 0¾h to 3h Irregular double-crested wave in Dec. (+ 17′), with superposed fluctuations, followed till 4h by a serrated domed wave (+ 5′). 1¾h to 3h Sharp wave in V.F. (− 35). 7¼h to 8½h Sharp decrease in N.F. (− 100). 9h to 10h Serrated wave in Dec. (+ 4′). 9½h to 10¼h Wave in N.F. (− 20). 10¾h to 11¼h Sharp wave in Dec. (− 5′), followed by sharp fluctuations till 13¼h. 12h to 13½h Irregular increase in V.F. (+ 90), followed till 15¼h by a wave (+ 18). 13¼h to 13½h Wave in Dec. (− 4′). 13¼h to 14¼h Double wave in N.F. (+ 20,− 21), the first portion truncated. 14h to 14½h Wave in Dec. (− 4′). 17½h to 18h Sharp decrease and increase in Dec. (− 7′,+ 4′). 17¾h Sharp increase in N.F. (+ 36), followed by slower partial return. 20½h to 22h Decrease in V.F. (− 56). 21¾h to 23¾h Two successive double waves in Dec. (− 7′,+ 7′) and (+ 6′,− 3′), the second portion of the first truncated, all the other movements sharp. 20¾h to 21¼h Sharp wave in N.F. (+ 54). 21½h to 22h Sharp movements in N.F. (+ 35,− 40,+ 35), followed till 22½h by slower decrease (− 20). 22¼h to 22½h Decrease in Dec. (− 3′).

11d 2h to 3½h Flat-crested wave in Dec. (+ 4′). Wave in N.F. (− 30). 6¾h to 8h Wave in Dec. (+ 4′). 12½h to 13¼h Wave in N.F. (− 27). 15¼h to 16¾h Rounded wave in N.F. (− 22). 19h to 20h Wave in N.F. (+ 20). 20¾h to 21½h Wave in N.F. (+ 20). 21¾h to 22¾h Truncated wave in Dec. (+ 4′).

1918.

June

12d 1h to 3½h Irregular wave in Dec. (+ 10′). 1h to 2¾h Wave in N.F. (− 40), steeper at commencement. 1½h to 2h Decrease in V.F. (− 19), followed till 7h by an irregular wave (− 30). 3¾h to 5h Wave in Dec. (+ 6′). 4h to 5¾h Wave in N.F. (− 45), sharp at commencement. 6¼h to 7¼h Small sharp fluctuations in Dec. 12¼h to 13¼h Wave in N.F. (− 22). 15h to 16¼h Wave in N.F. (− 23). 17¼h to 17¾h Decrease in Dec. (− 7′). 20¼h to 21h Double wave in Dec. (− 3′,+ 3′), the second portion double-crested. 20½h to 21h Decrease in V.F. (− 23). 23¼h to 23½h Decrease in V.F. (− 18).

13d 0h to 1¼h Double-crested wave in Dec. (− 4′). 1h to 5h Irregular wave in V.F. (− 19). 2h to 2½h Domed wave in Dec. (+ 5′). 21h to 22h Wave in N.F. (+ 22). 13d 22½h to 14d 0½h Wave in Dec. (− 5′).

14d 3h to 5¼h Wave in N.F. (− 21). 6½h to 7¼h Wave in Dec. (+ 4′). 12h to 13h Increase in N.F. (+ 40).

15d 0h to 1¼h Wave in Dec. (− 6′). 0¾h to 3h Wave in N.F. (+ 20). 6h to 7h Wave in Dec. (− 3′), with sharp superposed fluctuations. 7½h to 9h Wave in N.F. (− 30). 11h to 12h Wave in N.F. (− 20). 13¾h Very sudden fluctuations in N.F., followed till 14½h by a wave (− 27). 16½h to 17½h Wave in N.F. (+ 38). 18¾h Sharp increase in N.F. (+ 37). 19½h to 20h Sharp wave in Dec. (− 6) : sharp movements in N.F. (− 32,+ 37,− 45). 21½h to 23h Double wave in Dec. (+ 3′,− 4′), the intermediate movement steep. 23h to 24h Wave in N.F. (+ 20).

16d 0¼h Sudden increase in Dec. (+ 4′). 0¾h to 4¾h Double wave in Dec. (+ 5′,− 7′). 1¾h to 2h Serrated increase in N.F. (+ 30). 2¾h to 5½h Wave in N.F. (− 40). 16h to 17½h Domed wave in N.F. (− 30). 17h to 18h Wave in Dec. (− 3′), followed till 20h by a slow wave (− 4′). 18¼h to 19h Wave in N.F. (− 20). 20¾h to 21¾h Two successive waves in Dec. (− 3′,− 3′). 23½h to 23¾h Sudden decrease in Dec. (− 4′) and increase in N.F. (+ 30).

17d 18¾h to 19¼h Sharp wave in Dec. (− 5′). 19h to 20h Wave in N.F. (+ 35), steep at commencement. 20¼h to 21½h Domed wave in N.F. (+ 24). 21½h to 22h Sharp wave in Dec. (+ 4′). 22h to 22¾h Domed wave in N.F. (+ 20).

18d 20¼h to 20¾h Decrease in N.F. (− 21).

20d 23¼h to 23½h Sharp decrease in Dec. (− 6′). 20d 23¼h to 21d 0¾h Truncated wave in N.F. (+ 29).

21d 11h to 11½h Increase in N.F. (+ 26). 17¾h to 18½h Sharp double-crested wave in N.F. (+ 20). 22h Sharp increase in N.F. (+ 20).

26d 15½h to 15¾h Increase in N.F. (+ 22). 17¼h to 19h Irregular double wave in N.F. (− 20, + 20), the second portion truncated. 19½h to 20½h Increase (+ 20), and decrease (− 35) in N.F. 21½h to 22h Sharp wave in N.F. (+ 22).

30d 13½h to 19h Loss of Dec., N.F., and V.F. registers.

July

1d 15h to 15¼h Sharp increase in N.F. (+ 60). 17h to 18h Truncated wave in N.F. (− 50).

2d 0h to 1h Wave in Dec. (+ 3′). 21¼h to 21¾h Decrease in Dec. (− 4′). 22¾h Sharp decrease in N.F. (− 20).

3d 4h to 5h Decrease in Dec. (− 7′). 6¼h to 6½h Increase in Dec. (+ 4′). 13¼h to 13½h Increase in N.F. (+ 27). 15¼h to 15¾h Increase in N.F. (+ 30).

8d 0h to 0¼h Sharp decrease in N.F. (− 25), with partial return. 2¼h to 3½h Decrease in Dec. (− 15′), and N.F. (− 22). 3¾h to 4½h Increase in Dec. (+ 5′). 6h to 7h Serrated wave in Dec. (− 3′). 7¼h to 7½h Increase in Dec. (+ 5′).

9d 14¼h to 15½h Wave in N.F. (+ 21). 15¾h to 16¼h Wave in N.F. (+ 20). 19¼h to 22h Wave in N.F. (+ 40). 19¾h to 21½h Wave in Dec. (− 7′). 23¾h Sharp decrease in Dec. (− 3′). 9d 23¾h to 10d 0¼h Sharp wave in N.F. (+ 32).

10d 22h to 11d 1½h Irregular quadruple wave in Dec. (− 6′,+6′,−8′,+ 5′). 10d 23h to 11d 3h Irregular double-crested wave in V.F. (− 25).

11d 0¾h to 2h Wave in N.F. (− 35). 4h to 4½h Decrease in N.F. (− 20). 4¼h to 4¾h Increase in Dec. (+ 4′). 6½h to 7h Decrease in Dec. (− 5′). 14½h to 16h Wave in N.F. (+ 28). 19h to 19½h Decrease in Dec. (− 6′). 19½h to 20½h Double-crested wave in N.F. (+ 30). 23h to 24h Wave in Dec. (+ 5′).

12d 21h to 21½h Truncated wave in Dec. (− 3′).

13d 2¼h to 3¼h Wave in Dec. (+ 4′). 13¼h to 14½h Wave in Dec. (− 3′). 13¾h to 14¾h Increase in N.F. (+ 48). 15¼h to 16h Decrease in Dec. (− 7′).

14d 15¾h to 16¼h Wave in N.F. (+ 20). 18h to 19¼h Wave in N.F. (+ 54), with sharp wave (− 30) superposed from 18½h to 18¾h. 21h to 22¼h Irregular wave in N.F. (+ 26). 21½h to 22¼h Decrease in V.F. (− 20). 22h to 22¾h Decrease in Dec. (− 6′).

15d 0h to 3h Irregular serrated wave in Dec. (+ 7′). 0¾h to 3¼h Wave in V.F. (− 18). 1h to 1½h Wave in N.F. (− 20). 15d 23h to 16d 0¼h Wave in N.F. (+ 20). 15d 23½h to 16d 1h Wave in Dec. (+ 5′).

16d 18¼h to 20h Wave in N.F. (+ 22).

18d 2h to 2¾h Wave in Dec. (− 3′).

1918.

July

25d 7h Sudden increase in Dec. (+ 6′). 13h to 14½h Wave in N.F. (− 33). 15h to 21h Wave in V.F. (+ 70). 16h to 17½h Irregular wave in N.F. (− 36), followed till 19h by a double wave (− 37,+ 28). 17h Sharp decrease in Dec. (− 5′). 18h Sharp decrease in Dec. (− 5′). 18¼h to 20h Wave in Dec. (− 9′).

26d 3½h to 5¾h Wave in Dec. (+ 7′). 17¾h to 19h Wave in Dec. (− 4′). 18h to 19h Wave in N.F. (+ 27). 22¼h to 24h Wave in Dec. (− 4′).

27d 2¼h to 3¼h Wave in Dec. (+ 3′). 2¼h to 3h Wave in N.F. (− 20). 18½h to 19¾h Wave in N.F. (+ 24). 27d 23½h to 28d 0¼h Double wave in Dec. (+ 3′,− 4′), followed till 1h by a wave (− 3′). 27d 23¾h to 28d 0½h Wave in N.F. (+ 20).

28d 1½h to 4¾h Irregular triple wave in Dec. (+ 4′, − 3′,+ 5′). 1¾h to 3½h Wave in V.F. (− 13). 10h to 12¼h Wave in N.F. (− 48). 15½h to 16h Increase in N.F. (+ 42). 17h to 18½h Two successive waves in N.F. (− 20,−32). 17½h to 18¼h Decrease in Dec. (− 8′). 17¾h to 19½h Wave in V.F. (+ 14). 21h to 23h Sharp sextuple wave in Dec. (− 4′,+ 8′,− 12′,+ 11′,− 7′,+ 6′), followed till 23½h by a decrease (− 5′). 21h to 21½h Sharp wave in N.F. (+ 45), followed till 21¾h by an increase (+ 60). 21h to 21½h Irregular decrease in V.F. (− 45). 23h to 24h Sharp movements in N.F. (− 100,+ 67,−45).

29d 0¾h to 1h Very sharp wave in Dec. (+ 11′): sharp increase in N.F. (+ 30), followed by slower partial return : sharp decrease in V.F. (− 36), followed till 3½h by an increase (+ 54). 3h to 6h Slow double-crested wave in Dec. (+ 8′). 4h to 7h Rounded wave in N.F. (+ 40). 7h to 9½h Loss of Dec., N.F., and V.F. registers. 19½h to 21½h Wave in Dec. (− 5′).

30d 0h to 3h Double wave in Dec. (+ 7′,− 5′), the first portion truncated. Wave in V.F. (− 30). 6h to 8½h Wave in Dec. (+ 7′). 6h to 7½h Domed wave in N.F. (− 40). 14¼h to 15¾h Domed wave in N.F. (− 30). 23½h to 31d 0½h Double wave in Dec. (− 3′,+ 3′). Wave in N.F. (+ 20).

31d 3½h to 5h Wave in N.F. (− 23). 13¼h to 15½h Wave in N.F. (− 46). 20h to 21h Sharp wave in Dec. (− 9′). 20¼h to 21¼h Wave in N.F. (+ 32), steep at commencement. 23¾h to 24h Decrease in Dec. (− 4′).

August

1d 0h to 1h Decrease in N.F. (− 30).

2d 6¼h to 8½h Wave in N.F. (− 32). 16¾h to 17h Sharp double-crested wave in Dec. (+ 3′). 16¾h to 17½h Double wave in N.F. (+ 50,−23), the first portion very steep and double-crested, followed till 18h by a sharp wave (+ 43). 18¼h to 18½h Increase in N.F. (+ 25). 22½h to 24h Wave in Dec. (+ 3′).

3d 1h to 1½h Increase in Dec. (+ 8′). 2¾h to 6h Wave in V.F. (− 20). 3½h to 5h Truncated wave in N.F. (+ 20). 4h to 4½h Decrease in Dec. (− 6′). 22¾h to 24h Double-crested wave in Dec. (+ 3′).

4d 19½h to 21¾h Irregular wave in N.F. (+ 35). 21½h to 22¼h Wave in Dec. (− 4′), followed till 23½h by an irregular wave (− 3′).

5d 15¼h to 16½h Wave in N.F. (+ 25). 17h to 18¾h Double wave in N.F. (− 29,+ 24). 18½h to 19½h Wave in Dec. (− 6′). 19½h to 21h Two successive waves in N.F. (− 20, −20).

6d 1½h to 3h Wave in Dec. (+ 5′). 8h to 10h Wave in N.F. (− 30). 12¼h to 13h Wave in N.F. (+ 20). 13½h to 14h Wave in N.F. (− 30). 18¼h to 19h Wave in N.F. (+ 22). 21h to 22h Wave in N.F. (+ 23). 6d 23½h to 7d 0½h Wave in Dec. (+ 3′).

7d 18½h to 20½h Triple wave in N.F. (+ 37,− 23,+ 31), the first portion domed : wave in V.F. (+ 13). 19¼h to 20½h Wave in Dec. (− 4′). 22¼h to 23h Wave in N.F. (− 23). 23h to 23½h Wave in Dec. (+ 6′). 23¼h to 24h Decrease in V.F. (− 16). 7d 23¾h to 8d 0½h Waves in Dec. (− 3′) and N.F. (− 35).

8d 1¼h to 3¼h Wave in Dec. (− 5′). 14½h to 16¾h Truncated wave in N.F. (+ 43), with sharp wave (− 35), superposed from 15½h to 16h. 15½h to 16¼h Wave in Dec. (− 5′). 18¼h to 20h Wave in Dec. (− 7′). 21½h to 22h Sharp wave in N.F. (+ 30). 22h to 23½h Double-crested wave in Dec. (− 4′). 22¾h to 23¼h Decrease in N.F. (− 30).

9d 0¾h to 1½h Waves in Dec. (+ 7′), and N.F. (− 20). 2½h to 4h Wave in N.F. (− 25). 3h to 5h Wave in Dec. (+ 8′). 15¼h to 15½h Sharp decrease in Dec. (− 4′), and increase in N.F. (+ 48). 17¾h to 18¼h Domed wave in N.F. (+ 20). 18¾h to 20h Wave in N.F. (+ 20). 20¾h to 22¼h Irregular wave in Dec. (− 7′). 21h to 22¾h Double-crested wave in N.F. (+ 50).

10d 0h to 1½h Wave in Dec. (+ 6′). 20¼h to 20½h Sharp wave in N.F. (+ 23). 20½h Sharp decrease in Dec. (− 4′).

11d 0¾h to 1¼h Domed wave in Dec.(+ 3′). 2½h to 4½h Wave in Dec. (+ 6′). 12¼h to 13¼h Wave in N.F. (− 22). 14½h to 14¾h Decrease in Dec. (− 5′). 21h to 21¾h Wave in Dec. (+ 3′). 22¼h to 22¾h Decrease in Dec. (− 4′).

12d 3¾h to 5h Wave in Dec. (+ 4′). 5½h to 7½h Flat-crested wave in N.F. (− 24), with small superposed fluctuations.

13d 21½h to 23h Wave in N.F. (+ 30), steep at commencement.

14d 12h to 12¾h Waves in Dec. (− 3′), and N.F. (− 20). 20½h Sharp decrease in Dec. (− 5′). 22¼h to 24h Two successive waves in N.F. (− 21,− 20). 23h to 23½h Decrease in V.F. (− 13). 22¾h to 23¾h Wave in Dec. (+ 7′).

15d 15h to 16d 15h. *See* Plate II.

1918.

August

20^d $13\frac{3}{4}^h$ to 15^h Wave in N.F. (− 30), steep at commencement.

21^d $5\frac{1}{2}^h$ to 6^h Wave in Dec. (− 3′).

22^d $16\frac{3}{4}^h$ to $18\frac{1}{4}^h$ Wave in N.F. (− 20).

23^d $15\frac{1}{4}^h$ to 17^h Wave in N.F. (− 25).

24^d 8^h to $9\frac{1}{4}^h$ Wave in N.F. (− 20). $13\frac{1}{4}^h$ to $14\frac{1}{4}^h$ Wave in N.F. (− 25). 15^h to 22^h Slow wave in V.F. (+ 36). 16^h to 18^h Irregular double wave in N.F. (− 24, + 20). $17\frac{1}{2}^h$ to 18^h Decrease in Dec. (− 8′). $20\frac{3}{4}^h$ to $21\frac{3}{4}^h$ Sharp double-crested wave in Dec. (− 6′). $20\frac{3}{4}^h$ to 22^h Irregular triple-crested wave in N.F. (+ 48). 22^h to $22\frac{1}{4}^h$ Decrease in Dec. (− 5′). 24^d $23\frac{3}{4}^h$ to 25^d 2^h Triple wave in Dec. (+ 9′, − 5′, + 7′), the middle portion domed, followed till $4\frac{1}{4}^h$ by two successive waves (+ 6′, + 17′). 24^d $23\frac{3}{4}^h$ to 25^d $1\frac{1}{4}^h$ Sharp wave in V.F. (− 29).

25^d $0\frac{3}{4}^h$ to $1\frac{3}{4}^h$ Wave in N.F. (− 33). $1\frac{1}{2}^h$ to 3^h Irregular wave in V.F. (− 13), followed till 6^h by a wave (− 36). 3^h to $4\frac{3}{4}^h$ Double wave in N.F. (− 30, + 20). 7^h to 8^h Decrease in N.F. (− 52). $7\frac{1}{2}^h$ to $8\frac{1}{4}^h$ Increase in Dec. (+ 8′). 9^h to $9\frac{1}{4}^h$ Sharp movements in Dec. (− 3′, + 5′). $11\frac{1}{4}^h$ to $12\frac{1}{2}^h$ Wave in N.F. (− 40). $11\frac{1}{2}^h$ to $11\frac{3}{4}^h$ Increase in Dec. (+ 4′). $16\frac{1}{2}^h$ to 19^h Irregular wave in V.F. (+ 17). $16\frac{3}{4}^h$ to $17\frac{1}{2}^h$ Wave in N.F. (+ 37).

26^d $0\frac{1}{2}^h$ to 2^h Irregular double wave in Dec. (− 4′, + 3′), followed till $3\frac{1}{2}^h$ by a wave (+ 8′). $0\frac{1}{2}^h$ to 6^h Irregular wave in V.F. (− 42). $1\frac{3}{4}^h$ to $2\frac{3}{4}^h$ Double-crested wave in N.F. (− 32). 4^h to $4\frac{3}{4}^h$ Wave in Dec. (− 4′). 4^h to $5\frac{3}{4}^h$ Irregular wave in N.F. (− 23). $5\frac{1}{2}^h$ to 6^h Wave in Dec. (− 3′). $12\frac{1}{2}^h$ to $13\frac{1}{4}^h$ Double-crested wave in Dec. (+ 4′). $12\frac{1}{2}^h$ to 14^h Double-crested wave in N.F. (− 24), followed till 15^h by a wave (− 24). 15^h to $16\frac{1}{4}^h$ Irregular decrease in Dec. (− 7′). $15\frac{1}{4}^h$ to 17^h Double wave in N.F. (− 32, + 20). $18\frac{1}{2}^h$ to $19\frac{3}{4}^h$ Wave in Dec. (− 5′). 19^h to 20^h Wave in N.F. (+ 20). 22^h to 23^h Decrease in Dec. (− 6′), followed till $23\frac{1}{4}^h$ by a sharp wave (+ 5′). $23\frac{1}{4}^h$ Sharp increase in N.F. (+ 40); decrease in V.F. (− 12). $23\frac{3}{4}^h$ to 24^h Increase in Dec. (+ 5′): decrease in N.F. (− 25).

27^d $0\frac{1}{4}^h$ to $0\frac{1}{2}^h$ Decrease in Dec. (− 5′). $3\frac{3}{4}^h$ to 6^h Wave in Dec. (+ 5′). $4\frac{1}{2}^h$ to $7\frac{1}{2}^h$ Domed wave in N.F. (+ 46). $9\frac{1}{2}^h$ to $10\frac{3}{4}^h$ Wave in N.F. (− 38). $13\frac{1}{4}^h$ to $13\frac{1}{2}^h$ Decrease in Dec. (− 7′). $13\frac{1}{4}^h$ to $14\frac{1}{2}^h$ Truncated wave in N.F. (+ 25). 18^h to $19\frac{1}{4}^h$ Steep wave in Dec. (− 10′). $18\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Wave in N.F. (+ 48).

28^d $0\frac{1}{2}^h$ to $1\frac{1}{4}^h$ Waves in Dec. (+ 7′) and N.F. (+ 35). $0\frac{1}{2}^h$ to 2^h Wave in V.F. (− 12).

29^d 0^h to 1^h Wave in Dec. (+ 7′), steep at commencement. 0^h to $0\frac{1}{4}^h$ Sharp increase in N.F. (+ 20). $0\frac{1}{4}^h$ to $0\frac{1}{2}^h$ Decrease in V.F. (− 15).

30^d $23\frac{3}{4}^h$ to 31^d $0\frac{1}{2}^h$ Wave in Dec. (− 3′).

31^d 15^h to 16^h Wave in N.F. (+ 27). $17\frac{1}{4}^h$ to $18\frac{1}{4}^h$ Increase in N.F. (+ 63). 19^h to $19\frac{1}{4}^h$ Sharp decrease in Dec. (− 16′), followed till 21^h by irregular increase (+ 12′). 19^h to $19\frac{1}{2}^h$ Sharp wave in N.F. (− 54): increase in V.F. (+ 12), followed till September 1^d $0\frac{1}{2}^h$ by an irregular decrease (− 32). $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Irregular serrated wave in N.F. (− 30). 22^h to 23^h Irregular wave in Dec. (− 4′). 21^h to $22\frac{1}{2}^h$ Increase in V.F. (+ 22). $23\frac{1}{4}^h$ to $23\frac{1}{2}^h$ Very sharp wave in N.F. (− 40).

September

1^d $0\frac{1}{4}^h$ to $0\frac{1}{2}^h$ Sharp decrease in Dec. (− 9′). $0\frac{1}{2}^h$ to $1\frac{1}{2}^h$ Double wave in N.F. (− 20, + 30): wave in V.F. (+ 12). $0\frac{3}{4}^h$ to $1\frac{3}{4}^h$ Wave in Dec. (− 8′). $2\frac{1}{2}^h$ to $3\frac{1}{4}^h$ Wave in Dec. (− 5′), followed by sharp fluctuations in Dec. and N.F. till 9^h. $10\frac{1}{4}^h$ to $10\frac{1}{2}^h$ Sharp decrease in N.F. (− 25). $12\frac{3}{4}^h$ to 15^h Irregular triple-crested wave in Dec. (+ 8′). $12\frac{3}{4}^h$ to 14^h Double wave in N.F. (+ 28, − 20), followed till 16^h by another double wave (− 40, + 20). $12\frac{3}{4}^h$ to $15\frac{3}{4}^h$ Serrated increase in V.F. (+ 35). $16\frac{1}{4}^h$ to 18^h Irregular wave in N.F. (+ 35). 19^h to $20\frac{1}{4}^h$ Wave in Dec. (− 5′). $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Wave in Dec. (+ 4′). $21\frac{3}{4}^h$ to $22\frac{1}{4}^h$ Sharp wave in N.F. (+ 31).

2^d 0^h to 2^h Slow wave in V.F. (− 13). $7\frac{1}{2}^h$ to $9\frac{1}{2}^h$ Wave in N.F. (− 21). $20\frac{3}{4}^h$ to $21\frac{1}{4}^h$ Wave in N.F. (+ 20). 2^d $23\frac{1}{2}^h$ to 3^d 1^h Domed wave in N.F. (+ 37): decrease in V.F. (− 14).

3^d $4\frac{1}{2}^h$ to 6^h Truncated wave in Dec. (+ 4′). $6\frac{3}{4}^h$ to 8^h Wave in Dec. (+ 4′), with sharp superposed fluctuations. 14^h to 19^h Wave in V.F. (+ 24). $15\frac{3}{4}^h$ to $6\frac{1}{2}^h$ Decrease in Dec. (− 8′). 16^h to $16\frac{3}{4}^h$ Wave in N.F. (+ 22). $20\frac{1}{4}^h$ to 21^h Truncated wave in Dec. (+ 4′). $21\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Domed wave in N.F. (− 38), with double-crested wave (+ 25) superposed from $22\frac{1}{4}^h$ to 23^h. 22^h to 24^h Irregular wave in Dec. (+ 11′). $22\frac{1}{2}^h$ to 23^h Irregular decrease in V.F. (− 14).

4^d $0\frac{1}{4}^h$ to $2\frac{1}{2}^h$ Irregular wave in Dec. (+ 10′). $0\frac{1}{2}^h$ to $1\frac{1}{2}^h$ Decrease in V.F. (− 18). $0\frac{3}{4}^h$ to $1\frac{3}{4}^h$ Wave in N.F. (+ 30). 2^h to $3\frac{1}{2}^h$ Serrated wave in N.F. (+ 22). 11^h to $11\frac{1}{2}^h$ Serrated wave in N.F. (− 22). 19^h to 20^h Wave in Dec. (− 3′), followed till $21\frac{1}{4}^h$ by a steeper wave (− 8′). 20^h to $21\frac{1}{4}^h$ Wave in N.F. (+ 35). $21\frac{3}{4}^h$ to 22^h Sharp increase in Dec. (+ 6′). $21\frac{3}{4}^h$ to $23\frac{1}{2}^h$ Wave in N.F. (+ 32). 22^h to 24^h Wave in V.F. (− 14), followed till 5^d 3^h by a sharper wave (− 28). 4^d $23\frac{3}{4}^h$ to 5^d $1\frac{3}{4}^h$ Double wave in Dec. (+ 5′, − 5′), the first portion truncated: irregular domed wave in N.F. (+ 45).

5^d 15^h to $15\frac{3}{4}^h$ Increase in N.F. (+ 45). $15\frac{3}{4}^h$ to 17^h Wave in Dec. (− 5′). $17\frac{3}{4}^h$ to 19^h Decrease in Dec. (− 7′), with very sharp wave (− 10′), superposed from 18^h to $18\frac{1}{2}^h$. $18\frac{1}{4}^h$ to 19^h Waves in N.F. (+ 60) and V.F. (+ 12). 5^d $23\frac{1}{4}^h$ to 6^d $0\frac{1}{2}^h$ Truncated wave in Dec. (+ 4′). 5^d $23\frac{1}{4}^h$ to 6^d $0\frac{1}{4}^h$ Decrease in V.F. (− 12).

1918.
September

6d 15¼h to 16¼h Wave in N.F. (+ 32). 15½h to 19¼h Irregular wave in V.F. (+ 21). 17h to 19h Very irregular waves in Dec. (− 6′) and N.F. (+ 55). 22h to 23¼h Wave in N.F. (+ 36) : decrease in V.F. (− 12). 23½h to 24h Decrease in N.F. (− 20).

7d 0¼h to 0½h Increase in Dec. (+ 4′). 16h to 18h Wave in Dec. (− 5′).

8d 0h to 1¼h Double-crested wave in Dec. (+ 4′). 0h to 3¼h Slow wave in V.F. (− 16). 0¼h to 1¼h Wave in N.F. (+ 30). 3¼h to 4½h Wave in N.F. (+ 28). 4½h to 6h Wave in Dec. (+ 8′). 4¾h to 6½h Wave in V.F. (− 12). 8½h to 9¾h Wave in N.F. (− 40). 20h to 21h Wave in Dec. (− 4′).

9d 1h to 1½h Waves in Dec. (− 3′) and N.F. (− 20). 1¾h to 4h Truncated wave in Dec. (+ 8′). 2¼h to 3½h Domed wave in N.F. (− 23). 20¾h to 21¾h Wave in N.F. (− 26). 21½h to 21¾h Wave in Dec. (− 3′). 22¼h to 23¾h Wave in Dec. (− 3′).

10d 18½h to 19½h Wave in Dec. (− 4′). 21½h to 22¾h Wave in Dec. (− 8′).

13d 2h to 3¼h Wave in Dec. (+ 3′). 14¼h Decrease in Dec. (− 4′). 14¼h to 15h Wave in N.F. (− 21). 14½h to 18h Wave in V.F. (+ 16).

14d 18½h to 20h Wave in Dec. (− 4′).

15d 23¾h to 16d 4h Irregular triple wave in Dec. (− 6′,+ 5′,− 6′).

16d 1½h to 4h Truncated wave in N.F. (+ 41). 1½h to 2½h Decrease in V.F. (− 22). 15¾h to 16½h Wave in N.F. (+ 22). 15¾h to 19h Wave in V.F. (+ 28). 20¼h to 23h Irregular double wave in Dec. (− 15′,+ 5′). 21½h to 22¾h Truncated wave in V.F. (+ 17). 16d 23½h to 17d 2h Irregular double wave in Dec. (− 7′,+ 4′).

17d 0½h to 2h Wave in N.F. (− 21). 4h to 5¼h Wave in Dec. (+ 7′). 4¼h to 5½h Wave in N.F. (+ 24). 4½h to 6h Wave in V.F. (− 16). 12¾h to 13h Sharp decrease in Dec. (− 4′). 12¾h to 14¼h Wave in N.F. (+ 21). 14h to 16½h Increase in V.F. (+ 25). 16¾h Sharp decrease in Dec. (− 5′) and N.F. (− 20). 21h to 22h Double wave in Dec. (+ 4′,− 2′) : in N.F. small. 23h to 24h Wave in N.F. (+ 22).

18d 4¾h to 5h Increase in Dec. (+ 6′). 5½h to 7¼h Wave in Dec. (+ 8′). 7½h to 8¾h Wave in Dec. (+ 4′). 20¼h to 21¼h Wave in Dec. (− 10′). 20¾h to 21¾h Domed wave in N.F. (+ 35). 18d 23¾h to 19d 0½h Wave in Dec. (− 4′).

19d 1½h to 2h Wave in Dec. (− 3′). 2h to 2½h Increase in N.F. (+ 25). 2h to 3h Decrease in V.F. (− 19). 3h to 3¾h Sharp wave in Dec. (+ 8′), followed till 4¾h by a double wave (+ 3′,− 4′). 3¼h to 3½h Steep decrease in V.F. (− 28). 7h to 7½h Serrated increase in Dec. (+ 8′). 8¼h to 9½h Serrated wave in Dec. (− 5′). 8½h to 12h Irregular wave in N.F. (− 60). 12h to 12¾h Increase in Dec. (+ 7′). 17h to 18h Truncated wave in N.F. (− 20). 17¾h to 18h Sharp decrease in Dec. (− 7′). 20¾h to 22h Sharp wave in Dec. (− 17′). 21h to 21¾h Sharp wave in N.F. (+ 40).

20d 0h to 1h Sharp wave in Dec. (+ 8′). 1h to 2¼h Wave in N.F. (− 25). 1½h to 3h Wave in V.F. (− 19). 2¼h to 4¼h Wave in Dec. (+ 10′). 2½h to 4½h Wave in V.F. (− 20). 4¼h to 6h Flat-crested wave in N.F. (+ 37), followed till 7¾h by an irregular wave (+ 32). 5¾h to 7h Serrated wave in Dec. (+ 5′). 12h to 12½h Wave in Dec. (− 3′) : increase in V.F. (+ 14). 15½h to 16¼h Wave in N.F. (− 26). 21h to 23½h Double wave in Dec. (+ 5′,− 5′). 21½h to 23h Wave in V.F. (− 12).

21d 0h to 22d 0h. *See* Plate III.

22d 0¾h to 1h Increase in Dec. (+ 5′). 2h to 4½h Waves in Dec. (+ 6′) and N.F. (− 25). 13h to 21¾h Slow wave in V.F. (+ 33). 17½h to 18½h Wave in N.F. (− 30). 18¼h to 19h Wave in Dec. (− 7′). 20h to 21¼h Waves in Dec. (− 14′) and N.F. (+ 49).

23d 0½h to 0¾h Increase in Dec. (+ 4′). 0½h to 2¼h Decrease in V.F. (− 22). 1¾h to 3¼h Wave in Dec. (− 6′). 4½h to 5½h Wave in Dec. (+ 5′).

24d 19½h to 20¾h Domed wave in Dec. (− 5′). 20h to 21h Wave in N.F. (+ 23). 21h to 23½h Slow wave in Dec. (− 5′).

27d 14¾h to 16¼h Wave in N.F. (+ 23). 14¾h to 18h Wave in V.F. (+ 25). 16h to 17h Wave in Dec. (− 5′).

28d 10¾h to 12¼h Wave in N.F. (− 24). 12h to 12¼h Steep increase in Dec. (+ 9′). 13h to 15h Domed wave in N.F. (− 42). 14½h to 17½h Increase in V.F. (+ 42). 16½h to 17¼h Domed wave in Dec. (− 4′). 16¾h to 17¾h Wave in N.F. (+ 23). 17¾h to 18½h Irregular decrease in Dec. (− 8′), followed till 20h by an irregular wave (+ 6′). 19h to 19¾h Wave in N.F. (+ 23). 23½h to 24h Irregular increase in N.F. (+ 24). 28d 23½h to 29d 0½h Decrease in V.F. (− 13).

29d 8½h to 8¾h Sharp increase in Dec. (+ 4′). 8½h to 9h Decrease in N.F. (− 30). 18h to 21h Serrated wave in V.F. (+ 16). 19h to 19½h Wave in Dec. (+ 4′). 19¼h to 21¼h Very irregular wave in N.F. (+ 60). 19¾h to 22¼h Flat-crested wave in Dec. (− 7′), with small waves superposed. 29d 23½h to 30d 0¼h Wave in Dec. (+ 4′). 29d 23½h to 30d 1¾h Two successive waves in N.F. (+ 40,+ 43), followed till 3½h by a serrated domed wave (+ 37). 29d 23¾h to 30d 6h Irregular wave in V.F. (− 45).

30d 1h to 4¼h Irregular wave in Dec. (− 14′), followed till 10h by rapid small fluctuations. 12½h to 13¼h Wave in Dec. (+ 4′). 15½h to 18¼h Wave in V.F. (+ 18). 16h to 17¼h Wave in Dec. (− 12′). 16¼h to 17½h Wave in N.F. (+ 60). 19¾h to 22h Two successive waves in N.F. (+ 20,+ 30). 20½h to 22¾h Irregular slow wave in Dec. (− 5′). 22½h to 24h Wave in N.F. (+ 20).

1918.
October

1d 0½h to 2h Wave in Dec. (— 9′). 2h to 2½h Wave in N.F. (— 26). 2¼h to 5h Wave in V.F. (— 24). 3¼h to 4h Decrease in Dec. (— 5). 8¼h to 10¼h Serrated domed wave in N.F. (— 40). 19¾h to 21h Sharp waves in Dec. (— 14′) and N.F. (+ 78). 22h to 22½h Wave in Dec. (+ 4′). 1d 23¾h to 2d 0¾h Wave in N.F. (— 20)

2d 0¾h to 1¼h Wave in Dec. (— 3′). 4¼h to 4¾h Wave in Dec. (+ 3′). 5h to 7h Serrated wave in N.F. (+ 33). 13h to 14¼h Double-crested wave in Dec. (+ 4′). 16½h to 18½h Wave in Dec. (— 10′). 17h to 18¼h Truncated wave in N.F. (+ 22). 20h to 21h Wave in Dec. (— 7′). 20h to 20¼h Increase in N.F. (+ 27). 22¾h to 23h Increase in N.F. (+ 20). 23h to 24h Irregular decrease in V.F. (— 18). 23¼h to 23¾h Wave in Dec. (— 5′). 2d 23¾h to 3d 0½h Wave in N.F. (— 30).

3d 0h to 0½h Wave in Dec.(— 3′). 5h to 5¾h Wave in Dec. (+ 4′) : increase in N.F. (+ 47). 8d to 10h Slow wave in N.F. (— 27). 17h to 19h Irregular sharp double-crested wave in Dec. (— 13′). 17h to 18¼h Two successive waves in N.F. (+ 30,+ 20). 20h Sharp decrease in Dec. (— 7′). 20h to 21½h Sharp double-crested wave in N.F. (+ 43). 20¾h to 22h Truncated wave in Dec. (+ 6′).

4d 0½h to 0¾h Sharp increase in Dec. (+ 9′), followed till 2h by a slow irregular decrease (— 5′). 2½h to 3¼h Wave in Dec. (— 3′). 3¾h to 5½h Double wave in Dec. (— 3′,+ 4′). 14½h to 16¼h Increase in V.F. (+ 22). 15½h to 16¾h Wave in Dec. (— 4′). 16h to 17h Domed wave in N.F. (+ 27). 18¾h to 19¼h Decrease in Dec. (— 9′), followed till 19¾h by a sharp double-crested wave (+ 7′). 18¾h to 20¾h Irregular sharp double-crested wave in N.F. (+ 77). 19h to 21½h Wave in V.F. (— 17), followed till 23h by an irregular decrease (— 17). 20¾h to 21h Increase in Dec. (+ 4′). 21¾h to 23½h Two successive waves in Dec. (+ 3′,+ 6′). 22h to 23h Wave in N.F. (+ 22).

5d 13¼h to 14h Wave in Dec. (+ 4′), steep at commencement. 13¼h to 13¾h Wave in N.F. (+ 21), steep at commencement. 14¾h Sudden sharp wave in N.F. (+ 23) : in Dec. small. 19¾h to 22¼h Wave in Dec. (— 14′), with sharp wave (+ 9′) superposed from 20¼h to 21h. 20h to 21h Wave in V.F. (+ 12). 20½h to 20¾h Sharp wave in N.F. (+ 20). 21h to 21¾h Wave in N.F. (+ 30). 23¼h to 24h Sharp increase in Dec. (+ 10′) and decrease (— 3′) : wave in N.F. (+ 24). 23½h to 24h decrease in V.F. (— 16).

6d 0¼h to 1h Wave in Dec. (— 7′). 0¾h to 1½h Domed wave in N.F. (+ 28). 1¼h to 1¾h Decrease in Dec. (— 5′). 4¼h to 5¼h Slow wave in Dec. (+ 4′) : wave in N.F. (— 25). 19h to 19¼h Sharp decrease in Dec. (— 6′). 19½h to 20½h Truncated wave in Dec. (+ 3′). 22½h to 23¾h Double-crested wave in Dec. (+ 8′), steep at commencement : very steep wave in N.F. (+ 95). 23h to 23½h Decrease in V.F. (— 25).

7d 0½h to 1¼h Flat-crested wave in Dec. (— 3′). 17¾h to 18¼h Decrease in Dec. (— 6′). 20¼h to 22h Wave in Dec. (— 7′), steep at commencement.

8d 6¼h to 7½h Wave in Dec. (+ 4′). 8d 11h to 9d 11h Loss of N.F. register. 8d 14h to 15¾h Increase in V.F. (+ 48). 15¼h to 16h Irregular decrease in Dec. (— 11′), followed till 17¾h by a sharp quadruple-crested wave (+ 16′). 16¾h to 18¼h Sharp double-crested wave in V.F. (+ 33). 18h Very sharp wave in Dec. (— 5′). 18½h to 20h Wave in Dec. (— 14′). 18¾h to 19½h Wave in V.F. (+ 16). 20¼h to 21½h Wave in Dec. (+ 5′), with sharp double-crested wave (+ 6′) superposed from 21h to 21½h, followed till 22½h by sharp movements (— 10′,+9′,— 5′). 20¾h to 21½h Decrease in V.F. (— 25).

9d 0h to 7h Irregular wave in V.F. (— 39). 1h to 1½h Domed wave in Dec. (— 3′). 1¾h to 3¾h Two successive waves in Dec. (+ 8′,+ 4′). 4½h to 6½h Irregular wave in Dec. (+ 8′). 9¾h to 10h Irregular increase in Dec. (+ 7′). 20¾h to 21¾h Wave in Dec. (— 4′).

10d 0¾h to 1½h Wave in Dec. (+ 3′). 19h to 20h Wave in Dec. (— 3′).

11d 20¾h to 22h Slightly truncated wave in N.F. (+ 22). 21h to 21¼h Decrease in Dec. (— 4′).

12d 18¾h to 19½h Wave in Dec. (— 3′). 23h to 24h Wave in Dec. (+ 3′).

14d 20½h to 21½h Wave in Dec. (— 4′).

15d 5¼h to 6½h Serrated domed wave in Dec. (+ 4′). 5¾h to 6½h Increase in N.F. (+ 28). 11h to 11½h Decrease in N.F. (— 30). 11½h to 12h Irregular increase in Dec. (+ 8′). 12¼h to 12¾h Serrated wave in Dec. (+ 4′). 13¼h to 13½h Wave in Dec. (+ 3′). 13h to 20h Slow wave in V.F. (+ 32). 14h to 15¼h Wave in Dec. (— 4′). 14¾h to 17h Double wave in N.F. (+ 22,— 20), the second portion truncated.

16d 0h to 17d 0h. *See* Plate III.

17d 1¾h to 2¾h Waves in Dec. (+ 4′) and N.F. (— 20) : decrease in V.F. (— 18). 3¼h to 5h Wave in N.F. (+ 30). 4h to 6h Wave in Dec. (+ 7′). 5½h to 7¼h Flat-crested wave in N.F. (+ 25). 7¼h to 8h Serrated wave in Dec. (— 4′), followed by sharp fluctuations till 9h : fluctuations also in N.F. 9¾h to 10h Increase in Dec. (+ 6′). 10h to 10½h Decrease in N.F. (— 30). 12¾h to 13½h Double-crested wave in Dec. (+ 5′). 13½h to 18h Flat-crested wave in V.F. (+ 32). 14h to 14¼h Decrease in Dec. (— 9′). 15¾h to 17h Wave in Dec. (— 4′). 19½h to 21¼h Irregular waves in Dec. (— 17′) and N.F. (+ 72), with humps at 20¾h on the return.

18d 5¾h to 7¼h Truncated wave in Dec. (+ 4′). 13¾h to 14½h Wave in N.F. (— 27). 20¼h to 22h Irregular triple-crested wave in Dec. (— 6′). 20¾h to 22h Wave in N.F. (+ 52). 20¾h to 23h Wave in V.F. (— 15).

19d 13h to 13¾h Wave in Dec. (+ 5′). 13½h to 18h Wave in V.F. (+ 40). 14h to 16h Double wave in Dec. (+ 6′, — 4′), the second portion triple-crested. 14h to 15¼h Double wave in N.F. (+ 20,— 32), the second movement steep. 21h to 23h Wave in N.F. (+ 62), followed till 24h by a truncated wave (+ 26). 21¼h to 22h Decrease in Dec. (— 9′). 21¾h to 22¾h Decrease in V.F. (— 21). 19d 22¾h to 20d 0½h Double wave in Dec. (— 3′,+ 3′).

1918.

October

20d 0¾h to 1½h Increase in Dec. (+ 10′) and decrease (− 3′), followed till 3¼h by a domed wave (+ 7′). 8½h to 9h Decrease in N.F. (− 35). 18½h to 19½h Wave in Dec. (− 6′). 19h to 19¾h Wave in N.F. (+ 20). 23h to 23¼h Decrease in Dec. (− 5′).

21d 19h to 19½h Decrease in Dec. (− 6′), continued till 20¼h by a double wave (− 4′,+ 3′). 19¾h to 20¼h Sharp wave in N.F. (+ 40).

22d 11h to 11¾h Waves in Dec. (− 3′) and N.F. (− 20). 22¾h to 23¼h Wave in Dec. (− 3′). 23h to 23½h Wave in N.F. (+ 27).

23d 20½h to 21h Wave in Dec. (+ 3′). 21½h to 22h Decrease in Dec. (− 7′). 21¾h to 22h Sharp increase in N.F. (+ 34).

24d 12½h to 13½h Wave in N.F. (− 20). 13h to 13¾h Wave in Dec. (− 4′).

25d 0¾h to 1h Sharp decrease in Dec. (− 6′). 14¼h Sharp increase in Dec. (+ 5′). 14¾h to 16h Wave in N.F. (− 20). 25d 23¼h to 26d 1¼h Slow wave in Dec. (− 5′).

26d 12¾h to 13¼h Wave in Dec. (+ 3′).

28d 13h to 14¼h Irregular wave in Dec. (− 5′). 13¼h to 14¾h Domed wave in N.F. (+ 26). 14½h to 18½h Wave in V.F. (+ 30). 15½h to 17h Double wave in Dec. (+ 5′,− 16′), the second portion very steep. 16h to 17h Double wave in N.F. (− 25,+ 50), the second movement very steep.

29d 19h to 20h Wave in N.F. (− 21). 21h to 23h Truncated wave in N.F. (+ 34), with small wave superposed till 21¼h. 21½h Sharp wave in Dec. (+ 3′).

30d 12¼h to 12¾h Wave in Dec. (+ 3′). 30d 22½h to 31d 0¼h Irregular wave in Dec. (− 8′). 30d 23h to 31d 0½h Wave in N.F. (+ 38).

31d 3h to 4h Irregular wave in Dec. (− 4′). 4¼h to 5½h Wave in Dec. (+ 7′). 4¾h to 5h Increase in N.F. (+ 40). 6¼h to 7h Increase in Dec. (+ 7′). 6½h to 8h Decrease in N.F. (− 50), continued till 9¾h by a triple-crested wave (− 30). 8¼h to 9½h Serrated wave in Dec. (− 4′). 10h to 10¾h Wave in Dec. (+ 4′). 11¾h to 14h Irregular double-crested wave in Dec. (+ 5′), followed till 15h by an irregular wave (+ 6′). 14h to 16½h Wave in V.F. (+ 17). 14½h to 15¼h Wave in N.F. (− 30). 19h to 20½h Irregular double wave in Dec. (− 3′,+ 3′). October 31d 23h to November 1d 1h Wave in V.F. (− 18). October 31d 23¼h to November 1d 0¼h Wave in Dec. (+ 8′).

November

1d 20h to 21½h Irregular double-crested wave in Dec. (− 5′). 20½h to 21½h Double-crested wave in N.F. (+ 30).

2d 15¾h to 17h Wave in N.F. (− 30). 16¼h to 17h Wave in Dec. (− 5′). 2d 23¼h to 3d 0½h Double wave in Dec. (+ 3′,− 3′), the second portion truncated.

4d 22h to 23¼h Irregular wave in N.F. (+ 24).

10d 20¼h to 21h Domed wave in Dec. (− 4′). 21½h to 22¼h Wave in N.F. (+ 20). 21¾h to 22h Decrease in Dec. (− 5′).

11d 0¾h to 3½h Triple wave in Dec. (− 6′, + 8′,−6′). 1½hto 3¼h Double wave in N.F. (− 22,+ 24). 2h to 3½h Wave in V.F. (− 12). 4h to 6h Very irregular double-crested wave in Dec. (+ 6′). 10h to 11h Wave in Dec. (− 5′). 12¾h to 14h Irregular double-crested wave in Dec. (+ 5′). 13h to 14¾h Wave in N.F. (− 35). 15½h to 16¼h Wave in N.F. (+ 20). 15½h to 20h Wave in V.F. (+ 39).. 17¾h to 18½h Double-crested wave in N.F. (− 21), followed till 20½h by a double wave (− 38,+ 62), the second portion very irregular. 18½h to 20¾h Sharp double wave in Dec. (+ 3′,− 18′), with small waves superposed on last movement. 20½h to 22¼h Wave in V.F. (+ 12). 21½h to 23½h Sharp wave in Dec. (− 10′), with double-crested wave (+ 5′), superposed from 21¾h to 23h. 21½h to 21¾h Increase in N.F. (+ 25). 22h to 22¼h Wave in N.F. (+ 23). 22½h to 23¼h Irregular decrease in V.F. (− 13). 23h to 23¾h Double-crested wave in N.F. (+ 22). 11d 23¼h to 12d 0¼h Irregular wave in V.F. (− 15).

12d 1½h Sharp increase in Dec. (+ 12′) : slower decrease in N.F. (− 24). 1½h to 5½h Slow double wave in V.F. (− 13,+ 18). 4¼h to 6¼h Slightly truncated serrated wave in Dec. (+ 15′). 4½h to 5¼h Sharp wave in N.F. (− 47). 6½h to 7¾h Serrated wave in Dec. (+ 4′). 8h to 9h Serrated decrease in N.F. (− 40). 13h to 14¼h Irregular truncated wave in Dec. (+ 6′). 13h to 14h Serrated truncated wave in N.F. (+ 20), followed till 14½h by a sharp increase (+ 50). 16¾h to 17h Very sharp decrease in Dec. (− 17′), followed till 18h by a sharp double-crested wave (+ 12′), followed till 19¼h by a double-crested wave (+ 6′). 17h Sharp increase in N.F. (+ 70), followed till 17¾h by an irregular partial return (− 45). 17¼h to 17½h Decrease in V.F. (− 12). 20h to 21h Wave in N.F. (− 45′), steep at end, followed till 22½h by a triple wave (− 30,+ 20,− 20). 21h to 22¼h Triple wave in Dec. (+ 8,− 6′,+ 6′). 21h to 21½h Decrease in V.F. (− 14), followed by small waves till 24h. 22¾h to 23½h Wave in Dec. (+ 6′).

13d 2h to 5¼h Irregular flat-crested wave in Dec. (+ 6′). 3h to 7h Slow irregular double wave in N.F. (− 25,+ 30). 12¼h to 13½h Truncated wave in N.F. (− 30). 16h to 19h Two successive waves in Dec. (− 10′,− 9′). 16h to 17¾h Irregular wave in N.F. (+ 47). 19¾h to 20½h Sharp waves in Dec. (+ 6′) and N.F. (+ 30), decrease in V.F. (− 12). 21½h to 23h Irregular triple wave in Dec. (− 4′,+ 5′,− 3′) : irregular wave in N.F. (+ 64), steep at commencement. 21¾h to 24h Wave in V.F. (− 24).

14d 1¼h to 2½h Wave in Dec. (+ 5′). 17½h to 18¾h Wave in N.F. (− 38). 18h to 19½h Two successive sharp waves in V.F. (+ 12,+ 16). 18½h to 19¼h Sharp wave in Dec. (− 15′). 19h to 19½h Double wave in N.F. (− 22,+ 35), the intermediate portion very steep. 19¾h to 22h Domed wave in Dec. (− 9′), followed till 22½h by a wave (− 5′). 21½h to 22h Wave in N.F. (+ 21) ; serrated decrease in V.F. (− 12).

1918.

November

15d 0¾h Sharp increase in Dec. (+ 5′). 5h to 7¼h Wave in Dec. (+ 13′), steep at commencement. 5h to 5¾h Wave in N.F. (— 40). 5¼h to 6h Decrease in V.F. (— 13). 16½h to 17¼h Wave in N.F. (— 33). 16¾h to 18¼h Wave in Dec. (— 20′), steep at commencement: serrated wave in V.F. (+ 15). 19½h to 20¼h Wave in Dec. (+ 7′). 19½h to 20h Wave in N.F. (+ 28), followed till 20¼h by an increase (+ 30). 20½h to 20¾h Decrease in Dec. (— 6′), followed till 22¼h by a sharp triple-crested wave (+ 13′). 20½h to 23h Three successive waves in N.F. (+ 50,+ 42,+ 23). 21h to 22¼h Irregular decrease in V.F. (— 32), followed till 22½h by an increase (+ 14). 22¾h to 23¾h Wave in Dec. (+ 6′).

16d 0½h Sharp increase in Dec. (+ 5′). 1¾h to 4¼h Irregular triple wave in Dec. (— 3′,+ 3′,— 4′). 9½h to 11h Serrated truncated wave in Dec. (+ 5′). 14½h to 16¾h Wave in V.F. (+ 12). 15h to 15¾h Wave in Dec. (— 6′). 15¼h to 16h Wave in N.F. (+ 30). 17½h to 18½h Triple-crested waves in Dec. (— 10′) and N.F. (+ 40). 20½h to 22h Waves in Dec. (— 10′) and N.F. (+ 66): decrease in V.F. (— 22), followed till 17d 1h by a slow wave (+ 12).

17d 0h to 1h Wave in Dec. (+ 7′). 14½h to 15¼h Wave in N.F. (— 30). 14¾h to 15¼h Decrease in Dec. (— 7′). 17¾h to 18h Wave in Dec. (— 3′). 18h to 18½h Wave in N.F. (+ 25). 18½h to 19h Wave in Dec. (— 3′).

19d 17¼h to 18½h Wave in N.F. (+ 21). 19h to 20¼h Double wave in Dec. (— 6′,+ 4′), the second portion sharp. 19¾h to 20¼h Sharp wave in N.F. (+ 56). 19¾h to 21h Wave in V.F. (— 28).

22d 21¼h to 22h Decrease in Dec. (— 8′).

23d 1¾h to 2¾h Wave in N.F. (+ 28). 2h to 5h Very irregular double wave in Dec. (— 5′,+ 7′). 3¾h to 4½h Irregular decrease in V.F. (— 13). 6¼h to 8h Wave in N.F. (+ 53). 6½h to 8¼h Wave in V.F. (— 17). 7h to 7¾h Wave in Dec. (— 5′), followed till 9¾h by a double wave (— 4′,+ 5′). 8¾h to 9h Decrease in N.F. (— 35). 11h to 14h Three successive waves in Dec. (+ 10′,+ 4′,+5′). 11¼h to 13¼h Two successive waves in N.F. (— 32,— 27). 11½h to 15¼h Irregular increase in V.F. (+ 44). 13½h to 16h Irregular triple wave in N.F. (+ 23,—20,+ 35). 15h to 16½h Irregular double wave in Dec. (— 8′,+ 7′). 19¾h to 20h Wave in Dec. (+ 3′).

24d 3½h to 4¼h Domed wave in Dec. (+ 4′). 11h to 11¼h Sharp increase in Dec. (+ 7′). 11¼h to 13½h Wave in N.F. (— 40). 12h to 13½h Irregular double wave in Dec. (+ 7′,— 5′). 14h to 17¼h Wave in V.F. (+ 17). 15h to 16h Wave in N.F. (— 30). 15¼h to 16¼h Wave in Dec. (— 6′). 18h to 20¼h Irregular domed wave in Dec. (— 17′). 18h to 21¼h Irregular triple wave in N.F. (— 20,+ 40,+ 20).

25d 16½h to 17½h Domed wave in N.F. (— 20). 17h to 18¼h Wave in Dec. (— 7′).

27d 3h to 4h Wave in Dec. (+ 4′), steep at commencement.

28d 22½h to 23¾h Irregular wave in Dec. (— 10′). 22½h to 23¼h Wave in N.F. (+ 30).

29d 18h to 21h Four successive sharp irregular waves in Dec. (+ 10′,+ 10′,+7′,+ 5′), the first double-crested, the second triple-crested. 18h to 23¼h Irregular triple-crested wave in V.F. (+ 70). 18¼h to 18¾h Irregular steep decrease in N.F. (— 80). 19h to 21h Two successive waves in N.F. (— 31,— 37), the second triple-crested. 21¼h Very sharp increase in N.F. (+ 32). 21½h to 21¾h Very sharp double wave in Dec. (+ 4′,— 3′), followed till 23h by very sharp movements (+ 8′,— 28′,+ 26′ — 20′). 21½h to 22h Very sharp triple-crested wave in N.F. (— 40), followed till 23h by a very sharp triple wave (45′,+ 90,— 65). 23h to 23¾h Decrease in N.F. (— 50). 23¼h to 23¾h Increase in Dec. (+ 9′), followed till 30d 0¼h by a decrease (— 5′).

30d 1h to 1½h Wave in Dec. (+ 5′), followed till 2h by a very sharp increase (+ 19′), followed till 2½h by a slower decrease (— 8′). 1h to 2h Double wave in N.F. (— 20,+ 20), the second portion sharp. 1¼h to 1¾h Sharp wave in V.F. (— 12), followed till 3½h by a slower wave (— 16). 3h to 3¼h Decrease in Dec. (— 4′). 15h to 16½h Wave in N.F. (— 23). 17½h to 18½h Double-crested wave in Dec. (+ 5′). 20h to 21h Wave in N.F. (+ 38). 20¼h to 20¾h Sharp wave in Dec. (— 7′), followed till 22¾h by an irregular slow wave (— 5′).

December

1d 10h to 10½h Wave in Dec. (— 3′), steep at end. 11¾h to 13½h Double wave in Dec. (+ 4′,— 4′), the first portion triple-crested: double-crested wave in N.F. (— 30). 14h to 21h Wave in V.F. (+ 42), with double-crested wave (+ 24) superposed from 15½h to 17¼h. 14¾h to 15¼h Sharp wave in Dec. (— 5′), followed till 17¼h by a sharp triple-crested wave (— 26′). 15h to 15½h Sharp decrease in N.F. (— 50), followed till 17½h by a wave (+ 60), with three sharp waves (+ 35,+ 35,+ 45), superposed at 16h, 16¼h and 16¾h. 17½h Sharp decrease in Dec. (— 9′), followed till 19¾h by a double wave (+ 5′,— 17′), the first portion domed, the second sharp. 17½h Sharp increase in N.F. (+ 24). 18½h to 20h Irregular double-crested wave in N.F. (+ 45). 20½h to 22h Waves in Dec. (— 19′) and N.F. (+ 40), the latter truncated. 1d 23¼h to 2d 1h Double-crested wave in N.F. (+ 27).

2d 0h to 1h Increase in Dec. (+ 9′). 22h to 23h Wave in N.F. (+20), steep at commencement.

3d 11½h to 12h Truncated wave in Dec. (+ 3′). 14¼h to 18¼h Slow double-crested wave in N.F. (— 40). 16¼h to 18½h Slow wave in V.F. (+ 12). 16¾h to 17¾h Wave in Dec. (— 4′). 20h to 22¼h Irregular wave in Dec. (— 9′). 22h Sharp decrease in N.F. (— 30).

4d 15h to 16h Wave in N.F. (— 22).

1918.
December

7d 18¼h to 20¼h Irregular wave in Dec. (− 20′), followed till 22h by a domed wave (− 7′). 18½h to 20h Wave in V.F. (+ 13), followed till 24h by an irregular slow wave (+ 22). 18¾h to 19h wave in N.F. (+ 64). 22h to 22½h Wave in N.F. (+ 20).

8d 0h to 9d 0h. *See* Plate IV.

9d 1½h to 5½h Irregular triple wave in N.F. (− 20,+ 28,− 35). 2h to 4h Serrated wave in Dec. (+ 8′). 3h to 5h Wave in V.F. (− 15). 4½h to 5h Increase in Dec. (+ 6′). 9½h to 10¼h Serrated wave in Dec. (+ 4′). 12¼h to 14h Two successive irregular serrated waves in Dec. (+ 5′,+ 5′). 13¼h to 14¼h Sharp wave in N.F. (− 52). 17h to 18h Double wave in Dec. (+ 4′,− 3′), the first portion truncated, followed till 19½h by two successive waves (− 5′,− 6′), followed till 19¾h by a sharp decrease (− 6′). 17¾h to 18¼h Wave in N.F. (+ 21). 19h to 19¼h Increase in N.F. (+ 24), followed till 20½h by a double wave (− 24,+ 21), the second portion domed. 20½h to 21½h Truncated wave in Dec. (+ 6′). 22½h to 23h Wave in Dec. (− 5′). 22¾h to 24h Two successive waves in N.F. (+ 35,+ 23). 9d 23¼h to 10d 0½h Wave in Dec. (+ 9′). 9d 23½h to 10d 2¼h Wave in V.F. (− 32).

10d 8h to 9¼h Wave in Dec. (+ 5′). 9½h to 10¼h Wave in N.F. (− 22). 12h to 14h Irregular wave in N.F. (+ 40). 12½h to 14½h Serrated wave in Dec. (+ 7′), followed till 16½h by a double wave (+ 4′,− 10′), the first portion domed, the second sharp and double-crested. 14¼h to 16h Very irregular wave in N.F. (+ 33), followed at 16h by a sudden increase (+ 50), continued till 16¾h by sharp increase (+ 24) and decrease (− 45). 18h to 19h Truncated wave in Dec. (+ 4′), followed till 20h by a sharp irregular triple-crested wave (+ 7′). 19h to 19¾h Sharp wave in N.F. (+ 64), followed till 20¼h by a wave (+ 24). 19¼h to 21h Wave in V.F. (− 15). 23½h to 24h Wave in Dec. (− 3′).

11d 0h to 0¾h Decrease in V.F. (− 14). 15h to 16¼h Irregular waves in Dec. (− 7′) and N.F. (+ 22). 18¾h to 20¼h Sharp wave in Dec. (− 14′). 19¼h to 20¼h Irregular wave in N.F. (+ 42). 21¾h to 22¾h Wave in N.F. (+ 25). 22h to 23½h Truncated wave in Dec. (− 6′). 22h to 22¼h Decrease in V.F. (− 12).

12d 13½h to 15h Wave in N.F. (− 28). 17¼h to 18h Wave in N.F. (− 23). 17¾h to 18½h Wave in Dec. (− 7′). 20h to 21¼h Two successive waves in Dec. (− 5,− 5), the first sharp, the second truncated. 20h to 20¼h Sharp wave in N.F. (+ 33).

13d 2h to 3h Waves in Dec. (+ 5′) and N.F (− 20). 16¾h to 17¾h Sharp Wave in Dec. (− 15′). 17h to 18h Truncated wave in N.F. (+ 33). 17h to 18½h Wave in V.F. (+ 15). 20h to 22h Wave in Dec. (− 13′), steep at commencement, with irregular return: wave in N.F. (+ 48). 22¾h to 23¼h Sharp increase in N.F. (+ 55) and decrease (− 22): decrease in V.F. (− 12).

14d 21h to 22¼h Irregular wave in N.F. (+ 25). 21½h to 23¼h Two successive waves in Dec. (− 3′,− 4′).

15d 1½h to 3h Wave in Dec. (+ 4′).

17d 3¼h to 4h Wave in Dec. (+ 4′). 18h to 19h Wave in Dec. (− 6′).

18d 21¾h Sharp increase in N.F. (+ 30).

19d 0h to 1h Wave in Dec. (+ 5′). 2h to 2¾h Wave in Dec. (+ 3′). 11h to 12h Wave in Dec. (+ 4). 11½h to 15h Slow double-crested wave in N.F. (− 32). 12h to 12¾h Increase in V.F. (+ 19). 14h to 14¾h Irregular decrease in Dec. (− 8′). 16½h to 17½h Truncated wave in Dec. (+ 4′). 16½h to 17h Decrease in N.F. (− 40). 20h to 21h Sharp triple wave in Dec. (+ 3′,− 8′,+ 4′): sharp double wave in N.F. (− 36,+ 28). 23h to 23¼h Irregular sharp decrease in N.F. (− 30).

20d 2½h to 4h Wave in Dec. (+ 5′). 16¾h to 17¼h Sharp wave in N.F. (− 36). 16¾h to 17½h Sharp double wave in Dec. (+ 3′,− 3′). 17¾h to 18h Wave in N.F. (+ 20). 18¼h to 18¾h Wave in Dec. (− 5′). 18½h to 19h Wave in N.F. (+ 24). 20h to 20½h Wave in N.F. (− 23). 20½h to 20¾h Wave in Dec. (− 5′). 22h to 23h Truncated wave in Dec. (− 5′), followed till 21d 0½h by an irregular wave (− 6′).

21d 2h to 2¾h Wave in Dec. (− 3′). 18h to 19¼h Wave in Dec. (− 11′), followed till 20h by a small wave (− 3′). 18¼h to 19¼h Truncated wave in N.F. (+ 40).

22d 3h to 5h Double wave in Dec. (+ 4′,− 3′). 3¾h to 5h Wave in N.F. (+ 22). 20¼h to 21¾h Truncated wave in Dec. (− 7′), with sharp wave (− 5′), superposed from 21h to 21½h, 21h to 22¼h sharp wave in N.F. (+ 53).

23d 0¼h to 1¾h Wave in N.F. (− 27). 0½h to 1h Wave in Dec. (+ 4′), followed till 3¾h by a triple wave (+ 6′, − 5′,+ 7′). 2½h to 3¾h Wave in N.F. (− 23). 5h to 6¼h Domed wave in N.F. (+ 21). 5¾h to 7h Wave in Dec. (+ 5′). 16½h to 19h Irregular triple wave in Dec. (− 4′,+ 4′,− 3′). 21h to 21½h Sharp wave in Dec. (− 8′), followed till 23½h by a double wave (− 5′,+ 4′). 21h to 21¼h Increase in N.F. (+ 26). 21½h to 23h Irregular decrease in V.F. (− 20).

24d 13h to 14¼h Wave in N.F. (− 40). 13½h to 14¼h Wave in Dec. (− 5′). 17¾h to 19h Wave in Dec. (− 6′).

25d 3h to 26d 3h. *See* Plate IV.

26d 3½h to 3¾h Decrease in Dec. (− 5′). 13h to 13¼h Decrease in Dec. (− 6′). 17h to 18¾h Double wave in N.F. (− 20,+ 45), the first portion truncated. 17¼h to 19h Sharp wave in Dec. (− 14′). 19¼h to 22¾h Double wave in V.F. (+ 13,− 14). 19¾h to 20¼h Irregular decrease in N.F. (− 40), followed till 20¾h by a sharp increase (+ 80). 20½h to 22h Irregular steep wave in Dec. (− 20), with double-crested wave (+ 7′), superposed from 20¾h to 21½h, followed till 22¾h by a sharp wave (− 9′). 21h to 21¼h Sharp wave in N.F. (+ 22). 21¾h to 22¼h Sharp decrease in N.F. (− 100), and increase (+ 30).

27d 0¾h to 2h Wave in Dec (− 6′).

31d 13h to 13¼h Sharp wave in Dec. (+ 4′). 19h to 20½h Waves in Dec. (− 5′) and N.F. (+ 23).

Explanation of the Plates.

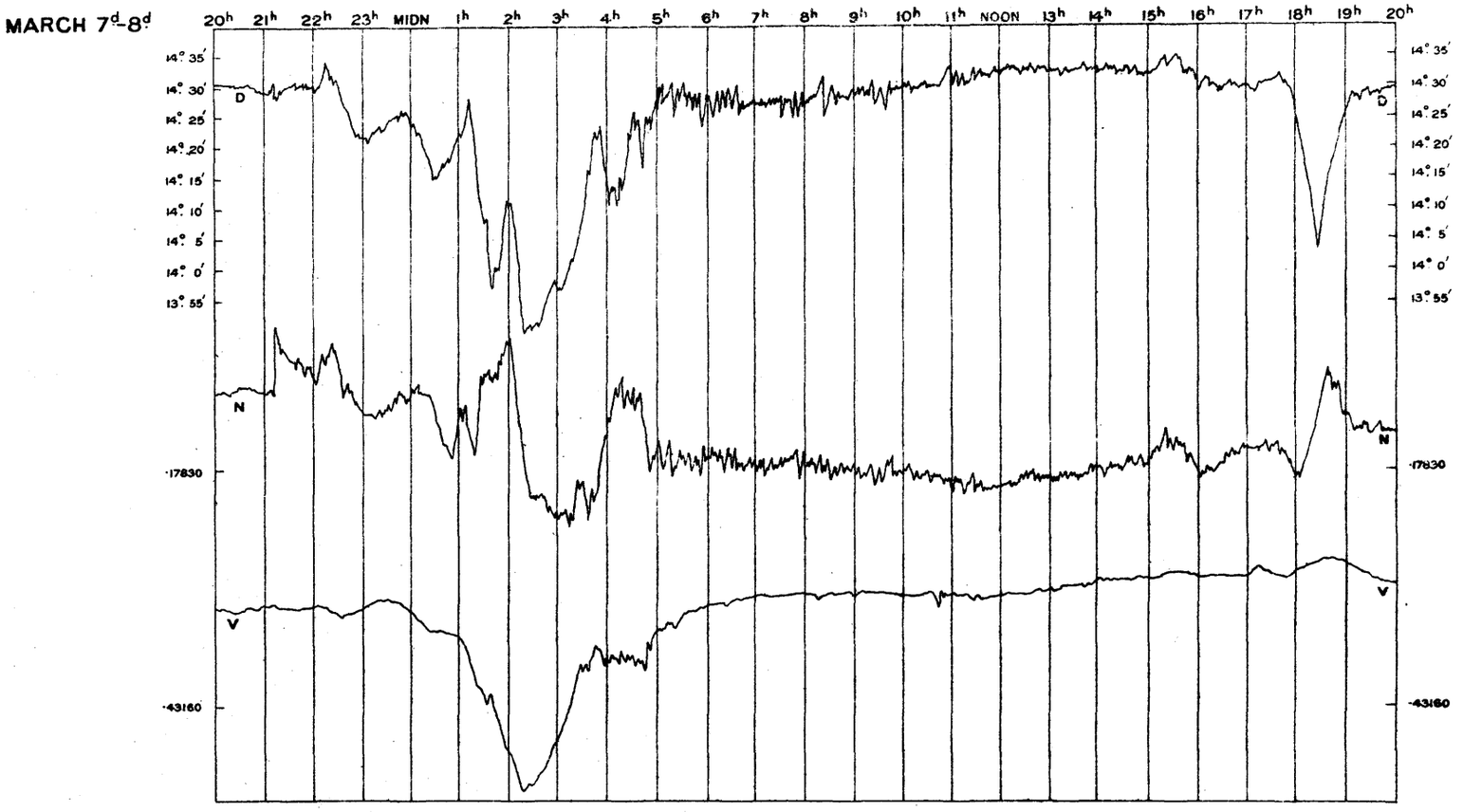
The magnetic motions figured on the Plates are those for days of disturbance selected by the International Committee—March 7^d 20^h to 8^d 20^h; April 11^d 5^h to 12^d 5^h; May 16^d 17^h to 17^d 17^h; August 15^d 15^h to 16^d 15^h; September 21; October 16; December 8; December 25^d 3^h to 26^d 3^h.

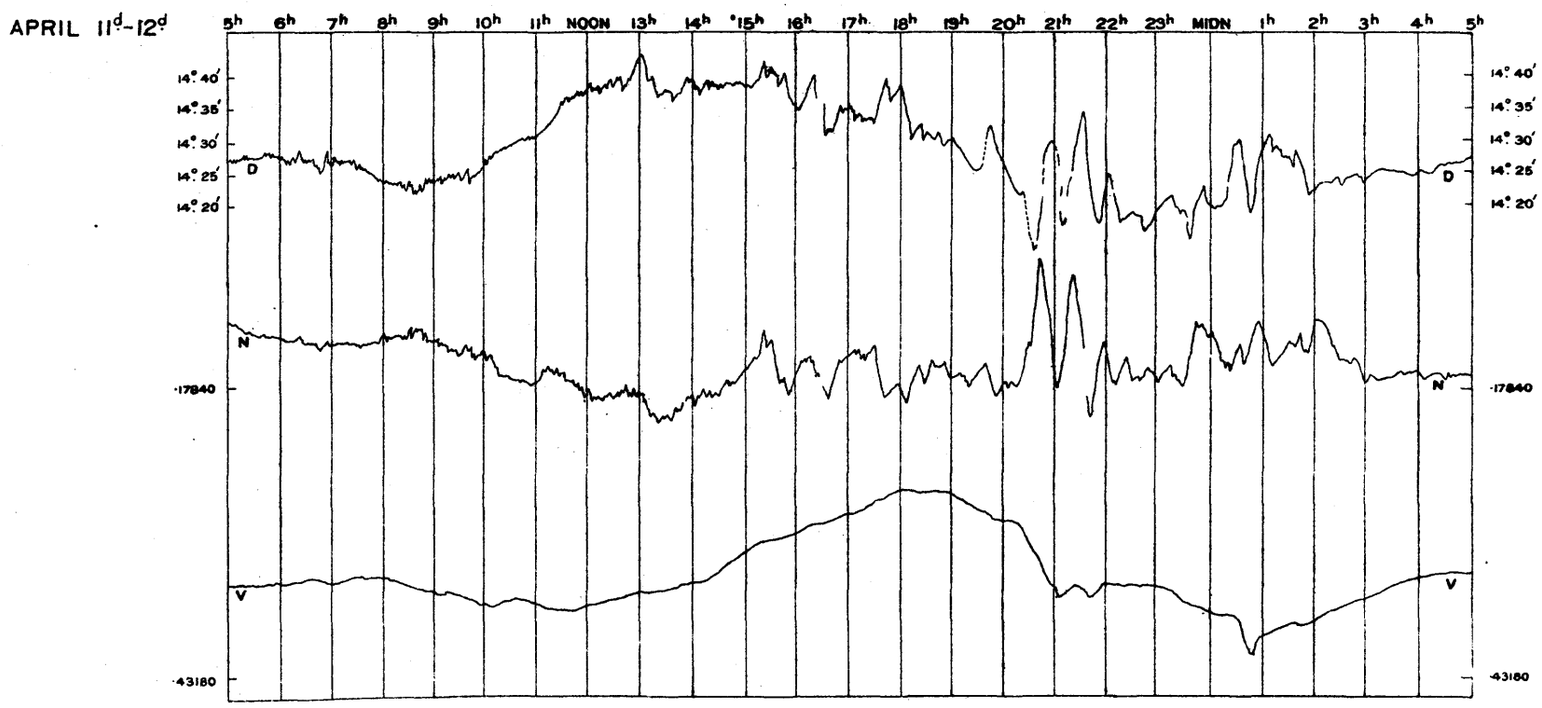
The time is Greenwich Civil Time (commencing at midnight, and counting the hours from 0 to 24).

The magnetic declination, north force, and vertical force are indicated by the letters D., N., and V. respectively; the declination (west) is expressed in minutes of arc, the unit for north and vertical force is γ (0.00001 C.G.S.), the corresponding scales being given on the sides of each diagram. Equal changes of amplitude in the several registers correspond nearly to equal changes of absolute magnetic force, 0.001 of a C.G.S. unit being represented by $0^{in}.69 = 17.4^{mm.}$ in the declination curve, by $0^{in}.69 = 17.5^{mm.}$ in the north force curve, and by $0^{in}.59 = 15.0^{mm.}$ in the vertical force curve.

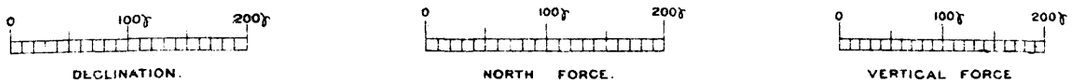
Upward motion indicates increase of declination, north force, and vertical force.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1918.



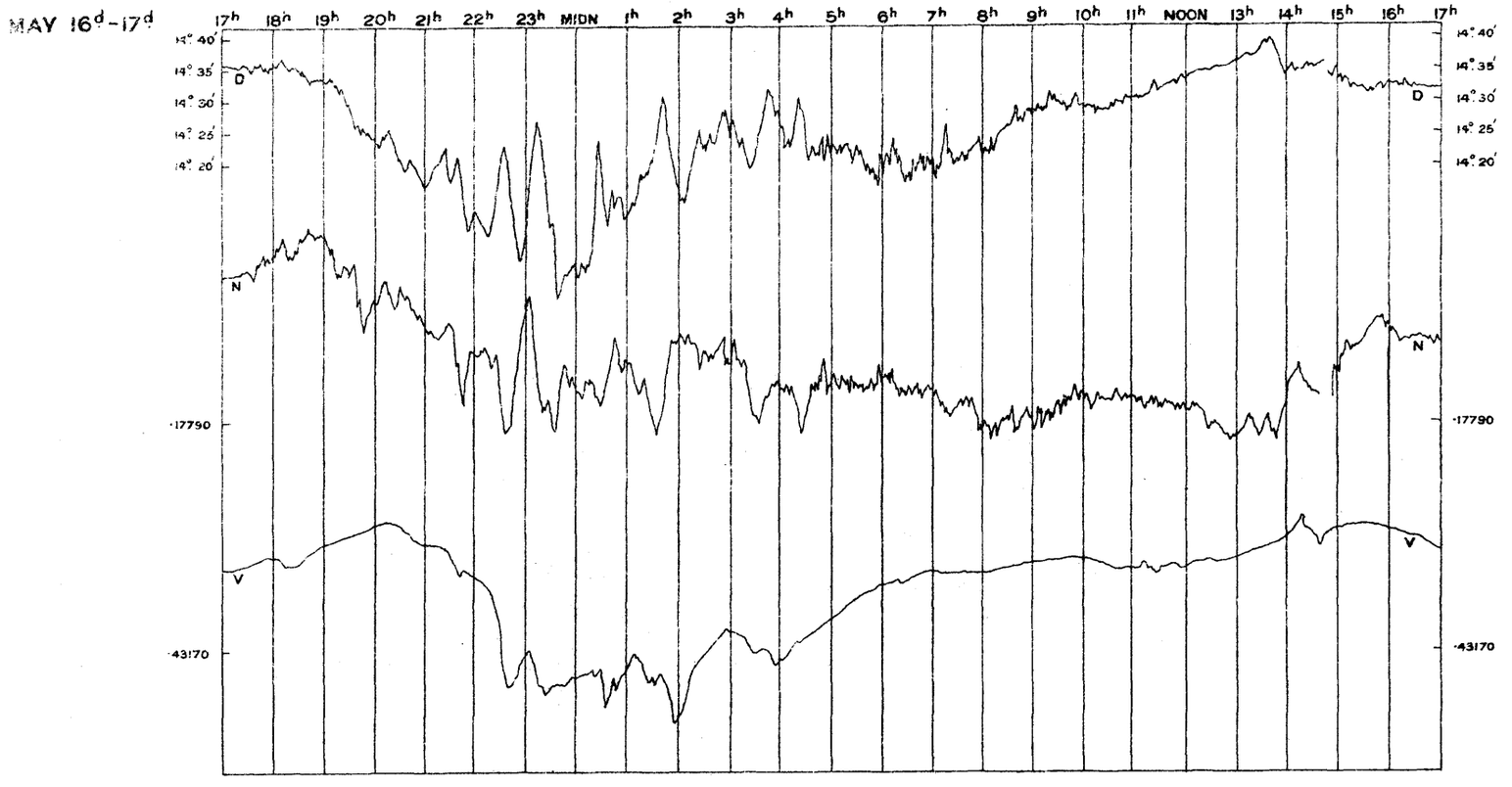


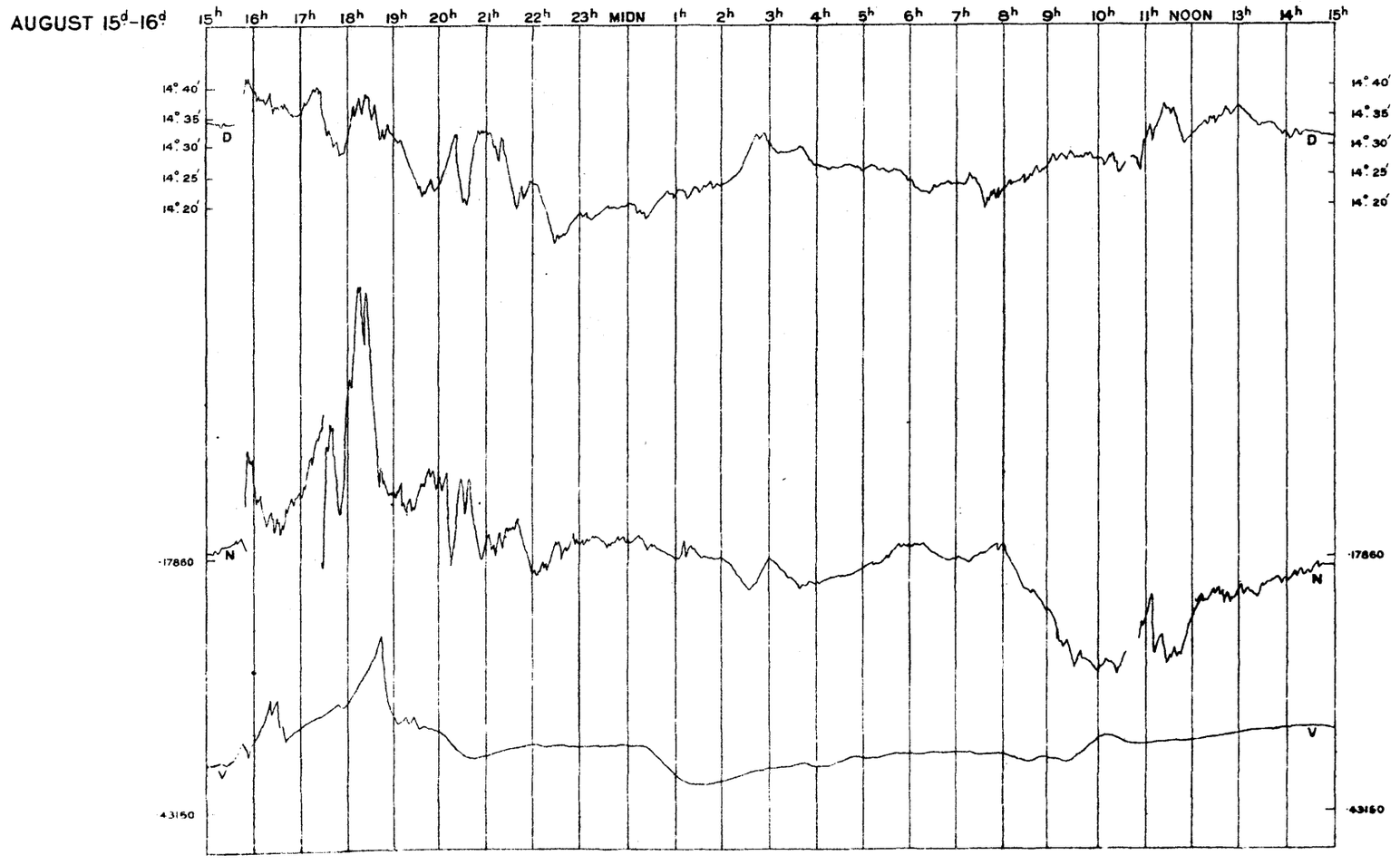
SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.



W.286 B WT1881A/86-143.500 6.22. J.W.LTD.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1918.





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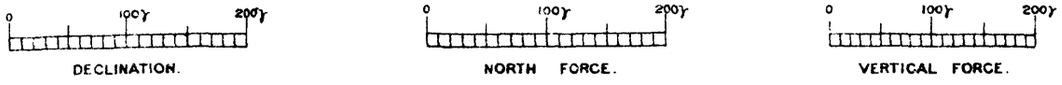
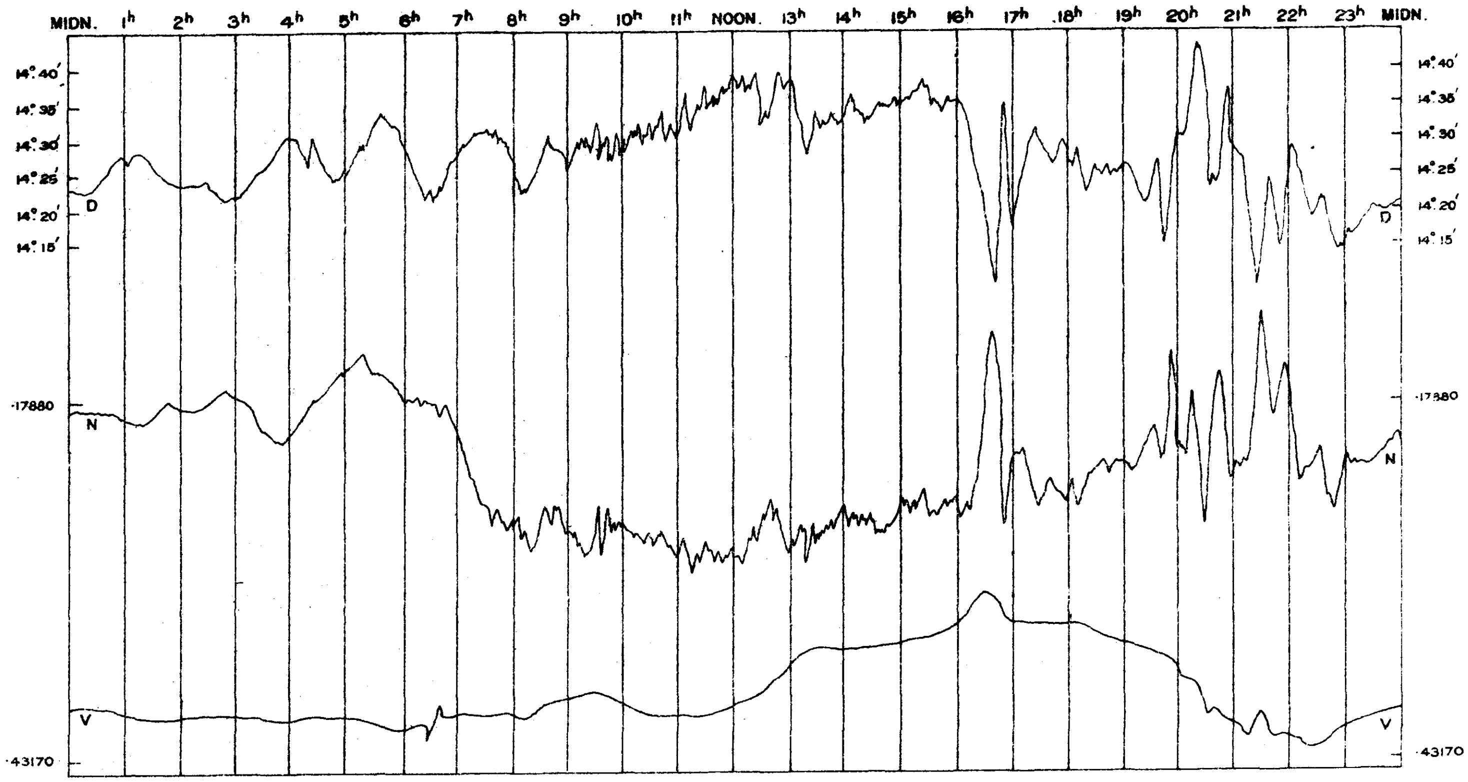


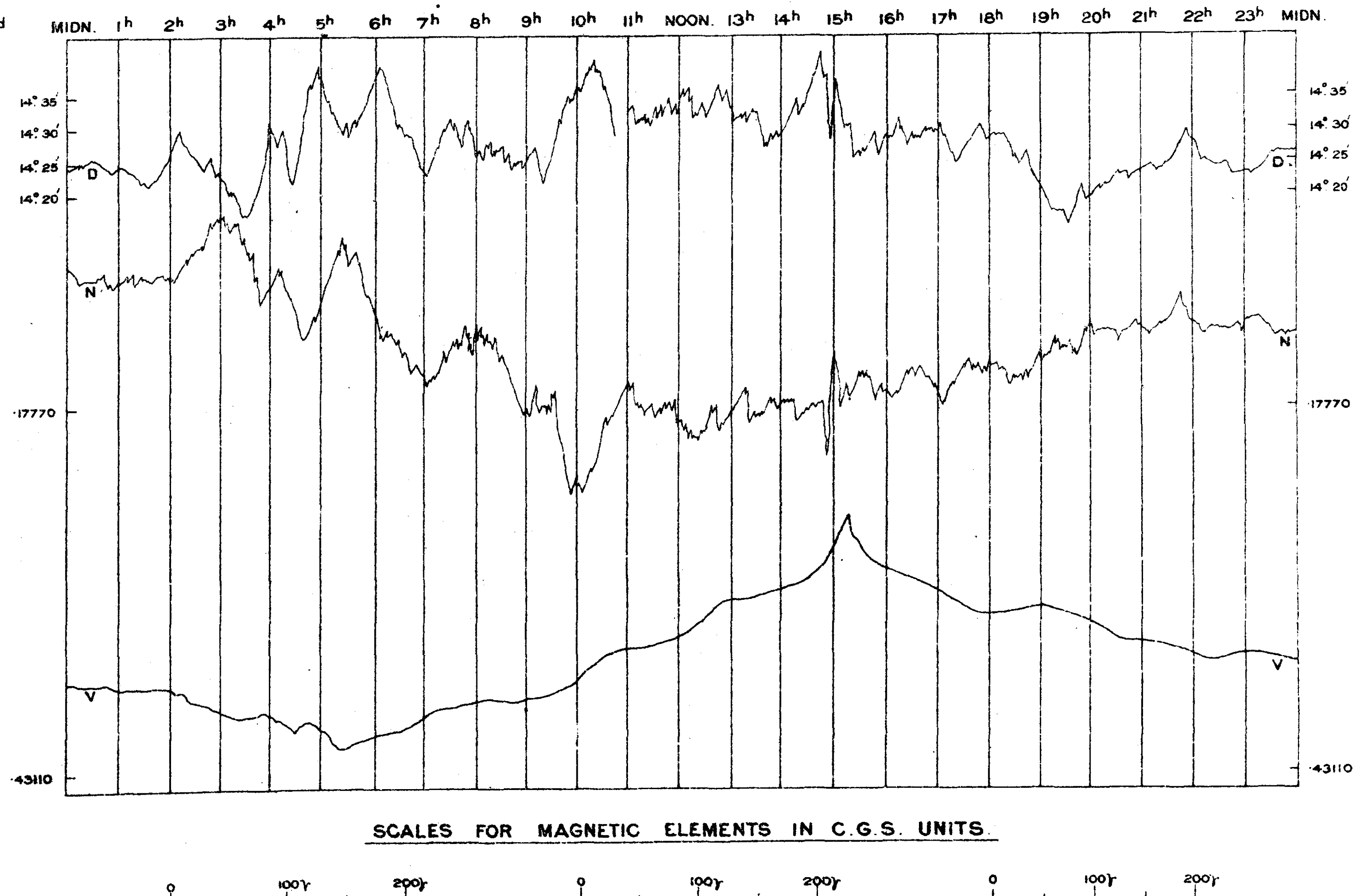
W.286.B.W.1/1881A/86-M3.500.5.22.J.W.LTD

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1918.

SEPTEMBER 21d



OCTOBER 16d



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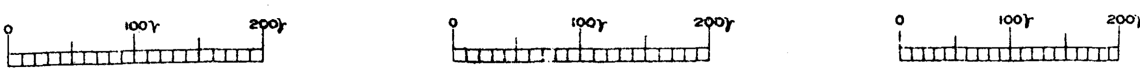
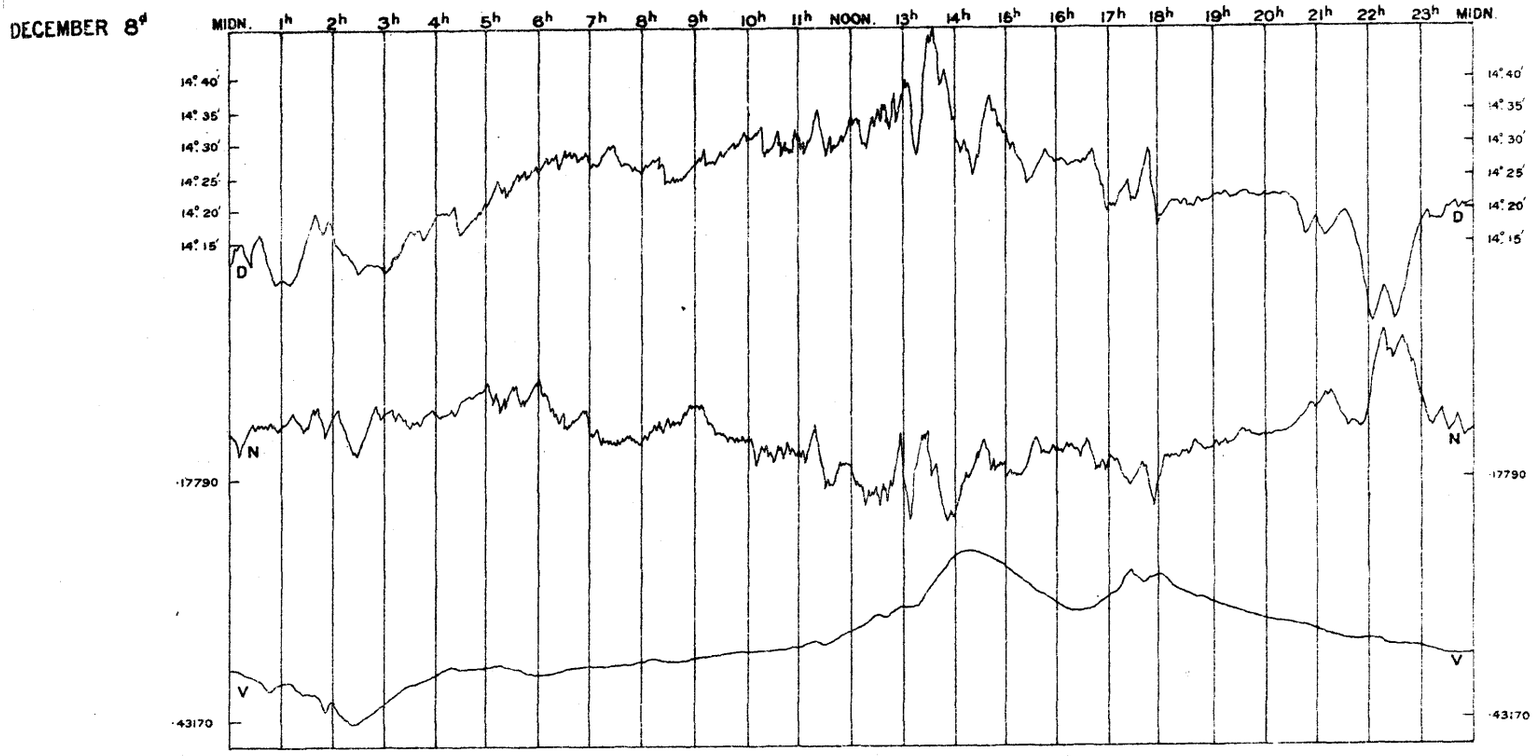
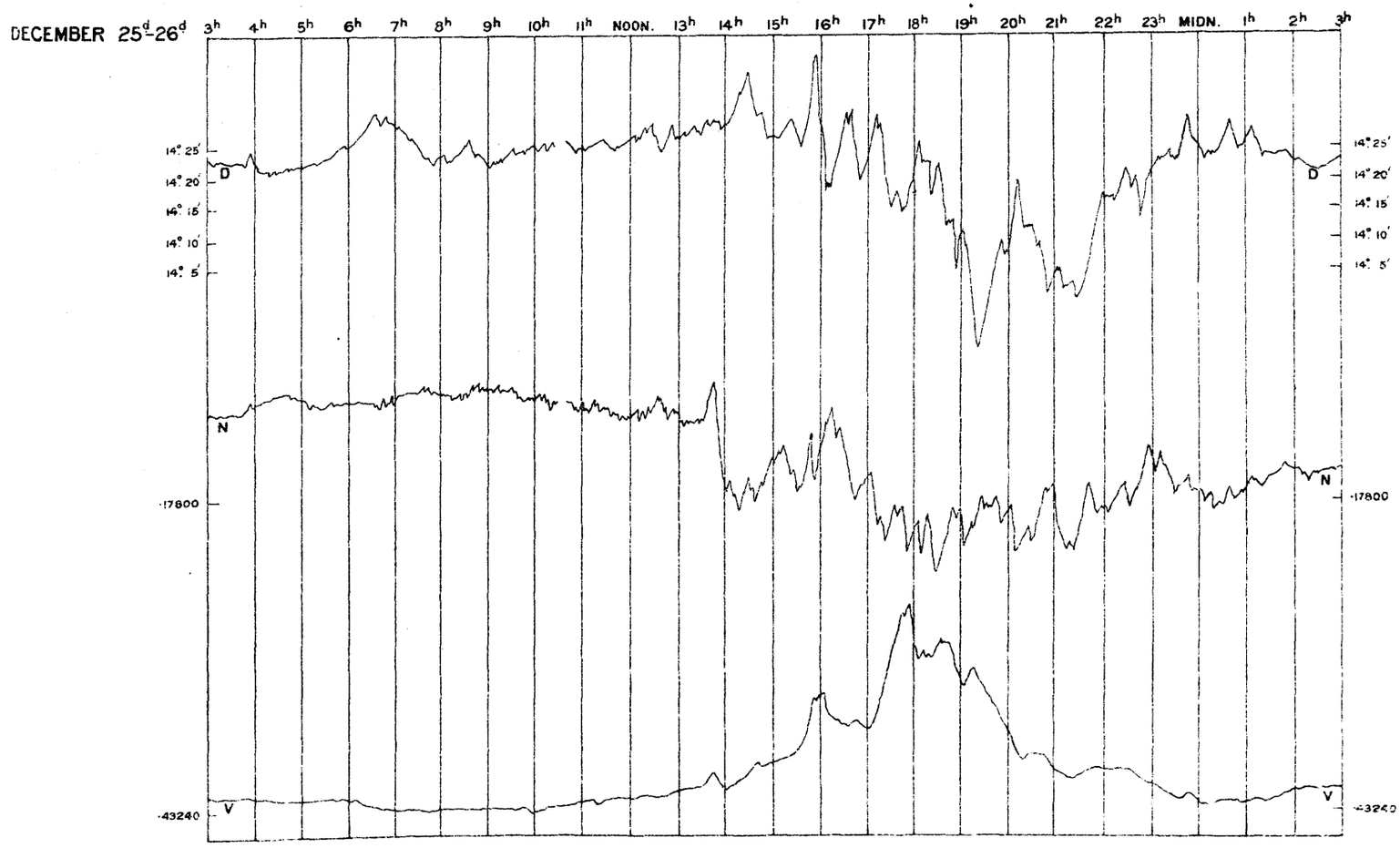


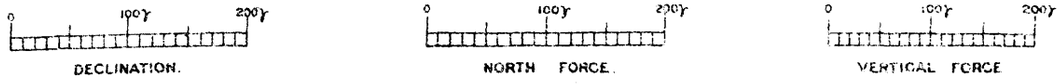
W286. B. Nº 1881A/86 – 143. 500. 5/22. J. W. Ltd.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1918.





SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.



W.286.B.WT.1861A/86-143.500.5.22.J.W.L.T.P.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1918.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Jan. 1	30·044	36·1	31·4	4·7	33·7	— 4·9	32·4	30·1	3·6	5·7	1·4	86	44·9	30·2	40·52	0·008	..
2	30·186	39·8	28·9	10·9	34·9	— 3·5	33·5	31·2	3·7	7·5	0·0	86	36·9	22·9	40·40	0·000	..
3	30·271	34·5	26·0	8·5	31·9	— 6·4	30·6	27·6	4·3	7·1	1·5	82	46·5	20·7	40·33	0·002	..
4	30·286	35·0	23·1	11·9	29·4	— 8·9	28·3	24·6	4·8	5·5	0·0	82	42·2	19·1	40·22	0·000	..
5	30·128	38·1	35·0	3·1	36·6	— 1·6	34·4	31·2	5·4	8·8	3·6	81	39·7	31·7	39·97	0·000	..
6	29·579	38·5	29·9	8·6	35·3	— 2·8	34·1	32·2	3·1	10·2	0·0	89	45·1	26·9	39·78	0·203	..
7	29·191	36·9	26·3	10·6	34·0	— 4·0	31·5	27·1	6·9	13·6	1·5	75	47·7	21·0	39·69	0·003	.. : .. : wP
8	29·544	28·9	22·4	6·5	25·4	— 12·5	24·3	18·6	6·8	8·4	1·4	74	40·9	16·4	39·65	0·050	..
9	29·880	39·5	18·5	21·0	29·5	— 8·4	27·7	21·7	7·8	7·6	1·1	72	40·0	13·9	39·45	0·014	.. : .. : wP
10	29·884	44·0	37·9	6·1	41·0	+ 3·1	38·1	34·4	6·6	9·2	4·3	78	62·8	32·0	39·28	0·000	wwP : wP : wP
11	29·787	42·1	38·2	3·9	40·3	+ 2·4	38·2	35·5	4·8	8·0	1·8	83	46·9	33·0	39·15	0·020	wP, wwP : wP : wP
12	29·504	41·1	35·2	5·9	38·9	+ 1·0	36·3	32·8	6·1	9·5	3·8	80	53·0	29·9	39·17	0·000	wP : wP : mP
13	29·619	37·5	29·1	8·4	33·7	— 4·3	31·1	26·4	7·3	11·8	0·6	74	50·7	23·9	39·26	0·006	mP
14	29·790	37·6	26·2	11·4	32·0	— 6·0	29·7	24·4	7·6	10·3	0·0	72	47·1	28·0	39·23	0·030	wP : wwP, wP : wP
15	29·261	50·3	32·5	17·8	40·4	+ 2·3	39·1	37·4	3·0	6·7	1·8	90	53·0	32·1	39·12	0·880	wP, wwP : wwP : wP, wwP
16	29·525	35·4	30·1	5·3	33·1	— 5·2	32·2	30·4	2·7	4·8	1·0	90	43·9	24·0	39·00	0·384	wwP : wP : wP
17	29·727	44·7	31·1	13·6	34·2	— 4·3	33·6	32·6	1·6	3·7	0·7	94	42·2	26·1	39·01	0·411	wP : wwP : wwN, wwP
18	29·397	50·9	44·7	6·2	48·9	+ 10·3	47·1	45·1	3·8	5·7	0·9	87	57·3	42·2	38·73	0·250	wwP : wwP : wwP, wwN
19	29·348	51·0	47·3	3·7	49·3	+ 10·6	46·7	43·9	5·4	9·8	1·7	82	58·0	43·0	39·07	0·285	wwP : wwP, wP : wP
20	29·213	53·6	44·9	8·7	50·1	+ 11·3	46·5	42·7	7·4	12·6	3·8	77	55·2	36·7	39·97	0·025	wwP : wwP : wP
21	29·280	56·0	46·8	9·2	49·4	+ 10·6	46·1	42·6	6·8	11·5	3·0	77	85·2	38·5	40·63	0·000	wP, wwP : wP : wP
22	29·312	56·2	45·4	10·8	49·2	+ 10·4	47·1	44·8	4·4	9·4	1·9	86	84·3	40·1	41·18	0·095	wP
23	29·714	52·0	42·2	9·8	47·6	+ 8·7	46·0	44·2	3·4	8·5	0·0	89	65·6	32·8	41·59	0·030	wP
24	30·127	55·6	48·2	7·4	50·8	+ 11·9	48·0	45·1	5·7	11·4	2·1	81	85·7	40·6	42·10	0·000	wwP : wP : wP
25	30·292	52·0	43·4	8·6	47·6	+ 8·5	46·0	44·2	3·4	5·9	1·7	89	77·0	36·2	42·42	0·000	wP
26	30·234	47·9	40·7	7·2	45·4	+ 6·1	44·0	42·4	3·0	5·5	2·4	89	65·0	35·9	42·80	0·000	wP
27	30·195	52·8	37·5	15·3	43·6	+ 4·1	42·0	40·1	3·5	9·3	0·0	87	83·9	27·9	43·07	0·000	wP
28	30·184	49·0	36·2	12·8	42·4	+ 2·8	40·9	39·1	3·3	7·9	0·9	89	77·0	26·1	43·10	0·004*	wP : wP, wwP : wP
29	30·189	51·5	36·3	15·2	41·6	+ 1·9	40·4	38·9	2·7	9·2	0·5	91	82·9	26·2	43·00	0·009*	wwP : wP : wP
30	30·238	51·5	30·1	21·4	39·5	— 0·2	37·8	35·6	3·9	11·0	0·0	86	82·1	23·0	42·82	0·005*	wP
31	30·227	47·9	28·0	19·9	36·5	— 3·2	34·8	32·4	4·1	11·3	0·0	86	74·4	21·8	42·49	0·001*	wP
Means	29·811	44·8	34·6	10·1	39·6	+ 1·0	37·7	34·8	4·7	8·6	1·4	82·8	58·6	29·1	40·52	Sum 2·715	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

*Rainfall (Column 16). The amounts entered on January 28, 29, 30, 31 are derived from frost and dew.

The mean reading of the *Barometer* for the month was $29^{in}\cdot811$, being $0^{in}\cdot017$ *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 56°·2 on January 22; the lowest in the month was 18°·5 on January 9; and the range was 37°·7.
The mean of all the highest daily readings in the month was 44°·8, being 1°·7 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 34°·6, being 0°·9 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 10°·1, being 0°·7 *greater* than the average for the 65 years 1841–1905.
The mean for the month was 39°·6, being 1°·0 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Jan. 1	0·1	7·9	NE : ENE	NE : NNE	5·3	0·55	478	10, oc.-sn, ho-fr, w : 10, w	10 : 10, oc.-m.-r : 10
2	0·0	7·9	N : Calm W	W : N	1·8	0·05	195	6, m.-r.-sh, ho.-fr: f, ho.-fr : f, slt.-sh	8, m : p.-cl, m.-r.-sh: 1
3	2·3	7·9	N : NNE	N : NNE	2·1	0·13	233	9 : 10, sn : p.-cl	1 : 1, m, h, ho.-fr
4	0·4	7·9	Calm : W	W : WSW	0·6	0·03	229	0, slt.-f, ho.-fr : 1, h	10, oc.-slt.-sn : 10 : 10
5	0·0	7·9	WSW	WSW : W	0·8	0·02	229	10 : 10, s : 10, s	10, s : 10
6	0·0	8·0	Calm : SW	SW : W	1·0	0·02	172	10 : 8 : 7, cu, s.-cu	10, fq.-slt.-r : 10, r : 10, m.-r
7	3·0	8·0	WSW : NW	N : NNW : NW	2·4	0·16	311	10, oc.-m.-r: : 10	1 : 0 : 0
8	3·4	8·0	NW : W : N	N : NW : W	7·0	0·70	477	3 : v.-cl, sn, w : p.-cl	1 : 1 : 0, ho.-fr
9	0·0	8·1	NW : W : SW	W	5·4	0·39	508	0, ho.-fr : 9, sn	10, w : 10, w
10	2·7	8·1	W	W : WSW	5·0	0·66	603	10, w : v.-cl, w : v.-cl, cu.-n, w	v.-cl, th.-cl, w : 10, oc.-m.-r, w
11	0·7	8·1	WSW : W : N	NW : WSW : SW	4·7	0·36	439	2, w : 10, slt.-r. glm	v.-cl, cu : 2 : 3, w
12	0·9	8·2	WSW : W	WSW : W : WNW	5·0	0·32	448	10, w : p.-cl : 9	10 : 10, oc.-slt.-r : 7
13	3·6	8·2	NW : W : WSW	WNW : W	3·8	0·21	362	0, h, ho.-fr: 0, h, ho.-fr: 0, h	1, cu : 1 : 9, slt.-sn
14	0·0	8·2	Calm : NE : SE	SSE : S : SSW	2·3	0·11	223	10, sn : 10 : 10, n	9, n, cu : 10 : 10
15	0·0	8·2	SSW : SW : WSW	WSW : N : E	7·1	0·57	424	10, r, m-r, w : 10, r, w	10, r, glm : 10, sn, sl, r
16	0·2	8·3	E : NE : N	NW : W : SW	1·5	0·09	284	10, r : 10, r, sl, sn	9, sn : 0 : 0, h, ho, fr
17	0·0	8·3	SSW : S : E	E : ESE : SSW	0·9	0·05	214	10 : 10, r, sn : 10, th.-r, sn	10, r : 10, fq.-shs : 10, m.-r
18	0·5	8·4	SSW : SW	SW	6·2	0·55	508	10 : 10, oc.-slt. r : 10, fq.-m.-r, w	10, oc.-m.-r, w : 10, oc.-slt.-r, w : 10, r
19	0·0	8·4	SW : SSW	S : SSW	4·4	0·30	372	10, r : 8, oc.-r : 10, oc.-slt.-r	10, oc.-slt.-r : 10, th.-cl : 10, r
20	0·0	8·5	SSW : S	S : SSE : SSW	6·2	0·60	474	p.-cl, w : 10, oc.-slt.-r	10, oc.-slt.-r : p.-cl.w, lu-ha : 2, w
21	6·2	8·5	SSW : S	S : SSE	4·5	0·27	339	v.-cl : v.-cl : 2, th.-cl	v.-cl : p.-cl, lu.-ha : 9, lu.-ha
22	3·5	8·6	SSE : S	SSW : S	1·6	0·10	251	10, fq.-shs : 8 : v.-cl, s, n, cl, cu	9, n : 10, r, m.-r : 10, m.-r
23	1·1	8·6	SSW : Calm SW	SW : SSW	2·9	0·12	282	8 : v.-cl, slt.-f : p.-cl, th.-cl, m	10 : 10, oc.-slt.-r : 10, r, m.-r
24	3·9	8·7	SSW : SW	SW : SSW	4·1	0·43	438	10, fq.-m.-r: 10, fq.-m.-r : p.-cl	p.-cl : 10, th.-cl, lu.-ha
25	4·2	8·7	SSW	SSW : SW	2·0	0·10	286	10 : 3 : 7	6 : 10 : 10
26	1·4	8·8	SW : SSW	SSW : SW	2·0	0·17	299	10 : 10 : 9, n	8 : 10, oc.-m.-r : 9, n
27	6·6	8·8	SW : Calm : S	S : SSW	1·0	0·04	192	9 : 8, f : 1, f	0 : 0
28	4·5	8·9	S : SW	SSW : S	1·5	0·06	245	0 : 7 : 9, cu.-n	p.-cl : 0, m : 0, h
29	7·6	8·9	S : Calm	SSW : Calm	0·8	0·01	199	0, f, hy.-d : : 0, m	1 : 1, ci : th.-cl, m
30	6·6	9·0	Calm : SE	SSE : S : Calm	0·3	0·00	126	th.-cl, hy..-d, ho.-fr. : f, ho.-fr	0 : 0, slt.-f
31	6·5	9·0	Calm E	ESE : Calm	0·2	0·00	127	0, f, ho.-fr : 0, tk.-f, ho.-fr : 0, f	0 : 0, ho.-fr
Means	2·3	8·4	..	..	..	0·23	322		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 37°·7, being 0°·5 *higher* than
The mean *Temperature of the Dew Point* for the month was 34°·8, being 0°·7 *lower* than
The mean *Degree of Humidity* for the month was 82·8, being 5·2 *less* than
The mean *Elastic force of Vapour* for the month was 0in.202, being 0in.004 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs.4, being the same as
The mean *Weight of a Cubic Foot of Air* for the month was 553 grains, being 1 grain *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·1.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·270. The maximum daily amount of *Sunshine* was 7·6 hours on January 29.
The highest reading of the *Solar Radiation Thermometer* was 85°·7 on January 24; and the lowest reading of the *Terrestrial Radiation Thermometer* was 13°·9 on January 9.
The *Proportions of Wind* referred to the cardinal points were N. 4, E. 2, S. 12, W. 10. Three days were calm.
The *Greatest Pressure of the Wind* in the month was 7·1 lbs. on the square foot on January 15. The mean daily *Horizontal Movement of the Air* for the month was 322 miles; the greatest daily value was 603 miles on January 10; and the least daily value was 126 miles on January 30.
Rain (0in.005 or over) fell on 17 days in the month, amounting to 2in.715 as measured by gauge No. 6 partly sunk below the ground; being 0in.834 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature. Of the Air.					Temperature. Of Evaporation.	Temperature. Of the Dew Point.	Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature. Of Radiation.		Temperature. Of the Earth 3 ft. 2 ins. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Feb. 1	30·228	44·4	28·4	16·0	33·8	− 5·8	33·0	31·6	2·2	6·5	0·5	91	76·0	20·3	42·11	0·003*	wwP, wP
2	30·163	46·5	32·5	14·0	39·9	+ 0·4	39·3	38·5	1·4	3·7	0·0	95	51·0	21·0	41·70	0·093	wwP
3	30·015	48·9	41·1	7·8	44·3	+ 4·8	42·5	40·4	3·9	5·3	1·6	86	65·9	39·2	41·50	0·048	wwP
4	29·914	48·1	41·9	6·2	46·0	+ 6·5	44·9	43·7	2·3	4·2	1·3	92	54·4	33·4	41·60	0·014	wwP
5	29·878	50·5	44·1	6·4	46·9	+ 7·3	45·3	43·5	3·4	5·8	1·1	89	65·0	36·2	41·90	0·021	wwP
6	29·806	51·0	40·1	10·9	46·6	+ 7·0	44·4	41·9	4·7	7·2	1·1	85	77·1	32·7	42·25	0·160	wwP, wP
7	29·697	55·6	47·2	8·4	50·7	+ 11·2	48·9	47·0	3·7	5·5	2·5	88	77·1	45·0	42·56	0·000	wwP
8	29·689	53·6	45·7	7·9	48·9	+ 9·6	46·4	43·7	5·2	12·3	0·0	83	86·1	39·0	43·00	0·128	wwP
9	29·725	53·5	46·1	7·4	49·3	+ 10·2	46·4	43·3	6·0	9·9	2·7	80	82·1	39·4	43·40	0·040	wwP : wP
10	29·978	56·8	48·0	8·8	50·9	+ 12·0	48·0	45·0	5·9	9·7	4·1	81	75·2	42·2	43·68	0·000	wwP : wP
11	30·125	53·6	48·1	5·5	50·8	+ 12·0	47·9	44·9	5·9	8·0	3·1	81	60·0	42·0	44·00	0·000	wP
12	30·136	51·2	44·8	6·4	48·2	+ 9·4	46·2	44·0	4·2	7·5	2·1	86	72·9	43·9	44·24	0·003	wP : wwP
13	29·927	51·3	44·7	6·6	48·6	+ 9·6	47·0	45·2	3·4	5·7	1·9	89	58·5	43·7	44·53	0·048	wwP : wP : wwP
14	30·182	45·6	41·0	4·6	42·8	+ 3·5	41·4	39·7	3·1	6·7	1·1	89	55·1	39·1	44·71	0·000	wP, wwP : wP, wwP : wP
15	30·265	45·5	31·6	13·9	39·7	+ 0·3	37·8	35·3	4·4	7·4	0·3	85	77·7	22·8	44·79	0·000	wP : wP : wP, mP
16	30·076	42·1	27·9	14·2	34·9	− 4·6	31·2	25·2	9·7	16·0	4·0	68	89·6	17·4	44·62	0·000	wP : sP, mP
17	30·098	38·9	23·1	15·8	30·2	− 9·4	28·0	21·3	8·9	12·9	0·0	68	79·7	14·0	43·97	0·000	.. : wwP : wwP
18	29·964	42·9	21·3	21·6	31·0	− 8·5	28·7	22·5	8·5	13·3	0·0	69	77·1	16·1	43·52	0·000	wwP : wwP : wP
19	29·948	43·3	23·2	20·1	31·3	− 8·2	29·7	25·6	5·7	12·2	0·0	78	73·8	18·1	42·77	0·000	wwP
20	29·886	48·2	33·0	15·2	42·2	+ 2·7	40·7	38·9	3·3	7·2	0·2	88	59·0	28·4	42·18	0·113	wwP : wP
21	29·979	48·8	36·3	12·5	42·9	+ 3·3	38·9	34·1	8·8	13·7	3·5	72	82·2	30·0	41·85	0·000	wwP, wP : wP
22	30·020	55·3	43·8	11·5	50·0	+ 10·3	47·5	44·8	5·2	6·4	2·1	83	72·5	39·6	41·90	0·011	wP, wwP : wP
23	30·333	59·1	47·2	11·9	52·7	+ 12·9	48·7	44·7	8·0	10·8	3·2	75	86·8	40·0	42·20	0·000	wP : mP
24	30·254	54·1	44·8	9·3	48·9	+ 8·9	44·8	40·4	8·5	12·2	2·8	72	86·7	38·5	42·80	0·000	wP : wP : mP
25	30·403	46·5	30·1	16·4	41·0	+ 0·9	38·3	34·9	6·1	13·3	0·0	79	84·2	24·5	43·23	0·243	wN, wP : wP : mP
26	30·416	49·8	30·9	18·9	41·7	+ 1·5	39·2	36·1	5·6	8·9	2·5	81	61·0	24·8	43·45	0·000	wP : wP : wP, wwP
27	30·013	50·0	39·9	10·1	45·5	+ 5·2	42·7	39·5	6·0	11·5	1·1	80	83·0	32·4	43·30	0·005	wwP, wP : mP : mP
28	29·436	44·9	33·3	11·6	37·7	− 2·6	35·3	32·0	5·7	11·2	1·8	81	78·9	27·7	43·30	0·053	wP : mP, mN : mP
Means	30·020	49·3	37·9	11·4	43·5	+ 3·9	41·2	38·1	5·3	9·1	1·6	81·9	73·2	31·8	43·04	Sum 0·983	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14, are derived from eye-readings of self-registering thermometers.

* Rainfall (Column 16). The amount entered on February 1st derived from fog and frost.

The mean reading of the *Barometer* for the month was 30$^{in.}$·020, being 0$^{in.}$·218, *higher* than the average for the 65 years, 1841–1905

Temperature of the Air.

The highest in the month was 59°·1 on February 23; the lowest in the month was 21°·3 on February 18; and the range was 37°·8.
The mean of all the highest daily readings in the month was 49°·3, being 4°·1 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the months was 37°·9, being 3°·7 *higher* than the average for 65 years, 1841–1905.
The mean of the daily ranges was 11°·4, being 0°·4 *greater* than the average for the the 65 years, 1841–1905.
The mean for the month was 43°·5, being 4°·0 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Feb. 1	4·4	9·1	Calm : NE : E	E : ESE	0·3	0·00	123	0, f, ho.-fr : f, ho.-fr : 10, f, ho.-fr	0 : 0
2	0·0	9·1	ESE : SSE	S	0·6	0·02	162	9, ho.-fr : 6 : 10, r	10, r : 10, r : 10, slt.-r
3	0·0	9·2	Calm : SE	ESE : Calm : S	0·7	0·00	149	10, oc.-slt.-r : 10, r, slt.-r	10, s, n, cu, slt.-sh : 9
4	0·0	9·2	S : SSW	S	3·5	0·27	352	8 : 10 : 10, n, fq.-slt.-r	10, n : 10, fq.-r : 10, m.-r
5	0·9	9·3	S : SSW	S : SSW	2·1	0·13	280	10, r : 8 : 8	10 : 10 : 10, fq.-m.-r
6	3·2	9·4	SSW : SW	SW	8·1	0·65	483	7 : v.-cl : p.-cl	9, n, oc.-slt.-r : 10, oc.-slt.-r, w : 10, slt.-r, w
7	0·3	9·4	SW	SW	7·8	0·75	562	10, fq.-slt.-r, w : 10 : 10, oc.-m.-r	10, oc.-m.-r, w : 10 : 9, n, m.-r.-sh
8	4·5	9·5	SSW : SW	SW	6·4	0·48	465	10, r, m.-r : 10, r : p.-cl, r	p.-cl, w, sh : 0 : 1
9	5·1	9·6	SW	SW	11·0	1·50	722	1, w : p.-cl, th.-cl, w, slt.-sh : p.-cl, cu, ci, w	v.-cl, st.-w : 10, m.-r, w : 10, r, w
10	1·8	9·6	SW	SW	7·8	0·95	657	v.-cl, m.-r.-sh, w : 9, w	v.-cl, ci, cu, w : v.-cl, w
11	0·1	9·7	SW	SW	6·4	0·62	539	v.-cl, w : v.-cl, w : 10, w	10, w : 10
12	0·6	9·7	SW	SW : SSW	3·2	0·26	360	10 : 9, cu, n	9, cu.-n : 10, m.-r : 10, oc.-m.-r
13	0·0	9·8	SSW : SW : WSW	W : NW : NNE	1·5	0·14	313	10, li.-r : 10, n, oc.-m.-r	10 : 10, fq.-m.-r : 10, slt.-m
14	0·0	9·8	NNE : NE : ENE	ESE : E	1·4	0·06	220	10 : 10, m.-r.-sh	10 : 10
15	1·8	9·9	Calm : ESE	ESE : SE	1·1	0·04	160	8 : 10, n	7 : 0, ho.-fr : 10
16	8·6	10·0	SSE : S	SSE : SE : ESE	2·2	0·17	245	10, ho.-fr : 1, ci, s, ho.-fr	1, ci.-s : 1 : 0, ho.-fr
17	9·0	10·0	E : SE	ESE : E : Calm	0·4	0·00	127	1, ho.-fr : : 1, ho.-fr	1 : 1, slt.-f
18	8·7	10·1	Calm : ESE : S	SSE : SE : Calm	0·7	0·02	109	1, ho.-fr, slt.-f : 0, ho.-fr	1 : 0, slt.-f, ho.-fr
19	4·2	10·2	Calm	Calm : SSW	0·4	0·00	100	1, ho.-fr : 0, slt.-f, ho.-fr	v.-cl, f : 0, slt.-f : 0, slt.-f
20	0·0	10·2	SSW	SSW : SW : W	5·0	0·37	384	10 : 10, oc.-m.-r : 10, oc.-m.-r	10, m.-r : 10, oc.-slt.-r : 10
21	6·2	10·3	W : WSW : SW	WSW : SW	4·4	0·48	475	th.-cl : 1 : 1	8 : 7, th.-cl, lu.-ha : 9, w, lu.-ha
22	0·1	10·3	SW	WSW	8·3	0·96	639	10, w : 10, n, slt.-r	10, n : 10, n
23	2·9	10·4	WSW : W : WNW	W : WSW	4·1	0·23	390	10 : v.-cl : 9	9 : 9 : 10
24	1·9	10·5	WSW : SW	WSW : SW	4·5	0·28	393	10 : 10 : 9, oc.-slt.-r	9, oc.-slt.-r : v.-cl : v.-cl, th.-cl
25	7·7	10·6	SW : N	N : Calm : S	7·5	0·53	376	10, r, w : p.-cl, cu, cu.-n	p.-cl : v.-cl, th.-cl, m, h, ho.-fr
26	1·8	10·6	SSW : SW	WSW	5·8	0·48	475	v.-cl, th.-cl, ho.-fr : 2, th.-cl : 9	10 : 10, n
27	1·7	10·7	W : WNW : WSW	WSW : SW : W	1·8	0·13	322	7 : p.-cl : v.-cl, n	10, n : 10, slt.-r : 9
28	3·6	10·7	W : WNW : WSW	Var. : N	2·6	0·20	295	2, hy.-d : 2, cu, cu.-n	9, oc.-slt.-sn : 9 : v.-cl
Means	2·8	9·9	..	..	..	0·31	353		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 41°·2, being 3°·5 *higher* than
The mean *Temperature of the Dew Point* for the month was 38°·1, being 2°·7 higher than
The mean *Degree of Humidity* for the month was 81·9, being 3·6 less than
The mean *Elastic Force of Vapour* for the month was 0in.230, being 0in.023 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs.7, being 0grs.3 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 553 grains, being the *same* as
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·1.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·286. The maximum daily amount of *Sunshine* was 9·0 hours on February 17.

The highest reading of the *Solar Radiation Thermometer* was 89°·6 on February 16; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·0 on February 17.

The *Proportions of Wind* referred to the cardinal points were N. 1, E. 3, S. 11, W. 10. Three days were calm.

The *Greatest Pressure of the Wind* in the month was 11·0 lbs. on the square foot on February 9. The mean daily *Horizontal Movement of the Air* for the month was 353 miles; the greatest daily value was 722 miles on February 9; and the least daily value was 100 miles on February 19.

Rain (0in.005 or over) fell on 13 days in the month, amounting to 0in.983 as measured by gauge No. 6 partly sunk below the ground; being 0in.497 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Mar. 1	29·700	43·0	30·6	12·4	36·0	− 4·4	32·4	27·0	9·0	16·3	2·6	69	95·7	23·7	43·25	0·004	wP : mP
2	29·858	38·9	30·1	8·8	33·3	− 7·1	30·1	23·9	9·4	15·2	3·1	68	78·3	23·0	42·86	0·000	wP : mP, wP
3	29·788	36·3	33·8	2·5	35·0	− 5·5	34·4	33·4	1·6	3·4	0·5	94	41·5	32·2	42·33	0·050	wP, wwP : wwP, wwN : wwP
4	29·866	38·8	35·2	3·6	37·2	− 3·5	35·9	34·1	3·1	6·0	1·2	89	44·8	35·0	41·99	0·000	wP, wwP : wP : wP, wwP
5	29·781	40·0	37·1	2·9	38·6	− 2·3	36·9	34·6	4·0	6·4	0·7	87	42·7	31·6	41·72	0·117	wwP : wP : wP
6	29·927	51·2	37·0	14·2	42·1	+ 1·1	39·8	36·9	5·2	10·7	0·9	83	92·9	30·9	41·72	0·004*	wP
7	29·916	44·1	37·6	6·5	41·1	+ 0·1	39·3	37·0	4·1	6·5	1·8	86	62·3	31·3	41·70	0·000	wP
8	29·888	42·6	29·5	13·1	36·3	− 4·8	34·2	31·1	5·2	10·3	1·5	82	89·7	20·5	41·77	0·000	wP
9	30·000	50·4	27·4	23·0	37·2	− 3·8	34·9	31·7	5·5	13·7	0·0	81	91·8	18·9	41·87	0·000	wP, wwP : wwP, wP : wP
10	30·016	59·0	29·1	29·9	41·1	+ 0·2	38·3	34·8	6·3	17·5	0·0	79	90·0	22·7	41·73	0·002*	wP : wP : wP, mP
11	29·971	61·9	37·1	24·8	48·2	+ 7·2	43·6	38·6	9·6	17·5	2·5	70	105·0	27·0	41·79	0·000	wP : wP, mP : sP
12	29·896	62·6	42·6	20·0	50·7	+ 9·6	45·7	40·5	10·2	19·4	3·0	69	108·1	27·2	42·10	0·000	mP : mP, ssP
13	30·142	52·7	41·9	10·8	46·2	+ 4·9	44·3	42·1	4·1	8·6	0·7	87	76·7	30·0	42·62	0·000	mP, wP : mP
14	30·000	52·0	38·2	13·8	42·5	+ 1·0	40·0	37·0	5·5	15·7	0·0	81	102·0	36·0	43·05	0·009	wP, mp : mP
15	29·852	47·1	32·6	14·5	39·5	− 2·2	36·6	32·8	6·7	14·1	1·8	78	99·2	25·6	43·35	0·000	wwP : mp, sP : ssP, sP
16	29·791	49·9	29·0	20·9	38·5	− 3·4	35·6	31·7	6·8	15·1	0·4	77	89·0	17·0	43·42	0·000	sP, mP : wP, mP : mP, sP
17	29·837	54·8	33·2	21·6	43·0	+ 1·0	41·0	38·6	4·4	9·7	0·0	84	99·4	20·9	43·21	0·001	wwP : wP : mP
18	29·963	61·2	36·7	24·5	46·7	+ 4·7	43·7	40·3	6·4	15·6	0·0	80	109·9	24·5	43·20	0·003*	wP : mP, sP
19	29·808	52·9	36·1	16·8	44·5	+ 2·6	42·7	40·6	3·9	8·9	0·7	87	70·0	24·3	43·34	0·059	sP, mP : mP : mP, wwP
20	30·094	59·0	41·8	17·2	50·0	+ 8·1	45·7	41·2	8·8	19·0	1·5	72	97·4	31·1	43·52	0·000	wP, mP : sP, ssP : ssP, sP
21	30·309	60·7	37·9	22·8	47·9	+ 6·0	44·0	39·7	8·2	18·7	0·2	74	99·5	29·5	43·80	0·000	mP, wwP : wP, sP : ssP, sP
22	30·303	66·5	37·1	29·4	51·1	+ 9·1	44·9	38·5	12·6	25·7	0·9	62	100·0	26·4	44·09	0·000	sP, mP : mP, ssP : mP
23	30·227	65·9	34·2	31·7	50·5	+ 8·3	43·9	37·0	13·5	22·6	2·6	61	90·8	24·1	44·22	0·000	mP : mP, ssP : ssP
24	30·087	65·2	33·9	31·3	48·3	+ 5·9	43·4	38·0	10·3	21·5	0·5	68	83·2	22·9	44·46	0·000	sP : sP, ssP : ssP
25	29·966	53·3	35·9	17·4	44·0	+ 1·3	40·1	35·5	8·5	16·1	3·7	72	105·8	26·0	44·56	0·000	ssP, mP : sP, ssP : ssP
26	30·012	47·8	33·0	14·8	38·9	− 4·1	35·7	31·5	7·4	14·3	0·8	75	91·0	20·0	44·48	0·000	sP : mP,ssP : ssP, mP
27	29·851	51·3	32·8	18·5	41·7	− 1·6	39·0	35·7	6·0	14·4	0·7	80	75·5	23·0	44·37	0·000	mP : . . : . .
28	29·354	50·0	39·8	10·2	45·2	+ 1·5	43·3	41·1	4·1	8·9	0·0	86	75·8	32·9	44·19	0·055	. . : wwP, wwN : mP
29	29·325	53·1	40·3	12·8	45·3	+ 1·2	41·7	37·5	7·8	14·6	1·8	75	98·3	35·8	44·20	0·214	wwP : sP, mP : sP, mP
30	29·302	48·9	33·2	15·7	42·8	− 1·7	41·7	40·4	2·4	6·8	0·4	91	65·0	26·0	44·20	0·372	wP : wwP
31	29·101	54·6	41·1	13·5	47·4	+ 2·5	44·3	40·9	6·5	12·2	0·7	79	93·2	33·5	44·19	0·079	wwP : wP : wP
Means	29·869	52·1	35·3	16·8	42·9	+ 1·0	39·9	36·2	6·7	13·7	1·1	78·3	86·0	26·9	43·14	Sum 0·969	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8 and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

*Rainfall (Column 16). The amounts entered on March 6, 10 and 18 are derived from dew, fog and frost.

The mean reading of the *Barometer* for the month was 29in·869, being 0in·123 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 66°·5 on March 22 ; the lowest in the month was 27°·4 on March 9 ; and the range was 39°·1.
The mean of all the highest daily readings in the month was 52°·1, being 2°·3 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 35°·3, being 0°·2 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 16°·8, being 2°·1 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 42°·9, being 1°·0 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Mar. 1	5·5	10·8	N : NNE : NE	NNE : NE	9·8	1·00	557	3 : 10,slt.-r,sl : v.-cl, cu.-n, w	v.-cl, w : 0
2	5·6	10·9	NNE : NE	NE	10·1	1·01	612	0, ho.-fr : 1 : v.-cl, w	v.-cl, w : 9, w : 10
3	0·0	10·9	NE	NNE : NE : ENE	8·8	0·68	460	10, oc.-slt.-sn, m.-r, w : 10, n, r, m.-r	10, r : 10, fq.-r : 10, m.-r
4	0·0	11·0	Calm : NE : N	N : NNE	4·1	0·21	266	10, oc.-m.-r : 10	10 : 10
5	0·0	11·1	NNE : ENE : E	E	6·0	0·41	376	10, r, m.-r : 10, oc.-m.-r	10 : v.-cl, slt.-sh : 6
6	8·4	11·1	E	E : ENE	5·6	0·30	345	6, hy.-d : 1, ci	1, ci.-s : 10, oc.-m.-r : 10
7	0·0	11·2	ENE : E	E : ENE	3·0	0·28	339	10, m.-r.-sh : 10	10 : v.-cl
8	2·4	11·2	ENE : NE	NE : E : ESE	3·0	0·17	273	1, a : 10 : 10,n,m-r,slt.-sn	3 : 1, ho.-fr
9	7·2	11·3	Calm : E	E : ESE : Calm	0·5	0·02	126	2, ho.-fr : f : 0, h, f	0 : 0, f
10	6·4	11·4	Calm	Calm : SSW	0·6	0·04	137	f, ho.-fr : f : 0, slt.-f	0, h : p.-cl, h : 0, h
11	7·7	11·5	Calm : SSW	SSW : S : SSE	2·3	0·07	245	1 : v.-cl, th.-cl : 8	1 : 2
12	6·8	11·5	SSE : S : SSW	SSW : Calm : N	1·6	0·05	204	10, h, th.-cl : 7, cu	1, m : 1, slt.-f
13	0·1	11·6	N : NNE	N : NNE : NE	0·8	0·05	196	10 : 10	9 : 10 : 10
14	6·2	11·7	NNE : NE : ENE	E : ENE : NE	3·4	0·33	334	10 : 9,m.-r.-sh: 1, cu,ci	7, s, n : 10, slt.-r : 10
15	7·3	11·7	NE : ENE : E	E : ENE : NE	4·4	0·42	359	10, hy.-d : 1	v.-cl, cu.-n : 10 : 9
16	5·2	11·8	NE : Calm	SSE : SE : E	0·6	0·00	113	10, ho.-fr, slt.-f : 1, ho.-fr,f: 1, m	1, so.-ha : 1
17	2·6	11·9	E : ENE	E : Calm : SE	1·1	0·06	201	0 : 9, slt.-sh : 10	7 : 10, slt.-sh : 1, d
18	5·5	11·9	Calm : S : SSW	SSW	3·1	0·15	278	0, hy.-d : v.-cl : 9, th.-cl, ci.-s	9, cu.-n : 9, lu.-ha : v.-cl, th.-cl
19	0·0	12·0	SSW : Calm	SW : W : NW	1·9	0·07	171	v.-cl,th.-cl,ho.-fr : 10, slt.-r	10, oc.-slt.-r : 10, oc.-slt.-r
20	8·4	12·1	NW : NNW	NNW : NW : SW	2·1	0·20	290	10, hy.-d : 0 : 1	1 : v.-cl, th.-cl, f : 1, slt.-f, th.-cl
21	7·2	12·1	SW	W : WSW	1·0	0·04	243	1 : 10, tk.-f :: 3, f	1, ci : 2, th.-cl : 1
22	9·3	12·2	WSW : W	W : NW : Calm	0·6	0·02	206	1 : 1, h	0, h, f : 0, h, m
23	10·2	12·3	Calm : W	Calm : NW	0·4	0·00	126	0,slt.-m,ho.-fr : 0, h	0, h : 0, m
24	5·2	12·3	Calm	Calm : W	0·2	0·00	90	0,m,slt.-f,ho.-fr : 0, m	1, f : 0, m : 0, m, h
25	3·0	12·4	NNE	NNE : N	3·5	0·34	338	0, m, d : 10 : 8	9 : 1
26	3·3	12·4	N : NNE	N : Calm : S	1·1	0·12	212	1 : 1 : 8, cu.-n	8 : 5 : 9
27	0·4	12·5	SSW : SW : WSW	WSW : SW : SSW	3·9	0·25	361	7, slt.-ho.-fr :10, cu.-n	10, n : v.-cl, cu
28	0·0	12·6	SW : SSW	SSW : SW : WSW	8·0	0·72	505	v.-cl : 10, oc.-m.-r : 10, slt.-r	10, slt.-r : p.-cl : 7
29	3·8	12·7	WSW : W : NW	WNW : W : WSW	8·9	0·55	485	10, t, l, r : 7, cu.-n, oc.-slt.-r	10, n, oc.-slt.-r : 10
30	0·0	12·7	SW : S : SSE	S : SW	2·4	0·07	233	7 : 10, r	10, r : 2
31	7·8	12·8	S : SSW : SW	SSW : SW	9·9	0·65	479	10, fq.-r : 8, oc.-m.-r, w	v.-cl, oc.-shs, w : p.-cl : v.-cl
Means	4·4	11·8	..	..	..	0·27	295		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 39°·9, being 0°·5 *higher* than
The mean *Temperature of the Dew Point* for the month was 36°·2, being 0°·1 *lower* than
The mean *Degree of Humidity* for the month was 78·3, being 2·2 less than
The mean *Elastic Force of Vapour* for the month was 0in.214 being the *same* as
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs.5, being the *same* as
The mean *Weight of a Cubic Foot of Air* for the month was 551 grains, being 2 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5·5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·371. The maximum daily amount of *Sunshine* was 10·2 hours on March 23.

The highest reading of the *Solar Radiation Thermometer* was 109°·9 on March 18; and the lowest reading of the *Terrestrial Radiation Thermometer* was 17°·0 on March 16.

The *Proportions of Wind* referred to the cardinal points were N. 8, E. 7, S. 6, W. 6. Four days were calm.

The *Greatest Pressure of the Wind* in the month was 10·1 lbs. on the square foot on March 2. The mean daily *Horizontal Movement of the Air* for the month was 295 miles; the greatest daily value was 612 miles on March 2; and the least daily value was 90 miles on March 24.

Rain (0in.005 or over) fell on 8 days in the month, amounting to 0in.969, as measured by gauge No. 6, partly sunk below the ground; being 0ins.551 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 in. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Apr. 1	29·286	56·7	42·0	14·7	47·5	+ 2·2	44·3	40·8	6·7	12·4	1·7	78	103·9	34·2	44·37	0·038	wwP : wP : wP
2	29·616	56·8	36·8	20·0	44·8	— 0·9	41·5	37·7	7·1	15·1	0·7	76	111·9	28·3	44·53	0·025	wwP : mP : wP, wwP
3	29·672	56·8	32·0	24·8	44·5	— 1·5	41·0	37·0	7·5	16·4	0·0	74	119·1	24·1	44·70	0·008	wwP : . . : . .
4	29·615	50·9	41·4	9·5	46·4	+ 0·2	44·2	41·7	4·7	8·8	1·1	85	72·0	38·3	44·70	0·040	. .
5	29·825	54·0	37·0	17·0	43·0	— 3·3	40·4	37·3	5·7	14·9	0·2	80	100·8	28·1	44·80	0·000	. .
6	29·722	51·5	37·7	13·8	45·0	— 1·3	43·2	41·1	3·9	8·9	0·0	86	67·8	29·0	45·01	0·274	. .
7	29·726	52·2	35·1	17·1	42·8	— 3·5	40·3	37·3	5·5	12·9	0·0	82	99·9	29·0	45·15	0·046	. .
8	29·763	55·5	39·1	16·4	45·8	— 0·3	43·2	40·2	5·6	15·2	0·0	82	115·2	35·1	45·00	0·037	. .
9	29·453	48·9	40·7	8·2	43·7	— 2·3	43·2	42·6	1·1	4·8	0·4	96	69·9	40·9	45·10	0·012	. .
10	29·451	47·0	42·1	4·9	44·9	— 1·0	44·4	43·8	1·1	2·6	0·4	96	51·0	42·0	45·20	0·072	. .
11	29·625	49·0	43·2	6·7	45·6	— 0·2	45·1	44·6	1·0	2·3	0·4	97	59·7	39·4	45·30	0·061	. .
12	29·752	61·3	42·9	18·4	49·6	+ 3·7	46·8	43·8	5·8	16·0	0·4	81	118·9	31·4	45·40	0·001	. .
13	29·730	51·7	35·9	15·8	43·6	— 2·5	42·6	41·4	2·2	6·1	0·0	92	71·2	30·0	45·60	0·003	. .
14	29·806	46·9	36·8	10·1	41·2	— 5·2	37·9	33·8	7·4	13·5	0·7	75	83·0	32·0	45·80	0·002	. .
15	29·787	48·8	33·2	15·6	39·9	— 6·9	38·6	36·9	3·0	9·0	0·5	90	95·8	32·4	45·73	0·366	. .
16	29·790	41·1	32·2	8·9	37·7	— 9·5	37·3	36·7	1·0	2·3	0·0	96	45·5	32·0	45·50	0·548	. .
17	29·868	44·7	41·1	3·6	42·7	— 4·9	42·0	41·2	1·5	2·6	0·5	94	50·2	40·8	45·00	0·241	. .
18	29·889	45·0	33·0	12·0	40·1	— 7·9	37·4	33·9	6·2	13·6	0·0	78	80·8	27·6	44·79	0·003	. .
19	29·741	46·8	32·1	14·7	36·6	— 11·7	33·8	29·8	6·8	11·5	1·6	77	104·0	27·0	44·62	0·041	. .
20	29·652	44·1	33·5	10·6	37·1	— 11·4	35·5	33·3	3·8	8·0	0·7	86	80·9	29·7	44·41	0·083	. .
21	29·585	44·5	35·0	9·5	38·9	— 9·8	38·2	37·4	1·5	7·2	0·0	94	65·1	32·1	44·16	0·702	. .
22	29·720	54·9	37·3	17·6	45·3	— 3·4	41·6	37·3	8·0	15·0	0·7	74	104·0	29·9	43·92	0·000	. .
23	29·839	49·2	40·6	8·6	44·0	— 4·6	42·5	40·7	3·3	8·2	0·0	88	62·7	29·9	44·08	0·085	. .
24	29·888	54·4	36·2	18·2	45·2	— 3·4	43·5	41·5	3·7	7·8	0·2	87	89·1	27·1	44·41	0·000	. .
25	29·828	66·0	43·1	22·9	50·8	+ 2·2	48·4	45·9	4·9	12·6	0·4	84	115·8	39·3	44·75	0·044	. .
26	29·880	65·0	43·1	21·9	50·2	+ 1·6	47·3	44·2	6·0	15·9	0·0	81	108·1	34·8	45·05	0·000	. .
27	30·000	64·2	42·5	21·7	49·7	+ 1·0	45·9	41·9	7·8	23·2	0·4	74	113·1	32·1	45·72	0·000	. .
28	29·996	47·9	41·2	6·7	44·2	— 4·6	42·9	41·4	2·8	4·2	1·5	90	54·0	37·1	46·12	0·114	. .
29	29·890	54·5	40·4	14·1	45·6	— 3·4	42·6	39·2	6·4	10·7	1·8	79	101·1	36·2	46·46	0·000	. .
30	29·866	55·9	40·1	15·8	46·1	— 3·0	43·1	39·7	6·4	10·6	2·5	79	97·5	35·9	46·45	0·000	. .
Means	29·742	52·2	38·2	14·0	44·1	— 3·2	42·0	39·5	4·6	10·4	0·6	84·4	87·1	32·9	45·06	Sum 2·846	. .
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the co responding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8 and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29$^{in.}$·742, being 0$^{in.}$·006 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 66°·0 on April 25; the lowest in the month was 32°·0 on April 3; and the range was 34°·0.
The mean of all the highest daily readings in the month was 52°·2, being 5°·0 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 38°·2 being 0°·8 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 14°·0, being 4°·2 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 44°·1, being 3°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Apr. 1	3·3	12·9	SSW : SW : WSW	SW : W : NW	3·0	0·28	363	p.-cl : 9, oc.-r : 8	9, r : 10 : 10, m.-r
2	7·4	12·9	WSW : SW	W : SW	4·7	0·16	295	p.-cl, hy.-d : 1	9, cu.-n, oc.-slt.-r : v.-cl : 0
3	7·0	13·0	Calm : SSW : SE	S : SE : E	3·0	0·05	174	1, hy.-d, ho.-fr : p.-cl, cu, ci.-s	8, cu.-n : 10, oc.-m.-r : 10, m.-r
4	0·0	13·0	E : ENE	ENE : NE : NNE	3·6	0·33	392	10 : 10, oc.-m.-r	10, m.-r, r : 10
5	5·2	13·1	NNE : N	N : SSE : SSW	1·0	0·11	222	10 : 10, n	0, h : 0, h
6	0·0	13·2	SSW : SW	SSW : SW : WSW	4·3	0·26	362	0, : 10, : 10, r	10, r : p.-cl : 0
7	4·4	13·2	WSW : NW	N : W : NW	2·0	0·09	226	0 : 7 : 8, sh, m.-r	8, sh : 10, fq.-slt.-r : 10, slt.-r
8	5·5	13·3	N : NNE : NE	NE : ESE	1·2	0·08	212	10, oc.-r,m.-r : v-cl, cu	9 : v.-cl : 10
9	0·0	13·4	Calm : ESE	E : ENE	1·6	0·08	175	10, m.-r, m : 10, oc.-m.-r	10, n : 10, fq.-slt.-r : 10, oc.-slt.-r
10	0·0	13·4	ENE : E	NNE : N	2·5	0·18	252	10, oc.-m.-r : 10, oc.-m.-r	10, slt.-r : 10, m.-r
11	0·0	13·5	NNE : NE	E : Calm	0·5	0·03	149	10, m : 10, r : 10, li.-r	10, oc.-slt.-r : 10, oc.-r, m : 10, m
12	7·8	13·5	Calm : SW : W	W : Calm	0·6	0·02	131	10 : 10, slt.-r : 7	7 : 0, m
13	0·0	13·6	Calm : NE	NNE : NE	4·0	0·30	293	10, f : 10, m	10 : 10, oc.-m.-r
14	0·8	13·7	NE	NE : NNE	8·0	1·15	596	10, oc.-m.-r, w : 10, n, slt.-sh, w	9, w : 9, w : v.-cl
15	0·6	13·8	N : NNE	NNE : N	7·1	0·70	452	10, slt.-r : 10, oc.-slt.-r	10, r, oc.-m.-r : 10, r, sn
16	0·0	13·8	N : NNE	N : NNE	2·0	0·21	273	10, r, sn : 10, r, sl	10, m.-r : 10, m.-r
17	0·0	13·9	NNE : NE	NNE : NE	2·5	0·25	368	10, slt.-r : 10, oc.-m.-r, r	10, r, oc.-m.-r : 10, r
18	0·5	13·9	NNE	NNE : N	7·0	0·76	485	10, slt.-r : 10, fq.-m.-r, w	10, w : 8 : 0
19	4·9	14·0	NNW : N	N : NW : SW	5·5	0·40	321	0 : 9, oc.,slt.-sn : 7, cu.-n, oc.-sn	v.-cl, cu, oc.-sn : v.-cl, oc.-sn, m : 10
20	1·1	14·1	W : NW : N	S : SW : Calm	0·8	0·00	143	10, r : 10 : 10, glm	v.-cl, oc.-glm,-sl : 10, oc.-r,-sl : 10, r, m.-r
21	0·0	14·1	SE : ESE	SE : Calm	5·6	0·27	265	10, r, oc.-sn : 10, r, sn, sl	10, r, m.-r : 10, m.-r, r
22	7·7	14·2	Calm : NE : N	N : NNW	2·1	0·07	196	10 : 10, m : p.-cl	p.-cl : 2, h : v.-cl, th.-cl
23	0·0	14·3	W : N : Calm	Calm : NE : E	0·5	0·01	111	9 : 10, r : 10,m,r,m.-r,oc.-glm	10, slt.-m : 10 : 9
24	2·1	14·3	Calm : N : NE	NNE : N	1·8	0·09	234	v.-cl,th.-cl,hy.-d,slt.-ho.-fr : 9, n, cu	10 : 10
25	5·1	14·4	N : NNE	NNE : SE : N	2·3	0·14	226	10, hy.-d : 10, hy.-d : p.-cl	8,fq.-slt.-r,t: p.-cl, oc.-r,-h : 7
26	6·0	14·5	N	N : NNE	1·3	0·05	198	10 : 10	7 : 3 : 0, hy.-d
27	7·4	14·5	N	N : NNE	5·2	0·24	288	7 : 10, f : 10, cu	v.-cl, cu : 3 : 7
28	0·0	14·6	N : NNE	N : NNE	5·3	0·53	447	10, r : 10, m.-r	10 : 10, sh : v.-cl
29	1·6	14·6	NNE	NNE : N	4·1	0·45	453	10 : 10 : 9	9 : v.-cl : p.-cl
30	0·8	14·7	NNE : NE	ENE : NE	4·7	0·45	448	10 : 10	10 : 10 :
Means	2·6	13·8	..	..	..	0·25	292		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 42°·0, being 1°·9 *lower* than
The mean *Temperature of the Dew Point* for the month was 39°·5, being 0°·6 *lower* than
The mean *Degree of Humidity* for the month was 84·4, being 8·6 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in.242 being 0in.006 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs.8, being 0gr.1 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 547 grains, being 4 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8·2.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·192. The maximum daily amount of *Sunshine* was 7·8 hours on April 12.
The highest reading of the *Solar Radiation Thermometer* was 119°·1 on April 3; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°·1 on April 3.
The *Proportions of Wind* referred to the cardinal points were N. 15, E. 7, S. 2, W. 3. Three days were calm.
The *Greatest Pressure of the Wind* in the month was 8.0 lbs. on the square foot on April 14. The mean daily *Horizontal Movement of the Air* for the month was 292 miles; the greatest daily value was 596 miles on April 14; and the least daily value was 111 miles on April 23.
Rain (0in.005 or over) fell on 19 days in the month, amounting to 2in.846 as measured by gauge No. 6 partly sunk below the ground; being 1in.280 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
May 1	30·071	49·8	41·2	8·6	44·2	− 5·1	40·6	36·4	7·8	13·5	4·4	74	102·1	36·2	46·60	0·000	..
2	30·127	54·0	40·3	13·7	47·3	− 2·2	45·1	42·7	4·6	8·2	2·0	85	88·1	32·9	46·61	0·000	..
3	29·886	59·4	39·4	20·0	49·6	− 0·2	46·9	44·0	5·6	11·4	0·9	82	118·9	31·8	46·82	0·290	..
4	29·714	67·9	48·3	19·6	55·1	+ 5·1	52·0	49·0	6·1	16·9	0·4	80	118·0	38·2	46·99	0·133	..
5	29·565	54·5	46·2	8·3	50·4	+ 0·1	49·8	49·2	1·2	3·2	0·2	96	67·0	36·2	47·46	0·192	..
6	29·570	68·9	49·1	19·8	56·4	+ 5·9	53·0	49·8	6·6	16·5	0·0	79	125·1	42·9	48·05	0·021	..
7	29·550	55·9	45·9	10·0	50·4	− 0·3	49·4	48·3	2·1	6·3	0·6	93	75·8	40·7	48·35	0·347	..
8	29·618	68·0	45·3	22·7	54·6	+ 3·6	50·6	46·8	7·8	15·9	2·3	75	121·9	35·9	48·78	0·000	..
9	29·672	67·7	43·2	24·5	54·2	+ 3·0	48·7	43·3	10·9	21·2	0·0	67	116·9	34·9	49·15	0·000	..
10	29·710	55·5	41·0	14·5	48·7	− 2·8	46·1	43·3	5·4	10·3	0·9	82	115·9	31·9	49·50	0·000	..
11	29·697	63·1	39·5	23·6	50·1	− 1·7	47·8	45·4	4·7	11·9	0·0	85	125·6	28·8	49·90	0·000	..
12	29·520	60·8	45·6	15·2	51·7	− 0·4	47·6	43·4	8·3	16·4	1·7	74	110·9	37·4	50·15	0·059	..
13	29·427	60·0	45·1	14·9	50·1	− 2·3	48·0	45·8	4·3	9·4	0·8	85	97·1	36·4	50·49	0·212	..
14	29·603	63·7	43·1	20·6	51·8	− 0·8	48·8	45·8	6·0	14·8	0·0	80	115·0	35·0	50·57	0·000	..
15	29·780	68·7	50·1	18·6	57·7	+ 4·9	54·4	51·4	6·3	16·2	0·0	80	121·9	38·6	50·59	0·000	..
16	29·808	76·5	48·2	28·3	62·9	+ 9·9	56·0	50·1	12·8	23·7	1·4	63	137·0	37·8	50·98	0·000	..
17	29·765	78·9	50·2	28·7	63·1	+ 10·0	58·9	55·3	7·8	19·0	0·0	76	128·9	41·0	51·70	0·096	..
18	29·905	76·8	52·4	24·4	63·5	+ 10·2	58·7	54·7	8·8	22·1	0·0	74	123·2	43·1	52·55	0·000	..
19	30·101	73·0	48·9	24·1	61·0	+ 7·5	55·5	50·8	10·2	19·7	0·6	69	133·6	38·9	53·25	0·000	..
20	30·102	74·0	47·3	26·7	60·2	+ 6·4	53·7	48·0	12·2	26·0	0·4	64	137·8	36·6	53·97	0·000	..
21	30·002	83·0	47·1	35·9	64·8	+ 10·6	57·6	51·6	13·2	28·4	0·6	62	142·1	38·0	54·65	0·000	..
22	29·897	79·7	51·1	28·6	65·7	+ 11·1	58·1	51·9	13·8	27·7	1·6	61	133·8	40·1	55·41	0·212	..
23	29·822	66·7	49·1	17·6	56·6	+ 1·7	53·2	50·0	6·6	16·1	0·0	79	121·8	48·5	56·00	0·313	..
24	29·867	59·9	48·2	11·7	54·4	− 0·9	50·0	45·7	8·7	12·1	4·0	72	61·1	47·2	56·49	0·019	..
25	29·951	71·0	54·6	16·4	60·6	+ 5·1	55·4	50·9	9·7	16·9	3·2	70	117·5	47·0	56·37	0·000	..
26	29·989	61·7	51·5	10·2	55·3	− 0·5	52·6	50·0	5·3	11·2	0·8	83	114·2	44·5	56·03	0·013	..
27	30·156	68·0	43·4	24·6	55·8	− 0·2	50·1	44·8	11·0	20·7	2·7	66	131·0	33·1	56·00	0·000	..
28	30·225	67·9	41·2	26·7	54·3	− 1·9	49·7	45·2	9·1	16·0	1·1	71	117·5	31·0	56·01	0·000	..
29	30·270	67·2	43·4	23·8	54·8	− 1·6	49·6	44·6	10·2	20·2	0·6	68	133·5	30·4	55·97	0·000	..
30	30·237	74·7	40·4	34·3	58·3	+ 1·6	51·7	45·9	12·5	23·3	0·4	63	124·0	28·2	56·10	0·000	..
31	30·285	71·9	46·1	25·8	59·7	+ 2·6	54·1	49·1	10·6	18·3	0·8	68	136·8	33·2	56·40	0·000	..
Means	29·867	66·7	46·0	20·7	55·6	+ 2·5	51·4	47·5	8·1	16·6	1·0	75·0	116·6	37·3	51·87	1·907	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13 and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in.867, being 0in.073 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·0 on May 21; the lowest in the month was 39°·4 on May 3; and the range was 43°·6.
The mean of all the highest daily readings in the month was 66°·7, being 2°·8 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 46°·0, being 2°·3 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 20°·7, being 0°·5 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 55°·6, being 2°·6 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
May 1	1·5	14·8	NE : ENE : E	E : ESE : ENE	3·4	0·30	329	10 : 10 : 9	9 : 10 : 10
2	0·5	14·8	ENE : NE : E	E	2·0	0·15	240	10 : 10	10 : 3 : 0
3	1·9	14·9	E : ENE	E : WSW	6·3	0·40	347	0 : p.-cl : 9	8 : 9 : 10, r
4	6·2	14·9	WSW : W	W : Var. : E	1·9	0·08	178	10, r, oc.-m.-r : 10 : 7	p.-cl : p.-cl : 0, m, h
5	0·0	15·0	Calm : NE	NNE : E : Calm	1·0	0·05	152	9 : 9, hy.-d,f : 10, r	10, r : 10, slt.-r : 10, oc.-m.-r
6	5·1	15·0	S : SW	SW : var. : E	0·5	0·02	159	10, r : v.-cl	8, cu.-n, n : 8 : 9
7	0·0	15·1	NE : N	N	3·5	0·24	294	10, m, d : 10, r	10, r : 9 : v.-cl
8	8·3	15·1	N : NNE	N : NE : Calm	2·1	0·15	236	8 : 10 : v.-cl, slt.-sh	7 : 1 : 1
9	11·8	15·2	Calm : N	N : NNE	0·8	0·04	184	0, hy.-d : 7 : 1, ci	1, ci : 1 : 0
10	8·0	15·2	NNE : N	N : E	1·7	0·08	200	0, hy.-d : 8 : 8, cu.-n	9, cu.-n : 0 : 0
11	5·6	15·3	NE : E	E : SW : S	0·8	0·03	140	0, hy.-d : 10, m, m.-r : 10	1 : 10
12	7·5	15·3	SW : NW : W	W : WSW : SW	5·3	0·26	293	10, sh : v.-cl : 10, slt.-r, t	v.-cl : 3 : 1
13	1·0	15·4	SW : S : SSW	SSW : W	2·8	0·25	255	6 : 10, r, m.-r : 10, r	10, sh : 0
14	3·8	15·4	SSW : SW	SSW	3·0	0·26	298	0, hy.-d : 7	10 : 10
15	6·1	15·5	SSW : S	SSW : SSE	1·5	0·18	212	10 : 10, cu.-n	9 : 2 : 1, s
16	12·4	15·6	SSE : Calm : ESE	SE : S : Calm	1·8	0·10	127	0 : v.-cl.-th.-cl : 9	1 : 0
17	8·7	15·6	Calm : NE : SE	E : SE : Calm	5·1	0·04	107	0 : 2 : 6, t	9, t.-sm, f : p.-cl : 0, h
18	12·0	15·7	SW : NNW : N	N : NNW : ENE	0·8	0·08	155	0, h, hy.-d : : 0, h	3 : v.-cl : 1, th.-cl
19	11·4	15·7	Calm : NE : E	E	1·4	0·09	148	0, d, slt.-f : 0	0 : 9, t : 0, h
20	14·7	15·8	Calm : E	E : Calm	2·3	0·15	191	0, hy.-d : 0	0 : 0
21	13·6	15·8	Calm : E : ESE	ESE : E : Calm	1·5	0·07	137	v.-cl, th.-cl, d, tk.-f : 0	1 : 0
22	13·6	15·8	Calm : E	E : SW	3·7	0·20	203	0, hy.-d, slt.-m : 0, h	0 : 7 t.-sm, hy.-r : 10, t.-sm
23	7·8	15·9	SSW : SW	SW	19·4	1·22	521	10 : 7, slt.-t.-sm : 9, slt.-sh, w	6, m.-r.-sh, w : 9, r, w : 10, r, w
24	0·0	15·9	WSW : W	WNW : NW	7·7	0·83	522	10, oc.-r, w : 10, oc.-r, w	10 : 10, m.-r.-sh
25	2·0	16·0	W : NW : N	NW : W	1·0	0·09	181	10 : 10	8 : 10 : 10
26	0·1	16·0	W : N : NE	NNE : N	2·5	0·23	243	10 : 9, m : 10, oc.-slt.r	10 : 10
27	11·4	16·0	N : NNE	NNE : ENE : Calm	2·0	0·19	209	10 : 2 : 1	6, cu.-n : v.-cl : 1
28	5·1	16·1	Calm : SW : N	N : NNE	3·1	0·15	219	8, m : th.-cl, m : 8, cu	8, cu : v.-cl : 1
29	10·4	16·1	NNE : NE	NE : E : Calm	1·3	0·09	165	2, m : 10 : 3	1 : 0 : 0, h
30	13·1	16·1	Calm : SW : NNW	N : NE : Calm	1·1	0·02	107	0, m, d : 0, h : 2, h	2, h : 1 : 1, th.-cl
31	14·8	16·2	Calm : ENE	ENE : E : Calm	1·6	0·11	176	0, h : 0	1 : 0 : 0
Means	7·0	15·5	..	..	..	0·20	223		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 51°·4, being 2°·4 *higher* than
The mean *Temperature of the Dew Point* for the month was 47°·5, being 2°·5 *higher* than
The mean *Degree of Humidity* for the month was 75·0, being 0·8 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in.329, being 0in.030 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs.7, being 0grs.3 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 536 grains, being 2 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5·3.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·454. The maximum daily amount of *Sunshine* was 14·8 hours on May 31.
The highest reading of the *Solar Radiation Thermometer* was 142°·1 on May 21; and the lowest reading of the *Terrestrial Radiation Thermometer* was 28°·2 on May 30.
The *Proportions of Wind* referred to the cardinal points were N. 8, E. 7, S. 5, W. 4. Seven days were calm.
The *Greatest Pressure of the Wind* in the month was 19·4 lbs. on the square foot on May 23. The mean daily *Horizontal Movement of the Air* for the month was 223 miles; the greatest daily value was 522 miles on May 24; and the least daily value was 107 miles on May, 17, 30.
Rain (0in.·005 or over) fell on 12 days in the month, amounting to 1in.907, as measured by gauge No. 6 partly sunk below the ground; being 0in.·008 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
June 1	30·281	77·9	47·2	30·7	63·2	+ 5·8	56·5	51·0	12·2	23·9	1·0	65	124·0	36·2	56·89	0·000	..
2	30·178	79·7	46·9	32·8	65·0	+ 7·2	56·4	49·3	15·7	26·9	0·8	57	130·9	32·2	57·37	0·000	..
3	30·066	67·9	45·3	22·6	57·8	− 0·3	53·1	48·8	9·0	15·4	0·4	72	133·9	31·3	57·85	0·000	..
4	30·086	66·1	43·9	22·2	54·1	− 4·2	49·5	45·0	9·1	15·3	0·8	71	134·0	29·0	58·20	0·000	..
5	30·083	67·2	42·6	24·6	54·5	− 3·9	49·4	44·5	10·0	19·3	0·9	69	132·3	29·6	58·20	0·000	..
6	30·095	72·9	38·1	34·8	56·7	− 1·6	49·1	42·0	14·7	26·0	0·2	58	139·1	26·0	58·17	0·000	..
7	30·065	65·2	44·4	20·8	56·5	− 1·7	51·2	46·3	10·2	19·2	2·1	68	95·2	29·2	58·15	0·003	..
8	30·180	71·1	48·1	23·0	59·3	+ 1·2	52·0	45·6	13·7	23·3	5·4	60	132·9	36·5	58·32	0·000	..
9	29·964	69·1	46·6	22·5	55·9	− 2·1	50·5	45·4	10·5	18·8	3·0	68	125·0	34·0	58·38	0·022	..
10	29·816	67·2	47·0	20·2	55·4	− 2·7	50·2	45·3	10·1	18·8	2·3	69	135·0	40·0	58·39	0·030	..
11	30·040	73·8	50·1	23·7	60·5	+ 2·3	55·0	50·2	10·3	20·5	1·0	68	134·1	39·9	58·31	0·000	..
12	30·067	71·6	50·8	20·8	60·5	+ 2·1	53·7	47·7	12·8	20·3	5·3	63	120·9	38·8	58·29	0·000	..
13	29·994	74·0	52·6	21·4	62·1	+ 3·6	57·1	52·8	9·3	14·3	3·6	72	128·0	42·7	58·49	0·000	..
14	29·791	68·5	50·6	17·9	57·7	− 1·0	54·6	51·8	5·9	12·4	1·1	81	115·5	44·9	58·70	0·207	..
15	29·630	64·9	44·6	20·3	52·8	− 6·0	47·1	41·4	11·4	20·4	0·2	66	135·0	31·3	58·70	0·000	..
16	29·573	62·8	40·6	22·2	50·1	− 8·8	45·9	41·5	8·6	16·4	2·0	73	126·2	27·8	58·50	0·046	..
17	29·650	64·4	37·1	27·3	51·0	− 8·0	47·1	43·0	8·0	17·1	0·0	75	112·5	26·0	58·30	0·150	..
18	29·629	61·9	44·1	17·8	53·4	− 5·8	49·2	45·0	8·4	16·1	1·2	73	108·5	31·9	57·80	0·154	..
19	29·521	68·8	50·6	18·2	56·9	− 2·6	54·1	51·5	5·4	14·2	0·0	82	141·5	49·2	57·50	0·050	..
20	29·763	72·9	53·8	19·1	59·4	− 0·5	55·0	51·1	8·3	20·4	0·8	74	129·9	50·1	57·45	0·012	..
21	29·783	71·9	54·4	17·5	60·1	− 0·2	54·9	50·3	9·8	22·3	1·5	70	137·9	48·0	57·50	0·006	..
22	29·802	68·0	49·4	18·6	58·4	− 2·2	51·1	44·6	13·8	22·8	2·4	60	131·4	39·5	57·69	0·000	..
23	30·001	67·4	45·0	22·4	55·0	− 5·9	47·6	40·5	14·5	22·8	6·0	58	131·0	35·0	57·89	0·000	..
24	29·858	64·2	43·5	20·7	52·8	− 8·4	48·2	43·6	9·2	18·8	0·4	71	123·4	29·9	57·95	0·038	..
25	29·823	67·2	40·0	27·2	52·1	− 9·3	47·3	52·4	9·7	21·2	0·0	70	132·2	26·2	58·00	0·017	..
26	29·872	66·5	43·0	23·5	54·7	− 6·8	48·7	42·9	11·8	18·5	3·2	65	125·4	31·4	57·82	0·000	..
27	29·840	70·0	47·0	23·0	58·9	− 2·7	51·8	45·5	13·4	21·1	5·9	61	135·9	36·1	57·73	0·000	..
28	29·884	72·1	52·2	19·9	60·5	− 1·1	55·2	50·6	9·9	17·5	3·6	70	133·5	44·0	57·78	0·000	..
29	30·055	72·5	47·2	25·3	59·5	− 2·1	54·9	50·8	8·7	22·4	0·0	73	146·9	34·0	58·16	0·000	..
30	29·995	79·1	44·0	35·1	62·5	+ 1·0	55·1	48·8	13·7	24·3	0·6	61	131·1	32·0	58·61	0·000	..
Means	29·913	69·6	46·4	23·2	57·2	− 2·2	51·7	47·0	10·6	19·7	1·8	68·1	128·8	35·4	58·04	Sum 0·735	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was $29^{in}\cdot913$, being $0^{in}\cdot098$ *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 79°·7 on June 2; the lowest in the month was 37°·1 on June 17; and the range was 42°·6.
The mean of all the highest daily readings in the month was 69°·6, being 1°·1 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 46°·4, being 3°·5 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 23°·2, being 2°·4 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 57°·2, being 2°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
June 1	9·8	16·2	Calm : SW	N : NNE : NE	1·1	0·05	128	o, m : 8, m : 1	p.-cl : o : o
2	13·0	16·2	Calm : ENE : NW	NNW : N : NE	1·1	0·05	133	o, d, slt.-m : o, h	o : p.-cl : 8
3	7·4	16·3	ENE : E : NE	NNE : N : ENE	1·9	0·13	210	v.-cl, d : 1, d : p.-cl	10 : 2 : 2
4	1·5	16·3	NNE : N	NNE : ENE	1·8	0·07	167	8 : 8 : 9, n	9 : 8
5	10·2	16·3	E : NE : N	NE : E : Calm	1·5	0·08	165	9 : 10 : p.-cl	8 : p.-cl : o
6	14·2	16·4	Calm : ESE : SE	SE : E : S	2·3	0·07	158	o : 1, th.-cl : 2	2 : 2 : 1, s, cu
7	0·1	16·4	S : SSW	SSW : SW : NNW	1·9	0·14	221	p.-cl : 10 : 10, oc -slt.-r	10, oc.-r : 10 : 8
8	10·2	16·4	NNW : N	N : NE : E	1·5	0·09	140	7 : p.-cl	7 : v.-cl : 1
9	5·6	16·4	SE : S : SSW	SW : WSW : W	6·0	0·49	342	1 : 1 : 9, s	10, shs : v.-cl, sh : v.-cl, slt.-shs
10	6·4	16·4	SW : S : NNE	NNE : N	6·0	0·37	343	8, oc.-r, m.-r : 10, oc.-m.-r : 10	10 : 9 : 1
11	8·1	16·5	NNW : N	N : E : NNE	2·0	0·15	207	9 : 1	8 : p.-cl : 8
12	5·8	16·5	NNW : N	NNW : WNW : W	1·6	0·08	195	o, h : 10 : 7, h	8, so.-ha, h : 3 : v.-cl
13	3·8	16·5	W : SW	WSW : SW	3·8	0·27	313	o : 7 : 10, s	9 : 2 : o
14	1·9	16·5	SW	SW : WSW : W	3·7	0·38	393	v.-cl : v.-cl : 10,m.-r.-sh	10, m.-r : 10, r : 9, r
15	12·2	16·5	W : WSW	SW : W	2·9	0·28	337	3, hy.-d : 2 : 8, cu.-n	7 : p.-cl : o
16	8·1	16·5	SSW : WSW : W	SW : S : Calm	2·5	0·08	202	1, hy.-d : p.-cl : 8, cu.-n	10, oc.-r, slt.-t.-sm : 1
17	6·7	16·5	Calm : NW : W	Var.	1·6	0·08	144	1, hy.-d, slt.-m : o, hy.-d slt.-m : 7, cu.-n	9, cu.-n : 10, r, oc.-t,-l : 10, oc.-r, t, l
18	5·2	16·6	Calm : SW	SSW : S : SE	5·4	0·30	301	10 : 1 : 9, cu-n, ci	10, cu.-n, s : 10, r : 10, r
19	2·2	16·6	E : SE : S	S : NNW	2·5	0·08	160	10, oc.-m.-r : 10, oc.-m.-r : 9, n	10, n, r : 10 : 10, oc.-slt.-r
20	4·8	16·6	NNW : NW : W	WSW : SW	4·5	0·38	340	9, oc.-slt.-r : : 7	10, r, m.-r : 10 : 10, oc.-m.-r
21	7·6	16·6	W : NW	WSW : SW	4·5	0·47	394	7 : v.-cl : 7,th.-cl,ci	10, oc.-r : 10, oc.-r : 8
22	11·2	16·6	SW : WSW : W	W : WNW : NW	14·2	1·09	550	th.-cl, hy.-d : 8, w : 8, w	7, w, cu.-n : 8, w : 3
23	12·3	16·6	W : WSW : NW	NW	7·0	0·60	389	o : 7 : 8, cu.-n	8 : 1 : o
24	4·2	16·6	W : WSW : SW	W : NNW : NNE	4·1	0·23	265	8 : 10, m.-r, sh, glm	7 : v.-cl : v.-cl, h
25	7·9	16·6	WSW : W : WNW	W : NNW	4·5	0·16	225	o, hy -d, slt.-m : : 7, cu.-n	8, cu.-n : 8, oc.-r : 1, h
26	7·1	16·5	NNW : W	NW : SW	1·5	0·13	183	v.-cl : p.-cl. : 9, n	9 : 8 : 7, cu.-n
27	12·1	16·5	NW : WNW : W	N : NW : W	3·2	0·22	270	2 : 3	th.-cl, ci.-s, so.-ha : 9
28	1·7	16·5	NW : W	W : NW : N	1·2	0·05	173	10 : 10 : 9	8, cu.-n : 8 : 10, m
29	12·4	16·5	N : NNE	N : ENE : ESE	1·6	0·11	167	10, hy.-d, m : p.-cl : p.-cl	p.-cl : o
30	10·7	16·5	Calm : ESE : NE	NE : N : S	0·8	0·02	102	o, m, h : o, h	3, cu.-n : v.-cl : 9
Means	7·5	16·5	..	..	..	0·22	244		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 51°·7, being 3°·2 *lower* than
The mean *Temperature of the Dew Point* for the month was 47°·0, being 3°·9 *lower* than
The mean *Degree of Humidity* for the month was 68·1, being 5·5 *less* than
The mean *Elastic Force of Vapour* for the month was 0in.323, being 0in.050 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs.6, being 0grs.6 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 536 grains, being 5 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·5.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·454. The maximum daily amount of *Sunshine* was 14·2 hours on June 6.
The highest reading of the *Solar Radiation Thermometer* was 146°·9 on June 29; and the lowest reading of the *Terrestrial Radiation Thermometer* was 26°·0 on June 6, 17.
The *Proportions of Wind* referred to the cardinal points were N. 8, E. 3, S. 5, W. 9. Five days were calm.
The *Greatest Pressure of the Wind* in the month was 14·2 lbs. on the square foot on June 22. The mean daily *Horizontal Movement of the Air* for the month was 244 miles; the greatest daily value was 550 miles on June 22; and the least daily value was 102 miles on June 30.
Rain (0in.005 or over) fell on 11 days in the month, amounting to 0in.735, as measured by gauge No. 6 partly sunk below the ground; being 1·303 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
July 1	29·898	82·0	50·7	31·3	65·2	+ 3·7	59·3	54·5	10·7	24·0	0·0	69	142·2	39·1	59·01	0·000	.. : .. : sP, wP
2	30·049	68·6	51·4	17·2	60·6	− 1·0	55·4	50·9	9·7	16·4	5·2	70	122·4	38·1	59·46	0·000	mP : sP : sP, mP
3	30·243	70·4	47·6	22·8	58·3	− 3·5	52·3	46·9	11·4	19·6	2·3	66	146·9	32·3	59·81	0·000	wP : sP, ssP : ssP, mP
4	30·230	76·9	47·3	29·6	61·9	− 0·2	54·1	47·4	14·5	28·7	1·3	59	147·5	33·0	60·25	0·000	wwP, sP : sP : ssP, mP
5	30·068	76·8	59·1	17·7	65·5	+ 3·2	55·9	48·1	17·4	31·2	6·6	53	149·1	45·6	60·30	0·000	mP, sP : ssP : ssP
6	29·978	73·5	57·4	16·1	63·6	+ 1·2	55·1	48·0	15·6	24·0	7·7	57	137·0	42·7	60·85	0·000	ssP : sP : sP
7	29·968	78·5	54·7	23·8	64·6	+ 2·2	57·4	51·4	13·2	24·7	3·0	62	138·9	39·9	61·25	0·000	mP : mP : wP
8	29·696	81·5	52·2	29·3	66·8	+ 4·4	59·0	52·7	14·1	27·9	2·0	61	138·5	40·5	61·60	0·000	wwP, mP : mP : sP
9	29·518	73·1	48·7	24·4	60·9	− 1·5	53·3	46·7	14·2	25·4	5·1	60	156·9	34·3	61·76	0·000	mP : mP, wwP
10	29·487	66·3	48·1	18·2	54·3	− 8·2	51·5	48·8	5·5	14·3	0·0	81	125·5	34·3	61·90	0·498	wwP : wP : mP, wwP
11	29·495	60·1	48·7	11·4	53·9	− 8·8	52·3	50·7	3·2	5·9	1·2	89	101·5	39·3	61·70	1·950	wP, wwP : wwN, wwP
12	29·487	66·9	51·9	15·0	57·0	− 5·9	54·2	51·6	5·4	16·0	0·2	82	126·6	44·2	61·20	0·307	wwP : wwP, wP : v, mP
13	29·713	72·0	50·2	21·8	58·9	− 4·2	55·0	51·5	7·4	17·1	0·0	77	133·0	40·9	60·70	0·162	wP : mP : mP
14	29·648	68·9	47·5	21·4	58·0	− 5·3	56·4	55·0	3·0	6·7	0·6	89	101·2	36·1	60·30	0·120	wP : wwP : wP
15	29·726	76·1	56·9	19·2	64·2	+ 0·8	60·9	58·2	6·0	13·2	0·4	81	137·0	51·9	60·30	0·000	wP : wP, wwP : wP
16	29·651	80·4	57·0	23·4	66·9	+ 3·5	63·5	60·8	6·1	15·2	0·7	81	133·0	46·9	60·49	0·192	wwP : wP, mP : mP
17	29·647	76·5	56·1	20·4	64·2	+ 0·8	61·6	59·4	4·8	11·8	0·0	85	125·1	45·5	60·81	1·253	wwP : wP : wwP
18	29·689	71·0	56·0	15·0	62·1	− 1·2	58·4	55·2	6·9	15·7	0·0	78	133·0	48·3	61·70	0·129	wP : wP : wwP
19	29·867	67·9	54·9	13·0	61·1	− 2·1	59·4	57·9	3·2	8·9	0·9	90	97·8	47·1	61·68	0·166	wwP : wwP : wP
20	29·622	72·9	57·5	15·4	62·8	− 0·4	60·7	58·9	3·9	10·0	0·6	87	119·7	49·9	61·62	0·219	wP : wwP : wP
21	29·681	73·8	55·4	18·4	62·5	− 0·7	56·5	51·4	11·1	20·5	2·1	68	134·9	48·2	61·66	0·009	wwP : wP : mP, wP
22	29·672	68·1	54·2	13·9	60·0	− 3·1	56·9	54·2	5·8	11·5	1·2	81	100·2	47·0	61·49	0·090	wP : mP : wwP
23	29·404	71·1	56·5	14·6	61·7	− 1·3	59·7	58·0	3·7	8·9	0·0	88	107·7	50·3	61·60	0·539	wP : wwP : wP
24	29·643	74·1	53·4	20·7	59·4	− 3·5	56·1	53·2	6·2	14·6	0·2	81	142·6	47·7	61·61	0·826	wP : v, wwP
25	29·743	70·2	53·1	17·1	58·8	− 3·9	55·5	52·5	6·3	15·9	0·6	80	136·8	46·0	61·80	0·353	wwP : wwP, mP : wP, wwP
26	29·608	66·0	53·0	13·0	57·2	− 5·3	54·7	52·4	4·8	13·1	0·4	84	113·9	45·3	61·69	0·501	wP : wwP, wP
27	29·716	67·1	49·6	17·5	58·3	− 4·1	54·4	50·9	7·4	12·0	0·4	76	129·4	40·9	61·60	0·027	wwP : wP, mP.
28	29·985	70·9	47·2	23·7	59·1	− 3·2	55·3	51·9	7·2	15·8	0·0	77	105·9	37·9	61·30	0·000	wwP, wP
29	30·005	77·9	51·7	26·2	64·0	+ 1·7	59·5	55·8	8·2	18·9	0·2	75	119·8	43·1	61·26	0·000	wwP : wP : mP
30	29·943	76·4	52·9	23·5	64·6	+ 2·3	60·5	57·1	7·5	15·1	0·0	77	107·2	42·6	61·30	0·000	wwP : wP : wP, wwP
31	29·880	74·3	51·9	22·4	63·1	+ 0·9	59·1	55·7	7·4	15·1	0·0	77	131·6	40·9	61·48	0·000	wwP : wP : wP
Means	29·773	72·6	52·7	19·9	61·3	− 1·4	56·9	53·2	8·3	16·7	1·4	75·5	127·2	42·6	61·08	Sum 7·341	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was $29^{in.}\cdot773$, being $0^{in.}\cdot026$ *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 82°·0 on July 1; the lowest in the month was 47°·2 on July 28; and the range was 34°·8.
The mean of all the highest daily readings in the month was 72°·6, being 1°·6 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 52°·7, being 0°·6 *lower* than average for the 65 years, 1841–1905.
The mean of the daily ranges was 19°·9, being 1°·0 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 61°·3, being 1°·4 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
July 1	9·6	16·5	Calm : N : NNW	Var.	2·3	0·04	131	v.-cl, th.-cl, h : 1, h, slt.-m	7, cu.-n : v.-cl : v.-cl, h
2	4·0	16·5	NNW : N	NNE : NE	4·0	0·34	314	v.-cl, h : p.-cl, h	10 : 3 : 1
3	11·9	16·5	NNE : N	N : NNE	2·9	0·30	283	1 : 9 : 7, cu	1 : 0 : 0
4	13·2	16·4	NNW : NNE	N : E : SE	2·0	0·15	210	1 : 1	1, cu, ci : 10, s, n
5	3·8	16·4	S : SW : NNW	N : WNW : W	1·8	0·15	231	10 : 10 : 9	7, ci, cu : 2 : 7
6	5·7	16·4	W : WSW : NW	NNW	2·0	0·18	242	10 : 10	8 : 1 : 3
7	4·1	16·4	NNW : NW	NW : S	1·5	0·08	157	7 : 7 : 8, cu.-n	8, cu.-n : p.-cl : v.-cl, ci.-s
8	8·4	16·3	Calm : SSW : S	S : SSW : SW	1·5	0·14	213	7 : p.-cl, so.-ha	9, th.-cl, so.-ha : p.-cl : 1
9	11·1	16·3	W : SW	SW : SSW	4·7	0·43	351	p.-cl, slt.-sh : 2 : 7, n, cu	8, ci, cu, shs : 7 : 1
10	2·6	16·3	S : SSE	SSW : S	3·6	0·31	291	10 : 10, r	9, oc.-r : 9 : 9, r
11	0·4	16·3	S : SSW	SW : W : S	5·3	0·47	371	2 : 8, r	10, fq.-hy.-shs, t.-sm : 2
12	6·1	16·2	S : SSW	SSW : SW	10·2	0·48	370	0 : 10, fq.-r : 8	8, shs : v.-cl, sh : 1
13	9·8	16·2	SW	SW : WNW : SSW	3·6	0·17	274	1 : 1 : v.-cl, sh	8, r, m.-r : v.-cl : 1
14	1·2	16·2	S : SE : ESE	SSE : SSW	2·5	0·18	255	1 : 10, r : 10, r, m.-r	10, r, m.-r : 9 : v.-cl
15	1·3	16·1	SSW	SSW : S : SSE	1·6	0·18	223	v.-cl : 10, m.-r.-sh	8, m.-r.-sh : 7, slt.-sh : 9, n
16	7·1	16·1	SE : S : SW	SSW	2·1	0·15	216	10, t.-sms : v.-cl : v.-cl, cu.-n	10, slt.-shs : 8 : 3
17	0·9	16·1	S : Calm : SE	E : W : S	4·5	0·06	144	0, m, hy.-d : 8, oc.-slt.-r : 10, slt.-sh	10, sh : 10, hy.-r, t.-sm : 7
18	11·3	16·0	SSW	SSW : SW	13·8	0·78	443	7 : v.-cl : 8, oc.-shs, w	v.-cl, w, sh : v.-cl, sh : 2, cu
19	2·7	16·0	SSW : S	SSW : SE	2·2	0·16	235	2, hy.-d : 6 : 10, r	10, r : 10, r : 10
20	3·1	16·0	S : SE	ESE : SSW : SW	1·9	0·10	207	v.-cl : v.-cl : 10, r, t.-sm	10, r : 9 : 9
21	12·6	15·9	S : WSW	WSW : SSW	8·8	0·80	493	9 : 6 : 8, cu.-n, oc.-shs	v.-cl, w : p.-cl
22	0·3	15·9	SSW : S	SSW : S	3·2	0·33	310	p.-cl : 8 : 10, s, n, oc.-slt.-r	10, s, n, oc.-slt.-r : 10, r : 10, m.-r.-sh
23	2·2	15·8	SSE : SE : E	WSW : SW	4·7	0·17	242	10 : 10, m, r : 10, r, m.-r	10, s, r, m.-r, m, h : 8 : p.-cl
24	8·9	15·8	SW	SW : WSW : SSW	5·0	0·40	341	p.-cl : p.-cl : v.-cl, cu.-n, slt.-shs	10, cu.-n, oc.-shs, t : 10, fq.-hy.-shs, oc.-t : 10, shs
25	9·8	15·7	SSW : SW	SSW : SW	6·8	0·33	327	v.-cl, hy.-d : p.-cl : v.-cl	v.-cl, shs, t : 9, t
26	4·0	15·7	SSW : SW	SSW : SW : W	3·9	0·24	284	10 : 9, oc.-shs	10, r : 10, oc.-r, slt.-t.-sm : 10, m.-r
27	3·0	15·6	NW : NNW	NNW	6·2	0·45	335	10 : 10, oc.-m.-r : 9, cu.-n, fq.-shs	8, cu.-n, oc.-shs : 7, shs : 0
28	1·8	15·6	SW : W : NNW	NNW : W : SSW	0·6	0·02	143	0, hy.-d, m : 8 : 8, h	10 : 9, h : 9, th.-cl
29	7·4	15·5	SW : W	W : N : Calm	0·6	0·01	135	th.-cl, d, m : 0, m : 7	8, cu.-n : 8 : 1, h
30	7·5	15·5	Calm : SW	Calm : E	0·3	0·00	96	1, d, h, m : 1, h, m : 3, h	9, th.-cl, h : 7, h : 0, hy.-d, h
31	12·2	15·4	Calm : E	E	2·3	0·07	162	0, hy.-d, m : 1, h, m : 0	0 : 1
Means	6·1	16·1	..	..	..	0·25	259		
Number of Column for Reference	18	19	20	21	22	23	24·	25	26

The mean *Temperature of Evaporation* for the month was 56°·9, being 1°·0 *lower* than
The mean *Temperature of the Dew Point* for the month was 53°·2, being 0°·6 *lower* than
The mean *Degree of Humidity* for the month was 75·5, being 2·7 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in.406, being 0in.009 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs.5, being 0grs.1 less than
The mean *Weight of a Cubic Foot of Air* for the month was 528 grains, being 1 grain *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·7.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·378. The maximum daily amount of *Sunshine* was 13·2 hours on July 4.
The highest reading of the *Solar Radiation Thermometer* was 156°·9 on July 9; and the lowest reading of the *Terrestrial Radiation Thermometer* was 32°·3 on July 3.
The *Proportions of Wind* referred to the cardinal points were N. 5, E. 3, S. 13, W. 7. Three days were calm.
The *Greatest Pressure of the Wind* in the month was 13·8 lbs. on the square foot on July 18. The mean daily *Horizontal Movement of the Air* for the month was 259 miles; the greatest daily value was 493 miles on July 21; and the least daily value was 96 miles on July 30.
Rain (0in.·005 or over) fell on 17 days in the month, amounting to 7in.341, as measured by gauge No. 6 partly sunk below the ground; being 4·942 ***greater*** than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Aug. 1	29·764	76·1	53·0	23·1	63·4	+ 1·2	59·6	56·4	7·0	14·4	0·4	78	136·1	44·9	61·71	0·000	wwP : wP : wP
2	29·547	66·0	54·8	11·2	60·7	− 1·4	58·9	57·4	3·3	7·2	0·2	89	98·9	48·3	61·90	0·223	wwP : wP, wwP : wP
3	29·506	68·1	52·2	15·9	59·2	− 2·9	57·2	55·4	3·8	10·7	0·2	88	108·8	45·4	62·17	0·140	wwP : wwP, wP : wP
4	29·602	74·8	53·9	20·9	63·5	+ 1·4	59·3	55·8	7·7	16·8	0·0	76	123·5	43·0	62·12	0·000	wwP : wP : wP
5	29·573	72·0	57·0	15·0	61·8	− 0·3	59·7	57·9	3·9	12·3	0·0	87	122·7	54·3	62·10	0·027	. . : wP : wwP
6	29·485	68·1	53·1	15·0	59·6	− 2·6	55·2	51·3	8·3	15·5	0·8	74	130·4	44·3	62·21	0·040	wwP, wP : wP, mP : mP,wwP
7	29·800	71·8	53·3	18·5	62·1	− 0·1	59·1	56·5	5·6	13·9	0·0	82	121·0	44·1	62·28	0·002	wwP : wwP : wwP, wP
8	29·878	71·0	54·4	16·6	61·5	− 0·8	57·4	53·9	7·6	16·1	0·0	76	129·7	46·7	62·22	0·003	wP : wwP, wP
9	30·013	70·2	51·5	18·7	60·5	− 1·8	55·2	50·6	9·9	18·1	1·4	70	121·0	43·9	62·20	0·000	wwP : mP : wP, wwP
10	30·139	72·8	48·0	24·8	61·6	− 0·7	57·3	53·6	8·0	15·5	0·4	76	119·8	38·2	62·21	0·000	wwP : wwP, mP : mP, wP
11	30·067	77·2	49·5	27·7	63·2	+ 0·8	58·0	53·6	9·6	19·4	0·4	71	136·7	39·8	62·13	0·000	wwP : wP, wwP : wwP
12	30·003	77·8	54·2	23·6	65·6	+ 3·1	59·7	54·9	10·7	19·4	1·0	69	127·8	44·6	62·20	0·000	wwP : wwP, mP : ssP, mP
13	30·123	75·1	53·8	21·3	64·5	+ 2·0	57·7	52·1	12·4	19·5	2·3	64	129·6	40·9	62·50	0·000	sP, mp : mP, sP : ssP, wP
14	29·953	78·0	52·0	26·0	65·3	+ 2·8	59·2	54·2	11·1	21·3	0·6	68	134·5	41·8	62·79	0·000	wwP : mP : sP, mP
15	29·919	74·1	54·0	20·1	63·4	+ 1·0	57·4	52·4	11·0	19·4	0·6	67	139·1	40·2	62·90	0·000	wwP : sP : ssP, wP
16	29·867	77·1	47·9	29·2	63·1	+ 0·8	55·7	49·5	13·6	21·2	0·6	61	137·2	35·2	63·19	0·000	wP : mP : ssP
17	29·825	70·0	54·3	15·7	60·7	− 1·4	57·2	54·2	6·5	10·6	2·3	80	122·5	45·9	63·20	0·037	mP, wP : mP, wwP
18	29·863	73·1	55·8	17·3	64·1	+ 2·2	58·0	52·9	11·2	18·7	2·5	67	133·5	46·1	63·31	0·000	wwP : wP, mP : mP, sP
19	29·961	72·9	52·0	20·9	61·4	− 0·3	57·4	53·9	7·5	18·2	0·4	77	135·0	43·0	63·20	0·000	mP : mP, wwP
20	29·974	79·5	58·7	20·8	67·3	+ 5·8	63·7	60·9	6·4	15·7	0·0	80	131·6	53·0	63·13	0·000	wwP, wP, : wP : mP, wP
21	30·002	84·1	60·1	24·0	69·6	+ 8·3	65·1	61·6	8·0	18·4	0·0	75	141·2	50·9	63·36	0·000	wwP : wP, mP : mP, wP
22	29·793	89·8	63·2	26·6	75·0	+ 13·9	66·9	61·0	14·0	25·7	2·9	62	144·7	51·8	63·81	0·000	wP : mP : sP
23	29·872	69·9	55·1	14·8	61·8	+ 0·9	56·8	52·5	9·3	18·5	1·3	72	131·9	49·0	64·12	0·046	wP, mP : sP : wwP
24	29·834	74·1	51·6	22·5	61·5	+ 0·7	55·8	50·9	10·6	23·6	0·0	69	127·6	42·2	64·48	0·000	wwP : sP : mP, wP
25	29·755	69·8	46·2	23·6	57·6	− 3·1	54·2	51·1	6·5	18·4	0·0	79	128·1	34·6	64·40	0·200	wwP : wP, mP : wwP
26	29·661	65·9	54·1	11·8	58·6	− 2·1	56·3	54·2	4·4	11·3	0·0	85	101·0	44·9	64·09	0·130	wwP : vP : mP
27	29·792	64·1	49·2	14·9	56·6	− 4·0	54·8	53·2	3·4	9·9	0·0	88	98·0	39·1	63·78	0·133	wP, wwP : mP : wwP
28	29·740	65·9	54·5	11·4	59·3	− 1·1	56·6	54·2	5·1	10·9	1·1	84	107·0	42·0	63·28	0·005	wwP : mP, wP
29	30·026	67·6	53·0	14·6	59·3	− 1·0	54·2	49·6	9·7	17·5	2·9	70	114·8	40·0	62·91	0·000	wwP : mP : sP, mP
30	29·984	68·9	47·1	21·8	57·5	− 2·6	54·0	50·8	6·7	15·2	0·0	78	123·8	34·1	62·50	0·000	wP, wwP : mP : wP
31	29·674	66·9	52·2	14·7	58·6	− 1·3	53·6	49·2	9·4	16·7	2·2	71	131·2	43·7	62·29	0·063	wwP, mP : sP : mP
Means	29·839	72·7	53·2	19·5	62·2	+ 0·6	57·8	54·1	8·1	16·4	0·8	75·3	125·4	43·7	62·86	1·049	. .
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-Bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13 and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in.839, being 0in.056 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·8 on August 22; the lowest in the month was 46°·2 on August 25; and the range was 43°·6.
The mean of all the highest daily readings in the month was 72°·7, being the same as the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 53°·2, being 0°·2 higher than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 19°·5, being 0°·2 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 62°·2, being 0°·6 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Aug. 1	7·0	15·4	E	E	2·3	0·16	212	2, m, hy.-d : v.-cl,th.-cl,m,d: v.-cl, th.-cl	p.-cl, ci,s, so.-ba : 8, th.-cl : 10, n, slt.-r
2	0·1	15·3	E : ENE	SE : SSW : Calm	4·0	0·19	204	10, slt.-sh :10, sh	10, r : 10 : 10
3	1·4	15·3	Calm	E : SSW : S	0·4	0·00	64	10, hy.-d, m : 10, r	10, oc.-shs,.-t: 7 : 5
4	7·7	15·2	SW : SSW	SSW : S	2·2	0·09	220	0, hy.-d : 8 : 8, th.-cl	7 : 10, th.-cl, slt.-sh
5	0·8	15·2	S : SSE	SSE : SE	1·9	0·10	211	10, m.-r : 10, oc.-slt.-r : 10, oc.-slt.-r	10, oc.-slt.-r : 10, oc.-slt.-r, sh
6	6·6	15·1	SSW : S	WNW : W : S	4·0	0·20	265	3, sh : 0 : 9, oc.-m.-r	8, slt.-sh : p.-cl : 0
7	1·7	15·1	W : WNW	Var. : SSE	1·2	0·09	178	8 : 10, oc.-m.-r : 10	10 : 0
8	2·1	15·0	SSE : S : SSW	SW : SSW	3·0	0·24	288	p.-cl; hy.-d : 10, m.-r : 8	10 : 10
9	4·7	15·0	SSW : WSW : W	W : WNW	3·0	0·25	294	7 : 1 : 10	10 : p.-cl : 1, hy.-d
10	7·0	14·9	WNW : S	Calm : E : SE	0·5	0·02	111	1, hy.-d, slt.-m : 0, slt.-m	9 : v.-cl, th.-cl
11	7·5	14·8	Calm : E : S	SE : Calm	0·7	0·02	112	0, hy.-d : 9, ci,-cu	7 : 10
12	5·9	14·8	Calm : SE : SW	SW : W : NW	1·9	0·10	162	7 : 8	7 : v.-cl : v.-cl, slt.-sh
13	11·5	14·7	NW : W : SW	W : S : Calm	0·7	0·04	139	v.-cl, th.-cl, slt.-m : v.-cl, cu	7 : v.-cl : 0, h, hy.-d
14	12·5	14·7	S : SSE	S : SSW	3·4	0·23	291	0, hy.-d, slt.-m : 0	0 : 1
15	12·0	14·6	SW : NW	SW : W : NW	1·5	0·08	160	v.-cl,hy.-d,slt.-f : p.-cl : p.-cl, cu	2 : 2 : 1
16	9·0	14·6	N : NE	S : SW : NW	1·2	0·07	161	2, d, m : p.-cl : 8, cu	8 : 8 : 10
17	0·5	14·5	SW : SSW	SW : SSW	4·1	0·28	320	10 : 10, oc.-m.-r	10, oc.-slt.-r : 10, oc.-slt.-r : v.-cl
18	10·0	14·4	SSW : SW : WSW	SW : WSW : W	4·7	0·45	427	v.-cl : v.-cl : 9, cu.-n	v.-cl : p.-cl : 1
19	7·5	14·4	SSW : SW	SSW : S	2·1	0·18	285	p,cl : p.-cl, ci, cu	10, n, oc.-m.-r : 10
20	5·7	14·3	S : SSW : SW	SSW : S	2·1	0·22	293	10 : 10	0 : 0, hy.-d
21	9·7	14·3	S : SSW	SSW : S : SSE	2·1	0·15	249	10 : 10 : 3, cu.-n	1, cu : 1
22	12·8	14·2	SSE : S	S : SW	3·1	0·26	333	0, d : 1 : 1, ci	1 : 1
23	3·5	14·1	W : NW : N	N : NE	1·8	0·18	235	v.-cl, th.-cl : v.-cl, th.-cl: 9, th.-cl	9, ci.-s : 9, oc.-slt.-r : 10, oc.-slt.-r
24	10·5	14·1	N : NW : SW	S	1·2	0·05	151	10 : v.-cl, m : 6, cu.-n	7, cu.-n : p.-cl : 0
25	6·1	14·0	S : SSE	S : SE : SSE	1·8	0·15	259	0, d : th.-cl : 8, ci.-s, n	10, oc.-slt.-r : 10, fq,-shs : 9
26	1·2	13·9	S : SSW : SW	SW : W	4·0	0·23	298	10, oc.-slt.-r: 8 : 10, oc.-r	10, oc.-shs : 10, sh : p.-cl
27	0·5	13·9	SSW : S	SSW : S	2·1	0·10	232	v.-cl : 8, th.-cl, m.-r	10, slt.-r : 10, slt.-r, r
28	0·6	13·8	SSW:WSW:WNW	WNW : NW	3·5	0·26	315	10, oc.-slt.-r: : 10, oc.-slt.-r	10, oc.-m.-r : p.-cl : 0
29	7·5	13·8	NW	NW : W	1·8	0·10	221	v.-cl : p.-cl : p.-cl	10, cu.-n : 10 : 8
30	2·7	13·7	NW : W : SSW	S : SSW	3·7	0·17	273	1, d, m : 1 : 9	9 : 9 : 10, m.-r.-sh
31	5·2	13·6	SSW : WSW : W	W : WNW : WSW	4·1	0·38	379	10 : 9, cu.-n	8, cu.-n : 9, r
Means	5·9	14·5	..	..	..	0·16	237		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 57°·8, being 0°·3 *higher* than
The mean *Temperature of the Dew Point* for the month was 54°·1, being 0°·1 *higher* than
The mean *Degree of Humidity* for the month was 75·3, being 1·0 *less* than
The mean *Elastic Force of Vapour* for the month was 0in.419, being 0in.001 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs.6, being *the same* as
The mean *Weight of a Cubic Foot of Air* for the month was 528 grains, being *the same* as
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·0.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·403. The maximum daily amount of *Sunshine* was 12·8 hours on August 22.
The highest reading of the *Solar Radiation Thermometer* was 144°·7 on August 22; and the lowest reading of the *Terrestrial Radiation Thermometer* was 34°·1 on August 30.
The *Proportions of Wind* referred to the cardinal points were N. 2, E. 2, S. 14, W. 8. Five days were calm.
The *Greatest Pressure of the Wind* in the month was 4·7 lbs. on the square foot on August 18. The mean daily *Horizontal Movement of the Air* for the month was 237 miles; the greatest daily value was 427 miles on August 18; and the least daily value was 64 miles on August 3.
Rain (0in.005 or over) fell on 11 days in the month, amounting to 1in.049, as measured by gauge No. 6 partly sunk below the ground; being 1in.295 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Sept. 1	29·533	64·7	47·1	17·6	54·5	− 5·3	48·7	43·1	11·4	21·4	3·2	66	117·2	38·9	62·12	0·000	wwP : mP : mP
2	29·602	65·8	48·1	17·7	55·6	− 4·1	50·1	44·9	10·7	18·7	3·2	67	123·2	39·8	61·93	0·000	wP, wwP : mP : sP, mP
3	29·793	70·6	46·4	24·2	57·1	− 2·5	51·4	46·2	10·9	21·8	1·1	67	124·2	36·1	61·70	0·000	mP, sP : ssP, sP
4	29·723	68·2	51·6	16·6	58·7	− 0·8	55·0	51·7	7·0	15·7	0·8	78	98·3	39·1	61·50	0·018	mP : mP, wP
5	29·717	67·9	57·0	10·9	59·4	− 0·0	58·2	57·2	2·2	8·5	0·0	93	123·5	51·9	61·29	0·510	wwP : wP, mP : v, wwP
6	29·818	72·0	56·9	15·1	61·9	+ 2·7	60·2	58·8	3·1	11·5	0·4	90	128·5	49·0	61·29	0·267	wwP : mP : mP, wwP
7	29·655	72·5	55·9	16·6	61·6	+ 2·6	59·4	57·5	4·1	13·9	0·4	87	115·0	48·1	61·32	0·011	wwP : wP, mP : mP, wwP
8	29·271	66·4	48·9	17·5	57·8	− 1·0	54·3	51·2	6·6	14·8	1·2	79	110·0	40·2	61·39	0·144	wwP : wP, wwP
9	29·341	66·3	46·9	19·4	55·8	− 2·8	51·7	47·8	8·0	18·3	0·2	75	121·9	38·0	61·40	0·243	wwP : mP : wwP
10	29·187	63·4	50·1	13·3	56·3	− 2·1	51·2	46·4	9·9	16·2	4·9	69	120·9	40·9	61·00	0·008	wwP, sP : mP, sP, wwP
11	29·265	64·0	46·5	17·5	54·2	− 3·9	49·3	44·5	9·7	17·3	3·0	70	126·2	37·4	60·70	0·022	wwP : wwP, sP : sP, mP
12	29·361	63·9	49·0	14·9	53·6	− 4·4	49·8	46·1	7·5	17·0	1·2	76	118·4	40·6	60·55	0·026	mP, wwP : sP, mP : wP, wwP
13	29·759	64·8	49·3	15·5	55·0	− 2·8	50·4	46·0	9·0	16·8	2·8	72	110·0	41·2	60·00	0·000	wwP, wP : wP, sP : sP, wwP
14	29·742	63·0	51·8	11·2	57·6	− 0·1	56·1	54·7	2·9	4·8	2·0	90	75·0	43·0	..	0·161	wwP
15	29·739	71·2	51·7	19·5	60·7	+ 3·1	59·1	57·7	3·0	11·0	0·6	90	114·7	40·2	..	0·165	wwP : wwP, wP : wP, wwP
16	29·558	68·8	50·0	18·8	59·6	+ 2·1	58·1	56·8	2·8	8·0	0·0	91	114·0	39·9	..	0·010	wwP : wP, wwP : wwP
17	29·500	71·5	58·8	12·7	63·7	+ 6·5	60·0	56·9	6·8	15·0	0·8	78	125·4	50·6	..	0·041	wwP : wP, mP : sP, mP
18	29·596	70·5	56·1	14·4	61·4	+ 4·5	58·7	56·4	5·0	13·1	0·0	85	120·0	47·3	..	0·241	wP, wwP : wP, mP : mP,wwP
19	29·629	63·0	48·4	14·6	55·6	− 0·9	51·2	47·0	8·6	18·7	0·8	73	117·9	41·2	..	0·339	wwP : mP, sP : sP, mP
20	29·849	63·2	44·8	18·4	52·8	− 3·4	48·1	43·4	9·4	17·2	2·8	71	115·9	38·0	..	0·136	mP : sP : sP, mP
21	29·643	65·2	49·3	15·9	56·5	+ 0·6	52·4	48·6	7·9	15·2	2·1	75	119·6	44·1	..	0·033	wP, wwP : wP, mP : mP, wP
22	29·208	58·4	48·1	10·3	54·9	− 0·7	52·3	49·8	5·1	10·2	2·3	83	78·0	42·1	..	0·694	wP, wwP : wP, mP : mP, wwP
23	29·200	62·5	45·6	16·9	52·4	− 3·0	49·3	46·1	6·3	12·5	2·0	80	107·9	37·6	..	0·073	wwP, wP : wP, mP : sP, mP
24	29·661	63·2	42·2	21·0	51·9	− 3·4	48·9	45·9	6·0	13·7	0·0	80	111·8	34·7	..	0·011	wP, wwP : mP : mP, wP
25	29·757	62·2	46·3	15·9	56·0	+ 0·8	51·5	47·3	8·7	13·7	1·0	73	111·6	36·4	..	0·112	wwP : mP, sP : ssP, mP
26	29·836	62·5	45·2	17·3	54·0	− 1·2	51·0	48·1	5·9	12·2	1·3	80	102·2	37·2	..	0·000	wP : wP, wwP : wP
27	29·759	61·3	46·5	14·8	52·9	− 2·2	48·6	44·3	8·6	15·0	1·6	73	117·0	38·4	..	0·000	wP : wP, mP : sP, mP
28	29·619	58·7	40·9	17·8	51·1	− 3·8	45·7	40·1	11·0	15·1	2·7	66	111·7	29·0	..	0·144	wP : sP, ssP : ssP, sP
29	29·538	50·2	38·2	12·0	44·0	− 10·7	42·6	40·9	3·1	8·1	0·0	89	64·2	29·0	..	0·970	mP : mP, vvN : vv
30	29·617	51·0	40·5	10·5	44·6	− 9·8	42·3	39·6	5·0	10·5	1·8	83	77·8	29·5	..	0·103	v : v, sP : mP
Means	29·583	64·6	48·6	16·0	55·7	− 1·5	52·2	48·8	6·9	14·1	1·5	78·3	110·7	40·0	..	Sum 4·482	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29$^{in.}$·583, being 0$^{in.}$·228 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 72°·5 on September 7 ; the lowest in the month was 38°·2 on September 29 ; and the range was 34°·3.

The mean of all the highest daily readings in the month was 64°·6, being 2°·7 *lower* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 48°·6, being 0°·5 *lower* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 16°·0, being 2°·2 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 55°·7, being 1°·6 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Sept. 1	11·5	13·6	W : WNW	W : WSW	6·7	0·60	461	p.-cl : o : p.-cl, cu	7, w : 2, w : v.-cl
2	7·0	13·5	WSW : W	W : WNW	6·2	0·56	444	3 : p.-cl : v.-cl, oc.-slt.-r	v.-cl, oc.-slt.-r, w : v.-cl, w : o
3	11·2	13·4	WSW : W	W : SW	1·9	0·21	262	o : o : 3	p.-cl : 1 : 1
4	0·4	13·4	Calm : E : SE	S : E : ENE	2·5	0·06	161	10, slt.-sh : 10, oc.-slt.-r	10, oc.-slt.-r : 10, oc.-slt.-r
5	1·7	13·3	ENE : E : ESE	E : ESE	3·2	0·20	239	10, sh : 10, oc.-r	9, r, t : 10, t.-sm : 10
6	4·0	13·2	ESE : Calm	SW : Calm	0·8	0·01	118	10, r, slt.-f : 10, m.	9, r : p.-cl, slt.-sh : o, hy.-d
7	2·8	13·2	SW : S : E	SE : S : SSW	1·9	0·10	182	10, th.-cl, f : 10 : 8	9, sh : 7 : o
8	3·7	13·1	S : SSW	SW : WSW	8·0	0·60	456	o, hy.-d : 10, fq.-r : 10, oc.-shs	v.-cl, oc.-shs, w : v.-cl, shs, w : 1
9	7·7	13·1	SW : WSW	SW : S	7·7	0·53	418	1, hy.-d : 1 : v.-cl, cu.-n	9, sh, w : 10, r : 10, r, m.-r, w
10	10·0	13·0	SW : WSW	WSW : SW	10·2	1·23	591	8, w : 2, w : v.-cl, shs, w	v.-cl, oc.-shs, w : v.-cl, w : 1, l
11	7·5	12·9	SSW : SW : WSW	NW : W : WSW	8·5	0·53	404	2, d : 8, slt.-sh : 7, w	v.-cl, sh : p.-cl, oc.-w : v.-cl
12	4·8	12·9	SW : WSW : W	W : WSW	8·0	0·45	414	v.-cl : 10, oc.-slt.-r : 9, slt.-sh	8, sh, w : v.-cl : 3
13	4·6	12·8	WSW : W	W : SW	4·6	0·29	353	7 : 1 : 8	9 : 9 : 8
14	0·0	12·7	SW : SSW : S	SSW : SW	6·0	0·48	387	9, oc.-m.-r : 10, r : 10, r, w	10, r, w : 10 : 10
15	4·3	12·7	SW	SSW : S	2·2	0·15	219	10, r : 10, oc.-m.-r	7 : 2 : p.-cl, hy.-d
16	1·7	12·6	Calm : SW	SSW : S	2·2	0·20	209	p.-cl : v.-cl, slt.-f : 10	10 : 10, oc.-slt.-r : 10, r
17	9·1	12·5	SE : S : SW	SSW	9·0	0·82	430	10, r, m.-r : p.-cl : v.-cl, w	7, w : v.-cl : v.-cl
18	4·3	12·5	SSW : SW	SSW : SSE	2·5	0·16	221	v.-cl, hy.-d : v.-cl : 9, sh	9, slt.-sh : 10, m.-r, r, slt.-t.-sm
19	7·9	12·4	SW : W : NW	WSW	6·5	0·66	464	10, r : 10, r : v.-cl	v.-cl, shs, w : v.-cl, w : p.-cl, th.-cl
20	8·8	12·3	WSW : W	SW : SSW	4·9	0·45	402	1, d : 1 : 7	7, so.-ha : 9 : 9, oc.-r
21	5·9	12·3	SW	SW : SSW	6·2	0·71	498	v.-cl : 8, r : 7	8, w : 8, w : 9, lu.-ha, w
22	0·1	12·2	SSW : SW	SSW : S	6·2	0·50	368	10, r : 10, r, m.-r : 10, slt.-sh	10, th.-cl : 10, sh : 8, oc.-r
23	6·2	12·1	SSW : SW	SW : W : WNW	3·0	0·31	338	10, oc.-r : 3 : p.-cl	10, sh : o, slt.-h
24	6·1	12·1	WSW : WNW	SW : SSW	3·6	0·29	324	o, hy.-d : o, h : 8	9 : 8 : 10, r
25	8·5	12·0	SW : WSW : WNW	WNW : W : WSW	5·0	0·41	393	10, oc.-r : 6, w	7 : 1
26	2·8	11·9	WSW : SW	SW : WSW	7·6	0·48	414	2, hy.-d : 2 : 9	9, w : 9, oc.-slt.-r : 9
27	9·3	11·9	W : WSW	WSW : SW	4·5	0·29	372	7, hy.-d : 1 : p.-cl	v.-cl : v.-cl : 2
28	9·1	11·8	SW : W : WNW	WNW : W : SW	5·7	0·50	439	10, shs, w : 7, w	7 : 1, ho.-fr : o, ho.-fr
29	0·3	11·8	SW : Calm	SE : E : NE	5·5	0·19	256	1, hy.-d, ho.-fr : 10, so.-ha, r	10, r : 10, r
30	0·7	11·7	N : NNW : NW	NW : NNW : N	5·0	0·59	410	10, r, w, : 10, r : 10, oc.-slt.-r	10, oc.-slt.-r : 10, oc.-slt.-r : o, slt.-ho.-fr
Means	5·4	12·6	..	..	..	0·42	355		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 52°·2, being 1°·9 *lower* than
The mean *Temperature of the Dew Point* for the month was 48°·8, being 2°·4 *lower* than
The mean *Degree of Humidity* for the month was 78·3, being 1·9 less than
The mean *Elastic Force of Vapour* for the month was 0in.345, being 0in.032 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs.9, being 0grs.3 less than
The mean *Weight of a Cubic Foot of Air* for the month was 531 grains, being 2 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by o and an overcast sky by 10) was 6·9.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·428. The maximum daily amount of *Sunshine* was 11·5 hours on September 1.
The highest reading of the *Solar Radiation Thermometer* was 128°·5 on September 6; and the lowest reading of the *Terrestrial Radiation Thermometer* was 29°·0 on September 28 and 29.
The *Proportions of Wind* referred to the cardinal points were N. 1, E. 2, S. 11, W. 14. Two days were calm.
The *Greatest Pressure of the Wind* in the month was 10·2 lbs. on the square foot on September 10. The mean daily *Horizontal Movement of the Air* for the month was 355 miles; the greatest daily value was 591 miles on September 10, and the least daily value was 118 miles on September 6.
Rain (0in.005 or over) fell on 24 days in the month, amounting to 4in.482, as measured by gauge No. 6 partly sunk below the ground; being 2in.334 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Oct. 1	30·000	56·2	33·8	22·4	44·5	− 9·6	41·1	37·2	7·3	13·6	0·6	75	97·0	23·0	..	0·000	wwP : .... : ssP, wwP
2	30·048	55·7	40·1	15·6	48·9	− 4·8	47·1	45·1	3·8	6·2	1·4	87	75·7	29·6	..	0·001	wwP
3	29·908	61·0	48·3	12·7	53·6	+ 0·3	49·7	45·9	7·7	13·3	2·3	75	104·5	38·6	..	0·000	wwP : wwP, mP : mP, sP
4	29·853	58·5	39·1	19·4	50·4	− 2·6	45·9	41·2	9·2	17·1	2·1	71	103·5	27·2	..	0·001	wP : mP, sP : ssP, mP
5	29·885	56·9	37·5	19·4	50·1	− 2·7	47·6	45·0	5·1	7·2	0·9	83	76·0	26·9	..	0·038	wP, wwP
6	29·759	64·2	48·8	15·4	56·4	+ 3·9	51·1	46·2	10·2	18·5	3·3	69	107·5	39·3	..	0·040	wP, wwP : wP, mP : mP, sP
7	29·704	58·3	45·1	13·2	51·0	− 1·3	47·4	43·6	7·4	13·3	2·5	76	98·5	34·9	..	0·112	mP wP : mP, v : sP
8	29·773	56·1	38·9	17·2	46·0	− 6·0	42·7	38·9	7·1	15·4	0·0	77	103·8	28·5	..	0·012	mP : mP : wP
9	29·867	57·3	37·9	19·4	48·5	− 3·1	47·5	46·5	2·0	4·6	0·8	93	61·7	28·2	..	0·111	wP : wwP : wwP
10	29·881	63·5	56·2	7·3	58·8	+ 7·5	57·0	55·4	3·4	8·2	0·0	88	90·8	50·6	..	0·003	wwP
11	29·743	63·1	50·3	12·8	55·9	+ 5·0	54·7	53·6	2·3	6·4	0·6	92	89·0	48·9	..	0·217	wwP
12	29·690	51·6	47·1	4·5	49·5	− 1·1	47·6	45·6	3·9	7·6	1·0	87	63·8	42·9	..	0·012	wwP : wP : wwP
13	29·879	53·8	37·0	16·8	46·7	− 3·6	43·5	39·9	6·8	15·2	0·7	78	86·1	24·7	..	0·000	wwP : wwP, wP : mP, wwP
14	29·741	56·8	34·9	21·9	46·2	− 3·9	44·1	41·7	4·5	11·5	0·3	85	89·3	23·0	..	0·081	wwP : wwP, wP : wwP
15	29·612	54·7	46·0	8·7	50·3	+ 0·4	48·8	47·2	3·1	7·9	0·0	90	67·0	38·0	..	0·098	wwP : wP : wP
16	29·554	52·4	39·5	12·9	47·3	− 2·5	44·9	42·3	5·0	10·4	0·5	84	70·8	28·4	..	0·000	wwP : wwP,— : wP, wwP
17	29·599	54·1	36·3	17·8	46·1	− 3·5	43·8	41·2	4·9	13·0	0·5	84	94·0	28·0	..	0·004	wwP : wP : wP, wwP
18	29·746	50·1	30·8	19·3	40·6	− 8·7	39·6	38·4	2·2	6·0	0·0	92	67·5	25·9	..	0·000	wwP
19	29·858	55·8	39·9	15·9	48·1	− 1·0	46·3	44·3	3·8	7·9	0·4	87	83·6	28·0	..	0·180	wwP, v : wwP, wP : wP
20	29·921	53·5	48·4	5·1	51·7	+ 2·9	50·9	50·1	1·6	4·2	0·0	94	54·4	46·6	..	0·213	wwP
21	29·948	54·2	48·8	5·4	51·5	+ 2·9	50·1	48·7	2·8	5·8	0·6	90	71·0	45·5	..	0·051	wwP
22	29·877	61·0	42·5	18·5	51·1	+ 2·8	49·5	47·9	3·2	9·7	0·2	89	99·6	30·1	..	0·037	wwP : wwP, wP : wP
23	29·971	58·0	39·0	19·0	47·9	− 0·2	46·2	44·3	3·6	11·0	0·0	88	83·7	26·8	..	0·000	wwP : wP, wwP : wwP
24	29·915	53·0	38·4	14·6	46·7	− 1·2	44·8	42·6	4·1	9·1	0·7	87	81·0	28·2	..	0·000	wwP : wwP, wP : wwP
25	29·730	51·2	37·4	13·8	45·7	− 2·0	44·1	42·3	3·4	6·1	0·5	88	61·9	28·4	..	0·013	wwP : wwP : wP
26	29·795	51·6	36·0	15·6	44·8	− 2·8	42·4	39·6	5·2	13·9	0·0	82	83·6	26·4	..	0·000	wP : wP : wP, wwP
27	29·906	59·5	40·8	18·7	51·2	+ 3·7	49·6	48·0	3·2	7·6	0·0	89	85·0	35·0	..	0·023	wwP
28	30·066	57·8	50·2	7·6	53·7	+ 6·3	52·1	50·5	3·2	6·2	1·2	89	85·3	46·4	..	0·000	wwP
29	30·150	57·9	49·9	8·0	53·4	+ 6·1	51·3	49·2	4·2	7·9	1·0	86	69·5	40·1	..	0·000	wwP : wwP : wP, wwP
30	29·894	60·6	46·0	14·6	51·1	+ 3·9	48·8	46·4	4·7	15·3	0·6	84	108·0	33·0	..	0·010	wwP : wP, wwP
31	29·645	58·7	50·3	8·4	53·6	+ 6·5	52·1	50·6	3·0	6·9	0·0	89	88·5	43·1	..	0·076	wwP : wwP, wP : wwP
Means	29·836	56·7	42·4	14·3	49·7	− 0·3	47·5	45·1	4·6	9·9	0·7	84·8	83·9	33·7	..	Sum 1·333	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8), and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was $29^{in.}·836$, being $0^{in.}·115$ *higher* than the average for the 65 years 1841–1905.

Temperature of the Air.

The highest in the month was 64°·2 on October 6 ; the lowest in the month was 30°·8 on October 18; and the range was 33°·4.
The mean of all the highest daily readings in the month was 56°·7, being 0°·8 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 42°·4, being 0°·8 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 14°·3, being *equal* to the average for the 65 years, 1841–1905.
The mean for the month was 49°·7, being 0°·3 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Oct. 1	8·9	11·6	Calm : W : NW	WNW : W	2·5	0·15	258	0, ho.-fr : 0, h, ho.-fr : 0, h	7, h : v.-cl, h : 1, h
2	0·1	11·6	WSW	SW	2·5	0·18	283	p.-cl : 7 : 10, fq.-slt.-r	10, n, oc.-m.-r : 10, oc.-m.-r : 9
3	4·7	11·5	SW	SW : SSW	6·0	0·36	357	10 : 10 : 8	7 : 9 : 0
4	8·0	11·4	SSW : WSW : NW	NW : W : SW	3·2	0·29	315	0 : 9, slt.-sh : p.-cl, cu	7, cu.-n : 3 : 0, h, slt.-f
5	0·0	11·4	SW : SSW	SW	8·6	0·60	465	3 : 10, oc.-m.-r : 10, ci.-s, n, oc.-m.-r	10, ci.-s, fq.-r, w : 10, oc.-r, m.-r, w : 10, n, w
6	6·0	11·3	SW : WSW	WSW : SW	7·7	0·99	580	10, oc.-m.-r, w : 10, w : 10, r, so.-ha, w	7, cu, w : 1 : 0
7	3·2	11·2	SSW : SW	W : WSW	8·2	0·58	453	0 : 8, w : 10, fq.-r, -m.-r, w	p.-cl, cu.-n : 0 : 0
8	6·3	11·2	WSW	W : WSW	3·5	0·22	303	1, hy.-d : 1 : v.-cl, cu, n, ci.-s, slt.-sh	v.-cl, n, cu.-n, cu, ci : v.-cl, sh : 0
9	0·0	11·1	SW : S : SSW	SSW	5·2	0·40	365	0 : 10 : 10, n, r	10, r : 10, m.-r
10	0·6	11·0	SSW : SW	SW : SSW	3·5	0·37	343	10, slt.-sh : 10	10, n, oc.-m.-r : 10, oc.-m.-r : 10, slt.-sh
11	0·4	11·0	SSW : S	SW : N	1·0	0·06	179	10 : 10, r : 9, cu.-n	10, oc.-m.-r, glm : 10, r : 10, r
12	0·0	10·9	N	N : NNW : NNE	3·0	0·25	284	10, r, m.-r : 10, s, n	10, r, m.-r : 10, m.-r : 9
13	6·7	10·8	N : NNW	NNW : SSW : Calm	1·5	0·11	229	8 : 8 : 2, th.-cl, cu	3, cu.-n : 7, ho.-fr, m : v.-cl, m
14	0·1	10·8	Calm : S : SSW	SSW : S : Calm	2·2	0·10	207	0, hy.-d, ho.-fr : 6, th.-cl : 9, slt.-r	10, oc.-m.-r : 10, oc.-m.-r : 10, r
15	0·0	10·7	Calm : W : N	N : NNE	1·5	0·10	173	10, r : 10, n, cu	10, n, cu.-n : 10 : v.-cl
16	0·0	10·7	N : NNW : W	NNW : NW : WNW	2·6	0·21	247	v.-cl, m, f, hy.-d : : 10, s, cu, n, slt.-sh	10, cu, n : 10 : 10, oc.-m.-r
17	3·1	10·6	Calm : N : NE	NE : N : Calm	0·8	0·02	118	10 : 10, m.-r.-sh : 8, cu.-s	8, cu.-n, ci, s : 2, f, ho.-fr : f, ho.-fr
18	0·5	10·5	Calm	Calm : E : NE	0·7	0·01	118	f, ho.-fr : 2, ho.-fr, f : f	5, cu.-n, ci : p.-cl, m : v.-cl, th.-cl, slt.-f
19	2·5	10·4	Calm : NNE	NNE : N	1·2	0·12	190	9, r : 10, r : 10	8 : v.-cl : 10, sh
20	0·0	10·4	N : NNE	N : NNE : NE	4·0	0·45	405	10, oc.-r, -m.-r : 10, n, fq.-r	10, r, m.-r : 10, fq.-r : 10, n, oc.-m-r
21	0·0	10·3	NE : NNE	NE : E : Calm	3·5	0·21	280	10, oc.-slt.-r : 10 : 10, n, oc.-m.-r	10, oc.-r : 10, n, slt.-r
22	4·3	10·3	Calm : S	S : Calm	1·2	0·04	138	10, oc.-m.-r : 10, r : 7, cu, ci.-cu	7, ci, ci.-cu : 1 : v.-cl, th.-cl, hy.-d
23	4·5	10·2	Calm : NE	E : NE	2·0	0·07	176	7, f : f : f	3 : 10, oc.-m.-r : 10, m.-r
24	4·0	10·1	NE : NNE	N : NNE : Calm	1·6	0·08	177	8 : 8, m : 6	v.-cl, th.-cl, ci.-s, cu : 3 : 9, slt.-f, ho.-fr
25	0·0	10·1	Calm : W	W : N	1·0	0·04	182	th.-cl, slt.-f : 9, oc.-m.-r	10, n, r : 9, slt.-f : 10
26	6·3	10·0	N : NE : Calm	E : Calm : S	0·4	0·01	126	10 : 10, slt.-f : 1, slt.-f	1 : 1, slt.-f, ho.-fr : p.-cl, ho.-fr
27	0·1	10·0	S : SW	WSW : SW	0·7	0·05	188	10, slt.-r : 10, m.-r : 10, n	10, n, s : 10
28	0·5	9·9	SW : Calm	SW	1·2	0·06	177	10 : 10	10 : 10, oc.-m.-r : 10, m.-r
29	0·3	9·8	SW : W	SW : S : SE	0·5	0·02	127	10 : 10, n	10 : 10 : 8
30	6·3	9·8	SSE : SE	SSE : S	3·0	0·19	243	v.-cl, th.-cl, hy.-d : 2 : 2, ci, ci.-cu	8, ci, ci.-cu, n : 3 : 10, r
31	0·2	9·7	SSW : SW	SSW : S	1·0	0·07	204	10, oc.-m.-r : 10, n, cu, slt.-sh	10, n, oc.-slt.-r : 10, m.-r : 10, r
Means	2·5	10·7	..	..	..	0·21	255		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 47°·5, being 0°·4 *lower* than
The mean *Temperature of the Dew Point* for the month was 45°·1, being 0°·6 *lower* than
The mean *Degree of Humidity* for the month was 84·8, being 0·2 *less* than
The mean *Elastic Force of Vapour* for the month was $0^{in.}·301$, being $0^{in.}·006$ *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was $3^{grs.}·5$, being *the same* as
The mean *Weight of a Cubic Foot of Air* for the month was 542 grains, being 2 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·2.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·235. The maximum daily amount of *Sunshine* was 8·9 hours on October 1.

The highest reading of the *Solar Radiation Thermometer* was 108°·0 on October 30; and the lowest reading of the *Terrestrial Radiation Thermometer* was 23°·0 on October 1 and 14.

The *Proportions of Wind* referred to the cardinal points were N. 7, E. 2, S. 9, W. 8. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 8·6 lbs. on the square foot on October 5. The mean daily *Horizontal Movement of the Air* for the month was 255 miles; the greatest daily value was 580 miles on October 6; and the least daily value was 118 miles on October 17, 18.

Rain ($0^{in.}·005$ or over) fell on 17 days in the month, amounting to $1^{in.}·333$, as measured by gauge No. 6 partly sunk below the ground; being $1^{in.}·449$ *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°		in.	
Nov. 1	29·499	57·4	50·1	7·3	53·9	+ 6·9	52·0	50·1	3·8	7·6	0·4	87	73·0	42·2	..	0·001	wwP
2	29·299	58·5	46·2	12·3	52·9	+ 6·1	50·2	47·5	5·4	11·1	0·6	82	68·3	37·0	..	0·110	wwP : wP, wwP
3	29·429	46·2	37·7	8·5	44·1	− 2·5	43·3	42·3	1·8	3·6	0·7	94	47·8	29·3	..	0·528	wwP
4	29·467	54·5	35·7	18·8	46·0	− 0·4	44·5	42·8	3·2	10·0	0·2	90	84·9	26·8	..	0·288	wwP
5	29·554	55·1	44·6	10·5	50·9	+ 4·8	48·4	45·8	5·1	10·3	0·8	83	91·1	37·3	..	0·140	wwP
6	29·985	47·1	41·1	6·0	44·1	− 1·7	42·0	39·5	4·6	8·7	0·7	83	57·9	34·6	..	0·000	wwP
7	30·013	50·5	36·2	14·3	41·1	− 4·3	39·6	37·7	3·4	10·6	0·0	88	63·7	26·1	..	0·000	wwP
8	29·773	49·6	35·6	14·0	45·5	+ 0·5	42·8	39·7	5·8	10·1	2·6	81	66·1	24·7	..	0·135	wwP
9	30·250	51·8	29·8	22·0	41·2	− 3·4	38·0	34·0	7·2	12·9	2·1	76	83·7	19·4	..	0·000	wwP : wP, wwP
10	30·264	54·0	38·7	15·3	47·3	+ 3·0	44·8	42·1	5·2	9·5	1·1	83	73·6	28·5	..	0·002*	wwP
11	30·133	54·4	44·9	9·5	49·4	+ 5·4	47·7	45·9	3·5	7·0	0·9	89	65·2	43·5	..	0·170	wwP : ..
12	30·299	49·5	34·7	14·8	42·3	− 1·4	40·2	37·6	4·7	8·9	0·5	84	76·0	24·2	..	0·000	..
13	30·349	49·2	31·3	17·9	39·6	− 3·9	38·1	36·1	3·5	8·0	0·8	88	76·2	21·8	..	0·000	..
14	30·228	49·8	29·6	20·2	37·8	− 5·5	36·5	34·8	3·0	9·6	0·0	89	80·2	20·2	..	0·000	wwP : . . : mP, wP
15	30·150	48·9	34·7	14·2	40·8	− 2·3	38·8	36·3	4·5	10·6	0·7	85	77·0	23·3	..	0·002*	wP : wwP, wP : wP
16	30·084	43·8	33·0	10·8	38·1	− 4·7	35·8	32·7	5·4	7·7	0·6	81	73·5	24·6	..	0·002*	wP
17	29·990	41·0	35·4	5·6	38·3	− 4·3	35·9	32·7	5·6	8·5	4·0	80	61·0	28·0	..	0·000	wP
18	30·085	43·5	35·9	7·6	39·9	− 2·5	37·7	34·8	5·1	7·3	3·5	86	49·9	29·4	..	0·000	wP
19	30·206	42·1	34·8	7·3	38·7	− 3·6	37·7	36·4	2·3	4·2	0·2	92	48·5	25·0	..	0·000	wP
20	30·207	38·8	31·1	7·7	35·7	− 6·5	35·7	35·7	0·0	1·0	0·0	100	49·6	29·9	..	0·002*	wP
21	30·050	45·9	31·6	14·3	37·0	− 5·1	36·0	34·6	2·4	9·5	0·0	91	67·3	19·5	..	0·004*	wwP : wP : wP
22	29·750	46·1	29·4	16·7	36·9	− 5·2	35·9	34·6	2·3	8·3	0·0	92	74·1	17·4	..	0·003*	wP
23	29·756	52·0	36·7	15·3	42·6	+ 0·6	41·5	40·2	2·4	8·5	0·0	91	77·7	21·1	..	0·006*	wP, wwP
24	29·672	52·7	44·1	8·6	47·2	+ 5·2	46·5	45·7	1·5	4·1	0·4	95	61·8	38·9	..	0·004	wwP
25	29·585	48·9	39·5	9·4	45·9	+ 4·0	44·9	43·8	2·1	4·5	0·0	93	53·1	35·1	..	0·168	wwP
26	29·614	47·9	32·0	15·9	41·5	− 0·3	41·0	40·5	1·0	2·4	0·0	96	53·3	23·8	..	0·092	wwP
27	29·634	50·2	39·2	11·0	43·8	+ 2·1	42·7	41·5	2·3	4·7	0·7	91	67·2	29·0	..	0·000	wwP
28	29·733	51·6	39·1	12·5	47·0	+ 5·5	46·2	45·3	1·7	2·7	0·6	94	52·5	31·5	..	0·283	wwP
29	29·793	51·8	45·2	6·6	48·9	+ 7·7	48·1	47·2	1·7	4·2	0·0	94	50·9	39·8	..	0·045	..
30	29·985	46·0	33·0	13·0	41·6	+ 0·6	40·7	39·6	2·0	6·4	0·0	93	72·1	22·3	..	0·002	..
Means	29·895	49·3	37·0	12·3	43·3	− 0·2	41·8	39·9	3·4	7·4	0·7	88·4	66·6	28·5	..	1·987	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8 and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13 and 14 are derived from eye-readings of self-registering thermometers.

* Rainfall (Column 16). The amounts entered on November 10, 15, 16, 20, 21, 22 and 23 are derived from dew, fog and frost.

The mean reading of the *Barometer* for the month was 29in.·895, being 0in.·137 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·5 on November 2; the lowest in the month was 29°·4 on November 22; and the range was 29°·1.
The mean of all the highest daily readings in the month was 49°·3, being 0°·3 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 37·0°, being 0°·9 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 12°·3, being 1°·2 greater than the average for the 65 years, 1841–1905.
The mean for the month was 43°·3, being 0°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles		
Nov. 1	0·1	9·6	S : SE	ESE : SE : SSE	2·3	0·15	225	10, m.-r.-sh : 10,n :	10, slt.-sh : 9 : 10
2	0·1	9·6	SSE : S : SSW	SW : Calm	7·8	0·68	405	10, fq.-r,-m.-r : 10, oc.-r,w: 10, n	10, th. cl, slt.-sh : 3 : 10
3	0·0	9·5	Calm : N	N : NNW : W	4·0	0·20	253	10, slt.-r : 10, r	10, r : v.-cl : 0, m, hy.-d
4	2·9	9·5	SW : S : SSW	SSW : SW	10·2	0·80	480	0, ho.-fr : p.-cl : 8, cu.-n	10, r : 10, r, w : 10, r, w
5	3·3	9·4	SW : WSW	SW	10·5	0·64	412	10, r, w : 6 : 6, cu.-ci	9 : p.-cl : th.-cl
6	0·0	9·3	Calm : N : NE	NNE : N	1·1	0·07	179	th.-cl : 10 : 10, th.-cl,so.-ha	10, n : v.-cl : 10
7	3·1	9·3	N : Var.	Calm E : SSE	1·2	0·03	139	8, ho.-fr : p.-cl, ho.-fr : 0, f	0, f : 0, m : 7, hy.-d, m
8	1·7	9·2	SSE : SSW : W	W : Calm	5·6	0·27	319	8 : 10, r : 10, r	3 : 0 : 0, h
9	7·8	9·2	Calm : SW	WSW : SW	3·9	0·11	292	0, ho.-fr : : 0, ho.-fr	1, ci : 0
10	2·6	9·1	SW	SW	4·8	0·35	382	0, ho.-fr : p.cl, ho.-fr : 1, ci	10 : 10
11	0·0	9·1	SW : WSW	WSW : NE	3·9	0·27	315	10 : 9, r : 10,cu.-n,oc.-m.-r	10, r : 10, r, glm : 10
12	4·8	9·0	Calm : ENE	E	1·6	0·07	176	5, ho.-fr : 2 : 1, ci, cu	p.-cl, n, ci : 7 : v.-cl
13	1·7	9·0	E : Calm	ESE : Calm	0·3	0·00	87	0, ho.-fr : 10, slt.-r : 7, cu.-n, m	8, n, cu.-n : 9 : 0
14	4·2	8·9	Calm : ESE	SE : Calm : E	1·0	0·03	124	0, hy.-d, ho.-fr : tk.-f, ho.-fr : 0, f	p.-cl, cu.-n, cu : 0 : 0, slt.-f
15	6·9	8·9	Calm : ESE	ESE : E	2·9	0·23	207	1, hy.-d. ho.-fr, slt.-f : 1	1 : v.-cl : 0
16	5·5	8·8	E : ESE	E	3·0	0·26	243	0, ho.-fr : 6 : p.-cl, cu	p.-cl, cu.-n : 9 : 10
17	0·1	8·8	ENE : NE	ENE : NE	1·6	0·21	244	10 : 10, n	10, n : 10
18	0·0	8·7	NE : N	N : NNW : NW	1·3	0·15	183	10 : 10, m	10, n : 10, n
19	0·0	8·7	NW : W : N	N : NE : SSE	1·0	0·07	120	9, ho.-fr : 10, m : p.-cl.-th.-cl	p.-cl, th.-cl : 10, f : 10, f
20	0·0	8·6	SW : S : E	ESE : Calm	0·4	0·00	65	f : f	f : f
21	5·6	8·6	Calm : ESE	ESE : SE	1·7	0·06	138	f : 0, f	0 : 0, ho.-fr : 1, ho.-fr
22	6·6	8·5	Calm : SE	SE : Calm	1·1	0·06	165	1, slt.-f, ho.-fr : 1 : 1	0, ho.-fr : 0, ho.-fr, hy.-d
23	6·2	8·5	SSE : S	SSW : Calm : S	0·9	0·05	183	0, hy.-d, ho.-fr : 0 : 1, ci.-cu	1, ci, cu : 1, f : 10
24	0·1	8·4	Calm : SSW	S : Calm	0·8	0·01	159	10, slt.-sh : 10, n, sh, m.-r	10, oc.-m.-r : 10, oc.-m.-r : 10
25	0·0	8·4	Calm : SW : W	NW : WNW : Calm	1·5	0·10	219	10, oc.-m.-r : 10, n, slt.-sh	10, oc.-r : 10, m.-r, r : 10
26	0·0	8·3	Calm : SE	S : W : NW	1·1	0·03	145	0, ho.-fr : 9, f : 10, f	10, slt.-r : 10, r : 10, r
27	1·9	8·3	NW : W	W : WSW	1·5	0·12	269	8 : 7 : 10, s	v.-cl, cu, s : 0, ho.-fr : 0, hy.-d
28	0·0	8·2	WSW : SW	WSW : W	1·8	0·15	319	p.-cl : 10, r : 10, r	10, r : 10, r
29	0·0	8·2	WNW : E : Calm	W : N	0·7	0·02	145	10, slt.-r, m : 10, m.-r, m	10, m.-r : 10, m.-r : 10
30	4·2	8·2	N : E : SE	SE : Calm	0·4	0·02	144	10, slt.-sh : 10 : v.-cl	v.-cl, th.-cl : 0 : 0, ho.-f
Means	2·3	8·9	..	..	..	0·17	225		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 41°·8, being 0°·1 *lower* than
The mean *Temperature of the Dew Point* for the month was 39°·9, being 0°·1 *lower* than
The mean *Degree of Humidity* for the month was 88·4, being 1·1 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in.246, being 0in.001 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs.8, being the same as
The mean *Weight of a Cubic Foot of Air* for the month was 551 grains, being 3 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·3.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·261. The maximum daily amount of *Sunshine* was 7·8 hours on November 9.
The highest reading of the *Solar Radiation Thermometer* was 91°·1 on November 5; and the lowest reading of the *Terrestrial Radiation Thermometer* was 17°·4 on November 22.
The *Proportions of Wind* referred to the cardinal points were N. 5, E. 5, S. 8, W. 6. Six days were calm.
The *Greatest Pressure of the Wind* in the month was 10·5 lbs. on the square foot on November 5. The mean daily *Horizontal Movement of the Air* for the month was 225 miles; the greatest daily value was 480 miles on November 4; and the least daily value was 65 miles on November 20.
Rain (0in.005 or over) fell on 11 days in the month, amounting to 1in.·987, as measured by gauge No. 6 partly sunk below the ground; being 0in.233 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 3 ft. 2 ins. below the Surface of the Soil.		
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Dec. 1	30·022	50·5	35·9	14·6	45·1	+ 4·2	44·3	43·4	1·7	4·4	0·2	94	56·9	28·9	..	0·078	..
2	29·922	54·4	50·5	3·9	52·0	+ 11·1	50·6	49·2	2·8	5·8	0·0	90	62·5	45·8	..	0·100	..
3	29·716	59·5	48·1	11·4	53·6	+ 12·5	52·2	50·8	2·8	6·8	0·0	90	73·1	37·2	..	0·046	..
4	29·882	55·4	50·7	4·7	52·7	+ 11·4	51·6	50·5	2·2	5·6	0·4	93	59·0	45·5	..	0·054	..
5	29·854	52·9	50·2	2·7	51·5	+ 10·0	50·3	49·1	2·4	4·3	1·0	92	58·7	47·4	..	0·001	..
6	29·617	51·1	47·5	3·6	49·3	+ 7·8	48·6	47·9	1·4	2·5	0·2	95	53·0	47·5	..	0·008	..
7	29·644	54·5	40·7	10·8	46·7	+ 5·4	45·8	44·8	1·9	6·0	0·0	94	67·5	30·4	..	0·058	..
8	29·668	50·1	40·0	10·1	46·8	+ 5·8	46·2	45·5	1·3	2·5	0·2	96	55·2	30·4	..	0·034	..
9	29·853	50·0	39·2	10·8	46·4	+ 5·8	45·1	43·7	2·7	5·6	0·0	91	59·7	30·6	..	0·090	..
10	29·745	51·3	41·0	10·3	47·3	+ 6·9	46·3	45·2	2·1	4·3	0·4	93	68·5	34·8	..	0·251	..
11	29·738	51·1	40·3	10·8	46·8	+ 6·6	45·8	44·7	2·1	3·4	0·4	93	60·9	34·4	..	0·110	..
12	29·780	56·9	45·9	11·0	51·7	+ 11·4	50·2	48·7	3·0	5·4	1·0	90	62·5	41·8	..	0·082	..
13	29·914	58·2	52·0	6·2	55·8	+ 15·3	53·7	51·7	4·1	5·6	2·6	87	64·6	46·9	..	0·000	..
14	30·079	55·5	47·6	7·9	52·4	+ 11·7	51·5	50·6	1·8	4·3	0·2	94	57·0	43·0	..	0·134	..
15	30·008	53·2	47·6	5·6	51·0	+ 10·2	49·9	48·8	2·2	4·9	0·6	92	58·0	43·9	..	0·160	..
16	29·787	51·0	41·9	9·1	46·8	+ 6·1	44·4	41·7	5·1	8·1	2·4	83	59·1	35·1	..	0·033	..
17	29·820	43·9	34·3	9·6	41·4	+ 1·0	39·3	36·7	4·7	8·3	0·5	84	57·0	28·0	..	0·000	..
18	29·286	48·5	40·6	7·9	44·7	+ 4·7	42·9	40·8	3·9	6·5	0·6	87	54·9	35·0	..	0·123	..
19	29·064	45·0	37·4	7·6	41·4	+ 1·9	38·5	34·8	6·6	10·5	3·5	79	60·1	32·0	..	0·006	..
20	29·454	41·1	34·8	6·3	38·9	− 0·1	37·2	34·9	4·0	5·0	1·0	87	48·0	28·2	..	0·112	..
21	29·776	41·1	34·2	6·9	38·3	− 0·4	36·5	34·1	4·2	6·2	1·0	85	48·5	28·3	..	0·000	: . . :
22	29·447	53·8	39·0	14·8	43·7	+ 5·3	42·4	40·8	2·9	7·1	0·2	90	51·1	36·8	..	0·098	..
23	29·253	48·0	35·2	12·8	43·3	+ 5·1	40·2	36·5	6·8	15·0	2·1	77	51·2	26·9	..	0·102	. . : . . : sP, mP
24	29·516	39·7	32·1	7·6	35·9	− 2·3	34·2	31·6	4·3	6·0	2·4	85	43·9	23·9	..	0·000	mP : mP, sP : wP
25	29·705	39·6	29·4	10·2	34·9	− 3·5	33·4	31·0	3·9	7·4	0·8	85	50·6	21·8	..	0·000	wP, wwP : wwP, wP : wP
26	30·014	38·8	28·5	10·3	34·4	− 4·2	32·9	30·4	4·0	7·7	0·0	85	54·0	20·5	..	0·000	wwP : wwP, sP : mP
27	29·701	52·0	43·1	8·9	47·1	+ 8·3	45·4	43·5	3·6	7·8	0·0	88	56·5	36·0	..	0·105	wwP
28	29·498	53·5	45·4	8·1	50·7	+ 11·8	48·7	46·6	4·1	6·3	0·6	87	55·6	40·5	..	0·139	wwP
29	29·396	55·0	44·2	10·8	51·9	+ 12·9	49·3	46·7	5·2	10·4	0·2	83	59·1	36·4	..	0·001	wwP : wwP : wP, wwP
30	29·296	48·1	41·6	6·5	44·3	+ 5·4	41·9	39·1	5·2	8·7	2·6	82	59·8	32·8	..	0·000	wwP : wwP, wP : wP, wwP
31	29·473	42·9	35·3	7·6	40·9	+ 2·2	39·7	38·2	2·7	4·1	1·1	90	45·2	27·7	..	0·085	wwP
Means	29·675	49·8	41·1	8·7	46·1	+ 6·1	44·5	42·6	3·4	6·3	0·8	88·4	57·2	34·8	..	Sum 2·010	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The results apply to the civil day.

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the photographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Glaisher's Hygrometrical Tables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

The values given in Columns 2, 3, 4, 13, and 14 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was $29^{in.}675$, being $0^{in.}110$ *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 59°·5 on December 3; the lowest in the month was 28°·5 on December 26; and the range was 31°·0.
The mean of all the highest daily readings in the month was 49°·8, being 5°·6 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 41°·1, being 6°·1 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 8°·7, being 0°·5 *less* than the average for the 65 years 1841–1905.
The mean for the month was 46°·1, being 6°·2 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1918.	Daily Duration of Sunshine.	Sun above Horizon.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Dec. 1	0·0	8·1	Calm : S : SSW	SSW : SW	2·6	0·15	272	10 : 10, n, fq.-r	10, r : 10 : 8
2	0·0	8·1	SW : SSW	SSW : SW	3·3	0·25	320	10, oc.-m.-r : 10	10 : 10, m.-r : 10, r
3	0·8	8·1	SW : WSW	W : SW	4·5	0·50	416	10, oc.-m.-r, w : 10, oc.-m.-r, w : 10, n	9, n : v.-cl : 10
4	0·0	8·0	SW : WSW	WSW : SW : SSW	4·5	0·20	283	10, oc.-m.-r : 10, s	10 : 10 : 10, slt.-r
5	0·0	8·0	SSW : SW	SSW : SW	2·6	0·20	300	10, m.-r.-sh : 10, m.-r	10, m.-r : 10 : 10
6	0·0	8·0	S : SSE	S : SSW	2·3	0·15	236	10, slt.-r : 10 : 10, m.-r	10, slt.-r : 10 : 10, m.-r.-sh
7	5·3	8·0	SW : W : WSW	SW : Calm	1·2	0·04	212	10, oc.-slt.-r : 0, hy.-d : 0	1 : 1 : 1, th.-cl, ho.-fr
8	0·0	7·9	Calm : S	S : Calm	1·0	0·06	193	0, hy.-d : 10 : 10, r, m.-r	10, m.-r : 10, m.-r : 10, slt.-sh
9	1·7	7·9	WNW : W : WSW	SW : SSW	2·6	0·13	274	10, th.-cl.-m : 1, m : p.-cl	v.-cl, cu.-n, s : 10, oc.-slt.-r : 10, oc.-slt.-r
10	0·8	7·9	SSW : SW	SW : WSW : W	5·2	0·37	362	10, m.-r : 10, r : 7, oc.-r	v.-cl, r : v.-cl, fq.-r : v.-cl
11	0·6	7·9	SW : S : SW	W : WSW	1·5	0·15	270	10, m.-r, r : 9, cu.-n, ci	10, cu.-n, r, oc.-m.-r : 10, p.-lu.-ha
12	0·1	7·8	WSW : SW	WSW : W	6·2	0·58	455	10, oc.-r : 10, n, oc.-slt.-r	10, n : 10, th.-cl : 8
13	0·0	7·8	WSW : W	W : WSW : SW	6·0	0·69	550	10, oc.-m.-r : 10	8 : 8 : 10
14	0·0	7·8	SW : WSW	WNW : W : Calm	3·6	0·20	267	10 : 10 : 10, r, m.-r	10, r : 10 : 10, m
15	0·0	7·8	Calm : SW	SW : SSW	3·2	0·27	343	10, oc.-slt.-r : 10, r	10, oc.-m.-r : 10, oc.-m.-r, -r
16	3·1	7·8	SW : NW : W	W : WSW	4·8	0·55	481	10, oc.-m.-r : 10, oc.-m.-r : v.-cl, r	3, cu : 1 : 3, cu, s, lu.-ha
17	1·6	7·8	WSW : W : NW	NW : W : SW	2·8	0·28	330	1, slt.-m : 1	2, cu : 2, lu.-ha : 9, m
18	0·0	7·8	SSW : SW : WSW	SW : W : WNW	11·0	0·61	507	10, oc.-r : 8, w : 8, s, ci.-cu	10, s, n, oc.-r : 8, cu.-n, w
19	4·8	7·8	WSW : W	WSW : W : WNW	10·9	0·85	604	: p.-cl	v.-cl, ci, cu, sh : 8, w : 10, slt,-sl, w
20	0·4	7·8	NNW : WNW : W	N : NNW : NW	7·5	0·45	404	10, oc.-r, w : 2, ho.-fr : 10, r, oc.-m.-r	v.-cl : v.-cl : 10
21	0·1	7·8	NW : W : WSW	SW : Calm	1·2	0·04	189	10, slt.-sh : 1' slt.-ho.-fr : 7, ci.-s, so.-ha	10, s, so.-ha : 10 : 10, slt.-sh
22	0·0	7·8	Calm : SE	S : SW : WSW	8·5	0·32	353	10 : 10, r, m.-r	10, r : 10, th.-cl, w : v.-cl, w
23	0·4	7·8	WSW : W	NNW : NW : W	11·6	1·03	654	8, w : 10, sh,-w : 9, n, oc.-r, w	10, cu.-n, w : 0 : 0
24	0·0	7·7	WSW	W : WNW	2·0	0·12	255	0, ho.-fr : p.-cl : 10, th.-cl.-s	p.-cl, h : v.-cl : 0, h
25	0·9	7·8	W : WSW	WNW : NW : N	4·0	0·26	339	0, ho.-fr : 1, th.-cl, ho.-fr : 8, n	10, cu.-n : 10 : 1, ci
26	5·0	7·8	N : WSW	SW : SSW	3·3	0·08	248	0, ho.-fr : : 0, ho.-fr	1, ho.-fr : 1, ho.-fr : 10
27	0·0	7·8	SSW : SW : WSW	WSW : W : WNW	7·5	0·60	482	10, oc.-m.-r : : 10, m.-r	10, n : 10
28	0·0	7·8	SW : WSW : W	W : WSW	5·9	0·60	528	10 : 10, r, oc.-m.-r	10 : 10, m.-r.-sh, r
29	0·0	7·8	WSW : W	WSW : W	8·9	0·98	674	10, w : 10, r, oc.-m.-r, w	10, n, w : 0, w
30	0·2	7·8	WSW : SW	SW : SSW	3·0	0·34	355	1 : 10 : 10, th.-cl, p.-so.-ha	10 : 0 : 10
31	0·0	7·8	SW : Calm : N	N : NNE	7·2	0·53	361	10 : 10, oc.-r : 10, n, oc.-m.-r, w	10 : v.-cl : 0
Means	0·8	7·9	..	..	..	0·37	372		
Number of Column for Reference	18	19	20	21	22	23	24	25	26

The mean *Temperature of Evaporation* for the month was 44°·5, being 6°·0 *higher* than
The mean *Temperature of the Dew Point* for the month was 42°·6, being 5°·9 *higher* than
The mean *Degree of Humidity* for the month was 88·4, being 0·2 *less* than
The mean *Elastic Force of Vapour* for the month was 0in.·273, being 0in.·055 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs.·2, being 0grs.·6 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 543 grains, being 9 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·7.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·106. The maximum daily amount of *Sunshine* was 5·3 hours on December 7.

The highest reading of the *Solar Radiation Thermometer* was 73°·1 on December 3; and the lowest reading of the *Terrestrial Radiation Thermometer* was 20°·5 on December 26.

The *Proportions of Wind* referred to the cardinal points were N. 2, E. 0, S. 11, W. 17. One day were calm.

The *Greatest Pressure of the Wind* in the month was 11·6 lbs. on the square foot on December 23; The mean daily *Horizontal Movement of the Air* for the month was 372 miles; the greatest daily value was 674 miles on December 29; and the least daily value was 189 miles on December 21.

Rain (0in.·005 or over) fell on 22 days in the month, amounting to 2in.·010, as measured by gauge No. 6 partly sunk below the ground; being 0in.·183 *greater* than the average fall for the 65 years, 1841–1905.

HIGHEST and LOWEST READINGS of the BAROMETER, reduced to 32° FAHRENHEIT, as extracted from the PHOTOGRAPHIC RECORDS.

MAXIMA.		MINIMA.		MAXIMA.		MINIMA.		MAXIMA.		MINIMA.	
Greenwich Civil Time, 1918.	Reading.	Greenwich Civil Time, 1918.	Reading.	Greenwich Civil Time, 1918.	Reading.	Greenwich Civil Time, 1918.	Reading.	Greenwich Civil Time, 1918.	Reading.	Greenwich Civil Time, 1918.	Reading.
January		January		May		May		September		September	
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
		1. 5. 20	29·926	11. 8. 20	29·774	13. 15. 45	29·362	18. 11. 45	29·633	19. 5. 10	29·434
3. 23. 30	30·385	7. 8. 0	29·162	16. 7. 55	29·834	17. 16. 55	29·723	20. 10. 0	29·933	21. 2. 30	29·631
9. 8. 20	29·971	9. 15. 20	29·807	19. 23. 15	30·152	23. 6. 10	29·757	21. 10. 0	29·719	23. 2. 10	29·021
10. 10. 30	29·932	11. 6. 30	29·770	23. 18. 20	29·884	24. 3. 30	29·799	24. 12. 20	29·723	25. 4. 0	29·565
11. 12. 0	29·855	12. 18. 5	29·410	25. 7. 35	29·995	26. 3. 45	29·898	25. 21. 45	29·976	26. 19. 30	29·706
14. 9. 45	29·915	15. 6. 25	29·112	29. 8. 25	30·319	30. 17. 15	30·199	27. 9. 25	29·819	28. 6. 0	29·519
15. 19. 0	29·318	16. 4. 10	29·069					28. 22. 0	29·737	29. 21. 55	29·162
16. 22. 10	29·935	18. 14. 45	29·319	June		June					
19. 11. 20	29·412	20. 15. 5	29·137	1. 7. 20	30·320	3. 17. 0	30·033	October		October	
21. 10. 45	29·320	22. 3. 35	29·245	6. 9. 25	30·119	7. 16. 30	30·037	1. 23. 0	30·071	4. 5. 0	29·726
25. 9. 20	30·336	28. 5. 30	30·154	8. 11. 40	30·206	10. 4. 10	29·646	4. 22. 35	30·002	6. 7. 50	29·657
30. 10. 30	30·273			12. 6. 35	30·109	16. 11. 45	29·557	6. 21. 25	29·913	7. 11. 5	29·598
				17. 21. 10	29·719	19. 4. 0	29·411	9. 2. 0	29·933	9. 15. 30	29·798
February		February		23. 15. 0	30·040	25. 16. 55	29·774	10. 10. 50	29·921	12. 3. 0	29·626
		7. 2. 15	29·647	26. 9. 45	29·910	27. 11. 0	29·828	13. 20. 0	29·915	16. 15. 5	29·526
7. 20. 15	29·738	8. 7. 0	29·641	29. 23. 40	30·103			20. 22. 15	29·987	22. 15. 35	29·840
11. 22. 0	30·200	13. 6. 0	29·871					23. 11. 0	30·007	25. 16 0.	29·688
15. 10. 30	30·309	16. 16. 0	29·996	July		July		29. 11. 0	30·183		
17. 11. 15	30·144	18. 15. 40	29·876			1. 17. 10	29·856				
19. 22. 40	29·971	20. 21. 35	29·714	4. 7. 5	30·272	11. 8. 10	29·451				
21. 18. 25	30·071	22. 4. 40	29·927	11. 22. 25	29·570	12. 11. 0	29·417	November		November	
23. 19. 40	30·402	25. 2. 30	30·090	13. 22. 5	29·776	14. 16. 30	29·568			2. 5. 50	29·174
25. 23. 0	30·636	28. 14. 50	29·322	15. 11. 0	29·757	16. 7. 45	29·622	3. 0. 20	29·508	3. 16. 40	29·370
				17. 3. 20	29·731	17. 18. 5	29·516	4. 9. 0	29·535	5. 1. 25	29·230
March		March		19. 8. 25	29·907	20. 16. 40	29·496	7. 9. 45	30·087	8. 9. 35	29·590
2. 9. 5	29·896	3. 13. 25	29·745	21. 23. 35	29·772	23. 10. 20	29·302	9. 22. 10	30·341	11. 3. 50	30·097
4. 8. 15	29·946	5. 2. 55	29·676	25. 14. 30	29·760	26. 17. 0	29·498	13. 9. 0	30·389	17. 14. 0	29·963
6. 10. 10	29·961	8. 15. 40	29·855	28. 23. 55	30·023			19. 18. 45	30·257	22. 15. 30	29·679
9. 9. 10	30·038	12. 4. 0	29·829					23. 21. 0	29·817	25. 4. 25	29·554
13. 11. 30	30·177	16. 5. 5	29·771	August		August		26. 10. 0	29·665	26. 22. 0	29·523
18. 11. 15	30·000	19. 16. 15	29·699			3. 4. 0	29·481	28. 2. 5	29·790	28. 14. 25	29·675
22. 0. 0	30·346	25. 4. 50	29·936	5. 0. 15	29·651	6. 0. 55	29·418	30. 23. 10	30·087		
26. 11. 20	30·034	29. 2. 55	29·159	10. 8. 5	30·159	12. 17. 0	29·977				
29. 22. 50	29·508	31. 9. 0	29·050	13. 9. 45	30·162	14. 18. 20	29·839	December		December	
				15. 9. 45	29·948	16. 17. 50	29·792			3. 6. 30	29·637
April		April		21. 9. 20	30·058	22. 17. 0	29·697	4. 21. 30	29·946	6. 13. 0	29·557
3. 5. 40	29·716	4. 4. 20	29·553	23. 11. 0	29·920	26. 5. 0	29·578	7. 10. 20	29·707	8. 1. 15	29·590
5. 21. 15	29·877	6. 16. 35	29·596	27. 8. 45	29·837	28. 2. 45	29·603	9. 10. 0	29·913	10. 13. 0	29·664
8. 8. 0	29·854	10. 2. 25	29·377	29. 23. 25	30·066			10. 23. 55	29·849	11. 9. 15	29·646
14. 20. 30	29·845	15. 6. 0	29·770					11. 23. 55	29·844	12. 14. 0	29·712
17. 23. 0	29·916	21. 6. 5	29·538	September		September		14. 22. 0	30·177	16. 4. 10	29·696
24. 0. 15	29·932	25. 16. 25	29·786			1. 1. 30	29·509	16. 11. 0	29·850	17. 4. 0	29·756
27. 23. 55	30·032	29. 17. 45	29·809	3. 10. 45	29·827	5. 4. 0	29·656	17. 16. 15	29·890	18. 18. 55	28·942
				6. 10. 45	29·846	8. 13. 5	29·148	19. 11. 0	29·126	19. 19. 0	29·031
May		May		9. 11. 0	29·437	9. 23. 30	29·034	21. 10. 20	29·859	23. 9. 25	29·066
2. 10. 0	30·157	5. 19. 0	29·470	11. 0. 0	29·310	11. 8. 55	29·212	26. 9. 10	30·076	28. 8. 0	29·448
6. 20. 0	29·620	7. 17. 40	29·496	14. 0. 35	29·859	14. 14. 0	29·669	28. 20. 0	29·524	29. 14. 0	29·351
8. 23. 20	29·706	9. 18. 0	29·629	15. 12. 0	29·782	17. 3. 40	29·402	29. 23. 0	29·432	30. 22. 0	29·168

The readings in the above table are accurate, but the times are occasionally liable to uncertainty, as the barometer will sometimes remain at its extreme reading without sensible change for a considerable interval of time. In such cases the time given is the middle of the stationary period.
The time is expressed in civil reckoning, commencing at midnight and counting from 0^h to 24^h.
The height of the barometer cistern above mean sea level is 152 feet; no correction has been applied to the readings to reduce to sea level.

HIGHEST and LOWEST READINGS of the BAROMETER in each Month for the YEAR 1918.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Highest.....	30·385	30·636	30·346	30·032	30·319	30·320	30·272	30·162	29·976	30·183	30·389	30·177
Lowest	29·069	29·322	29·050	29·155	29·362	29·411	29·302	29·418	29·021	29·526	29·174	28·942
Range	1·316	1·314	1·296	0·877	0·957	0·909	0·970	0·744	0·955	0·657	1·215	1·235

The highest reading in the year was $30^{in.}636$ on February 25. The lowest reading in the year was $28^{in.}942$ on December 18. The range of reading in the year was $1^{in.}694$.

MONTHLY RESULTS of METEOROLOGICAL ELEMENTS for the YEAR 1918.

MONTH, 1918.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR. Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean of the Daily Ranges.	Monthly Mean.	Excess of Mean above the Average of 65 Years.	Mean Temperature of Evaporation.	Mean Temperature of the Dew Point.	Mean Degree of Humidity. (Saturation = 100).
	in.	°	°	°	°	°	°	°	°	°	°	
January	29·811	56·2	18·5	37·7	44·8	34·6	10·1	39·6	+ 1·0	37·7	34·8	83·4
February	30·020	59·1	21·3	37·8	49·3	37·9	11·4	43·5	+ 3·9	41·2	38·1	81·9
March	29·869	66·5	27·4	39·1	52·1	35·3	16·8	42·9	+ 1·0	39·9	36·2	78·3
April	29·742	66·0	32·0	34·0	52·2	38·2	14·0	44·1	− 3·2	42·0	39·5	84·4
May	29·867	83·0	39·4	43·6	66·7	46·0	20·7	55·6	+ 2·5	51·4	47·5	75·0
June	29·913	79·7	37·1	42·6	69·6	46·4	23·2	57·2	− 2·2	51·7	47·0	68·1
July	29·773	82·0	47·2	34·8	72·6	52·7	19·9	61·3	− 1·4	56·9	53·2	75·5
August	29·839	89·8	46·2	43·6	72·7	53·2	19·5	62·2	+ 0·6	57·8	54·1	75·3
September	29·583	72·5	38·2	34·3	64·6	48·6	16·0	55·7	− 1·5	52·2	48·8	78·3
October	29·836	64·2	30·8	33·4	56·7	42·4	14·3	49·7	− 0·3	47·5	45·1	84·8
November	29·895	58·5	29·4	29·1	49·3	37·0	12·3	43·3	− 0·2	41·8	39·9	88·4
December	29·675	59·5	28·5	31·0	49·8	41·1	8·7	46·1	+ 6·1	44·5	42·6	88·4
		Highest	Lowest	Annual Range								
Means	29·819	89·8	18·5	71·3	58·4	42·8	15·6	50·1	+ 0·5	47·1	43·9	80·2

MONTH, 1918.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean Weight of a Cubic Foot of Air.	Mean Temperature at Noon of the Earth 3 ft. 2 in. below the surface of the soil.	Mean Amount of Cloud (0-10.)	RAIN. Number of Rainy Days (0in·005 or over).	Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground.	WIND. From Osler's Anemometer. Number of Hours of Prevalence of each Wind referred to different Points of Azimuth. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Number of Calm or nearly Calm Hours.	Mean Daily Pressure on the Square Foot.	From Robinson's Anemometer. Mean Daily Horizontal Movement of the Air
	in.	grs.	grs.	°			in.	h	h	h	h	h	h	h	h	h	lbs.	miles.
January	0·202	2·4	553	40·52	6·1	17	2·715	64	34	20	24	165	213	127	30	67	0·23	322
February	0·230	2·7	553	43·04	7·1	13	0·983	26	8	53	45	108	259	78	15	80	0·31	353
March	0·214	2·5	551	43·14	5·5	8	0·969	95	118	118	26	77	119	55	36	100	0·27	295
April	0·242	2·8	547	45·06	8·2	19	2·846	252	167	57	34	22	52	36	19	81	0·25	292
May	0·329	3·7	536	51·87	5·3	12	1·907	128	72	139	15	59	93	31	43	164	0·20	223
June	0·323	3·6	536	58·04	6·5	11	0·735	126	49	44	12	53	119	120	81	116	0·22	244
July	0·406	4·5	528	61·08	6·7	17	7·341	88	18	35	34	183	206	42	60	78	0·25	259
August	0·419	4·6	528	62·86	7·0	11	1·049	16	11	35	36	237	149	72	78	110	0·16	237
September	0·345	3·9	531	..	6·9	24	4·482	18	3	36	17	101	304	169	29	43	0·42	355
October	0·301	3·5	542	..	7·2	17	1·333	125	58	16	12	98	198	92	35	110	0·21	255
November	0·246	2·8	551	..	6·3	11	1·987	64	51	59	88	81	117	86	21	153	0·17	225
December	0·273	3·2	543	..	7·7	22	2·010	34	2	0	16	106	285	232	47	22	0·37	372
Sums	..	..	..	..	..	182	28·357	1036	591	612	359	1290	2114	1140	494	1124	..	..
Means	0·294	3·4	542	..	6·7	..	..	..	..	..	..	..	..	..	..	..	0·26	286

The greatest recorded pressure of the wind on the square foot in the year was 19·4 lbs. on May 23.
The greatest recorded daily horizontal movement of the air in the year was 722 miles, on February 9.
The least recorded daily horizontal movement of the air in the year was 64 miles, on August 3.

MONTHLY MEAN READINGS of the BAROMETER at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

Hour, Greenwich Civil Time.	1918. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	29·809	30·034	29·884	29·739	29·870	29·926	29·786	29·846	29·570	29·854	29·893	29·691	29·825
1h	29·803	30·030	29·882	29·735	29·867	29·922	29·784	29·844	29·565	29·851	29·888	29·684	29·821
2	29·797	30·025	29·876	29·731	29·863	29·919	29·781	29·841	29·560	29·843	29·886	29·682	29·817
3	29·791	30·017	29·869	29·727	29·860	29·916	29·777	29·838	29·557	29·835	29·883	29·678	29·812
4	29·787	30·013	29·869	29·724	29·861	29·916	29·779	29·835	29·555	29·831	29·880	29·667	29·810
5	29·783	30·014	29·868	29·726	29·864	29·918	29·781	29·839	29·555	29·829	29·882	29·659	29·810
6	29·787	30·017	29·872	29·732	29·869	29·923	29·782	29·844	29·562	29·827	29·883	29·657	29·813
7	29·796	30·023	29·877	29·739	29·874	29·927	29·782	29·850	29·574	29·833	29·889	29·660	29·819
8	29·805	30·030	29·880	29·744	29·879	29·929	29·782	29·853	29·583	29·838	29·899	29·668	29·824
9	29·820	30·037	29·881	29·747	29·880	29·928	29·778	29·854	29·595	29·841	29·902	29·673	29·828
10	29·832	30·039	29·882	29·749	29·879	29·925	29·776	29·854	29·599	29·840	29·907	29·679	29·830
11	29·836	30·040	29·877	29·746	29·876	29·921	29·773	29·850	29·597	29·838	29·904	29·677	29·828
Noon	29·832	30·035	29·871	29·745	29·873	29·918	29·768	29·846	29·597	29·833	29·895	29·670	29·824
13h	29·823	30·025	29·860	29·742	29·868	29·912	29·764	29·842	29·596	29·828	29·888	29·664	29·818
14	29·813	30·013	29·851	29·738	29·862	29·905	29·763	29·835	29·592	29·822	29·883	29·665	29·812
15	29·811	30·006	29·848	29·733	29·855	29·901	29·759	29·828	29·587	29·818	29·882	29·668	29·808
16	29·813	30·004	29·846	29·732	29·851	29·894	29·754	29·824	29·587	29·819	29·885	29·671	29·807
17	29·816	30·005	29·849	29·734	29·849	29·890	29·753	29·821	29·588	29·824	29·893	29·673	29·808
18	29·818	30·010	29·857	29·739	29·853	29·890	29·753	29·821	29·589	29·835	29·901	29·674	29·812
19	29·821	30·012	29·862	29·748	29·859	29·894	29·760	29·824	29·595	29·840	29·905	29·679	29·817
20	29·821	30·014	29·869	29·759	29·867	29·899	29·767	29·831	29·598	29·844	29·909	29·688	29·822
21	29·819	30·011	29·872	29·764	29·876	29·909	29·778	29·835	29·596	29·848	29·912	29·691	29·826
22	29·821	30·011	29·872	29·766	29·881	29·913	29·783	29·830	29·595	29·848	29·911	29·693	29·828
23	29·820	30·010	29·874	29·768	29·882	29·914	29·785	29·835	29·592	29·845	29·911	29·690	29·827
24	29·818	30·009	29·872	29·767	29·880	29·913	29·784	29·836	29·584	29·843	29·909	29·684	29·825
Means 0h.–23h.	29·811	30·020	29·869	29·742	29·867	29·913	29·773	29·839	29·583	29·836	29·895	29·675	29·819
Means 1h.–24h.	29·812	30·019	29·868	29·743	29·868	29·912	29·773	29·838	29·583	29·835	29·895	29·675	29·818
Number of Days employed	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN TEMPERATURE of the AIR at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

Hour, Greenwich Civil Time.	1918. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	38·7	42·2	39·1	40·6	49·1	51·2	56·0	58·0	52·7	46·9	42·0	45·1	46·8
1h	38·3	41·9	38·5	40·3	48·6	50·2	55·2	57·3	52·4	46·6	41·8	45·2	46·4
2	38·2	41·7	38·4	40·0	48·3	49·2	54·8	56·5	52·2	46·2	41·4	45·1	46·0
3	38·0	41·6	37·9	39·8	48·0	48·4	54·4	55·9	51·8	46·1	41·0	45·0	45·7
4	37·9	41·1	37·6	39·8	47·7	47·9	54·3	55·1	51·4	46·0	40·5	45·3	45·4
5	37·6	40·7	37·5	40·0	48·1	48·7	55·1	54·8	51·3	46·2	40·4	45·4	45·5
6	37·6	40·7	37·6	40·3	50·0	51·2	56·9	56·1	51·3	46·5	40·6	45·4	46·2
7	37·5	40·8	38·4	41·2	52·7	54·5	59·5	58·1	52·6	47·1	40·7	45·3	47·4
8	37·4	41·0	40·4	42·7	55·6	57·7	61·4	61·1	54·7	48·3	41·1	45·3	48·9
9	37·9	42·6	42·9	44·5	57·6	60·0	63·8	63·2	57·0	50·3	42·5	45·7	50·7
10	39·0	44·2	45·1	46·2	59·7	61·9	65·4	65·1	58·8	52·0	44·6	46·4	52·4
11	40·7	45·8	47·2	47·4	61·5	63·3	66·1	67·2	59·9	53·6	46·2	47·1	53·8
Noon	42·1	46·9	48·5	48·3	62·5	64·0	66·9	68·1	60·9	54·6	47·4	47·6	54·8
13h	42·8	47·5	49·7	49·1	63·2	65·4	67·3	69·0	61·5	55·0	48·0	47·8	55·5
14	42·8	47·7	50·2	49·4	63·8	65·4	66·8	69·5	61·1	54·8	47·8	48·0	55·6
15	42·4	47·5	49·8	48·9	63·8	64·6	67·5	69·3	61·1	54·3	47·1	47·7	55·3
16	41·6	46·5	49·2	49·0	63·5	63·9	67·6	69·1	60·2	53·3	45·9	47·1	54·7
17	40·6	45·0	48·0	48·5	62·5	63·5	66·8	67·8	58·8	51·9	44·8	46·7	53·7
18	40·2	44·1	46·0	47·3	60·5	62·1	65·8	66·2	57·0	50·6	43·9	46·5	52·5
19	39·9	43·5	44·2	45·5	58·2	60·4	63·4	64·1	55·4	49·8	43·3	46·1	51·2
20	39·5	43·2	42·6	44·1	55·4	58·0	61·2	62·1	54·8	49·0	42·9	45·8	49·9
21	39·5	42·8	41·6	42·9	52·9	55·5	59·2	60·9	54·2	48·6	42·5	45·3	48·8
22	39·4	42·6	40·8	41·8	51·3	54·0	57·8	59·5	53·4	48·1	42·1	45·1	48·0
23	39·1	42·3	40·0	41·1	50·2	52·7	56·9	58·6	52·8	47·7	41·7	45·1	47·3
24	38·7	42·2	39·5	40·6	49·3	51·4	56·0	57·9	52·4	47·4	41·4	45·0	46·8
Means 0h.–23h.	39·5	43·5	43·0	44·1	55·6	57·2	61·3	62·2	55·7	49·7	43·3	46·0	50·1
Means 1h.–24h.	39·5	43·5	43·0	44·1	55·6	57·2	61·3	62·2	55·7	49·7	43·3	46·0	50·1
Number of Days employed	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN TEMPERATURE of EVAPORATION at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

Hour, Greenwich Civil Time.	1918. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	37·1	40·3	37·5	39·6	47·7	48·5	54·0	55·9	50·9	45·6	40·9	43·7	45·1
1h	36·8	40·1	37·1	39·4	47·3	47·8	53·3	55·4	50·7	45·4	40·7	43·9	44·8
2	36·8	40·0	37·0	39·1	47·0	47·0	52·9	54·9	50·5	45·1	40·4	43·6	44·5
3	36·7	39·8	36·6	38·8	46·8	46·3	52·6	54·4	50·3	45·0	39·9	43·6	44·2
4	36·6	39·2	36·4	38·9	46·4	46·1	52·6	53·9	50·1	45·0	39·5	43·9	44·1
5	36·4	39·1	36·1	39·0	46·7	46·8	53·4	53·7	50·0	45·1	39·6	44·2	44·2
6	36·2	39·1	36·3	39·4	48·3	48·6	54·9	54·5	50·0	45·5	39·7	44·2	44·7
7	36·2	39·2	37·0	40·0	50·3	50·5	56·5	56·1	50·9	45·9	39·7	44·1	45·5
8	36·1	39·4	38·6	41·3	51·9	52·1	57·4	57·4	51·9	46·8	40·1	44·0	46·4
9	36·5	40·6	40·1	42·6	53·1	53·3	58·6	58·4	53·1	48·3	41·2	44·4	47·5
10	37·4	41·7	41·5	43·4	54·4	54·0	59·1	59·2	53·8	49·2	42·8	45·0	48·4
11	38·6	42·5	42·7	44·2	55·2	54·6	59·7	60·1	54·3	49·9	44·0	45·5	49·3
Noon	39·4	43·2	43·5	44·9	55·6	54·9	59·8	60·3	54·7	50·3	44·8	45·8	49·8
13h	39·7	43·8	44·1	45·3	55·6	55·7	60·2	60·7	54·7	50·4	45·1	45·9	50·1
14	39·7	43·9	44·1	45·4	55·9	55·6	59·9	61·1	54·9	50·2	44·9	46·0	50·1
15	39·4	43·8	44·0	45·1	55·6	55·6	60·3	61·0	54·5	50·2	44·5	45·5	50·0
16	39·1	43·1	43·7	45·0	55·4	55·4	60·2	61·0	54·1	49·7	43·6	45·1	49·6
17	38·5	42·5	42·9	44·5	54·9	55·2	59·6	60·5	53·3	48·9	42·9	44·8	49·0
18	38·2	42·0	41·8	44·0	53·9	54·6	59·3	59·9	52·7	48·3	42·2	44·6	48·5
19	38·0	41·6	40·8	43·0	52·7	54·0	58·1	59·0	52·0	47·8	41·8	44·4	47·8
20	37·7	41·3	39·8	42·1	51·5	52·8	57·2	58·3	51·9	47·3	41·5	44·2	47·1
21	37·6	41·0	39·2	41·3	50·3	51·7	56·1	57·6	51·6	47·0	41·2	43·8	46·5
22	37·6	40·8	38·8	40·5	49·2	50·6	55·3	56·8	51·2	46·6	40·9	43·7	46·0
23	37·4	40·4	38·2	40·0	48·5	49·5	54·8	56·3	50·8	46·4	40·6	43·6	45·5
24	37·1	40·3	37·8	39·5	48·0	48·7	54·1	55·8	50·5	46·1	40·3	43·7	45·2
Means. 0h.–23h.	37·7	41·2	39·9	41·9	51·4	51·7	56·9	57·8	52·2	47·5	41·8	44·5	47·0
Means. 1h.–24h.	37·7	41·2	39·9	41·9	51·4	51·7	56·9	57·8	52·1	47·5	41·7	44·5	47·0
Number of Days employed	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN TEMPERATURE of the DEW POINT at every HOUR of the DAY, as deduced by GLAISHER'S TABLES from the corresponding AIR and EVAPORATION TEMPERATURES.

Hour, Greenwich Civil Time.	1918. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	34·9	38·0	35·4	38·4	46·2	45·7	52·1	54·0	49·1	44·2	39·6	42·1	43·3
1h	34·8	37·9	35·2	38·3	45·9	45·3	51·5	53·7	49·0	44·1	39·4	42·4	43·1
2	34·9	37·9	35·1	37·9	45·6	44·6	51·1	53·5	48·8	43·9	39·2	41·8	42·9
3	34·9	37·5	34·9	37·5	45·5	44·0	50·8	53·0	48·8	43·8	38·5	42·0	42·6
4	34·9	36·8	34·8	37·7	45·0	44·1	50·9	52·7	48·8	43·9	38·3	42·3	42·5
5	34·8	37·1	34·2	37·7	45·2	44·8	51·8	52·6	48·7	43·9	38·6	42·8	42·7
6	34·3	37·1	34·5	38·3	46·5	45·9	53·1	53·0	48·7	44·4	38·6	42·8	43·1
7	34·4	37·2	35·1	38·5	47·9	46·6	53·9	53·8	49·2	44·6	38·5	42·7	43·5
8	34·3	37·4	36·3	39·6	48·4	47·0	53·9	54·2	49·2	45·2	38·8	42·5	43·9
9	34·6	38·2	36·7	40·4	49·0	47·4	54·2	54·4	49·5	46·2	39·6	42·9	44·4
10	35·3	38·7	37·3	40·2	49·7	47·2	54·0	54·4	49·4	46·3	40·7	43·5	44·7
11	35·9	38·7	37·7	40·6	49·8	47·3	54·5	54·4	49·3	46·3	41·5	43·7	45·0
Noon	36·1	39·0	38·1	41·2	49·7	47·3	54·1	54·2	49·3	46·2	42·0	43·8	45·1
13h	36·0	39·7	38·1	41·2	49·2	47·8	54·6	54·3	48·8	46·0	41·9	43·8	45·1
14	36·0	39·7	37·6	41·1	49·4	47·6	54·4	54·6	49·5	45·8	41·8	43·8	45·1
15	35·7	39·7	37·8	41·0	48·8	48·2	54·6	54·6	48·8	46·2	41·6	43·1	45·0
16	36·0	39·3	37·8	40·7	48·6	48·3	54·3	54·7	48·7	46·1	41·0	42·9	44·9
17	35·8	39·6	37·3	40·2	48·4	48·2	53·8	54·7	48·4	45·9	40·7	42·6	44·6
18	35·6	39·5	37·0	40·3	48·1	48·2	54·0	54·8	48·7	45·9	40·2	42·5	44·6
19	35·5	39·4	36·8	40·1	47·8	48·4	53·7	54·7	48·7	45·7	40·0	42·5	44·4
20	35·4	39·0	36·4	39·7	47·8	48·1	53·7	55·1	49·1	45·4	39·8	42·4	44·3
21	35·1	38·8	36·2	39·4	47·7	48·1	53·3	54·8	49·1	45·2	39·6	42·2	44·1
22	35·3	38·7	36·3	38·9	47·0	47·3	52·1	54·4	49·0	45·0	39·5	42·1	43·8
23	35·2	38·1	35·9	38·6	46·7	46·3	52·9	54·3	48·8	45·0	39·2	41·9	43·6
24	34·9	38·0	35·6	38·1	46·6	45·9	52·3	53·9	48·6	44·7	38·9	42·2	43·3
Means. 0h.–23h.	35·2	38·5	36·4	39·5	47·7	46·8	53·3	54·1	49·0	45·2	39·9	42·7	44·0
Means. 1h.–24h.	35·2	38·5	36·4	39·5	47·7	46·8	53·3	54·1	49·0	45·2	39·9	42·7	44·0

MONTHLY MEAN DEGREE of HUMIDITY (Saturation=100) at every HOUR of the DAY, as deduced by GLAISHER'S TABLES from the corresponding AIR and EVAPORATION TEMPERATURES.

Hour, Greenwich Civil Time.	1918.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight	87	86	87	92	90	82	87	86	88	91	91	89	88
1h	88	87	88	93	91	84	88	88	88	92	92	90	89
2	88	87	88	93	91	85	88	89	88	92	92	89	89
3	89	87	89	92	92	85	88	90	89	92	91	89	89
4	89	85	90	93	91	87	88	92	91	93	92	90	90
5	90	87	88	92	90	87	89	92	91	92	94	91	90
6	88	87	89	93	88	82	87	89	91	93	93	91	89
7	89	87	88	91	84	75	83	83	89	92	92	91	87
8	89	87	86	89	77	68	77	78	81	90	92	90	84
9	88	85	79	86	73	63	72	73	76	86	90	90	80
10	87	81	74	81	69	58	67	69	71	81	87	90	76
11	84	77	70	78	66	57	66	64	68	76	85	89	73
Noon	80	75	67	77	63	55	64	61	66	73	82	88	71
13h	77	75	64	74	61	53	64	59	64	72	80	87	69
14	77	75	62	73	59	52	64	58	66	71	81	86	69
15	78	75	63	74	58	56	63	59	64	74	82	85	69
16	81	77	65	73	59	57	62	60	66	77	84	86	71
17	84	81	66	73	60	58	63	63	69	80	86	87	72
18	84	83	72	77	64	60	66	67	74	84	86	87	75
19	85	85	75	82	69	64	71	72	79	87	88	88	79
20	86	85	79	84	76	70	77	78	81	88	89	88	82
21	85	86	82	87	83	77	82	81	82	89	90	89	84
22	86	86	85	90	86	78	84	84	85	90	91	89	86
23	86	86	86	91	88	79	86	85	87	91	92	89	87
24	87	86	86	91	91	82	88	86	87	91	92	90	88
Means. 0h.–23h.	85	83	78	84	76	70	76	76	79	85	88	89	81
Means. 1h.–24h.	85	83	78	84	76	70	76	76	79	85	88	89	81

TOTAL AMOUNT of SUNSHINE registered in each HOUR of the DAY in each MONTH as derived from the RECORDS of the CAMPBELL-STOKES SELF-REGISTERING INSTRUMENT for the YEAR 1918.

Month, 1918.	Registered Duration of Sunshine in the Hour ending.																Total Registered Duration of Sunshine in each Month.	Corresponding aggregate period during which the Sun was above the Horizon.	Proportion of Sunshine.	Mean Altitude of the Sun at Noon.
	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h				
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		°
January	..	..	..	..	1·8	6·5	8·6	11·6	12·5	12·8	10·8	5·3	..	..	..	..	69·9	259·0	0·270	18
February	..	..	..	3·4	7·8	11·2	10·9	9·6	10·2	9·0	9·4	6·3	1·3	..	..	..	79·1	276·9	0·286	26
March	..	..	0·9	7·3	10·3	13·2	16·2	15·0	16·5	18·1	15·3	14·1	8·1	0·5	..	..	135·5	365·6	0·371	37
April	..	..	0·6	3·7	6·0	6·8	8·6	8·3	8·8	9·5	6·9	8·5	7·0	3·9	0·6	..	79·2	413·4	0·192	48
May	1·2	8·1	12·4	12·6	14·0	15·1	18·7	18·2	19·0	18·4	17·9	17·5	18·1	14·8	10·7	1·7	218·4	481·2	0·454	57
June	5·5	14·5	15·2	18·1	16·7	18·4	17·2	15·4	15·1	16·5	15·8	11·4	13·7	14·6	12·7	3·6	224·4	494·1	0·454	62
July	3·6	9·2	14·4	15·7	16·9	16·0	12·6	13·1	12·7	10·6	13·7	14·0	13·4	11·5	9·2	1·4	188·0	497·6	0·378	60
August	0·3	6·1	12·4	12·8	13·6	15·6	17·2	15·9	16·8	16·1	13·3	14·1	12·2	10·0	5·1	..	181·5	450·7	0·403	52
September ...	..	0·2	6·6	11·9	16·0	17·5	16·6	16·0	15·9	15·2	15·6	13·8	11·3	5·5	..	..	162·0	378·9	0·428	41
October	..	..	..	1·9	3·8	7·1	10·0	11·8	12·0	11·2	9·7	7·9	2·2	..	..	..	77·6	330·3	0·235	30
November....	..	..	..	0·1	3·7	7·8	10·6	11·5	10·9	10·5	8·9	5·1	0·3	..	..	..	69·4	265·8	0·261	20
December ...	..	..	..	..	0·1	3·4	4·2	3·4	4·9	5·7	3·7	0·4	..	..	..	..	25·8	243·8	0·106	16
For the Year	10·6	38·1	62·5	87·5	110·7	138·6	151·4	149·8	155·3	153·6	141·0	118·4	87·6	60·8	38·3	6·7	1510·8	4457·3	0·339	..

The hours are reckoned from "apparent" midnight.

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE in the YEAR 1918.

(The readings of maximum and minimum thermometers apply to the twenty-four hours ending 21h)

JANUARY.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	35·8	30·7	32·9	33·8	33·7	35·8	31·8	31·8	32·3	34·5
2	39·8	28·9	30·1	34·6	35·7	36·0	29·5	32·0	34·8	34·9
3	35·7	28·1	31·5	33·7	32·9	28·7	30·1	31·6	31·6	27·1
4	34·5	23·1	24·5	30·7	34·3	34·5	24·0	28·8	32·0	32·4
5	38·1	34·3	36·3	37·7	38·1	36·5	34·8	35·8	35·7	33·3
6	38·5	29·9	30·5	36·7	37·4	37·7	29·5	34·3	35·6	37·6
7	38·0	28·9	36·6	35·7	34·1	29·3	34·8	31·2	29·7	27·3
8	29·2	23·1	25·6	25·7	25·3	23·8	23·8	22·8	20·9	22·3
9	39·4	18·5	22·5	30·4	37·4	39·4	20·5	28·7	35·1	36·6
10	44·0	37·9	40·1	43·7	43·4	41·6	37·6	39·9	39·6	38·9
11	42·1	38·2	40·7	40·7	39·5	39·9	39·8	37·8	36·8	38·1
12	41·1	35·2	36·7	40·5	40·4	38·5	34·6	36·8	37·1	36·7
13	38·5	29·1	30·8	36·8	37·0	34·1	29·2	32·5	32·7	31·4
14	37·6	26·2	26·8	29·5	33·0	37·4	24·4	27·1	31·4	34·4
15	50·3	32·7	48·4	46·1	38·6	32·7	45·7	44·9	36·8	32·6
16	35·4	30·1	33·7	34·6	35·4	31·6	32·9	33·3	33·7	30·0
17	39·5	30·5	32·8	33·7	33·7	39·5	32·2	33·6	33·6	38·9
18	50·9	39·2	48·5	50·5	50·6	49·6	46·1	48·4	48·0	48·1
19	51·0	47·3	47·8	50·6	50·6	48·5	46·8	47·8	46·6	45·2
20	53·6	44·9	48·3	49·8	52·5	52·5	45·8	47·0	47·2	46·8
21	56·0	46·8	47·6	54·5	52·2	48·5	45·8	49·7	48·6	45·8
22	56·2	45·4	48·7	52·6	50·8	49·2	47·0	49·7	48·0	47·9
23	52·0	42·2	44·4	51·4	49·6	48·7	44·1	48·0	46·9	46·9
24	55·6	48·2	51·5	54·2	53·2	50·5	48·9	49·4	48·4	46·8
25	52·0	43·4	44·4	49·8	51·6	47·6	43·6	47·7	48·9	46·5
26	47·9	42·9	46·0	45·7	45·5	42·9	44·6	44·6	43·8	41·1
27	52·8	37·5	38·8	50·4	51·5	39·7	38·7	47·0	47·7	38·9
28	49·0	36·2	44·2	47·6	47·8	40·8	42·8	44·9	44·8	39·0
29	51·5	36·3	39·3	49·7	49·8	37·7	38·8	46·2	46·1	37·3
30	51·5	30·1	33·5	48·8	50·4	36·5	31·8	45·9	45·6	34·9
31	47·9	28·0	31·7	45·6	47·3	35·3	31·2	41·9	42·7	34·9
Means	44·7	34·6	37·9	42·1	42·4	39·5	36·5	39·4	39·4	37·6

FEBRUARY.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	44·4	28·4	31·6	36·9	42·5	33·6	31·0	36·1	40·7	32·7
2	46·5	30·1	37·5	42·8	46·1	43·6	36·8	41·9	45·1	42·9
3	48·9	41·1	41·8	47·7	48·4	43·6	41·1	45·2	45·8	42·0
4	48·1	41·9	46·5	47·6	47·6	46·9	44·8	46·2	46·3	46·0
5	50·5	44·1	45·8	49·0	47·6	46·2	44·7	46·4	45·8	44·8
6	51·0	40·1	45·6	49·8	49·5	48·4	44·0	46·7	46·1	45·8
7	55·6	47·2	50·7	54·1	52·8	51·6	49·5	51·7	50·0	48·8
8	53·6	46·0	49·5	50·8	51·7	46·6	47·9	45·9	46·0	43·7
9	53·5	45·7	49·0	51·6	51·5	51·2	45·9	46·9	47·7	47·9
10	56·8	48·0	52·4	53·3	53·9	49·5	48·8	49·6	49·9	46·2
11	53·6	48·1	50·8	52·6	52·6	50·9	47·4	48·9	50·0	49·3
12	51·2	44·8	47·6	48·4	50·7	45·5	45·8	45·4	47·5	44·5
13	51·3	45·3	47·6	50·2	50·8	47·6	46·3	47·7	47·9	46·1
14	47·8	41·6	42·7	45·1	43·0	41·6	42·6	41·9	41·4	40·8
15	45·5	31·6	39·6	43·6	43·7	34·9	38·1	40·8	40·6	33·8
16	42·1	29·3	34·2	39·7	40·7	30·1	30·9	33·7	33·7	28·0
17	38·9	23·1	30·5	36·7	38·6	27·5	29·0	31·8	32·9	26·2
18	42·9	21·3	30·1	41·5	41·9	29·4	28·8	36·6	36·2	27·8
19	43·3	23·2	25·6	41·3	39·6	29·8	25·0	37·1	35·8	29·3
20	47·9	29·7	41·5	46·3	46·6	46·9	40·1	43·8	44·4	46·0
21	48·8	36·3	39·5	45·6	46·6	42·5	36·5	39·1	40·1	39·5
22	55·3	42·2	48·6	52·4	53·6	51·7	47·7	49·9	50·3	49·1
23	59·1	47·2	52·7	57·5	58·1	50·6	49·8	51·6	52·4	45·9
24	54·1	45·1	49·6	51·6	51·1	45·1	44·3	46·1	46·6	43·8
25	46·5	33·6	39·5	44·2	45·9	33·6	36·9	39·4	40·1	32·8
26	49·8	30·1	40·5	43·2	49·3	48·3	37·8	40·4	44·7	45·9
27	50·0	39·9	43·4	47·7	47·6	45·5	39·8	42·3	42·8	44·6
28	45·7	33·6	37·6	40·8	36·8	35·5	34·8	35·8	35·4	33·6
Means	49·4	37·8	42·6	46·9	47·5	42·8	40·6	43·2	43·8	41·0

MARCH.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	43·0	32·3	36·5	40·7	40·8	32·8	32·9	34·8	33·9	30·6
2	38·9	30·1	32·6	36·8	36·7	33·4	29·8	31·1	30·3	31·2
3	36·3	33·3	34·5	34·7	36·3	36·3	33·2	34·5	35·7	35·7
4	38·8	35·2	36·7	37·6	37·8	38·5	34·7	35·1	36·4	37·8
5	40·0	37·1	37·6	37·7	38·7	38·7	35·8	35·9	36·7	37·2
6	51·2	37·0	42·6	49·4	50·1	39·4	40·3	44·7	44·7	37·9
7	44·1	39·0	40·5	42·7	42·5	40·4	39·4	41·1	40·2	37·9
8	42·6	31·6	36·1	37·7	41·7	31·6	33·8	35·5	37·5	30·0
9	50·4	27·4	33·7	46·1	48·7	37·3	32·9	40·8	42·0	36·6
10	59·0	29·1	31·9	46·6	58·7	43·6	31·7	43·5	48·8	40·3
11	61·9	37·1	54·6	59·2	59·7	44·8	46·6	50·7	51·3	42·6
12	62·6	42·6	51·5	59·7	61·4	46·8	47·5	52·3	50·7	42·1
13	52·7	41·9	45·5	50·6	51·7	43·6	43·5	47·0	47·9	42·6
14	52·0	38·2	44·6	50·6	43·7	39·5	41·5	43·5	40·6	38·3
15	47·1	36·9	41·8	44·5	41·7	36·9	38·9	38·9	36·7	34·2
16	49·9	29·0	35·6	45·4	49·6	36·1	32·4	39·5	42·3	34·7
17	54·8	33·2	40·6	49·9	52·6	43·0	39·3	46·4	48·1	42·6
18	61·2	36·7	50·6	55·7	55·5	45·5	47·7	48·7	49·5	42·9
19	52·9	36·1	44·1	49·4	51·5	46·2	43·0	46·7	47·2	45·6
20	59·0	41·8	48·6	55·8	58·3	48·7	45·5	48·6	48·6	44·6
21	60·7	37·9	40·7	54·8	60·1	48·2	40·6	49·0	50·7	43·4
22	66·5	37·1	48·9	60·8	65·6	52·8	45·8	50·8	51·6	44·9
23	65·9	34·2	53·2	61·9	65·7	46·0	45·9	51·8	53·7	42·1
24	65·2	33·9	49·5	58·8	63·9	44·5	44·5	52·2	53·8	41·7
25	53·3	38·1	45·5	51·6	47·5	38·6	42·7	44·0	40·9	36·0
26	47·8	33·5	40·2	42·7	46·5	35·6	37·8	38·7	40·6	33·7
27	51·3	32·8	43·1	46·1	49·9	39·7	41·1	42·9	43·8	38·1
28	50·0	39·8	45·7	47·1	45·9	44·1	44·3	45·3	45·0	41·3
29	53·1	40·3	45·8	50·1	45·8	45·9	41·9	42·9	43·1	41·8
30	48·9	33·2	46·8	46·8	46·8	43·0	43·8	45·8	46·3	42·7
31	54·6	41·1	49·3	52·0	49·3	46·6	45·4	46·0	46·2	43·3
Means	52·1	35·7	42·9	48·5	49·8	41·6	40·1	43·5	44·0	39·2

APRIL.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	56·7	43·8	50·9	50·4	47·4	47·5	46·4	45·7	45·2	43·7
2	56·8	36·8	45·9	52·6	52·2	41·6	43·2	45·1	46·9	39·1
3	56·8	32·0	47·8	54·6	54·8	45·0	44·0	46·3	47·1	43·7
4	50·9	43·8	46·3	50·6	49·4	44·6	44·9	48·2	46·0	40·8
5	54·0	37·3	40·7	45·9	52·5	40·4	39·5	42·8	46·5	39·8
6	51·5	37·0	49·3	50·5	47·0	42·7	47·6	49·6	45·8	40·8
7	52·2	35·1	44·6	47·6	49·5	43·6	41·7	43·6	42·9	41·6
8	55·5	39·1	46·1	51·6	52·0	42·7	43·5	45·5	45·9	42·3
9	48·9	40·7	43·7	48·4	45·7	43·6	43·7	46·3	45·0	43·4
10	47·0	42·1	45·2	46·6	46·5	42·5	44·9	46·0	45·7	41·9
11	49·0	42·1	44·5	46·4	48·6	45·8	44·5	45·9	47·6	45·7
12	61·3	42·9	50·5	57·5	59·8	45·4	47·8	50·7	51·6	45·1
13	51·7	35·9	48·5	49·1	45·6	41·3	46·7	46·9	43·8	40·4
14	46·9	39·1	40·6	41·5	46·5	39·5	37·4	37·7	40·3	35·7
15	48·8	36·8	43·5	43·7	42·6	36·9	41·6	41·9	41·5	36·6
16	41·0	32·2	35·5	39·6	40·6	40·7	35·0	38·9	40·6	40·7
17	44·7	40·7	42·9	43·6	44·5	42·5	42·3	43·1	43·3	41·8
18	45·0	34·8	42·4	44·1	39·5	34·8	41·4	39·8	35·9	32·7
19	46·8	32·1	37·7	41·7	37·6	34·7	34·2	37·6	35·7	33·7
20	44·1	33·5	37·5	38·9	38·1	36·7	35·3	36·4	36·1	36·0
21	44·5	35·0	38·2	40·4	43·5	39·3	37·4	39·4	40·8	38·8
22	54·9	37·3	44·1	51·6	54·1	44·6	41·8	44·8	46·6	41·3
23	49·2	40·6	41·9	44·8	48·3	46·3	41·4	43·7	46·6	44·7
24	54·4	36·2	49·7	52·4	50·5	44·6	45·9	49·3	47·9	43·9
25	66·0	43·1	47·9	59·7	59·9	49·5	46·4	54·7	54·6	48·0
26	65·0	43·1	45·9	51·4	60·6	51·5	44·9	49·0	53·3	49·0
27	64·2	42·5	45·8	54·1	63·5	46·8	44·8	49·8	53·0	44·5
28	47·9	42·0	43·8	45·7	47·6	42·7	42·9	44·3	45·8	41·2
29	54·5	41·2	45·2	49·3	49·8	44·0	42·7	45·8	46·5	41·6
30	55·9	40·1	48·4	53·2	48·8	44·4	44·9	48·1	45·0	40·6
Means	52·2	38·6	44·5	48·3	48·9	42·9	42·6	44·9	45·1	41·3

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE—*continued.*

(The readings of the maximum and minimum thermometers apply to the twenty-four hours ending at 21h)

MAY.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	49·8	41·2	46·8	46·6	46·6	42·7	41·6	41·6	40·9	40·7
2	54·0	42·4	49·7	52·2	53·3	44·2	47·2	48·7	49·2	42·8
3	59·4	39·4	53·5	57·1	57·6	50·7	49·9	52·0	51·9	47·9
4	67·9	49·1	52·1	60·8	64·7	51·6	50·3	54·7	56·1	50·7
5	54·5	46·2	53·2	53·8	51·8	50·1	51·8	52·5	51·7	49·8
6	68·9	49·1	58·5	65·8	61·8	54·3	53·6	57·4	55·4	52·7
7	55·9	47·0	48·1	50·8	53·8	48·3	47·8	49·9	51·2	46·8
8	68·0	45·3	52·4	63·4	66·8	50·1	49·0	56·1	58·4	48·7
9	67·7	43·2	55·1	63·5	65·7	53·4	49·9	53·9	53·9	47·3
10	55·5	41·0	48·5	52·1	51·5	49·9	45·1	47·8	47·8	48·1
11	63·1	39·5	44·3	54·3	62·6	52·4	44·1	51·5	56·6	49·7
12	60·8	46·2	53·6	48·4	58·9	50·8	49·4	45·8	50·7	46·3
13	60·0	45·1	49·6	55·8	56·6	48·4	49·0	53·5	51·9	47·6
14	63·7	43·1	51·1	57·4	60·8	51·9	48·8	53·3	53·5	50·6
15	68·7	51·0	57·6	64·7	65·7	53·6	54·9	59·9	58·8	51·3
16	76·5	48·2	68·5	74·5	74·7	58·7	59·9	62·3	61·5	55·8
17	78·9	50·2	69·6	76·5	65·3	60·2	62·8	65·7	62·8	58·0
18	76·8	54·4	66·4	71·5	75·5	58·1	60·9	63·0	65·5	54·7
19	73·0	48·9	66·6	71·7	71·6	56·7	60·2	62·8	61·4	52·3
20	74·0	47·4	66·1	71·8	73·6	53·6	59·1	60·7	59·6	51·6
21	83·0	47·1	71·9	80·8	82·0	58·9	63·8	66·8	65·6	55·1
22	79·7	51·1	74·7	79·2	77·6	60·5	62·8	64·5	60·8	59·0
23	66·7	49·1	62·2	61·1	57·9	50·2	59·7	54·8	48·8	48·0
24	59·9	48·2	51·5	54·7	58·6	58·4	47·7	49·8	53·1	53·2
25	71·0	54·6	58·6	64·4	67·9	57·4	54·6	58·5	58·5	53·8
26	61·7	53·1	54·6	55·4	59·5	53·9	54·1	53·0	54·0	50·7
27	68·0	47·5	59·6	64·1	63·0	47·8	50·9	53·7	53·6	44·6
28	67·9	41·2	58·5	62·9	63·2	53·7	53·9	55·8	55·3	49·3
29	67·2	46·9	52·8	61·7	65·7	48·7	49·8	52·7	53·9	47·6
30	74·7	40·4	64·2	69·4	73·0	57·4	54·7	58·8	58·9	54·0
31	71·9	46·1	66·3	70·4	70·5	54·5	58·3	60·7	60·9	51·7
Means	66·7	46·6	57·6	62·5	63·8	52·9	53·1	55·6	55·6	50·3

JUNE.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	77·9	47·2	66·7	74·6	77·3	59·1	58·7	62·9	64·7	56·1
2	79·7	46·9	68·1	72·6	78·5	67·7	58·7	60·9	61·8	59·6
3	69·0	51·0	63·6	64·1	63·6	51·6	57·0	57·0	55·8	49·6
4	66·1	43·9	55·5	59·8	59·5	54·7	49·6	52·4	52·7	51·3
5	67·2	44·7	57·9	61·2	64·5	50·8	52·9	52·0	53·8	46·7
6	72·9	38·1	64·5	69·5	67·7	56·5	53·7	55·6	56·7	48·2
7	65·2	44·4	60·6	62·8	60·5	56·4	50·5	54·7	56·0	55·0
8	71·1	48·1	60·8	67·0	68·2	56·6	53·5	55·1	54·9	53·2
9	69·1	46·6	62·6	68·5	56·9	52·1	54·1	58·0	52·8	46·7
10	67·2	47·0	53·4	63·5	63·8	54·8	48·8	53·5	53·6	51·5
11	73·8	50·1	61·5	70·1	70·0	57·9	56·3	58·5	59·0	55·5
12	71·6	50·8	59·9	65·7	67·2	60·8	53·8	56·9	57·0	54·7
13	74·0	52·6	63·0	66·6	69·5	60·5	57·9	59·8	61·8	56·3
14	68·5	52·4	61·8	62·7	59·8	53·0	56·6	56·9	58·6	51·6
15	64·9	44·6	54·1	56·2	62·8	50·6	47·5	47·7	50·9	44·9
16	62·8	41·6	57·7	57·0	52·8	46·6	49·9	48·9	49·6	43·9
17	64·4	37·1	59·3	57·0	60·7	51·0	51·9	50·8	52·6	49·6
18	61·9	44·1	59·1	58·0	58·7	50·8	51·5	49·9	50·6	49·9
19	68·8	50·4	58·8	62·6	57·4	57·5	54·7	56·6	55·0	55·3
20	72·9	53·8	64·6	67·2	59·8	57·5	57·0	57·5	56·0	56·0
21	71·9	54·4	61·3	66·6	62·5	59·8	53·4	53·8	55·9	57·2
22	68·0	51·8	60·2	63·7	64·8	54·6	52·9	52·0	52·3	46·6
23	67·4	45·0	54·6	59·6	64·6	54·4	48·0	49·5	52·6	47·3
24	64·2	45·9	53·8	51·7	60·0	49·4	50·8	50·7	50·2	46·7
25	67·2	40·0	56·7	61·4	65·7	48·1	51·4	52·0	53·7	46·6
26	66·5	43·0	55·6	59·9	62·6	56·4	48·5	51·6	52·9	51·7
27	70·0	47·0	57·4	65·2	67·3	62·2	51·0	55·2	57·4	54·8
28	72·1	52·2	59·6	63·1	69·2	60·4	55·0	56·8	59·2	56·1
29	72·5	51·9	60·1	67·7	67·5	52·6	55·5	58·9	57·8	50·9
30	79·1	44·0	68·6	74·4	75·1	60·8	57·9	61·4	62·3	56·6
Means	69·6	47·0	60·0	64·0	64·6	55·5	53·3	54·9	55·6	51·7

JULY.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	82·0	50·7	68·8	76·2	77·4	60·9	62·5	64·8	64·4	58·8
2	68·6	54·8	64·3	65·2	66·2	57·3	57·7	59·8	59·6	52·5
3	70·4	47·6	58·8	65·8	69·0	56·9	52·7	55·6	57·7	51·9
4	76·9	47·3	61·6	71·8	76·1	60·6	54·8	59·0	59·4	55·1
5	76·8	58·8	66·1	69·7	73·0	64·4	57·5	58·9	58·9	51·9
6	73·5	57·4	61·1	66·1	71·2	60·7	55·2	56·9	59·8	55·7
7	78·5	54·7	64·7	69·1	74·5	61·7	59·3	58·9	61·9	58·0
8	81·5	52·2	74·4	74·6	79·6	63·6	62·9	63·0	63·8	57·0
9	73·1	54·3	63·7	68·7	66·5	55·0	54·0	56·8	55·7	49·9
10	66·3	48·7	56·8	61·2	59·4	50·5	54·6	54·1	55·7	48·8
11	60·1	48·1	54·3	56·2	54·6	54·6	53·7	55·0	53·7	53·3
12	66·9	51·9	61·0	64·4	55·1	54·7	58·0	56·9	53·7	52·4
13	72·0	50·2	63·8	68·3	66·1	57·6	57·9	59·6	60·4	54·3
14	68·9	47·5	57·2	59·6	63·6	62·2	56·4	58·3	61·8	59·9
15	76·1	56·9	62·6	68·6	73·6	63·9	60·2	62·8	66·7	61·9
16	80·4	59·8	71·4	75·8	71·0	64·2	65·9	67·8	65·7	60·8
17	76·5	56·1	66·2	72·1	71·1	59·9	63·3	66·6	66·7	58·8
18	71·0	57·4	62·5	67·1	68·6	58·6	59·1	60·3	61·1	55·6
19	67·9	54·9	65·8	62·3	61·7	61·9	61·5	61·6	61·2	60·9
20	72·9	57·5	72·6	63·8	61·4	61·3	67·2	62·9	59·8	59·8
21	73·8	56·9	62·6	62·7	70·3	60·3	55·1	55·5	58·3	57·0
22	68·1	54·2	64·4	64·0	64·8	57·5	58·6	58·7	58·9	55·8
23	71·1	56·4	59·6	62·2	66·9	61·7	59·3	60·8	64·7	58·6
24	74·1	53·4	65·5	68·4	61·6	56·1	58·3	61·8	58·8	54·7
25	70·2	53·1	63·6	66·6	59·7	55·6	56·9	58·3	57·5	53·4
26	66·0	53·0	61·1	60·6	57·6	54·5	56·2	56·2	56·6	53·1
27	67·1	53·6	58·2	63·5	61·4	56·4	54·7	56·6	54·8	53·9
28	70·9	47·2	61·4	64·6	67·7	58·9	56·7	57·8	59·2	57·6
29	77·9	51·7	70·4	72·2	75·6	63·1	62·6	61·7	63·9	60·8
30	76·4	52·9	69·6	70·2	74·4	61·3	62·0	63·2	64·8	59·7
31	74·3	51·9	64·5	72·9	73·9	59·5	60·9	65·1	65·1	57·8
Means	72·6	53·3	63·8	66·9	67·5	59·2	58·6	59·8	60·3	56·1

AUGUST.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	76·1	53·0	67·1	74·2	70·7	61·5	62·4	65·9	62·9	58·4
2	66·0	58·8	62·6	61·4	63·8	58·8	59·7	60·0	61·3	57·9
3	68·1	52·2	59·1	64·8	63·4	59·0	58·6	59·8	59·2	57·6
4	74·8	53·9	64·0	69·6	72·6	63·4	60·0	61·0	63·3	60·6
5	72·0	57·0	61·5	66·0	66·9	61·2	60·2	61·7	62·1	60·0
6	68·1	53·1	59·3	61·9	65·9	58·2	53·6	55·6	57·8	54·8
7	71·8	53·3	60·8	66·1	68·6	60·6	58·8	60·8	62·3	59·1
8	71·0	54·4	63·4	68·5	67·1	59·7	61·5	59·9	58·0	55·6
9	70·2	51·5	62·2	65·2	66·4	60·8	56·0	56·8	57·4	55·3
10	72·8	48·0	64·8	69·1	71·6	60·6	58·8	60·6	63·5	57·9
11	77·2	49·5	63·0	73·6	76·1	62·5	58·5	63·3	65·2	59·1
12	77·8	54·2	66·9	74·6	73·5	68·1	61·1	63·0	62·7	62·2
13	75·1	53·8	66·6	68·9	70·6	60·2	59·7	58·9	59·6	57·0
14	78·0	52·0	69·4	75·2	75·8	63·6	60·5	63·3	64·5	59·6
15	74·1	55·1	65·7	70·6	72·7	57·6	58·7	59·6	60·7	54·6
16	77·1	47·9	63·6	71·4	73·4	64·6	56·7	61·0	60·9	56·6
17	70·0	54·3	61·1	59·8	65·3	60·5	56·9	58·5	59·6	59·2
18	73·1	59·0	68·3	67·7	69·1	60·5	61·7	59·3	58·9	53·8
19	72·9	52·0	61·6	70·6	67·6	63·0	55·9	59·9	61·3	62·0
20	79·5	58·7	64·7	70·2	77·7	65·1	62·4	65·0	68·9	63·6
21	84·1	60·1	65·5	79·2	82·6	67·3	62·8	69·8	71·8	64·4
22	89·8	63·2	77·9	87·1	88·2	70·0	68·8	72·8	73·1	63·6
23	69·9	55·9	63·4	67·8	66·3	56·5	56·6	58·0	57·9	54·6
24	74·1	51·6	61·8	70·6	69·9	59·0	54·9	59·7	58·1	55·4
25	69·8	46·2	64·7	68·1	63·7	56·2	59·3	59·2	56·1	55·2
26	65·9	54·6	59·3	58·6	61·9	58·5	56·7	56·8	58·9	54·7
27	64·1	49·2	59·4	62·2	60·7	56·9	55·6	57·9	57·6	56·3
28	65·9	56·1	58·5	60·6	62·9	56·4	57·8	57·3	57·6	53·4
29	67·6	53·0	58·6	64·9	64·3	60·4	52·7	56·8	56·2	55·6
30	68·9	47·1	55·1	62·0	65·0	60·7	51·9	55·7	58·7	58·2
31	66·9	55·1	59·1	61·6	61·8	55·1	52·3	52·8	53·7	50·8
Means	72·7	53·7	63·2	68·1	69·2	60·9	58·4	60·3	61·0	57·6

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE—*concluded.*

(The readings of the maximum and minimum thermometers apply to the twenty-four hours ending 21h)

SEPTEMBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	64·7	47·1	54·0	59·1	62·5	52·6	47·8	50·0	50·7	48·7
2	65·8	48·1	58·5	60·1	62·9	54·6	52·8	52·3	53·8	50·1
3	70·6	46·4	58·6	64·5	68·2	55·6	53·2	54·7	56·1	50·3
4	68·2	51·6	58·4	65·6	66·8	58·7	55·7	60·3	58·0	56·1
5	67·9	57·0	60·7	64·0	61·6	57·8	59·0	60·9	58·8	57·6
6	72·0	56·9	59·9	71·3	69·8	59·6	59·5	64·9	64·7	58·8
7	72·5	55·9	63·5	65·4	69·6	60·6	61·6	61·2	62·8	58·9
8	66·4	51·3	59·3	61·2	61·4	51·3	57·7	59·3	54·8	47·6
9	66·3	46·9	58·6	64·4	62·3	56·1	52·9	54·9	54·7	55·3
10	63·4	52·0	58·3	60·7	59·9	52·4	52·3	52·4	52·6	47·5
11	64·0	46·5	56·6	60·1	61·9	53·1	52·7	51·6	53·7	48·9
12	63·9	49·0	54·8	58·6	58·4	52·8	50·0	51·9	51·9	50·0
13	64·8	49·3	55·6	58·6	59·7	55·2	50·5	50·6	52·3	51·3
14	63·0	51·6	56·6	59·4	62·5	61·2	55·5	58·5	60·1	59·7
15	71·2	53·6	61·9	64·8	66·3	53·8	61·0	61·7	61·8	53·6
16	68·8	50·0	64·6	64·7	66·6	61·5	60·8	62·2	63·1	60·7
17	71·5	59·2	64·6	69·9	69·6	60·7	60·4	62·9	61·6	57·9
18	70·5	56·1	64·2	65·3	66·6	59·2	59·2	60·7	61·3	58·8
19	63·0	50·8	53·3	59·7	57·8	50·8	48·9	50·3	50·9	47·0
20	63·2	44·8	54·7	50·6	58·9	53·7	49·0	52·3	50·8	49·7
21	65·2	49·3	57·6	63·4	60·5	57·4	53·1	56·6	53·4	53·7
22	58·4	49·6	54·9	57·0	56·6	49·6	53·7	52·7	52·8	48·6
23	62·5	48·1	54·5	56·8	56·5	50·1	50·1	51·4	51·1	46·8
24	63·2	42·2	54·5	58·8	60·0	53·4	51·0	52·8	52·8	51·9
25	62·2	49·5	56·6	60·6	59·6	49·6	50·2	51·8	50·7	47·1
26	62·5	45·2	56·3	58·6	59·6	58·2	50·9	53·3	55·2	56·6
27	61·3	46·5	53·8	60·4	57·2	49·9	49·3	51·3	50·0	45·7
28	58·7	43·9	52·1	57·4	57·0	44·3	47·1	47·9	46·8	40·2
29	50·2	38·2	48·5	47·6	44·0	47·6	45·3	45·3	42·9	47·3
30	51·0	41·6	43·2	48·3	48·7	44·0	41·4	44·7	44·6	41·4
Means	64·6	49·3	57·0	60·9	61·1	54·2	53·1	54·7	54·5	51·6

OCTOBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	56·2	33·8	44·3	52·4	54·3	45·9	41·3	46·2	46·7	43·2
2	55·7	40·1	51·1	52·7	54·1	52·0	47·9	50·6	51·3	50·0
3	61·0	49·6	55·1	57·4	59·2	50·2	51·4	51·4	52·3	48·0
4	58·5	42·4	51·9	56·6	56·2	42·5	46·9	48·6	47·4	40·6
5	56·9	37·5	52·9	55·9	55·5	54·4	49·3	52·9	53·7	51·7
6	64·2	50·4	57·4	62·8	62·4	50·6	55·6	54·3	52·4	46·3
7	58·3	46·7	52·8	51·2	56·2	47·2	51·6	48·7	50·9	42·8
8	56·1	38·9	46·8	52·1	52·1	43·1	43·6	46·6	44·9	40·9
9	57·3	37·9	47·7	51·8	52·8	57·2	46·1	49·8	51·7	56·7
10	63·5	56·2	60·1	61·6	60·6	58·6	57·1	57·6	58·7	57·0
11	63·1	50·3	59·2	61·6	56·5	50·6	57·8	58·7	54·9	50·0
12	51·6	48·0	50·1	50·7	50·1	48·2	47·7	47·7	48·1	46·2
13	53·8	38·5	48·1	52·7	51·5	39·9	44·8	45·9	44·7	39·3
14	56·8	34·9	49·3	54·6	53·0	48·6	46·1	49·3	48·3	48·2
15	54·7	49·1	49·9	52·0	54·0	49·5	48·4	49·8	49·8	47·5
16	52·4	39·5	48·1	51·3	50·6	48·6	46·6	47·2	46·7	45·9
17	54·1	38·4	47·2	52·5	51·8	39·4	45·4	46·7	46·0	39·0
18	50·1	30·8	37·2	47·3	49·3	43·5	36·7	45·6	46·1	42·8
19	55·8	39·9	47·6	52·6	54·0	49·6	46·8	49·5	49·9	47·7
20	53·5	48·4	52·8	53·1	52·6	52·5	51·8	51·6	51·5	51·6
21	54·2	49·3	52·5	53·4	52·9	49·5	50·7	50·8	50·8	48·9
22	61·0	43·9	55·6	59·8	57·5	44·8	54·2	55·0	53·5	44·8
23	58·0	39·0	44·6	56·4	56·6	47·5	44·6	51·4	51·3	46·8
24	53·0	40·1	44·2	51·5	51·4	40·5	43·4	47·7	47·6	39·9
25	51·2	37·4	45·1	49·6	50·4	50·1	43·2	46·7	47·6	48·3
26	51·6	37·0	45·2	50·8	49·4	37·5	43·6	44·5	44·0	37·0
27	59·5	36·0	51·4	57·6	57·8	52·9	50·6	53·8	54·6	51·9
28	57·8	50·2	54·3	56·4	56·9	54·2	52·6	53·3	54·4	52·4
29	57·9	49·9	53·0	56·5	56·9	50·5	50·7	52·5	53·5	50·3
30	60·6	46·0	51·4	59·6	53·2	51·1	49·8	51·6	49·4	48·9
31	58·7	50·3	53·5	57·2	54·3	54·8	51·3	53·7	52·9	53·7
Means	56·7	42·9	50·3	54·6	54·3	48·6	48·3	50·3	50·2	47·0

NOVEMBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	57·4	50·1	53·8	55·5	55·8	53·1	52·5	53·6	52·7	50·9
2	58·5	46·5	56·6	56·7	54·6	47·3	52·9	51·4	49·7	45·1
3	47·3	40·3	45·8	45·5	43·6	40·8	44·9	44·7	42·9	39·8
4	54·5	35·7	46·1	53·2	48·8	51·5	44·2	48·7	46·8	50·6
5	55·1	46·1	51·2	51·0	51·1	46·5	47·6	47·8	47·6	45·1
6	47·1	41·1	44·2	46·8	45·9	42·8	42·7	42·8	42·2	40·9
7	50·5	36·2	38·2	42·6	49·5	38·1	37·2	40·8	45·4	36·8
8	49·6	36·9	48·7	46·1	47·7	39·7	47·7	44·1	42·8	36·8
9	51·8	29·8	40·4	50·5	50·4	41·6	35·0	44·6	44·6	40·3
10	54·0	38·7	47·1	53·1	51·7	50·2	45·7	48·8	47·7	47·3
11	54·4	44·9	50·7	52·5	52·5	45·6	49·2	50·7	51·6	45·0
12	49·5	34·7	39·2	48·5	46·9	41·6	37·6	44·3	43·7	38·8
13	49·2	31·3	38·2	48·0	46·8	38·3	37·7	44·3	43·7	36·9
14	49·8	29·6	32·6	47·3	46·2	37·2	31·8	44·0	42·6	36·8
15	48·9	34·7	41·0	47·8	46·1	40·6	39·3	43·4	42·3	38·6
16	43·8	33·0	37·7	42·5	41·1	39·4	35·7	39·5	38·3	36·8
17	41·0	35·4	38·2	40·5	39·9	38·6	35·8	37·0	37·4	35·8
18	43·5	37·8	39·4	42·7	42·7	37·8	37·9	39·8	39·7	35·8
19	42·1	34·8	38·4	40·9	40·5	38·6	37·2	40·0	39·6	38·5
20	38·8	31·1	31·5	36·4	37·0	37·7	31·5	36·4	37·0	37·7
21	45·9	33·3	35·3	43·6	43·3	34·8	35·3	40·8	39·8	34·4
22	46·1	29·4	37·3	45·0	44·2	35·4	36·7	42·2	41·8	35·0
23	52·0	34·0	40·6	51·4	49·0	43·5	40·0	47·8	46·7	43·4
24	52·7	43·1	47·4	50·1	50·2	47·4	46·8	49·0	48·7	46·8
25	48·9	44·4	45·6	48·6	47·2	44·7	44·9	46·8	45·8	44·2
26	47·2	32·0	36·4	44·6	46·6	47·1	36·3	43·7	45·9	47·0
27	50·2	39·9	41·6	47·1	47·4	41·3	41·0	45·6	45·4	39·8
28	51·6	39·1	45·4	49·6	51·5	51·4	44·8	49·0	50·7	50·8
29	51·8	45·2	47·1	50·5	51·5	46·4	47·0	49·8	50·7	45·0
30	46·4	33·5	40·7	44·2	43·6	35·4	40·1	42·3	41·7	34·8
Means	49·3	37·4	42·5	47·4	47·1	42·5	41·2	44·8	44·5	41·2

DECEMBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	50·0	33·0	44·5	46·5	48·8	50·0	43·3	46·0	48·1	49·7
2	54·4	49·4	52·7	52·7	52·8	52·6	49·6	51·0	51·6	51·3
3	59·5	48·1	55·0	58·6	56·5	49·0	53·8	55·2	53·8	48·8
4	55·4	48·4	55·0	53·7	52·5	50·7	54·0	50·9	49·7	50·7
5	52·9	50·2	51·3	51·7	52·5	51·8	49·6	50·8	51·3	50·2
6	51·5	47·5	48·4	48·5	48·5	49·6	48·0	48·0	47·7	48·8
7	51·5	40·7	44·4	47·3	47·9	41·0	44·0	46·4	45·7	41·0
8	50·1	40·0	47·1	49·6	49·1	49·1	46·5	48·7	48·9	48·9
9	50·1	39·2	40·2	48·5	47·7	49·1	39·9	45·8	45·9	47·6
10	51·3	42·1	48·9	50·8	48·6	42·2	48·4	49·4	46·5	40·8
11	51·1	40·3	48·7	50·5	49·8	47·4	48·0	48·6	48·8	46·3
12	56·9	45·9	53·7	55·6	55·7	50·4	53·0	54·0	53·0	48·3
13	58·2	50·1	56·6	57·4	56·4	55·3	54·6	54·6	53·9	53·5
14	55·5	48·1	54·6	53·2	51·2	48·1	53·8	52·7	50·8	47·9
15	53·2	47·6	51·5	53·0	52·5	51·6	51·3	51·0	50·8	49·0
16	51·9	42·3	46·9	45·4	45·8	42·6	43·7	42·8	42·0	40·3
17	43·9	34·3	41·7	43·5	42·0	37·9	39·8	40·4	39·0	36·8
18	48·5	37·4	43·5	46·2	47·8	41·9	40·8	44·3	44·8	40·5
19	45·0	38·0	38·0	42·2	42·5	43·7	35·6	38·4	39·6	39·0
20	43·6	34·8	36·7	39·9	40·5	41·1	36·1	38·3	38·6	39·0
21	41·1	34·2	34·2	39·0	39·1	38·5	33·2	36·7	37·1	36·9
22	53·8	38·0	40·3	41·1	43·6	51·8	39·7	40·7	43·3	48·1
23	51·9	37·5	45·7	42·2	42·9	37·8	42·9	41·8	36·7	34·8
24	39·7	32·1	34·9	37·9	39·7	35·3	33·7	35·9	37·2	35·0
25	39·6	29·4	32·1	37·6	39·4	36·5	30·9	35·1	36·6	34·8
26	38·8	28·5	29·1	36·5	37·7	37·7	28·3	34·0	35·2	35·7
27	52·0	37·6	48·8	52·0	51·6	45·0	48·3	51·0	50·0	43·3
28	53·5	44·2	52·6	53·3	53·5	50·1	50·7	51·1	51·0	49·8
29	55·0	45·1	53·5	54·6	54·9	45·2	51·8	52·2	51·0	43·0
30	48·1	41·6	44·1	47·1	46·7	42·7	41·4	43·6	42·7	41·7
31	43·2	38·1	41·4	40·6	41·7	38·3	40·8	39·4	40·0	36·8
Means	50·0	40·8	45·7	47·6	47·7	45·3	44·4	45·8	45·5	43·8

AMOUNT of RAIN COLLECTED in each MONTH of the YEAR 1918.

Gauges partly sunk in the Ground in the Magnetic Pavilion Enclosure.	Number of Gauge.	Monthly Amount of Rain collected in each Gauge.												Height of Receiving Surface.	
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Sums.	Above the Ground.	Above Mean Sea Level.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
	6	2·715	0·983	0·969	2·846	1·907	0·735	7·341	1·049	4·482	1·333	1·987	2·010	28·357	0 5	149 6
	8	2·764	0·993	0·958	2·803	1·910	0·700	7·391	1·020	4·470	1·300	1·981	1·999	28·289	1 0	150 1
Number of Rainy Days ($0^{in}.005$ or over).	..	17	13	8	19	12	11	17	11	24	17	11	22	182	..	..

MEAN HOURLY MEASURES of the HORIZONTAL MOVEMENT of the AIR in each MONTH, and GREATEST HOURLY MEASURES as derived from the RECORDS of ROBINSON'S ANEMOMETER.

Hour ending.	1918.												Mean for the Year.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
h	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.
1	13·4	13·9	10·8	10·7	7·5	8·5	10·1	9·1	12·7	9·4	8·7	14·4	10·8
2	14·0	14·0	10·8	10·4	7·7	8·1	9·7	8·6	12·9	9·6	9·0	15·3	10·8
3	14·4	14·4	11·3	11·0	8·1	8·8	9·4	8·6	12·1	8·9	9·0	14·4	10·9
4	13·9	14·1	11·1	11·1	7·2	7·9	9·0	8·2	11·7	8·9	8·4	15·1	10·6
5	13·5	14·3	11·0	11·2	7·3	7·8	8·8	8·0	12·1	9·1	8·5	16·1	10·6
6	12·5	13·7	11·4	11·2	7·7	7·6	9·3	7·9	12·0	8·9	8·7	16·1	10·6
7	13·0	13·5	12·0	12·0	8·7	9·2	10·0	8·9	12·3	9·8	8·8	16·5	11·2
8	13·0	13·5	12·7	12·4	8·9	10·2	10·8	9·1	14·2	10·3	8·1	16·5	11·6
9	12·6	14·3	12·8	12·6	10·0	11·0	11·1	9·0	14·6	11·5	8·7	15·8	12·0
10	12·6	15·3	13·0	12·7	10·3	10·3	11·6	9·3	15·5	11·6	9·1	15·9	12·3
11	13·0	15·1	12·7	12·3	10·4	11·2	12·3	9·7	15·9	13·1	9·4	15·2	12·5
Noon	13·2	14·1	12·9	12·0	11·0	11·5	12·1	10·3	16·2	13·2	9·4	15·5	12·6
13h	13·8	15·5	13·6	13·7	10·5	11·3	13·1	11·8	19·1	11·9	9·9	16·7	13·4
14	14·0	16·9	14·9	14·2	11·0	11·8	13·0	11·7	18·7	12·7	11·5	17·0	13·9
15	14·0	16·2	15·9	13·9	11·4	12·3	12·7	11·9	18·5	12·4	11·6	16·0	13·9
16	13·4	15·4	14·9	13·6	11·7	12·4	12·4	11·4	19·4	11·7	10·3	15·3	13·5
17	12·5	15·7	13·7	14·5	11·4	12·0	12·7	11·8	18·2	10·7	10·5	16·1	13·3
18	12·6	14·9	13·7	13·6	11·1	12·8	11·6	11·8	16·8	10·9	10·1	16·1	13·0
19	12·3	14·3	12·1	11·7	9·4	11·1	10·5	10·7	14·1	10·1	9·2	15·1	11·7
20	12·5	14·4	11·4	11·8	9·5	11·1	10·4	9·9	13·1	10·2	9·5	15·5	11·6
21	14·5	14·9	11·0	12·6	9·3	10·0	10·5	10·4	14·1	10·4	10·1	15·1	11·9
22	14·9	15·1	10·7	11·4	8·0	9·3	9·4	10·0	14·2	10·0	9·1	14·7	11·4
23	13·8	14·6	10·6	10·9	7·6	8·8	9·5	9·3	13·2	9·7	8·2	13·7	10·8
Midnight	14·0	14·7	10·5	10·2	7·8	8·7	9·1	9·2	13·3	9·5	8·8	13·6	10·8
Means	13·4	14·7	12·3	12·2	9·3	10·2	10·8	9·9	14·8	10·6	9·4	15·5	11·9
Greatest Hourly Measures (1)	37	39	35	31	37	34	34	28	33	33	38	37	..
Greatest Hourly Measures (2)	29	30	27	25	29	27	27	23	26	26	29	29	..

(1) Deduced from the motion of the cups by the formula $V = 3v$;
(2) " " " " " " " " $V = 2v + 4$;
where v is the hourly motion of the cups in miles. See Introduction.