RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

IN THE YEAR

1914

UNDER THE DIRECTION OF

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ASTRONOMER ROYAL.

PUBLISHED BY ORDER OF THE BOARD OF ADMIRALTY, IN OBEDIENCE TO
HIS MAJESTY'S COMMAND.

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GREENWICH MAGNETICAL AND METEOROLOGICAL OBSERVATIONS,

1914.

INTRODUCTION.

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

§ 1. *Personal Establishment and Arrangements.*

During the year 1914 the personal establishment in the Magnetical and Meteorological Department of the Royal Observatory consisted of Walter William Bryant, Superintendent, aided by one Junior Assistant, David J. R. Edney, and four Computers. The Computers employed during the year were :—William H. Timbury, Sydney T. Divers, Harold George Showell, Harry Joseph Mitchell, Ralph Walden, Alfred W. Hills, and Edward Leary.

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

The buildings and instruments remained substantially unchanged throughout the year 1914, except for the adoption of the dip inductor as the standard dip instrument, in place of the Airy dip circle. For detailed historical information, reference should be made to the Introductions to earlier volumes of these observations.

The instruments for photographic registration of changes in the atmospheric pressure, magnetic declination, and horizontal and vertical magnetic force, are situated in an underground chamber (known as the Magnet Basement); this

chamber is kept at a nearly uniform temperature by means of gas stoves. The small variations of temperature are recorded on a Richard thermograph.

In a wooden building (called the Magnet House) above this chamber are placed the standard barometer, and a Thomson electrometer for photographic registration of the variations of atmospheric electricity. A platform erected above the roof of the Magnet House is used for the observation of meteors ; and a nephoscope is mounted there for occasional observations. On the same platform there is a rain-gauge, at a height of 20 feet above the ground.

Near the Magnet House are the earth thermometers, the photographic dry and wet-bulb thermometer apparatus, a rain-gauge, and a set of dry-bulb, wet-bulb, and maximum and minimum thermometers in a Stevenson screen.

The Magnet House is built of non-magnetic material, but during the years 1891–1898 considerable masses of iron were introduced into its neighbourhood by the building of certain additions to the Observatory. Hence the instruments which were formerly placed in the Magnet House, for absolute determinations of magnetic declination, dip, and horizontal force, were transferred to the Magnetic Pavilion. This building 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).

The new Magnetograph House, which was under construction in 1913, and which is situated in the Magnetic Enclosure, has been brought to completion during 1914. Progress has also been made with the instrumental equipment, but this was not ready for regular working until after the close of the year. This building and its instruments are to replace the present Magnet House and the old Magnetographs.

§ 3. *Subjects of Observation in the year* 1914.

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 ; observations of some of the principal meteor showers ; 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 50).

§ 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 $100^{r}·300$ until February 5, when it became necessary to insert a new wire, for which the adopted reading was $100^{r}·140$.

The vertical axis of the telescope is adjusted by means of a fixed level, one division of which corresponds to 1"·15. The level correction for inequality of the pivots of the axis of the telescope was found in 1898 to be $—6^{div.}·0$ or $—6"·9$.

Since 1913 September the magnet has been suspended by a tungsten fibre 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 determined monthly, and a correction on this account is made when necessary. The collimation error is also determined monthly. This is done by

observing the position of the magnet in its usual position with the scale direct, then with the scale reversed (by turning the magnet through 180° in its carrier, about the longitudinal axis), and again direct.

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 1914.

DIP INSTRUMENT.—The standard dip instrument in use until the beginning of 1914 was the Airy dip circle, described in detail in the 1912 volume. Dip observations were made with this twelve times in January, and weekly for the rest of the year. Two needles, D_1 and D_2, were used, which gave results differing somewhat systematically by about $1'\cdot5$.

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.

During 1914 certain of the instrumental constants were re-determined at the National Physical Laboratory, confirming the values previously used.

Observations undertaken at the Royal Observatory to determine the moment of inertia of the deflecting magnet indicated that the adopted value hitherto used was too small, thus agreeing with a former determination made in 1878 (but never used). On p. E xii, corrected mean annual absolute values of horizontal force are given instead of those published previously to 1913; the correction amounts approximately to multiplication by a factor $1\cdot0010$ (the values of the magnetic moment of the magnet also require the same correction factor), or to an increase of $18\ \gamma$ in the horizontal force.

Observations of the absolute horizontal magnetic force are made weekly. Before 1912 February they were made twice monthly. Observations of the moment of inertia of the deflecting magnet are made monthly.

DIP INDUCTOR.—The dip inductor consists essentially of a coil of copper wire which can be rotated about an axis in its plane. The ends of the coil are

connected to two brushes which press upon a fixed commutator disc. The electromotive force which arises, in general, upon rotation of the coil, is detected by means of a Broca mirror galvanometer with electric light and scale. This force vanishes only when the axis of rotation lies along the direction of the magnetic field in which the instrument is situated. The spindle of the coil is journalled in a ring which can be moved in azimuth and inclination, and the observation consists in adjusting the direction of this ring and spindle until no electromotive force is indicated by the galvanometer.

The observation is made in four positions; after the first adjustment and circle readings have been made, the ring is reversed about a horizontal axis perpendicular to the spindle, and a second adjustment and readings are made: the instrument is then reversed in azimuth, and two similar observations are taken in the new position of the base. The two sets of double readings determine the magnetic dip and the circle reading corresponding to the vertical position of the spindle, after the application of corrections for level. For the latter purpose two levels are provided, resting on the base of the instrument, parallel and perpendicular to the horizontal axis of the ring. The two reversals eliminate any small errors arising from slight asymmetry in the instrument.

The two circles, for the measurement of inclination and azimuth, are each eight inches in diameter, and are read, by means of two screw micrometers in each case, to one second of arc. The levels on the base can likewise be read to one second.

The driving gear is constructed so that the coil can be rotated by the observer while standing at a distance of six feet from the instrument. In order to minimise strain on the instrument, the tension of the driving cords upon the pulley attached to the coil spindle is exactly balanced by the thrust of a rod against a small knob at the centre of the upper plane surface of the pulley. The spindle has a driving pulley at each end, for use in the direct and reversed positions.

While rotating the coil the observer can also adjust the inclination and azimuth of the spindle; this is done by means of long rods, suitably supported, which, through the agency of flexible spiral-wire couplings, actuate the slow motions on the instrument. The galvanometer, lamp, and scale are enclosed in a wooden cupboard adjacent to the driving handle and slow motion rods. The scale is viewed through a conical tube projecting from this cupboard, so that the observation may be made in daylight. The coil is rotated and the spindle is

simultaneously adjusted until the spot of light comes to rest in its normal position, after which the circles and levels are read.

The adjustment of the spindle is facilitated by the novel form of the commutator in this instrument. The fixed commutator disc is divided into four instead of two parts, and it is oriented so that two of the quadrants are in use during the two quarter-revolutions which are symmetrical about the meridianal positions of the coil. During these fractions of the revolution the electromotive force due to an azimuth error of the spindle is much greater than that due to a similar error in inclination (the latter force, moreover, is not of constant sign). During the remaining half of the revolution the reverse is the case. The two pairs of quadrants are connected to a switchboard near the driving handle, and the galvanometer can be switched into either circuit, thus receiving a rapidly intermittent current of generally constant sign during the rotation of the coil. This renders it possible to correct successively the inclination and azimuth errors of the spindle, and conduces to the speed and accuracy of the observations. The driving cord, thrust rod, and slow motion couplings can be quickly detached for the various reversals of the spindle, and the whole observation of dip and azimuth can be made in ten minutes.

The dip inductor has been adopted as the standard dip instrument from the beginning of 1914, and observations have generally been made thrice weekly since that time.

DECLINATION VARIOMETER.—The magnet used in this instrument is 2 feet long, $1\frac{1}{2}$ inches wide, and $\frac{1}{4}$ inch thick. It is suspended by a skein of silk, consisting of a bundle of fine threads bound together at intervals of 6 or 7 inches : the skein is about 12 feet long, 6 feet of which is vertical. The magnet is taken from its carrier at the beginning of each year, in order to remove any torsion which may have accumulated ; this is done by stretching the skein under the weight of a brass torsion rod for a few hours, adjusting the torsion circle till the bar rests in the magnetic meridian. The magnet is enclosed in a double wooden box, and is encircled by a copper damper to reduce accidental vibrations.

The drum for photographic registration revolves normally in 26 hours ; by a change-speed device the rate of rotation can be increased twelvefold when required. The photographic sheets are changed daily at 11 a.m. Gas-light illumination is used. On each sheet a reference line is photographed by a fixed spot of light. The traces are interrupted automatically for 4 minutes at every hour, to afford a time scale. By another shutter the observer occasionally cuts

off the light for a few minutes, noting the time ; this facilitates the numeration of the hourly breaks. The length of 24 hours on the sheet is about 13·3 inches.

The distance between the concave speculum mirror carried by the magnet, and the surface of the cylinder, is 134·4 inches. Since a movement of the mirror through 1° produces 2° of motion in the reflected ray, a change of 1° in declination corresponds to 119·15 mm. [0′·5 of arc per mm.] on the photographic paper. A card-board strip, graduated on this scale to degrees and minutes, is prepared for reading from the sheets.

The base line value for this magnet is adopted monthly from the absolute declination observations made in the Magnetic Pavilion.

HORIZONTAL FORCE VARIOMETER.—The magnet used in this instrument is 2 feet long, $1\frac{1}{2}$ inches broad, and about $\frac{1}{4}$ inch thick; it is enclosed in a double wooden box. The bifilar suspension consists of a silk skein passing under two small pulleys, which are attached to a vernier piece used in connection with a torsion circle on the frame which holds the magnet. The effective length of each branch of the skein is about $7^{ft.}$ $6^{in.}$; the distances between the branches at the upper and lower ends are respectively $1^{in.}·14$ and $0^{in.}·80$. The present skein was mounted in 1909 December.

The torsion circle is fixed relative to the magnet, while the vernier is movable ; the circle is divided to half degrees, and read by vernier to 1′. The torsion is adjusted so as to make the magnet hang approximately transverse to the magnetic meridian, the north magnetic pole being west. Accidental vibrations of the magnet are reduced by a copper damper.

The changes of horizontal force are registered photographically on the cylinder already described in connection with the declination variometer ; the same reference line is used for each trace, and the arrangements for interruption of the traces are similar.

The method of determining the scale value of the records of this instrument is described in the Introduction, pp. E ix and x, for 1912. The scale value determinations are made annually on the first convenient day in the new year, and the mean value from two successive observations is adopted for the intervening year. The adopted scale value for the year 1914 is 2·96 γ per mm.

The temperature in the magnet basement is subject to slow changes during the course of a year, and the horizontal force records require correction on this account. The correction is applied to the mean daily and the monthly mean hourly values, using the mean daily and monthly mean hourly values of the temperature as recorded on a Richard thermograph, corrected by comparison with reading of a thermometer with its bulb projecting into the magnet box itself.

The adopted temperature correction (determined in 1885 and 1886) is —4·26 γ per 1° rise in temperature, at 65° Fahrenheit ; this correction increases or diminishes numerically by 0·37 γ per degree, with each rise or fall in temperature of 5°.

Vertical Force Variometer.—The magnet used in this instrument is $1\frac{1}{2}$ feet long, and lozenge-shaped, being broad at the centre and pointed at the ends. The steel knife-edge, which is 8 inches long, and passes through an aperture in the magnet, rests on two agate planes. The magnet is placed unsymmetrically on the knife edge, being nearer to its southern end. The axis of vibration was originally in the magnetic meridian, but is now a few degrees distant, on account of the secular change of declination.

Two steel screw stalks, carrying adjustable screw weights, are attached to the magnet, one being vertical in order to vary the sensitiveness, the other horizontal in order to adjust the balance of the magnet, which should rest in a nearly horizontal position. The magnet and supporting frame are enclosed in a wooden box with suitable glass-covered apertures. The temperature within the box is indicated by a thermometer, the bulb of which projects well into the interior of the box.

The photographic arrangements are generally similar to those already described in connection with the declination and horizontal force variometers. The cylinder carrying the photographic sheet is in this case vertical, and also receives the record of the variations of barometric pressure. The time scale is the same as for the other magnetic registers.

The scale coefficient of the instrument is determined by the method of vibrations. When the magnet is approximately horizontal, and transverse to the magnetic meridian, the variation of the vertical force, in terms of the whole vertical force, which will produce a small angular motion θ (measured in radians) $=$ cotan dip $\times \left(\dfrac{T^1}{T}\right)^2 \times \theta$; T and T^1 are the times of vibration of the magnet in the vertical and horizontal planes respectively.

Observations of T are made once a week by means of the telescope and scale provided for eye readings of the position of the magnet. The mean of 5 observations made during January gives the value $19^s\cdot538$; of 13 observations made during February, March and April, $18^s\cdot594$; of 13 observations during May, June and July, $18^s\cdot138$; and of 20 observations during the last five months, $17^s\cdot432$.

The time of vibration in the horizontal plane (T^1) is determined once every three years, as the observation requires the removal of the magnet from its box. The magnet, with all its attached parts, is suspended from a tripod, with its broad side horizontal. The arc of vibration is kept small. Observations on 1912 January 1 gave for the time of vibration in the horizontal plane $16^s\cdot484$. This value has been adopted for the year 1914.

Since the distance between the concave mirror of the magnet and the surface of the cylinder is $100\cdot2$ inches, the length on the cylinder, in inches, which corresponds to a change of $0\cdot01$ part of the whole vertical force $= 2 \times 100\cdot2 \times \tan \text{dip} \times \left(\dfrac{T}{T^1}\right)^2 \times 0\cdot01$. Taking $T = 19^s\cdot538$, $T^1 = 16^s\cdot484$, and $\text{dip} = 66^\circ\ 51'\ 13''$, this length is found to be $6\cdot585$ inches. The cardboard scale, which is used for measuring the curves for the year, is constructed with this as unit. The corresponding values for the three other periods are $5\cdot964$ inches, $5\cdot675$ inches and $5\cdot242$ inches respectively.

The temperature corrections for this magnet are applied in a manner similar to that described for the horizontal force variometer. The correction (which is constant over the normal temperature range) is $-9\cdot20\ \gamma$ per 1° Fahrenheit.

§ 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 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 1914 which are classed as days of great disturbance. Days of lesser disturbance are April 6, May 31, July 5, July 29–31, September 27, October 28, and December 28.   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.

Through each photographic trace, including those on days of lesser disturbance, a pencil line was drawn, representing the general form of the curve without its petty irregularities.   The ordinates of these pencil curves were then measured, with the proper pasteboard scales, at every hour ; 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 ordinates 0^h to 23^h.   Tables I. to IV. contain the results for declination, Tables V. to VIII. those for horizontal force, and Tables IX. to XII. those for vertical force.   For each element the mean daily value and daily range are given for every day of the year (except January 1 for all elements, and December 31 for horizontal and vertical force), together with the monthly and annual mean diurnal inequalities for all days and for quiet 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.

By means of two stoves placed in the Basement, the temperature has been kept nearly constant throughout the year, the endeavour being to keep it as near to 67° as possible.   The results in Tables V. to XII. are corrected for temperature, the corrections applied (which are mentioned in the description of each instrument) being founded on the daily and hourly values of temperature given in Tables XIII. to XVI., as mentioned on p. E viii.

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

The magnetic diurnal inequalities of declination, horizontal force, and vertical force, for each month and for the year, as given in Tables II., VI., and X., have been treated by the method of harmonic analysis, and the results are given in Table XVII.

In Table XVIII. 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 horizontal force ordinate at the time of observation and the mean value for the month, as obtained from the photographic register.

As regards magnetic dip, the result of each observation of dip with the dip inductor is given in Table XIX. ; 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 VI. and X.) in forming the monthly mean values of dip given in Table. The dip needle observations are given in Table XIXa.

Table XX. 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 IV., VIII., and XII. are given mean diurnal inequalities of declination, horizontal force, and vertical force derived from five quiet days each month. From 1883 to 1910 the quiet days were selected by the Astronomer Royal; since 1911 the days selected by the International Committee have been adopted.

Reduced copies of the magnetograms for certain disturbed days (mentioned on p. E x) 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, horizontal force, and vertical force ; the curves are affected, slightly as compared with the amount of motion on disturbed days, by the small recorded changes of temperature of the magnets. The recorded hourly temperatures are inserted on the plates, and the temperature-corrections of the magnets are given at pages E viii and E ix. Briefly, an increase of temperature of 1° F. throws the horizontal force curve upward by about 4·3 γ, and the vertical force curve downward by about 9·2 γ.

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 :—

Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡	Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡
1841	23.16·2	..	..	1878	18.49·3	0·1802	67.38·2
1842	23.14·6	..	..	1879	18.40·5	0·1805	67.37·0
1843	23.11·7	..	69. 0·6	1880	18.32·6	0·1805	67.35·7
1844	23.15·3	..	69. 0·3	1881	18.27·1	0·1807	67.34·7
1845	22.56·7	..	68.57·5	1882	18.22·3	0·1806	67.34·2
1846	22.49·6	0·1731	68.58·1	1883	18.15·0	0·1812	67.31·7
1847	22.51·3	0·1736	68.59·0	1884	18. 7·6	0·1814	67.29·7
1848	22.51·8	0·1731	68.54·7	1885	18. 1·7	0·1817	67.28·0
1849	22.37·8	0·1733	68.51·3	1886	17.54·5	0·1818	67.27·1
1850	22.23·5	0·1738	68.46·9	1887	17.49·1	0·1819	67.26·6
1851	22.18·3	0·1744	68.40·4	1888	17.40·4	0·1822	67.25·6
1852	22.17·9	0·1745	68.42·7	1889	17.34·9	0·1823	67.24·3
1853	22.10·1	0·1748	68.44·6	1890	17.28·6	0·1825	67.23·0
1854	22. 0·8	0·1749	68.47·7	1891	17.23·4	0·1827	67.21·5
1855	21.48·4	0·1756	68.44·6	1892	17.17·4	0·1829	67.20·0
1856	21.43·5	0·1759	68.43·5	1893	17.11·4	0·1831	67.17·9
1857	21.35·4	0·1769	68.31·1	1894	17. 4·6	0·1831	67.17·4
1858	21.30·3	0·1762	68.28·3	1895	16.57·4	0·1834	67.16·1*
1859	21.23·5	0·1761	68.26·9	1896	16.51·7*	0·1835*	67.15·1*
1860	21.14·3	..	68.30·1	1897	16.45·8*	0·1838	67.13·5*
		0·1773	68.24·6	1898	16.39·2*	0·1840	67.12·1
1861	21. 5·5	0·1759	68.15·8	1899	16.34·2	0·1843	67.10·5
1862	20.52·6	0·1763	68. 9·6	1900	16.29·0	0·1846	67. 8·8
1863	20.45·9	0·1764	68. 7·0	1901	16.26·0	0·1850	67. 6·4
1864	..	0·1767	68. 4·1	1902	16.22·8	0·1852	67. 3·8
1865	20.33·9	0·1767	68. 2·7	1903	16.19·1	0·1852	67. 1·2
1866	20.28·0	0·1773	68. 1·3	1904	16.15·0	0·1854	66.57·6
1867	20.20·5	0·1777	67.57·2	1905	16. 9·9	0·1854	66.56·3
1868	20.13·1	0·1779	67.56·5	1906	16. 3·6	0·1854	66.55·6
1869	20. 4·1	0·1782	67.54·8	1907	15.59·8	0·1855	66.56·2
1870	19.53·0	0·1784	67.52·5	1908	15.53·5	0·1854	66.56·3
1871	19.41·9	0·1786	67.50·3	1909	15.47·6	0·1854	66.54·1
1872	19.36·8	0·1789	67.47·8	1910	15.41·2	0·1855	66.52·8
1873	19.33·4	0·1793	67.45·8	1911	15.33·0	0·1855	66.52·1
1874	19.28·9	0·1797	67.43·6	1912	15.24·3	0·1855	66.51·8
1875	19.21·2	0·1797	67.42·4	1913	15.15·2	0·1853	66.50·5
1876	19. 8·3	0·1799	67.41·0	1914	15. 6·3	0·1853	66.51·2
1877	18.57·2	0·1800	67.39·7				

* Corrected for the effect of the iron in the new buildings (see p. E ii).

† 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.

‡ 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, mounted in 1840 on the southern wall of the western arm of the Upper Magnet Room, 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 height of the barometer above the mean level of the sea is 159 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.

PHOTOGRAPHIC BAROMETER.—The barometric record is made on the same cylinder as is used for magnetic vertical force. A siphon barometer fixed to the northern wall of the Magnet Basement is employed, the bore of the upper and lower extremities of the tube being about 1·1 inch, and that of the intermediate portion 0·3 inch. A metallic plunger, floating on the mercury in the shorter arm of the siphon, is partly supported by a counterpoise acting on a light lever, leaving a definite part of its weight to be supported by the mercury. The lever carries at its other end a vertical plate of aluminium, having a small horizontal slit, whose distance from the fulcrum is about eight times that of the point of connexion with the float, and whose vertical movement is therefore about four times that of the ordinary barometric column. The light of a gas lamp, passing through this slit and falling on a cylindrical lens, forms a spot of light on the paper. The barometer can, by screw action, be raised or lowered so as to keep the photographic trace in a convenient part of the sheet. A base line is traced on the sheet, and the record is interrupted at each hour by the clock, and occasionally by the observer, in the same way as for the magnetic registers. The length of the time scale is also the same.

The barometric scale, determined by experimentally comparing the measured movement on the paper with the observed movement of the standard barometer, is such that one inch of barometric movement is equivalent to $4^{in}\cdot16$ on the paper.

The base lines on the barometric sheets are determined from the observations of the standard barometer. Hourly measurements are made from the sheets as in the case of the magnetic registers. As the diurnal change of temperature in the Basement is very small, no appreciable differential effect is produced on the photographic register by the expansion of the column of mercury.

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 G. B. 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°·4 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°·2 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 W. H. M. Christie, and since 1899 has stood in its present position in the Magnet Ground.   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 correction with the magnetometers in the Magnet Basement, the illu-

mination 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. 157738, until June 14, when it was broken by hail, and replaced by Negretti and Zambra, No. 168952. The thermometer for radiation to the sky was a self-registering spirit minimum thermometer, Negretti and Zambra, No. 140216.   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.

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 (9$^{ft.}$ 2$^{in.}$ 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 two 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 54) are given according to both formulæ, and the least hourly measures omitted.

Rain Gauges.—During the year 1914 eight rain gauges were employed, placed at different elevations above the ground, for which see page E 54 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.

Gauge No. 2 is a ten-inch circular gauge, placed close to gauge No. 1, its receiving surface being precisely at the same level. The gauge is read daily at 9^h Greenwich civil time. This is also liable to interference, just as No. 1.

Gauges Nos. 3, 4, and 5 are 8-inch circular gauges, placed respectively on the roof of the Octagon Room, over the roof of the Magnetic Observatory, and on the roof of the Photographic Thermometer Shed. All are read daily at 9^h Greenwich civil time.

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, and gauge No. 7, also an 8-inch circular gauge, is similarly placed in the ground south-east of the Magnetic Observatory. 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, Nos. 7 and

8 are used as checks on the readings of No. 6. No. 6 is read daily, usually at 9^h, 15^h, and 21^h Greenwich civil time, and Nos. 7 and 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 the Upper Magnet Room, in connection with Lord Kelvin's water-dropping apparatus, and with 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.

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.

Until 1896 the instrument was placed above the Magnetic Observatory, since when it has been situated on the stage, above the Octagon Room, which carries the Robinson anemometer, about 50 feet above the ground. The glass globe formerly used was replaced in 1897 by a new one presented in 1881 by the late Mr. Campbell, as the records from 1894–1896 showed a notable falling off, pointed out by Mr. Marriott, due to deterioration of the glass of the old globe.

§ 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 49 and E 50) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pages E 48 and E 49).

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 47 and E 54, is formed from the records of this gauge. In this numeration only those days are counted on which the fall amounted to or exceeded $0^{in}\cdot005$.

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 23 to E 45, and in the abstract table, page E 47, 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.

In regard to the observations of Luminous Meteors in general, only special meteor showers are watched for, such as those of April, August, and November. The observers of meteors in the year 1914 were Mr. Newton, Mr. Divers, Mr. Showell, Mr. Mitchell, Mr. Berry, and Mr. Walden.   Their observations are distinguished by the initials N., D., S., M., A.B., and W. respectively.   One observation made by Mr. Symms is distinguished by the initials S.S.

F. W. DYSON.

ROYAL OBSERVATORY, GREENWICH,
     1918 *April* 8.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL OBSERVATIONS,

1914.

TABLE I.—MEAN MAGNETIC DECLINATION WEST FOR EACH CIVIL DAY.

(Each result is the mean of 24 hourly ordinates from the photographic register.)

1914.

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

TABLE II.—MONTHLY AND ANNUAL MEAN DIURNAL INEQUALITIES OF MAGNETIC DECLINATION WEST.

(The results in each month are diminished by the smallest hourly value.)

1914.

Hour. Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	0·1	0·2	0·8	2·1	3·2	3·6	3·1	2·2	1·2	1·0	0·5	0·4	1·09
1h	0·2	0·2	1·0	2·2	3·0	3·3	3·3	2·1	1·4	1·0	0·9	0·8	1·18
2	0·3	0·6	1·0	2·1	3·0	2·9	3·0	2·5	1·5	1·0	1·2	1·1	1·24
3	0·4	0·9	1·1	2·0	2·8	2·6	2·8	2·4	1·3	1·0	1·5	1·4	1·24
4	0·6	0·8	1·3	2·0	2·5	2·2	2·3	2·1	1·1	1·0	1·6	1·7	1·16
5	0·6	0·9	1·1	1·7	1·8	1·3	1·0	1·4	0·9	1·2	1·5	1·7	0·82
6	0·5	1·0	1·2	1·6	1·1	0·7	0·3	0·6	0·7	1·5	1·4	1·5	0·57
7	0·5	1·2	1·1	1·0	0·3	0·2	0·2	0·0	0·2	1·2	1·5	1·2	0·28
8	0·6	1·4	0·3	0·0	0·0	0·0	0·0	0·1	0·0	0·0	0·5	1·1	0·00
9	1·0	1·4	0·0	0·0	1·1	0·8	0·7	1·1	0·7	0·0	0·6	0·5	0·22
10	1·4	1·5	1·0	1·4	2·9	2·5	2·5	3·1	3·3	1·2	1·3	0·9	1·48
11	1·7	2·4	3·2	3·6	5·3	5·0	5·0	5·4	5·8	3·3	2·8	2·0	3·35
Noon	2·4	3·7	5·5	6·2	7·4	7·1	6·9	7·8	7·5	5·2	4·3	3·0	4·31
13h	2·6	4·0	6·3	8·1	8·2	8·1	8·2	8·8	8·1	5·7	4·6	3·5	5·91
14	2·0	3·8	5·9	7·9	7·9	8·2	8·4	8·4	7·0	5·0	4·1	3·2	5·54
15	1·6	3·0	4·9	6·8	7·0	7·5	7·9	6·8	5·0	3·9	3·0	2·5	4·55
16	1·6	2·4	3·5	5·6	6·0	6·6	6·8	5·1	3·2	2·9	2·1	2·0	3·54
17	1·4	2·4	2·7	4·5	5·0	5·7	5·6	3·8	2·4	2·5	1·8	1·8	2·86
18	1·2	1·9	2·2	3·3	4·5	5·2	4·7	3·0	2·2	1·9	1·7	1·8	2·36
19	0·8	1·6	2·0	2·7	4·2	4·7	3·2	2·7	2·3	1·6	1·3	1·7	1·96
20	0·4	1·2	1·5	2·3	4·0	4·2	3·9	2·6	2·2	1·2	0·7	1·1	1·67
21	0·0	0·6	1·2	2·2	3·9	3·9	3·4	2·3	2·0	0·8	0·3	0·4	1·31
22	0·0	0·1	0·8	2·0	3·7	3·7	3·2	2·2	1·6	0·6	0·0	0·0	1·05
23	0·0	0·0	0·7	1·9	3·3	3·6	3·0	2·3	1·3	0·7	0·1	0·0	0·97
24	0·1	0·1	0·8	2·1	3·1	3·6	3·1	2·2	1·2	0·9	0·5	0·4	1·07
Means { 0h–23h	0'·91	1'·55	2'·10	3'·05	3'·84	3'·90	3'·77	3'·28	2'·62	1'·91	1'·67	1'·47	2'·03
Means { 1h–24h	0'·91	1'·55	2'·10	3'·05	3'·83	3'·90	3'·77	3'·28	2'·62	1'·91	1'·67	1'·47	2'·03

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

1914.

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

The mean of the twelve monthly values is 7·56.

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

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

January　9, 10, 24, 25, 26.	April　12, 15, 26, 29, 30.
February　1, 10, 11, 21, 25.	May　9, 10, 14, 19, 20.
March　5, 22, 28, 29, 30.	June　12, 13, 16, 17, 23.

July　2, 8, 13, 17, 19.　　August　9, 10, 14, 16, 22.　　September 2, 7, 14, 21, 26.

October　12, 14, 24, 25, 26.　　November 9, 20, 21, 22, 23.　　December 2, 13, 15, 21, 26.

1914.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	Auugst.	September.	October.	November.	December.	For the Year.
Midn.	0·6	0·7	2·2	2·7	3·8	4·5	3·0	2·9	2·2	0·7	1·3	0·8	1·77
1h	0·7	0·8	2·3	2·9	3·7	4·4	2·8	2·3	2·7	0·9	1·6	0·9	1·82
2	0·7	0·8	2·3	3·0	3·8	4·5	2·5	2·3	3·0	1·1	1·9	1·0	1·89
3	0·5	0·9	2·1	3·4	3·1	3·7	2·4	2·1	2·3	1·1	2·1	1·3	1·73
4	0·5	1·0	2·2	3·2	2·7	3·0	1·9	2·2	2·1	1·1	2·2	1·6	1·62
5	0·4	0·6	1·9	2·7	1·7	1·8	1·0	1·4	1·7	1·5	2·0	1·3	1·15
6	0·2	0·5	2·1	2·4	0·9	0·9	0·1	0·4	1·1	1·4	1·6	1·2	0·72
7	0·0	0·7	1·5	1·5	0·1	0·3	0·3	0·0	0·5	1·4	1·5	0·6	0·35
8	0·1	0·8	0·5	0·5	0·0	0·0	0·0	0·0	0·0	0·9	1·0	0·4	0·00
9	0·5	0·9	0·0	0·0	0·9	0·8	0·8	1·0	0·7	0·0	0·0	0·0	0·12
10	0·6	0·7	1·1	0·9	3·1	2·7	2·4	3·3	3·1	0·6	1·1	0·8	1·35
11	0·8	1·8	3·7	3·2	5·5	5·3	4·5	5·3	6·0	1·9	2·8	1·7	3·19
Noon	1·6	2·9	6·0	6·2	7·6	7·6	6·3	7·4	7·2	3·9	4·1	2·7	4·94
13h	1·8	3·2	7·3	7·7	7·9	8·3	7·0	8·2	7·6	4·9	4·4	3·0	5·59
14	1·5	2·8	7·0	7·7	7·1	8·5	6·9	8·1	6·6	4·8	3·8	2·3	5·24
15	1·2	2·1	5·8	6·6	6·1	7·4	6·2	7·1	5·0	3·5	2·7	1·6	4·26
16	1·1	1·4	4·2	5·7	4·9	6·6	5·3	5·5	3·5	2·6	2·5	1·5	3·38
17	0·8	1·6	3·2	4·8	4·5	6·0	4·6	4·7	3·1	2·4	2·6	1·3	2·95
18	0·5	1·5	2·9	3·9	4·4	5·5	3·6	3·9	3·3	1·9	2·3	1·3	2·57
19	0·2	1·3	2·9	3·5	4·4	5·3	3·7	3·8	3·3	2·1	2·4	1·2	2·49
20	0·1	1·0	2·8	3·3	4·2	5·0	3·6	3·7	3·3	1·9	1·7	0·8	2·27
21	0·1	0·7	2·7	3·3	4·0	5·0	3·5	3·7	2·8	1·7	1·6	0·6	2·13
22	0·3	0·4	2·3	3·2	4·3	4·8	3·6	3·4	2·5	1·5	1·3	0·5	1·99
23	0·2	0·1	2·2	3·2	3·9	4·5	3·5	3·5	2·2	1·5	1·3	0·7	1·88
24	0·3	0·0	1·9	3·3	3·8	4·5	3·3	3·2	2·1	1·5	1·6	0·7	1·83
Means { 0h–23h	0·62	1·22	2·97	3·56	3·86	4·43	3·31	3·59	3·16	1·89	2·08	1·21	2·31
Means { 1h–24h	0·61	1·19	2·95	3·59	3·86	4·43	3·32	3·60	3·15	1·92	2·09	1·21	2·31

TABLE V.—MEAN HORIZONTAL MAGNETIC FORCE for each CIVIL DAY.

(Each result is the mean of 24 hourly ordinates from the photographic register, expressed in C.G.S. units. The values are corrected for Temperature.)

1914.

18000 γ +

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	..	544 γ	535 γ	535 γ	507 γ	516 γ	525 γ	523 γ	540 γ	515 γ	509	535 γ
2	545 γ	538	520	537	497	523	520	533	529	527	510	531
3	554	533	523	534	508	515	524	520	528	542	516	529
4	558	534	530	537	533	505	518	521	522	535	516	517
5	553	526	544	546	538	509	508	524	513	530	522	508
6	552	513	553	522	534	515	509	529	508	532	526	504
7	535	520	540	525	539	517	505	524	513	522	513	524
8	552	528	550	522	536	513	520	529	526	510	502	520
9	583	536	557	520	525	507	528	548	516	517	507	514
10	590	535	544	533	532	511	525	545	518	527	518	510
11	570	528	535	534	540	514	525	525	525	526	502	513
12	551	536	541	533	536	528	530	525	512	508	492	521
13	557	537	555	531	536	541	528	535	526	519	506	530
14	549	549	566	536	550	549	531	537	535	524	508	530
15	546	550	562	528	563	548	518	531	527	528	509	533
16	543	542	557	529	554	527	516	537	530	539	528	535
17	553	536	546	533	545	530	522	541	537	536	524	522
18	544	530	533	531	520	537	525	528	535	527	529	529
19	539	530	537	535	514	537	528	530	527	528	527	527
20	534	540	530	526	526	537	533	521	522	530	528	520
21	534	543	532	529	549	532	534	522	527	529	526	525
22	533	540	533	530	555	529	526	525	540	537	524	526
23	523	535	535	532	566	526	523	541	536	539	521	526
24	522	541	541	530	557	533	530	541	541	542	521	526
25	529	536	535	531	533	544	516	530	545	550	532	514
26	547	532	541	520	528	540	499	521	554	552	544	519
27	544	531	541	522	529	527	504	528	536	549	534	534
28	548	527	525	514	522	533	516	540	533	515	533	526
29	552		525	523	538	529	515	534	526	511	538	519
30	557		541	526	555	530	507	535	535	514	538	524
31	558		550		576		505	535		520		...
Means	550	536	539	527	539	525	527	527	521	534	514	524

TABLE VI.—MONTHLY AND ANNUAL MEAN DIURNAL INEQUALITIES of HORIZONTAL MAGNETIC FORCE.

(The results are expressed in C.G.S. units and in each case diminished by the smallest hourly value.)

1914.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	1 γ	3 γ	16 γ	26 γ	24 γ	30 γ	29 γ	33 γ	29 γ	26 γ	18 γ	8 γ	18.9 γ
1h	1	4	16	25	21	29	30	32	28	24	16	8	18.1
2	1	3	16	22	21	28	29	29	27	24	14	10	18.9
3	4	3	16	21	19	25	27	27	26	25	15	10	16.8
4	5	4	18	20	20	25	26	27	26	27	16	10	17.3
5	5	6	18	21	19	25	25	26	24	26	19	12	17.4
6	7	7	18	21	18	21	20	22	22	27	19	14	16.6
7	8	7	17	20	14	15	16	16	17	23	18	14	14.0
8	6	7	14	15	9	8	10	7	10	17	16	11	9.4
9	6	6	8	7	3	2	2	0	2	9	7	6	3.4
10	4	7	2	2	0	0	0	0	0	2	3	2	0.4
11	2	5	0	0	1	3	1	3	2	0	0	0	0.0
Noon	3	4	3	3	4	8	7	10	11	3	1	0	3.4
13h	4	5	9	9	8	14	12	17	18	9	4	3	7.9
14	4	7	14	13	14	22	18	22	22	13	7	6	12.1
15	3	4	17	20	20	26	24	26	23	15	8	8	14.8
16	2	1	17	23	23	30	29	31	24	18	10	9	16.7
17	3	0	16	24	28	35	34	34	26	19	13	10	18.8
18	4	2	16	26	31	38	37	38	29	22	15	10	20.9
19	4	4	18	26	32	41	38	40	32	24	16	8	22.2
20	4	4	18	26	32	41	37	40	31	26	16	8	22.2
21	3	2	18	27	30	38	36	38	29	28	17	8	21.4
22	3	1	18	26	29	34	34	37	28	29	18	9	20.8
23	2	1	18	26	26	31	32	35	28	28	19	7	19.7
24	0	3	17	25	24	29	30	34	29	26	19	8	18.9
Means 0h–23h	3.7	4.0	14.2	18.7	18.6	23.7	23.0	24.6	21.4	19.3	12.7	8.0	14.7
Means 1h–24h	3.7	4.0	14.2	18.7	18.6	23.7	23.1	24.6	21.4	19.3	12.7	8.0	14.7

TABLE VII.—DIURNAL RANGE of HORIZONTAL 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 are expressed in C.G.S units.)

1914.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	..	21 γ	27 γ	49 γ	27 γ	71 γ	44 γ	80 γ	35 γ	40 γ	46 γ	22 γ
2	14 γ	18	34	25	41	42	41	39	36	41	29	21
3	9	24	35	27	26	42	20	84	46	30	29	30
4	16	20	22	31	31	40	29	68	54	44	74	23
5	13	22	29	32	28	39	95	53	49	40	39	17
6	15	43	35	89	31	41	39	53	51	50	37	29
7	27	18	14	31	45	55	46	58	65	37	39	18
8	41	16	21	38	34	49	54	60	51	49	29	26
9	16	19	22	38	41	34	39	42	69	69	30	27
10	10	19	36	44	57	46	51	43	37	44	41	24
11	38	17	27	37	48	36	48	48	34	29	81	23
12	19	14	34	41	40	62	42	44	45	40	35	21
13	24	26	48	48	54	38	43	34	34	46	27	12
14	13	21	24	36	39	43	37	28	34	31	41	24
15	24	20	29	19	40	48	48	38	43	32	24	17
16	28	21	41	35	35	44	48	37	50	21	14	36
17	19	20	28	42	42	55	55	29	37	36	33	20
18	20	22	21	43	42	36	41	43	31	26	22	20
19	12	16	20	41	40	57	31	37	23	31	22	29
20	15	15	26	28	57	41	28	50	33	35	27	17
21	19	9	29	32	27	46	40	38	40	30	22	21
22	28	36	26	42	37	39	52	44	31	42	22	25
23	16	27	36	23	30	45	45	43	56	31	27	20
24	14	17	29	50	34	53	57	33	40	29	16	37
25	22	15	42	41	35	24	70	42	42	20	17	22
26	22	14	28	24	55	36	56	59	40	28	32	18
27	13	24	32	25	40	52	40	58	111	46	17	13
28	16	53	32	38	55	49	57	59	81	74	18	29
29	9		34	48	44	62	50	76	54	71	16	20
30	13		31	32	44	41	61	73	54	26	22	20
31	17		34		44		83	45		34		..
Means	18·7	21·7	29·9	37·6	40·1	45·5	48·1	49·6	45·9	38·8	30·9	22·7

The mean of the twelve monthly values is 35·8 γ.

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

Each result is the mean of the corresponding hourly ordinates from the photographic register, 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 9, 10, 24, 25, 26.　　April 12, 15, 26, 29, 30.　　July 2, 8, 13, 17, 19.　　October 12, 14, 24, 25, 26.
February 1, 10, 11, 21, 25.　　May 9, 10, 14, 19, 20.　　August 9, 10, 14, 16, 22.　　November 9, 20, 21, 22, 23.
March 5, 22, 28, 29, 30.　　June 12, 13, 16, 17, 23.　　September 2, 7, 14, 21, 26.　　December 2, 13, 15, 21, 26.

1914.

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

TABLE IX.—MEAN VERTICAL MAGNETIC FORCE for each CIVIL DAY.

(Each result is the mean of 24 hourly ordinates from the photographic register, expressed in C.G.S. units. The values are corrected for Temperature.)

1914.

43000 γ +

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	..	330 γ	328 γ	321 γ	303 γ	305 γ	347 γ	322 γ	343 γ	376 γ	367 γ	319 γ
2	344 γ	329	323	313	292	307	352	341	337	374	367	322
3	352	327	309	317	294	312	361	336	336	378	367	323
4	352	327	319	316	299	314	356	352	338	381	358	325
5	350	332	328	314	292	316	354	343	343	378	357	321
6	351	332	317	330	299	309	355	343	343	374	367	308
7	348	337	324	317	304	315	348	342	337	373	359	314
8	347	338	333	313	307	308	341	343	337	364	366	320
9	359	329	329	322	300	309	343	339	342	371	367	316
10	362	329	323	317	290	317	346	341	350	368	365	317
11	369	335	320	321	297	314	351	347	360	369	372	313
12	341	334	315	325	303	314	350	348	363	367	368	310
13	340	333	327	323	295	315	355	341	350	364	361	319
14	339	336	327	323	296	323	359	344	344	365	354	316
15	329	348	318	322	301	324	367	347	358	364	339	317
16	344	332	321	317	304	330	372	347	359	369	337	312
17	342	333	323	312	301	325	362	344	361	369	333	309
18	338	343	324	311	305	326	356	345	358·	368	326	315
19	335	334	318	311	309	332	356	343	359	364	320	313
20	327	328	320	315	309	333	361	338	358	363	321	309
21	321	333	309	315	314	335	369	343	349	361	311	307
22	323	333	306	325	316	342	370	338	353	360	308	311
23	315	324	303	320	322	325	370	333	351	363	299	299
24	308	331	304	321	327	327	363	340	352	364	300	296
25	313	325	301	316	319	332	356	345	360	367	296	299
26	320	311	300	316	313	334	347	350	359	374	299	294
27	320	319	300	309	303	324	344	349	374	368	304	297
28	321	317	304	307	305	326	340	349	380	367	308	310
29	328		308	313	298	333	362	343	389	365	313	306
30	335		305	318	305	334	345	346	379	363	321	292
31	343		306		310		342	348		364		..
Means	337	331	316	317	304	322	355	343	354	368	338	311

TABLE X.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES OF VERTICAL MAGNETIC FORCE.

(The results are expressed in C.G.S. units and in each case diminished by the smallest hourly value.)

1914.

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

TABLE XI.—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 C.G.S. units.)

1914.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	..	14 γ	18 γ	40 γ	41 γ	76 γ	21 γ	23 γ	21 γ	22 γ	37 γ	5 γ
2	18 γ	14	30	21	28	38	25	43	25	24	14	20
3	14	14	25	24	40	22	13	33	22	20	23	13
4	16	14	13	24	29	24	26	35	37	19	40	23
5	24	8	18	22	32	27	51	25	27	25	21	19
6	14	31	21	96	31	35	20	50	23	15	17	9
7	16	11	13	33	36	27	21	20	26	23	30	12
8	16	14	15	38	26	26	23	16	19	16	16	13
9	13	18	13	25	28	28	35	29	22	15	8	17
10	8	16	16	24	47	19	21	26	30	21	11	8
11	25	16	32	25	38	22	18	35	15	14	50	9
12	14	20	24	28	25	34	16	15	23	14	21	8
13	20	20	13	30	30	23	30	38	22	7	14	6
14	13	21	23	27	32	15	27	19	16	11	12	12
15	18	16	40	34	32	31	26	26	18	15	18	11
16	15	25	14	39	25	22	16	25	26	14	16	13
17	20	20	20	24	24	25	20	15	11	18	40	16
18	20	12	15	24	24	25	23	25	21	19	26	15
19	18	17	16	25	26	37	16	28	21	12	12	10
20	12	11	22	20	28	21	24	23	29	11	7	9
21	12	12	20	20	19	17	20	18	21	17	20	11
22	9	13	15	20	25	24	18	18	30	22	12	12
23	18	19	29	34	28	23	27	25	33	11	10	10
24	12	18	22	30	33	22	20	17	22	18	9	13
25	10	22	23	36	29	49	30	43	16	19	18	9
26	15	25	15	37	40	27	28	25	15	16	29	6
27	20	14	13	39	37	28	13	25	59	13	20	8
28	13	26	31	27	29	30	22	20	15	62	20	30
29	6		20	28	21	23	104	34	34	60	15	19
30	10		31	20	32	22	25	26	20	12	13	13
31	10		24		39		44	27		8		..
Means	15·0	17·2	20·8	30·5	30·8	28·1	26·5	26·7	24·0	19·1	20·0	12·6

The mean of the twelve monthly values is 22·6 γ.

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

Each result is the mean of the corresponding hourly ordinates from the photographic register, 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 9, 10, 24, 25, 26.	April 12, 15, 26, 29, 30.	July 2, 8, 13, 17, 19.	October 12, 14, 24, 25, 26.
February 1, 10, 11, 21, 25.	May 9, 10, 14, 19, 20.	August 9, 10, 14, 16, 22.	November 9, 20, 21, 22, 23.
March 5, 22, 28, 29, 30.	June 12, 13, 16, 17, 23.	September 2, 7, 14, 21, 26.	December 2, 13, 15, 21, 26.

1914.

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

TABLE XIII.—MEAN TEMPERATURE for each CIVIL DAY within the box inclosing the HORIZONTAL FORCE MAGNET.

1914.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	..	66.4	68.0	67.3	66.1	66.4	71.1	68.6	69.9	67.2	67.2	66.9
2	66.6	67.2	66.0	67.7	67.3	67.4	71.9	68.8	69.0	68.7	67.9	67.5
3	67.0	67.1	67.4	67.3	67.7	67.2	70.6	67.9	68.9	67.9	67.2	66.1
4	67.0	67.3	67.9	67.0	67.4	67.7	68.1	67.2	69.2	67.2	66.7	68.0
5	66.8	67.5	67.7	66.7	67.0	66.8	67.7	67.0	68.9	66.6	67.7	66.4
6	66.1	67.1	66.4	66.9	67.4	66.8	67.2	66.9	67.6	67.1	67.4	66.6
7	66.4	67.7	67.2	65.7	67.4	67.7	66.8	66.7	68.3	66.7	66.6	68.2
8	66.9	67.4	67.8	66.5	67.1	66.9	67.4	66.8	69.7	67.3	67.2	66.4
9	67.9	66.6	66.6	67.5	67.1	67.2	69.1	67.8	69.7	67.6	67.7	67.0
10	67.9	67.5	66.3	67.2	67.0	67.6	68.9	68.7	69.9	66.8	67.2	66.4
11	65.5	67.8	66.3	67.8	68.0	67.0	69.3	68.0	69.3	67.3	67.6	66.8
12	63.5	67.1	68.5	66.7	68.0	67.3	70.1	68.1	66.7	67.1	67.0	67.1
13	65.9	66.8	67.4	67.2	67.1	68.1	70.2	68.9	66.8	67.2	67.8	67.0
14	67.1	68.6	67.2	67.1	68.0	67.9	70.5	69.4	67.6	67.5	65.4	66.9
15	66.9	67.3	65.3	66.2	67.8	67.6	70.4	69.6	66.8	68.4	65.5	66.5
16	66.6	66.8	66.2	66.2	67.2	67.7	68.9	68.4	67.0	67.7	66.8	66.1
17	66.5	67.4	66.7	68.4	66.6	67.6	68.5	68.5	67.0	67.0	66.3	66.2
18	66.9	67.0	67.4	67.6	66.2	67.7	68.9	67.9	66.3	67.1	67.0	66.7
19	66.7	66.5	67.1	68.3	69.1	68.9	69.6	67.6	66.9	66.6	66.0	66.5
20	67.0	67.8	66.8	68.1	68.3	68.8	70.2	67.4	66.6	66.7	66.8	66.0
21	66.4	67.4	66.1	67.4	68.6	68.2	70.1	67.9	67.5	66.6	65.7	66.8
22	66.8	66.8	66.2	67.3	68.1	67.4	69.8	68.1	66.6	66.5	66.2	66.3
23	66.1	67.3	66.3	67.4	68.4	67.3	67.8	68.8	67.9	66.8	66.3	66.7
24	66.1	66.9	67.1	67.9	66.6	67.0	67.7	69.7	67.6	66.5	66.6	66.4
25	67.8	65.6	65.9	67.6	66.8	67.6	66.9	69.9	67.2	67.6	66.8	65.5
26	67.6	66.9	67.5	66.7	66.9	67.3	66.6	69.3	66.9	66.6	67.9	65.7
27	66.3	67.4	67.4	66.9	66.9	67.5	67.6	68.4	67.3	66.1	66.8	66.7
28	67.0	68.1	67.2	67.7	67.1	68.4	68.5	68.2	67.5	65.0	67.3	67.3
29	67.5		68.3	67.7	67.8	69.0	67.4	68.5	66.8	64.7	67.1	64.4
30	67.6		67.3	67.0	67.5	70.0	67.2	69.1	66.8	67.1	67.6	66.5
31	66.9		68.6		67.5		67.7	69.8		67.7		..
Means	66°.71	67°.19	67°.04	67°.23	67°.42	67°.67	68°.80	68°.32	67°.81	67°.00	66°.91	66°.59

TABLE XIV.—MONTHLY and ANNUAL MEAN TEMPERATURE at each HOUR of the DAY within the box inclosing the HORIZONTAL FORCE MAGNET.

1914.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	67.2	67.8	67.6	68.0	67.8	68.0	69.1	68.6	68.1	67.2	67.3	66.8	67.79
1h	67.1	67.6	67.5	67.8	67.7	68.0	69.0	68.5	68.1	67.2	67.1	66.7	67.69
2	66.8	67.4	67.3	67.7	67.6	67.9	69.0	68.4	68.0	67.2	67.0	66.5	67.57
3	66.6	67.2	67.1	67.5	67.5	67.8	68.9	68.4	67.9	67.1	66.9	66.4	67.44
4	66.4	67.0	66.9	67.3	67.4	67.7	68.8	68.3	67.8	67.0	66.9	66.3	67.32
5	66.3	66.9	66.7	67.1	67.2	67.6	68.7	68.2	67.7	66.9	66.8	66.3	67.20
6	66.2	66.7	66.5	66.9	67.1	67.5	68.6	68.1	67.6	66.9	66.8	66.3	67.10
7	66.2	66.7	66.5	66.8	67.1	67.4	68.6	68.1	67.6	66.8	66.8	66.4	67.08
8	66.2	66.7	66.5	66.8	67.1	67.3	68.5	68.0	67.5	66.8	66.8	66.4	67.05
9	66.3	66.7	66.5	66.7	67.1	67.2	68.4	68.0	67.4	66.7	66.7	66.3	67.00
10	66.4	66.7	66.6	66.8	67.1	67.2	68.5	68.0	67.4	66.7	66.6	66.4	67.03
11	66.4	66.8	66.6	66.8	67.1	67.3	68.5	68.0	67.4	66.7	66.6	66.4	67.05
Noon	66.4	66.7	66.6	66.8	67.1	67.3	68.5	68.1	67.5	66.8	66.5	66.4	67.06
13h	66.5	66.8	66.8	66.9	67.2	67.5	68.6	68.2	67.6	66.9	66.6	66.5	67.18
14	66.6	67.0	66.9	67.0	67.4	67.6	68.7	68.2	67.7	66.9	66.8	66.6	67.28
15	66.7	67.1	67.1	67.1	67.5	67.6	68.8	68.3	67.8	67.0	66.8	66.7	67.37
16	66.7	67.1	67.2	67.2	67.5	67.7	68.9	68.3	67.9	67.0	66.9	66.8	67.43
17	66.9	67.3	67.3	67.3	67.6	67.8	68.9	68.4	67.9	67.0	67.0	66.8	67.52
18	67.1	67.5	67.3	67.4	67.6	67.8	68.9	68.5	68.0	67.1	67.0	66.8	67.58
19	67.2	67.7	67.4	67.4	67.6	67.9	69.0	68.6	68.0	67.2	67.1	66.8	67.66
20	67.1	67.7	67.4	67.5	67.6	67.9	69.0	68.6	68.1	67.2	67.1	66.8	67.67
21	67.2	67.7	67.5	67.6	67.7	68.0	69.0	68.6	68.1	67.2	67.2	66.8	67.72
22	67.2	67.8	67.5	67.7	67.7	68.0	69.1	68.6	68.1	67.2	67.2	66.9	67.75
23	67.2	67.9	67.6	67.8	67.7	68.0	69.1	68.6	68.0	67.2	67.3	66.9	67.78
24	67.2	67.9	67.6	67.9	67.8	68.1	69.0	68.6	68.0	67.2	67.3	66.9	67.79

TABLE XV.—MEAN TEMPERATURE for each CIVIL DAY within the box inclosing the VERTICAL FORCE MAGNET.

1914.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	..	66·3	67·8	66·8	66·2	65·9	70·4	68·6	69·2	67·5	67·2	66·9
2	67·0	66·9	65·7	67·9	67·3	67·4	71·0	67·9	68·4	68·5	67·5	67·1
3	66·8	67·2	67·4	66·9	67·5	66·8	69·6	68·0	68·5	67·8	67·0	66·1
4	67·0	67·3	67·5	66·8	67·0	67·5	67·2	66·5	68·6	67·0	66·7	67·3
5	67·5	67·2	66·9	66·8	66·8	66·6	66·8	66·7	68·3	66·6	67·6	66·2
6	66·5	67·4	66·9	66·9	67·3	66·9	66·4	66·2	67·3	67·2	67·0	67·3
7	67·1	67·6	67·3	66·3	67·0	67·3	66·7	66·1	68·0	67·0	66·5	67·8
8	67·2	66·8	67·1	66·6	66·8	66·8	67·4	66·1	69·2	67·5	67·5	66·1
9	67·5	67·0	66·9	67·2	66·8	67·2	68·7	67·4	69·4	67·0	67·7	66·8
10	68·2	67·2	66·7	67·4	67·2	67·0	68·2	67·9	69·4	66·6	66·9	66·6
11	65·7	67·4	66·3	67·8	67·6	66·8	68·6	67·4	68·6	67·0	67·5	66·9
12	65·7	67·4	68·6	66·8	67·4	66·9	69·4	67·5	66·3	67·2	66·9	67·0
13	66·9	67·1	67·4	67·1	67·0	68·0	69·3	68·4	66·4	67·2	67·4	66·5
14	67·2	68·1	66·7	66·6	67·7	67·2	69·7	69·0	67·9	67·4	65·8	66·8
15	67·7	66·7	66·9	65·9	67·5	67·2	69·5	68·8	66·7	68·4	66·5	66·6
16	66·8	67·2	66·5	66·3	66·9	67·1	67·8	67·8	66·6	67·3	67·4	66·4
17	66·8	67·6	66·4	67·4	66·9	67·4	67·7	68·0	66·9	66·9	67·1	66·8
18	67·3	66·5	67·3	67·7	67·3	67·3	68·2	67·3	66·7	67·1	67·1	66·4
19	67·0	66·3	67·3	67·7	68·2	67·8	68·9	66·9	67·4	66·8	66·9	66·6
20	67·3	67·7	66·5	68·0	68·3	67·7	69·4	67·0	67·1	66·8	67·2	66·9
21	67·4	67·0	66·4	67·6	68·1	67·5	69·2	67·3	67·8	66·9	66·5	67·3
22	67·2	66·6	66·8	67·1	67·4	66·1	68·9	67·7	66·8	66·5	66·5	66·1
23	67·0	67·6	67·0	67·4	67·5	67·3	66·7	68·4	67·9	66·3	67·1	67·0
24	67·1	66·7	67·3	67·2	66·2	66·7	66·7	69·2	67·6	66·3	67·3	67·0
25	68·0	65·8	66·5	67·2	66·8	67·2	66·3	69·3	67·3	67·5	67·3	66·4
26	67·3	67·4	67·9	66·5	66·8	66·5	66·9	68·8	67·3	66·2	67·5	66·7
27	66·6	67·4	67·4	67·2	67·2	67·2	67·6	67·8	67·6	66·2	66·5	66·7
28	67·0	68·0	67·2	68·1	67·0	67·8	68·0	67·6	67·7	65·5	67·0	66·4
29	67·4		68·0	67·4	67·6	68·3	66·7	68·0	66·5	64·9	66·7	65·1
30	67·3		66·8	66·4	67·2	69·3	67·0	68·8	67·0	67·1	66·9	67·3
31	66·8		68·1		66·8		67·3	69·4		67·5		..
Means	67°·08	67°·12	67°·08	67°·10	67°·20	67°·22	68°·14	67°·80	67°·68	66°·96	67°·02	66°·70

TABLE XVI.—MONTHLY and ANNUAL MEAN TEMPERATURE at each HOUR of the DAY within the box inclosing the VERTICAL FORCE MAGNET.

1914.

Hour, Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	67·6	67·7	67·7	67·9	67·5	67·5	68·4	68·0	68·0	67·2	67·4	66·9	67·65
1h	67·4	67·5	67·5	67·7	67·4	67·5	68·4	68·0	67·9	67·1	67·3	66·7	67·53
2	67·1	67·3	67·3	67·5	67·3	67·4	68·3	67·9	67·8	67·1	67·1	66·6	67·39
3	67·0	67·1	67·1	67·3	67·2	67·3	68·2	67·8	67·8	67·0	67·0	66·5	67·27
4	66·8	66·9	66·9	67·0	67·1	67·2	68·1	67·7	67·6	66·9	66·9	66·4	67·13
5	66·6	66·7	66·7	66·8	67·0	67·1	68·0	67·6	67·5	66·8	66·9	66·4	67·01
6	66·5	66·5	66·5	66·6	66·9	67·0	67·9	67·6	67·4	66·8	66·8	66·4	66·91
7	66·5	66·5	66·5	66·5	66·9	66·9	67·8	67·5	67·3	66·7	66·8	66·4	66·86
8	66·6	66·5	66·5	66·4	66·9	66·8	67·8	67·4	67·2	66·7	66·8	66·5	66·84
9	66·6	66·5	66·5	66·4	66·9	66·7	67·7	67·4	67·2	66·6	66·8	66·4	66·81
10	66·8	66·6	66·6	66·4	66·9	66·7	67·7	67·4	67·2	66·6	66·7	66·5	66·84
11	66·8	66·6	66·7	66·5	66·9	66·8	67·8	67·5	67·2	66·7	66·7	66·6	66·90
Noon	66·9	66·7	66·8	66·7	67·0	67·0	67·9	67·6	67·4	66·8	66·7	66·6	67·01
13h	66·9	66·8	66·9	66·8	67·1	67·1	68·1	67·7	67·6	66·9	66·8	66·8	67·13
14	67·1	67·0	67·1	67·0	67·3	67·3	68·2	67·8	67·7	66·9	66·9	66·9	67·27
15	67·1	67·2	67·2	67·1	67·4	67·3	68·2	67·9	67·8	67·0	67·0	67·0	67·35
16	67·2	67·2	67·3	67·2	67·4	67·4	68·3	67·9	67·9	67·0	67·0	67·1	67·41
17	67·3	67·3	67·4	67·3	67·4	67·4	68·3	68·0	68·0	67·1	67·1	67·0	67·47
18	67·5	67·5	67·4	67·4	67·4	67·4	68·3	68·0	68·0	67·1	67·2	67·0	67·52
19	67·5	67·7	67·5	67·4	67·4	67·5	68·4	68·1	68·0	67·2	67·2	66·9	67·57
20	67·5	67·7	67·5	67·5	67·4	67·5	68·4	68·1	68·0	67·2	67·3	66·9	67·58
21	67·5	67·7	67·5	67·5	67·4	67·6	68·4	68·1	67·9	67·2	67·3	66·9	67·58
22	67·5	67·8	67·5	67·6	67·4	67·6	68·4	68·1	67·9	67·2	67·4	66·9	67·61
23	67·6	67·8	67·6,	67·8	67·4	67·6	68·4	68·1	67·9	67·2	67·4	67·0	67·65
24	67·6	67·8	67·6	67·8	67·5	67·6	68·3	68·1	67·0	67·2	67·4	66·9	67·64

TABLE XVII.—VALUES of the COEFFICIENTS and PHASE ANGLES in the PERIODICAL EXPRESSION.

$$V_t = m + a_1 \cos t + b_1 \sin t + a_2 \cos 2t + b_2 \sin 2t + a_3 \cos 3t + b_3 \sin 3t + a_4 \cos 4t + b_4 \sin 4t$$
$$= m + c_1 \sin (t + \alpha_1) + c_2 \sin (2t - \alpha_2) + c_3 \sin (3t + \alpha_3) + c_4 \sin (4t + \alpha_4)$$

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 II., VI., and X.

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

If the inequalities are expressed relative to time reckoned from apparent midnight, the new phase angles, α'_1, α'_2, α'_3, α'_4, may be obtained from α_1, α_2, α_3, α_4 by adding respectively α, 2α, 3α, 4α, the value of α for each month being as follows :—

Jan. $+ 2°·19'$.	Apr. $+ 0°·4'$.	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. 1914.	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
DECLINATION WEST.																
January	$-0·94$	$-0·24$	$+0·17$	$+0·31$	$-0·17$	$+0·04$	$+0·14$	$+0·01$	$0·97$	$255·4$	$0·36$	$29·3$	$0·18$	$284·5$	$0·14$	$86·9$
February	$-1·39$	$-0·51$	$+0·13$	$+0·50$	$-0·27$	$-0·12$	$+0·11$	$+0·25$	$1·48$	$249·9$	$0·52$	$14·3$	$0·30$	$245·7$	$0·28$	$24·0$
March	$-1·60$	$-1·08$	$+0·64$	$+1·16$	$-0·57$	$-0·62$	$+0·32$	$+0·35$	$1·93$	$235·9$	$1·32$	$29·0$	$0·85$	$222·7$	$0·48$	$43·2$
April	$-1·56$	$-1·70$	$+0·85$	$+1·71$	$-0·46$	$-0·79$	$+0·28$	$+0·26$	$2·31$	$222·5$	$1·92$	$26·5$	$0·91$	$210·5$	$0·38$	$47·5$
May	$-1·27$	$-2·12$	$+1·24$	$+1·24$	$-0·78$	$-0·37$	$+0·16$	$+0·01$	$2·47$	$211·0$	$1·75$	$45·0$	$0·86$	$244·2$	$0·16$	$87·3$
June	$-1·20$	$-2·53$	$+1·16$	$+1·34$	$-0·54$	$-0·31$	$+0·22$	$+0·07$	$2·80$	$205·4$	$1·77$	$41·0$	$0·62$	$239·8$	$0·23$	$71·5$
July	$-1·39$	$-2·44$	$+1·20$	$+1·57$	$-0·50$	$-0·27$	$+0·03$	$+0·13$	$2·81$	$209·7$	$1·98$	$37·3$	$0·56$	$241·9$	$0·13$	$14·4$
August	$-1·95$	$-1·62$	$+1·57$	$+1·45$	$-0·83$	$-0·46$	$+0·10$	$+0·13$	$2·54$	$230·2$	$2·14$	$47·2$	$0·95$	$241·1$	$0·16$	$37·6$
September	$-2·07$	$-1·23$	$+1·55$	$+0·85$	$-1·09$	$-0·40$	$+0·32$	$+0·22$	$2·41$	$239·4$	$1·77$	$61·4$	$1·16$	$249·6$	$0·39$	$55·2$
October	$-1·46$	$-0·76$	$+0·63$	$+0·95$	$-0·50$	$-0·49$	$+0·48$	$+0·27$	$1·65$	$242·4$	$1·14$	$33·4$	$0·70$	$225·7$	$0·56$	$60·4$
November	$-1·30$	$-0·19$	$+0·35$	$+0·84$	$-0·47$	$-0·23$	$+0·30$	$+0·32$	$1·31$	$261·9$	$0·91$	$22·3$	$0·52$	$243·6$	$0·44$	$43·4$
December	$-0·89$	$-0·22$	$-0·03$	$+0·72$	$-0·42$	$-0·14$	$+0·23$	$+0·26$	$0·91$	$256·1$	$0·72$	$357·8$	$0·44$	$251·6$	$0·34$	$40·9$
For the Year	$-1·42$	$-1·22$	$+0·79$	$+1·05$	$-0·55$	$-0·35$	$+0·23$	$+0·19$	$1·87$	$229·3$	$1·31$	$36·8$	$0·65$	$237·7$	$0·29$	$49·9$
HORIZONTAL FORCE.																
January	$-0·8$	$+1·2$	$-1·6$	$-0·7$	$-0·2$	$-0·7$	$-0·1$	$+0·4$	$1·4$	$325·2$	$1·7$	$247·7$	$0·7$	$195·1$	$0·4$	$349·1$
February	$-1·4$	$+1·9$	$-0·2$	$-0·5$	$-0·3$	$-0·4$	$0·0$	$+1·2$	$2·4$	$323·0$	$0·5$	$206·2$	$0·5$	$211·3$	$1·2$	$360·0$
March	$+5·2$	$-1·4$	$-3·8$	$+1·8$	$-1·4$	$-2·7$	$-0·7$	$+1·1$	$5·4$	$105·4$	$4·2$	$294·8$	$3·0$	$152·0$	$1·3$	$326·8$
April	$+9·3$	$-4·1$	$-4·6$	$+1·5$	$+2·3$	$-2·0$	$-0·3$	$+1·0$	$10·2$	$113·8$	$4·8$	$288·3$	$3·1$	$131·0$	$1·0$	$13·9$
May	$+9·9$	$-8·0$	$-5·3$	$+1·2$	$-0·2$	$-1·5$	$+0·5$	$+0·4$	$12·7$	$128·9$	$5·4$	$282·9$	$1·5$	$173·4$	$0·6$	$52·0$
June	$+11·7$	$-10·7$	$-5·4$	$+3·1$	$-1·0$	$-1·7$	$-0·7$	$+1·1$	$15·9$	$132·3$	$6·2$	$299·5$	$2·0$	$209·2$	$1·3$	$33·2$
July	$+12·5$	$-9·1$	$-5·4$	$+3·2$	$-0·2$	$-1·3$	$-0·5$	$+0·7$	$15·5$	$126·2$	$6·2$	$300·7$	$1·3$	$190·1$	$0·8$	$39·8$
August	$+12·7$	$-10·4$	$-4·2$	$+3·7$	$-1·0$	$-2·5$	$+1·4$	$+0·7$	$16·4$	$129·2$	$5·6$	$311·1$	$2·7$	$201·6$	$1·6$	$62·9$
September	$+9·8$	$-6·0$	$-3·2$	$+4·4$	$-0·8$	$-2·7$	$+1·2$	$+2·0$	$11·5$	$121·6$	$5·4$	$324·2$	$2·8$	$197·0$	$2·3$	$31·8$
October	$+10·8$	$-0·6$	$-4·7$	$+1·0$	$+0·8$	$-3·4$	$0·0$	$+0·8$	$10·8$	$93·1$	$4·8$	$281·3$	$3·5$	$167·3$	$0·8$	$357·0$
November	$+6·8$	$-0·8$	$-3·9$	$-0·6$	$+1·5$	$-2·1$	$+0·7$	$+0·7$	$6·9$	$83·7$	$3·9$	$261·8$	$2·6$	$143·8$	$1·0$	$47·5$
December	$+2·5$	$+1·1$	$-3·7$	$+0·9$	$+1·5$	$-1·2$	$-0·1$	$+0·7$	$2·7$	$66·2$	$3·8$	$283·2$	$1·9$	$127·3$	$0·7$	$349·1$
For the Year	$+7·4$	$-3·8$	$-3·8$	$+1·6$	$+0·4$	$-1·8$	$+0·4$	$+0·9$	$8·3$	$117·1$	$4·1$	$292·4$	$1·9$	$168·7$	$0·9$	$22·6$
VERTICAL FORCE.																
January	$+0·9$	$-0·3$	$-0·9$	$+0·9$	$-0·2$	$-0·3$	$+0·4$	$+0·2$	$1·0$	$109·8$	$1·3$	$313·9$	$0·4$	$213·4$	$0·4$	$60·0$
February	$+4·0$	$+2·3$	$-2·7$	$+0·6$	$+0·5$	$-0·1$	$-0·4$	$-0·2$	$4·6$	$60·0$	$2·8$	$283·3$	$0·5$	$99·8$	$0·4$	$120·0$
March	$+4·2$	$+0·8$	$-3·8$	$+0·8$	$+1·4$	$+0·5$	$-0·5$	$-0·1$	$4·2$	$79·3$	$3·9$	$281·4$	$1·5$	$70·1$	$0·5$	$254·2$
April	$+4·6$	$+0·1$	$-7·0$	$-1·1$	$+1·6$	$+0·9$	$-0·3$	$-0·3$	$4·6$	$89·3$	$7·1$	$260·8$	$1·8$	$61·5$	$0·4$	$311·2$
May	$+8·2$	$+0·5$	$-6·8$	$+0·3$	$+1·7$	$-0·1$	$-0·2$	$+0·1$	$8·2$	$86·8$	$6·8$	$272·5$	$1·7$	$87·3$	$0·2$	$70·2$
June	$+5·3$	$-0·8$	$-5·8$	$-1·2$	$+1·6$	$0·0$	$+0·1$	$-0·4$	$5·4$	$98·3$	$5·9$	$258·3$	$1·6$	$90·3$	$0·4$	$169·1$
July	$+4·3$	$-1·6$	$-5·7$	$+0·2$	$+1·4$	$-0·2$	$-0·1$	$-0·5$	$4·6$	$111·0$	$5·7$	$271·6$	$1·4$	$80·2$	$0·5$	$166·2$
August	$+2·9$	$-1·8$	$-6·5$	$-0·5$	$+2·3$	$-0·3$	$-0·4$	$-0·1$	$3·4$	$121·7$	$6·5$	$266·0$	$2·3$	$83·0$	$0·4$	$251·2$
September	$+3·7$	$-0·9$	$-4·4$	$+0·6$	$+2·8$	$-0·5$	$-0·3$	$+0·4$	$3·8$	$76·1$	$4·5$	$277·3$	$2·8$	$101·1$	$0·5$	$322·4$
October	$+2·0$	$-1·9$	$-2·7$	$+0·1$	$+1·9$	$-0·4$	$-0·8$	$+0·3$	$2·7$	$134·2$	$2·7$	$273·0$	$1·9$	$77·3$	$0·9$	$289·3$
November	$+0·5$	$-1·5$	$-2·6$	$+1·8$	$+1·3$	$-0·3$	$-0·5$	$-0·1$	$1·6$	$160·6$	$3·1$	$304·7$	$1·4$	$103·3$	$0·5$	$260·7$
December	$+1·9$	$+0·6$	$-0·8$	$+0·6$	$+0·4$	$0·0$	$-0·1$	$+0·4$	$2·0$	$73·1$	$1·0$	$306·0$	$0·4$	$93·8$	$0·4$	$349·1$
For the Year	$+3·5$	$-0·2$	$-4·1$	$+0·3$	$+1·4$	$-0·1$	$-0·1$	$0·0$	$3·6$	$93·9$	$4·1$	$273·6$	$1·4$	$86·1$	$0·1$	$273·0$

TABLE XVIII.—RESULTS of DETERMINATIONS of the ABSOLUTE VALUE of HORIZONTAL MAGNETIC FORCE in the YEAR 1914, from Observations made with the GIBSON INSTRUMENT in the MAGNETIC PAVILION.

Greenwich Civil Time, 1914.	In C.G.S. Units. Value of Horizontal Force		Observer.	Greenwich Civil Time, 1914.	In C.G.S. Units. Value of Horizontal Force		Observer.	Greenwich Civil Time, 1914.	In C.G.S. Units. Value of Horizontal Force		Observer.
	as observed.	reduced to Mean of Month.			as observed.	reduced to Mean of Month.			as observed.	reduced to Mean of Month.	
Jan. 7. 13	·18528	·18545	B	May 6. 12	·18531	·18527	B	Sept. 2. 13	·18537	·18529	B
14. 13	·18549	·18557	B	13. 12	·18507	·18564	B	9. 13	·18510	·18510	B
21. 12	·18528	·18554	E	20. 12	·18521	·18520	B	16. 12	·18532	·18509	E
28. 12	·18545	·18543	E	27. 12	·18508	·18544	E	23. 12	·18509	·18549	E
								30. 12	·18526	·18534	E
Feb. 4. 12	·18540	·18528	E	June 16. 13	·18518	·18527	B				
11. 12	·18520	·18522	E	19. 13	·18523	·18518	B	Oct. 7. 11	·18502	·18524	E
18. 13	·18533	·18543	B	23. 12	·18500	·18525	B	14. 11	·18502	·18519	E
25. 13	·18536	·18555	B	26. 11	·18515	·18528	E	21. 12	·18516	·18526	B
								28. 13	·18484	·18540	B
Mar. 4. 13	·18526	·18526	B	July 3. 12	·18521	·18527	B				
11. 13	·18536	·18546	B	8. 13	·18505	·18532	B	Nov. 4. 13	·18476	·18506	B
18. 13	·18528	·18543	E	15. 13	·18508	·18517	B	11. 12	·18479	·18499	E
25. 12	·18529	·18540	E	22. 12	·18516	·18515	E	18. 13	·18522	·18544	E
				29. 11	·18506	·18532	B	25. 11	·18522	·18529	E
Apr. 1. 12	·18516	·18524	E								
8. 12	·18517	·18536	E	Aug. 5. 12	·18506	·18520	E	Dec. 2. 12	·18520	·18514	E
15. 12	·18515	·18531	E	12. 13	·18520	·18514	E	9. 12	·18494	·18505	E
22. 12	·18519	·18540	E	19. 11	·18521	·18553	B	16. 13	·18540	·18525	B
29. 15	·18520	·18510	B	26. 12	·18501	·18536	B	23. 13	·18518	·18526	B
								30. 12	·18513	·18533	B

TABLE XIXA.—RESULTS of OBSERVATIONS of MAGNETIC DIP with the AIRY DIP CIRCLE in the YEAR 1914.

Greenwich Civil Time, 1914.	3-inch Needle.	Magnetic Dip.	Observer.	Greenwich Civil Time, 1914.	3-inch Needle.	Magnetic Dip.	Observer.	Greenwich Civil Time, 1914.	3-inch Needle.	Magnetic Dip.	Observer.
Jan. 2. 13	D₁	66. 47. 53	B	Apr. 7. 11	D₁	66. 48. 3	E	Aug. 17. 15	D₁	66. 51. 9	B
5. 13	D₂	66. 46. 13	B	14. 12	D₂	66. 47. 3	E	24. 13	D₂	66. 49. 6	B
8. 13	D₁	66. 47. 57	B	20. 12	D₂	66. 49. 52	E	31. 13	D₁	66. 47. 51	B
10. 13	D₂	66. 54. 41	B	28. 15	D₁	66. 48. 1	B				
12. 13	D₁	66. 47. 41	B					Sept. 7. 13	D₂	66. 44. 20	B
13. 13	D₂	66. 51. 14	B	May 4. 13	D₂	66. 48. 22	B	14. 13	D₁	66. 48. 59	B
19. 12	D₂	66. 48. 22	E	13. 11	D₁	66. 51. 2	B	21. 12	D₁	66. 48. 55	E
20. 12	D₁	66. 47. 8	E	18. 12	D₁	66. 47. 39	E	28. 12	D₂	66. 48. 8	E
23. 13	D₂	66. 52. 12	E	25. 12	D₂	66. 50. 26	E				
26. 12	D₁	66. 47. 7	E					Oct. 5. 13	D₁	66. 47. 49	E
27. 12	D₂	66. 49. 49	E	June 2. 12	D₁	66. 47. 52	E	12. 12	D₂	66. 50. 31	E
30. 12	D₁	66. 47. 50	E	9. 13	D₂	66. 48. 52	E	19. 13	D₂	66. 46. 48	B
				15. 12	D₂	66. 49. 14	B	26. 13	D₁	66. 48. 32	B
Feb. 2. 12	D₁	66. 50. 5	E	16. 11	D₁	66. 50. 7	B				
9. 12	D₂	66. 49. 54	E	22. 12	D₂	66. 48. 7	B	Nov. 2. 15	D₂	67. 1. 11	B
16. 13	D₂	66. 54. 41	B	29. 13	D₁	66. 51. 18	B	9. 12	D₁	66. 51. 41	B
24. 12	D₁	66. 46. 27	B					16. 13	D₂	66. 49. 56	E
				July 6. 13	D₂	66. 49. 21	B	23. 12	D₁	66. 51. 17	E
Mar. 3. 12	D₂	66. 47. 48	B	13. 12	D₁	66. 51. 50	B	30. 12	D₂	66. 53. 48	E
9. 13	D₁	66. 49. 18	B	20. 13	D₁	66. 51. 25	E				
16. 13	D₂	66. 48. 18	B	27. 15	D₂	66. 47. 27	B	Dec. 7. 12	D₁	66. 47. 59	E
23. 12	D₁	66. 45. 52	E					14. 12	D₂	66. 52. 59	E
30. 12	D₂	66. 47. 42	E	Aug. 4. 12	D₁	66. 49. 56	E	21. 13	D₂	66. 54. 6	B
				11. 12	D₂	66. 48. 53	E	28. 13	D₁	66. 49. 41	B

The initials B and E are those of Messrs. Bryant and Edney respectively.

TABLE XIX.—RESULTS of OBSERVATIONS of MAGNETIC DIP made with the DIP INDUCTOR in the YEAR 1914.

Greenwich Civil Time, 1914.	Magnetic Dip.	Observer.	Greenwich Civil Time, 1914.	Magnetic Dip.	Observer.	Greenwich Civil Time, 1914.	Magnetic Dip.	Observer.	Greenwich Civil Time, 1914.	Magnetic Dip.	Observer.
d h	° ′		d h	° ′		d h	° ′		d h	° ′	
Jan. 8. 13	66. 50·2	B	Apr. 9. 11	66. 52·4	E	July 13. 16	66. 50·7	C	Oct. 6. 12	66. 51·8	B
13. 13	66. 48·5	B	9. 12	66. 51·7	C	14. 13	66. 51·4	B	8. 12	66. 52·2	E
16. 11	66. 50·6	C	17. 12	66. 51·2	E	17. 11	66. 51·0	E	10. 12	66. 52·7	J
16. 12	66. 49·0	B	21. 12	66. 50·9	C	21. 11	66. 51·0	C	13. 15	66. 52·4	B
20. 15	66. 49·6	B	23. 12	66. 50·5	E	23. 15	66. 50·3	B	15. 11	66. 53·0	E
22. 12	66. 50·6	E	24. 13	66. 51·0	B	24. 11	66. 52·3	E	17. 12	66. 52·4	J
26. 11	66. 49·9	C	28. 14	66. 50·2	B	27. 11	66. 52·7	C	20. 12	66. 52·2	B
30. 12	66. 50·1	E				28. 12	66. 52·4	B	22. 12	66. 52·9	E
30. 15	66. 49·7	B	May 6. 15	66. 49·8	B	31. 13	66. 51·1	E	24. 12	66. 52·3	J
31. 10	66. 48·9	C	7. 13	66. 50·4	B				27. 13	66. 52·2	B
			8. 12	66. 50·5	E	Aug. 4. 10	66. 52·5	B	29. 12	66. 55·1	E
Feb. 3. 13	66. 48·6	B	13. 12	66. 52·5	B	6. 11	66. 52·6	C	31. 12	66. 53·0	J
6. 12	66. 51·4	C	15. 12	66. 50·4	E	7. 12	66. 53·1	E			
9. 16	66. 49·6	C	19. 13	66. 51·4	B	10. 13	66. 52·3	B	Nov. 3. 13	66. 52·9	B
9. 16	66. 50·1	C	21. 15	66. 50·0	C	12. 12	66. 52·0	C	5. 11	66. 52·9	E
10. 12	66. 49·9	B	22. 11	66. 50·9	E	14. 11	66. 52·6	E	7. 12	66. 52·5	J
13. 12	66. 50·0	E	26. 12	66. 50·7	E	18. 13	66. 50·7	B	10. 13	66. 51·6	B
16. 15	66. 49·9	C	26. 15	66. 48·7	C	21. 12	66. 51·6	B	12. 12	66. 53·9	E
20. 12	66. 51·1	E	29. 15	66. 50·5	B	21. 14	66. 51·7	C	14. 11	66. 54·9	J
24. 13	66. 49·6	B	June 2. 13	66. 51·7	B	24. 13	66. 50·8	C	17. 12	66. 52·2	E
27. 12	66. 50·1	E	5. 11	66. 51·5	C	25. 13	66. 51·4	B	19. 11	66. 52·2	E
27. 15	66. 50·1	B	5. 11	66. 51·3	E	28. 13	66. 53·0	B	21. 13	66. 50·6	J
			9. 12	66. 51·3	B				24. 13	66. 52·6	B
Mar. 3. 13	66. 51·0	B	10. 15	66. 49·2	C	Sept. 1. 13	66. 50·3	B	26. 12	66. 50·7	E
3. 15	66. 50·6	C	12. 11	66. 51·8	E	1. 16	66. 50·7	C	28. 11	66. 49·4	J
6. 12	66. 50·8	E	16. 11	66. 51·7	B	4. 13	66. 50·0	E			
10. 13	66. 50·2	B	18. 11	66. 50·4	C	8. 13	66. 51·3	B	Dec. 1. 13	66. 54·0	B
13. 12	66. 51·0	E	19. 10	66. 51·1	E	11. 11	66. 52·2	E	4. 12	66. 51·1	E
14. 12	66. 49·8	C	23. 11	66. 52·9	B	12. 13	66. 51·8	C	5. 13	66. 50·8	J
17. 13	66. 50·5	B	26. 12	66. 51·8	E	15. 16	66. 50·7	B	8. 13	66. 51·5	B
20. 12	66. 50·5	E	26. 15	66. 50·7	C	18. 11	66. 52·3	C	10. 12	66. 52·3	E
24. 13	66. 48·0	B	30. 11	66. 51·7	C	18. 12	66. 51·7	E	12. 11	66. 51·6	J
25. 16	66. 49·6	C	30. 13	66. 51·8	B	21. 14	66. 53·2	C	15. 13	66. 50·9	B
27. 12	66. 50·4	E				22. 15	66. 50·2	B	17. 11	66. 51·0	E
31. 13	66. 50·3	B	July 3. 11	66. 51·6	E	25. 11	66. 52·7	E	19. 11	66. 51·6	J
Apr. 3. 12	66. 51·5	E	7. 13	66. 51·7	B	29. 13	66. 53·8	B	22. 11	66. 50·8	E
3. 16	66. 49·9	C	9. 11	66. 51·2	C	Oct. 2. 11	66. 53·0	E	24. 13	66. 50·3	B
6. 14	66. 52·3	C	10. 11	66. 52·9	E	3. 13	66. 51·7	B	29. 13	66. 51·3	B
									31. 10	66. 51·2	E

The initials B, E, C, and J are those of Messrs. Bryant, Edney, Chapman, and Jones.

TABLE XX.—ANNUAL SUMMARY of the MAGNETIC ELEMENTS.

Month, 1914.	Mean Value of				Monthly Mean Diurnal Range of			Sum of Hourly Deviations from Mean of		
	Westerly Declination.	Horizontal Force C.G.S.	Vertical Force C.G.S.	Dip.	Declination.	Horizontal Force.	Vertical Force.	Declination.	Horizontal Force.	Vertical Force.
January	15. 10·0	·18550	·43337	66. 49·7	2·6	7 γ	5 γ	15·5	33 γ	25 γ
February	15. 8·9	·18536	·43331	66. 50·3	4·0	7	13	22·8	41	72
March	15. 8·5	·18539	·43316	66. 50·4	6·3	18	15	34·9	101	78
April	15. 8·5	·18527	·43317	66. 51·3	8·1	27	23	42·8	161	115
May	15. 7·8	·18539	·43304	66. 50·8	8·2	32	25	42·3	190	156
June	15. 7·2	·18525	·43322	66. 51·4	8·2	41	21	46·6	239	109
July	15. 5·1	·18527	·43355	66. 51·6	8·4	38	20	48·0	243	96
August	15. 5·3	·18527	·43343	66. 52·1	8·8	40	22	46·4	246	103
September	15. 4·2	·18521	·43354	66. 51·7	8·1	32	18	42·9	184	83
October	15. 3·7	·18534	·43368	66. 52·6	5·7	29	12	30·1	178	56
November	15. 3·6	·18514	·43338	66. 52·2	4·6	19	12	22·3	121	48
December	15. 2·5	·18524	·43311	66. 51·4	3·5	14	7	17·5	63	33
The Year	15. 6·3	·18530	·43333	66. 51·3	6·38	25·3	16·1	34·34	150·0	81·2

ROYAL OBSERVATORY, GREENWICH.

MAGNETIC DISTURBANCES.

1914.

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE,
recorded at the ROYAL OBSERVATORY, GREENWICH, in the YEAR 1914.

The following notes give a brief description of all magnetic movements (superposed on the ordinary diurnal movement) exceeding $3'$ in Declination, 20γ in Horizontal Force, or 12γ in Vertical Force, as taken from the photographic records of the respective Magnetometers. The movements in Horizontal 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 movements 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 o to 24).

1914.

January 1^d 10^h to 16^h Loss of register in all elements.

4^d 23^h to 5^d 2^h Quadruple wave in H. F. ($- 20, + 40, - 20, + 15$) and in Dec. ($+ 3', - 2', + 3', - 6'$).

5^d 0^h to $0\frac{1}{2}^h$ Decrease in V.F. ($- 22$). $13\frac{1}{2}^h$ to $15\frac{1}{2}^h$ Wave in H.F. ($- 25$).

7^d $19\frac{1}{2}^h$ to 21^h Double-crested wave in Dec. ($- 3', - 4'$).

8^d 21^h to 23^h Double-crested wave in Dec. ($- 5', - 3'$).

14^d 22^h to $23\frac{1}{2}^h$ Wave in Dec. ($- 6'$). 22^h to 23^h Wave in H.F. ($+ 20$).

15^d 23^h to 16^d 3^h Quadruple wave in Dec. ($+ 3', - 3', + 1', - 5'$).

16^d $0\frac{1}{2}^h$ to 2^h Double wave in H.F. ($- 15, + 15$). $1\frac{1}{4}^h$ to $1\frac{1}{2}^h$ Decrease in V.F. ($- 9$). 18^h to 19^h Wave in Dec. ($- 3'$).

17^d $10\frac{1}{4}^h$ to 11^h Wave in H.F. (-20).

22^d 2^h to 5^h Triple wave in H.F. ($- 15, + 20, - 15$) and in Dec. ($-2', + 8', - 5'$). 1^h to $4\frac{1}{2}^h$ Decrease in V.F. ($- 16$), with superposed double wave ($+ 5, - 10$) from $2\frac{1}{2}^h$ to $4\frac{1}{2}^h$. $19\frac{1}{2}^h$ to 23^h Wave in Dec. ($-8'$), with peak at $20\frac{1}{2}^h$; small movements in H.F. 23^h to 24^h Wave in Dec. ($+ 5'$) and in H.F. ($+20$); decrease in V.F. ($- 15$).

February 2^d 15^h to 18^h Wave in Dec. ($- 3'$).

3^d 14^h to 18^h Wave in H.F. ($- 40$), with peak at $16\frac{3}{4}^h$; two small waves in Dec. ($- 3', - 3'$), with peaks at $14\frac{1}{4}^h$, $16\frac{3}{4}^h$. $21\frac{1}{4}^h$ to 23^h Wave in Dec. ($- 5'$), with peak at $21\frac{1}{2}^h$.

4^d 5^h to $6\frac{1}{4}^h$ Wave in Dec. ($+ 5'$). 21^h to 22^h Wave in H.F. ($+ 25$). 21^h to $22\frac{1}{2}^h$ Wave in Dec. ($- 5'$), with steep rise.

5^d $2\frac{1}{4}^h$ to 4^h Flat-crested wave in Dec. ($+ 4'$).

6^d $5\frac{3}{4}^h$ to 8^h Double-crested wave in Dec. ($+ 3', + 2'$). 15^h to 20^h Wave in H.F. ($- 35$), with its peak at 18^h. $17\frac{3}{4}^h$ to $18\frac{1}{4}^h$ Wave in Dec. ($+ 3'$), followed by decrease ($- 5'$) till 20^h.

12^d $23\frac{3}{4}^h$ to 13^d $0\frac{1}{4}^h$ Small wave in Dec. ($+ 3'$).

14^d $14\frac{3}{4}^h$ to $15\frac{1}{2}^h$ Decrease in H.F. ($- 30$). $23\frac{1}{2}^h$ to 15^d $2\frac{1}{2}^h$ Wave in Dec. ($- 5'$), with flat crest and slow decline, also followed by two similar but smaller waves.

16^d $20\frac{1}{2}^h$ to 21^h Sharp wave in Dec. ($- 4'$).

17^d 0^h to 1^h Pointed wave in H.F. ($+ 20$). 21^h to $22\frac{1}{4}^h$ Truncated wave in Dec. ($- 4'$); decrease ($- 3'$) to $23\frac{1}{2}^h$, recovery ($+ 3'$) and return ($- 3'$) at 18^d $0\frac{1}{4}^h$, slow increase ($+ 2'$) to $1\frac{1}{2}^h$, and wave ($- 6'$) from $1\frac{1}{2}^h$ to 3^h, with peak at $1\frac{3}{4}^h$. 17^d $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Decrease in H.F. ($- 20$), with slow oscillatory return at about 18^d 6^h.   Decrease in V.F. ($- 12$) from 18^d $1\frac{3}{4}^h$ to $2\frac{1}{2}^h$.

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February 20^d 20^h to $21\frac{3}{4}^h$ Wave in Dec. ($-4'$).

22^d $7\frac{1}{2}^h$ to $11\frac{1}{2}^h$ Loss of register in V.F.

22^d 20^h to 22^h, 22^h to 23^d 2^h Two successive waves in Dec. ($-8'$, $-6'$) ; small oscillations in H.F.

28^d 12^h to 16^h Wave in H.F. ($+25$). 20^h to March 1^d 1^h Wave in Dec. ($-10'$), with peak at $22\frac{1}{2}^h$; wave in H.F., with two peaks (-30, -35) at $20\frac{1}{2}^h$, $22\frac{3}{4}^h$.

March 1^d $15\frac{1}{2}^h$ to 18^h, 18^h to $19\frac{1}{2}^h$ Two waves in H.F. (-25, -30). $18\frac{3}{4}^h$ to $20\frac{3}{4}^h$ Wave in Dec. ($-8'$), with peak at $19\frac{1}{4}^h$.

2^d $0\frac{1}{2}^h$ to $1\frac{1}{2}^h$, $1\frac{1}{2}^h$ to 3^h Two waves in H.F. ($+30$, $+20$), with steep commencement in the former. $0\frac{1}{2}^h$ to $1\frac{1}{4}^h$ Small double wave in Dec. ($\pm1'$). $1\frac{1}{2}^h$ to $3\frac{1}{4}^h$ Wave in Dec. ($-5'$). $0\frac{1}{2}^h$ to 2^h Decrease in V.F. (-25). 8^h to 17^h Abnormal daily motion in V.F. (-25). 11^h to $16\frac{1}{4}^h$ Loss of register in H.F. 17^h to 3^d 7^h Long series of small deviations ($-5'$, $-5'$, $-4'$, $-6'$, $-5'$, $-2'$, $-3'$) of Dec., with occasional returns to the normal ; also slight movements in H.F. to 3^d 4^h.

3^d 4^h to 7^h Wave in H.F. ($+35$). 4^h to 6^h Decrease in V.F. (-25).

4^d $17\frac{1}{4}^h$ to 19^h Wave in Dec. ($-4'$). $21\frac{1}{4}^h$ to 23^h Waves with sharp commencement in H.F. ($+35$) and in Dec. ($-6'$).

5^d $1\frac{3}{4}^h$ to 3^h Wave in Dec. ($+3'$).

6^d $3\frac{1}{2}^h$ to 6^h Double wave in Dec. ($+4'$, $-5'$), wave in H.F. ($+25$). 4^h to $4\frac{1}{2}^h$ Decrease in V.F. (-15). 15^h to $18\frac{1}{2}^h$ Flat-crested wave in H.F. (-25). $21\frac{1}{2}^h$ to 7^d 2^h Double wave in Dec., with subsidiary waves superposed ; main peaks at $22\frac{1}{2}^h$ ($-13'$) and 7^d $0\frac{3}{4}^h$ ($+4'$). 22^h to $23\frac{3}{4}^h$ Sharp wave in H.F. ($+45$), with net decrease (-20). 22^h to 7^d $0\frac{1}{4}^h$ Wave in V.F. (-12).

7^d $0\frac{1}{4}^h$ to $1\frac{3}{4}^h$ Decrease in V.F. (-15). $17\frac{3}{4}^h$ to $18\frac{3}{4}^h$ Wave in Dec. ($-3'$). 23^h to 8^d $1\frac{3}{4}^h$ Wave in Dec. ($-4'$.)

9^d $23\frac{1}{4}^h$ to 10^d 1^h Wave in H.F. ($+20$).

10^d $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Sharp-peaked wave in H.F. ($+30$), flat-crested wave in Dec. ($-3'$).

11^d $19\frac{3}{4}^h$ to 24^h Wave in Dec., with two sharp peaks ($-7'$, $-6'$) at $20\frac{1}{4}^h$ and 22^h, and intervening minimum ($-2'$) ; small movements in H.F.

12^d 18^h to 19^h Small double wave in H.F. (-15, $+15$). 18^h to $19\frac{1}{4}^h$ Wave in Dec. ($-8'$), with steep commencement.

15^d $1\frac{3}{4}^h$ to 5^h Shallow wave in Dec. ($-3'$). $13\frac{3}{4}^h$ to $14\frac{1}{4}^h$ Decrease in Dec. ($-3'$). 14^h to $15\frac{1}{2}^h$ Wave in H.F. ($+20$). 17^h to 20^h Wave in H.F. (-35), with superposed wave (-25) from $18\frac{1}{2}^h$ to $19\frac{3}{4}^h$. 18^h to 20^h Wave in Dec. ($-12'$). $22\frac{1}{4}^h$ to 16^d $2\frac{1}{2}^h$ Wave in Dec. ($-5'$), amd small oscillations in H.F. 16^h to 20^h Wave in V.F. ($+25$).

17^d $18\frac{1}{2}^h$ to 18^d 3^h Oscillations in H.F., positive till 21^h, and afterwards negative (±25). 21^h to 18^d 3^h Oscillations in Dec., negative till 18^d 2^h, and positive ($+7'$) from 2^h to 3^h ; main peak ($-11'$) at $21\frac{3}{4}^h$. 21^h to 18^d 3^h Wave in V.F. ($+12$).

20^d $20\frac{3}{4}^h$ to $21\frac{1}{2}^h$ Wave in Dec. ($-4'$).

23^d $20\frac{1}{2}^h$ to 22^h Small double-crested wave in Dec. ($-3'$, $-3'$).

24^d $20\frac{1}{2}^h$ to 25^d 2^h Negative waves in Dec., with peaks at $21\frac{1}{4}^h$ ($-7'$), $22\frac{1}{4}^h$ ($-8'$), $23\frac{3}{4}^h$ ($-12'$), and $1\frac{3}{4}^h$ ($-4'$). 22^h to $23\frac{1}{2}^h$ Wave in H.F. (-20). $23\frac{1}{2}^h$ to 25^d $0\frac{1}{2}^h$ Double wave in H.F. ($+20$, -30).

25^d 18^h to 22^h Wave in Dec., with peaks at $18\frac{1}{2}^h$ ($-4'$), $19\frac{1}{4}^h$ ($-5'$).

26^d 20^h to $22\frac{1}{2}^h$ Wave in Dec. ($-3'$). 23^h to $23\frac{3}{4}^h$ Wave in Dec. ($+5'$) and in H.F. ($+20$).

27^d 3^h to 5^h Wave in Dec. ($+4'$). $21\frac{1}{4}^h$ to $22\frac{1}{2}^h$ Wave in Dec. ($-5'$), and small wave in H.F. ($+15$).

April 1^d 15^h to 19^h Oscillations ($\pm3'$, ±20) in Dec. and H.F. superposed on normal curve. 22^h to 23^h Wave in Dec. ($-3'$) and H.F. ($+20$).

2^d 15^h to 16^h Wave ($+20$) and double wave ($+20$, -25) in H.F. $23\frac{1}{2}^h$ to 3^d $1\frac{1}{2}^h$ Small movements in Dec. Two waves in Dec. ($+2'$, $+3'$) and in H.F. ($+20$ $+20$).

6^d 5^h to 7^d 5^h See Plate I.

7^d $14\frac{1}{2}^h$ to 22^h Several rapid oscillations in H.F. chiefly ($17\frac{1}{4}^h$ to $18\frac{1}{4}^h$, $+35$ to -35). $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Waves in H.F. ($+50$), V.F. (-20), and Dec. ($-5'$).

8^d 1^h to $4\frac{1}{2}^h$ Waves in Dec. ($+5'$, $+2'$, $-4'$, $+1'$). $1\frac{1}{2}^h$ to $5\frac{1}{4}^h$ Waves in H.F. (-15, ±10, $+25$). 2^h to $4\frac{1}{2}^h$ Decrease in V.F. (-30). $5\frac{1}{4}^h$ to $6\frac{1}{2}^h$, $6\frac{1}{2}^h$ to $9\frac{1}{4}^h$ Two waves in H.F. (-20, -30). $16\frac{1}{2}^h$ to 19^h Wave in Dec. ($-6'$), with peak at 17^h ; double wave in H.F. (-25, $+10$) ; wave in V.F. ($+15$). $21\frac{1}{2}^h$ to 23^h Double-crested wave in Dec. ($-3'$, $-3'$), wave in H.F. ($+25$).

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April

9^d $0\frac{3}{4}^h$ to $1\frac{1}{3}^h$ Flat-crested wave in Dec. ($+ 3'$). 20^h to $21\frac{1}{2}^h$ Wave in Dec. ($- 6'$), with steep commencement, double wave in H.F. ($- 20, + 20$). $23\frac{3}{4}^h$ to 10^d $1\frac{3}{4}^h$ Wave in Dec. ($- 3'$).

10^d $18\frac{1}{2}^h$ to $19\frac{1}{4}^h$ Wave in H.F. ($+ 20$). $18\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Truncated wave in Dec. ($- 5'$).

11^d $19\frac{1}{2}^h$ to 20^h Wave in Dec. ($- 3'$) and in H.F. ($+ 20$). 23^h to 12^d $0\frac{3}{4}^h$ Wave in H.F. ($+ 20$).

16^d 2^h to 4^h Double wave in Dec. ($+ 4', - 2'$); small waves in H.F. ($+ 12, + 20$). 2^h to $3\frac{1}{4}^h$ Decrease in V.F. ($- 16$). $11\frac{1}{2}^h$ to 15^h Quadruple wave in H.F. ($- 18, + 18, - 12, + 15$). 13^h to $14\frac{1}{2}^h$ Wave in Dec. ($- 3'$). 15^h to $16\frac{1}{2}^h$ Wave in Dec. ($- 5'$). $17\frac{3}{4}^h$ to $18\frac{1}{4}^h$ Wave in Dec. ($- 3'$). 21^h to $22\frac{1}{4}^h$ Wave in H.F. ($+ 30$). $22\frac{1}{4}^h$ to 17^d 2^h Double wave in H.F. ($- 15, + 15$). 21^h to 24^h Wave in V.F. ($+ 15$), following upon unusually large diurnal movement in V.F. (range 45).

17^d $19\frac{1}{2}^h$ to $20\frac{1}{3}^h$ Wave in H.F. ($+ 20$). 22^h to 23^h Wave in H.F. ($+ 20$), with steep rise. $23\frac{3}{4}^h$ to 18^d 1^h Wave in H.F. ($+ 20$).

19^d 0^h to 3^h Decrease in V.F. ($- 16$). 0^h to 6^h Small movements in H.F. (± 15) and Dec. ($\pm 2'$). $20\frac{1}{2}^h$ to $21\frac{3}{4}^h$ Two waves in Dec. ($+ 2', + 5'$). $20\frac{3}{4}^h$ to 22^h Decrease in V.F. ($- 16$). $21\frac{1}{4}^h$ to $22\frac{1}{4}^h$ Wave in H.F. ($+ 25$).

21^d $19\frac{1}{2}^h$ to $21\frac{3}{4}^h$ Triple wave in Dec. ($-, +, -$, range $3'$).

23^d $20\frac{1}{2}^h$ to 21^h Decrease ($- 5'$) in Dec., slow recovery to 24^d 1^h, and further decrease ($- 4'$) to 24^d 2^h.

24^d 15^h to 19^h Oscillations in H.F. (± 12). 18^h to 20^h Flat-crested wave in Dec. ($- 4'$).

27^d $15\frac{3}{4}^h$ to 19^h Irregular oscillations in H.F. (± 20); increase in V.F. ($+ 27$).

May

6^d 22^h to 24^h Wave in Dec. ($- 6'$).

8^d $19\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Wave in H.F. ($+ 20$).

15^d 14^h to 15^h Wave in H.F. ($+ 25$). $16\frac{1}{4}^h$ to 18^h Oscillations in H.F. (± 15). $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in Dec. ($- 3'$). $22\frac{1}{4}^h$ to 16^d 6^h Double wave in Dec. ($+ 3', - 9'$), with peaks at $22\frac{1}{2}^h$ and 16^d $0\frac{1}{4}^h$. $23\frac{1}{2}^h$ to 16^d $1\frac{1}{2}^h$ Wave in H.F. ($+ 30$).

17^d 0^h to $4\frac{1}{2}^h$ Triple wave in Dec. ($- 2', + 2', - 2'$). $4\frac{1}{2}^h$ to 6^h Decrease in V.F. ($- 12$). $6\frac{3}{4}^h$ to $7\frac{1}{2}^h$ Oscillations in H.F. and Dec. 8^h to $9\frac{1}{2}^h$ Wave in Dec. ($+ 3'$). 13^h to 14^h Wave in H.F. ($+ 30$). $15\frac{3}{4}^h$ to $16\frac{1}{4}^h$ Serrated wave in H.F. ($+ 25$).

25^d $13\frac{1}{2}^h$ to 14^h. Pointed wave in H.F. ($- 20$). 17^h to $18\frac{1}{4}^h$ Wave in H.F. ($- 20$). $19\frac{3}{4}^h$ to $20\frac{3}{4}^h$ Wave in H.F. ($- 25$). 20^h to 21^h Wave in Dec. ($- 3'$). $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Increase ($+ 2'$) and decrease ($- 5'$) in Dec.

26^d $13\frac{3}{4}^h$ to $14\frac{3}{4}^h$ Wave in H.F. ($- 4{\cdot}5$). $14\frac{3}{4}^h$ to 19^h Oscillations in H.F. (± 15). $21\frac{1}{2}^h$ to 23^h Wave in Dec. ($- 6'$) and H.F. ($+ 28$). 31^d 6^h to June 1^d 6^h. See Plate I.

June

1^d 23^h to 2^d $0\frac{1}{2}^h$ Truncated wave in H.F. ($+ 40$). 23^h to $23\frac{1}{4}^h$ Wave in Dec. ($- 3'$).

2^d 10^h to 23^h Slight movements (± 15) in H.F., with sharp wave ($+ 20$) from $15\frac{1}{4}^h$ to $15\frac{1}{2}^h$.

3^d 3^h to $4\frac{1}{4}^h$ Wave in H.F. (-20). $3\frac{1}{4}^h$ to 5^h Wave in Dec. ($+ 3$).

7^d $17\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Double wave in H.F. ($+15, -15$).

8^d $16\frac{1}{4}^h$ to $17\frac{1}{4}^h$ Wave in H.F. (-25). $19\frac{1}{2}^h$ to $20\frac{3}{4}^h$ Wave in Dec. ($- 3'$) and double wave in H.F. ($- 15, + 15$).

11^d $19\frac{1}{4}^h$ to 21^h Wave in Dec. ($- 3'$).

12^d 18^h to 13^d $9\frac{1}{2}^h$ Loss of register in H.F. and Dec.

15^d 3^h to 4^h Wave in Dec. ($+ 3'$).

19^d 16^h to 18^h Increase in H.F. ($+ 35$), slowly recovering, with superposed waves (± 20, from $19\frac{1}{2}^h$ to 21^h), to about 20^d 6^h. $21\frac{1}{2}^h$ to 20^d $0\frac{1}{2}^h$ Triple wave in Dec. ($- 3', + 4', -7'$), the peaks occurring at $22\frac{1}{4}^h$, $22\frac{1}{2}^h$, 23^h. $22\frac{1}{2}^h$ to $22\frac{3}{4}^h$ Sharp decrease in V.F. ($- 20$).

20^d $14\frac{1}{4}^h$ to $16\frac{1}{4}^h$ Wave in H.F. ($- 20$). $16\frac{1}{2}^h$ to $17\frac{1}{2}^h$ Wave in H.F. ($- 35$), with rapid commencement.

25^d 13^h to 14^h Two waves in H.F. ($+ 20, + 30$). $14\frac{1}{2}^h$ to $15\frac{3}{4}^h$ Double wave in H.F. ($+ 40, -45$). $15\frac{3}{4}^h$ to 19^h Wave in H.F., with irregular crest ($- 40$).

26^d $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Wave in H.F. ($- 30$). 23^h to 27^d 9^h Loss of register in H.F., Dec., and V.F.

27^d 20^h to 28^d 6^h Movements in Dec., with turning points at $20\frac{1}{2}^h$ ($- 2'$), 21^h ($+ 2'$), $21\frac{1}{4}^h$ ($- 3'$), 23^h ($+ 1'$), $23\frac{1}{2}^h$ ($- 5'$), 28^d $0\frac{1}{2}^h$ ($+ 6'$); the last is followed by a rapid decrease in Dec. ($- 10'$) and V.F. ($- 25$) till $0\frac{3}{4}^h$. 21^h to 22^h Wave in H.F. ($+ 20$).

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June

28^d 2^h to 3^h Wave in H.F. (− 30) ; increase in Dec. (+ 6′). 3^h to 3$\frac{1}{2}$^{h} Decrease in Dec. (− 4′) and in V.F. (− 12). 3$\frac{1}{2}$^{h} to 5$\frac{1}{2}$^{h} Further decrease in Dec. (− 6′). 3$\frac{1}{2}$^{h} to 7$\frac{1}{2}$^{h} Increase in V.F. (+ 15). 20^h to 21^h Wave in H.F. (+ 40) and oscillations in Dec. (± 2′).

29^d 3^h to 5^h Wave in Dec. (+ 4′). 20$\frac{3}{4}$^{h} to 21$\frac{1}{4}$^{h} Decrease in Dec. (−6′), with slow recovery to 30^d 1^h.

30^d 2^h to 4^h Wave in Dec. (+ 4′).

July

5^d 1^h to 6^d 1^h See Plate II.

6^d 1^h to 2$\frac{1}{4}$^{h} Wave in Dec. (− 3′). 2^h to 2$\frac{3}{4}$^{h} Wave in H.F. (+ 20).

9^h 21$\frac{1}{2}$^{h} to 10^d 1^h Wave in Dec. (− 4′), followed by decrease (− 5′) to 10^d 3^h. Oscillations in H.F. (± 10) from 9^d 21^h to 10^d 3^h.

15^d 20$\frac{1}{4}$^{h} to 21$\frac{1}{2}$^{h} Wave in Dec. (− 3′).

21^d 3$\frac{1}{2}$^{h} to 4$\frac{1}{2}$^{h} Wave in Dec. (+ 4′). 22$\frac{1}{2}$^{h} to 22^d 0$\frac{1}{2}$^{h} Wave in Dec. (− 5′).

22^d 0$\frac{1}{2}$^{h} to 1$\frac{1}{2}$^{h} Wave in Dec. (− 4′) and small wave in H.F. (+ 15). 20$\frac{1}{2}$^{h} to 22$\frac{3}{4}$^{h} Wave in Dec. (− 5′).

23^d 16$\frac{1}{2}$^{h} to 19^h Irregular oscillations in H.F. (± 20).

24^d 13^h to 21^h Oscillations in H.F. (± 12), followed, from 21^h to 25^d 2^h, by irregular triple wave (+ 40, − 30, + 25). 21^h to 23^h Wave in Dec. (− 7′), with steep rise and gradual, oscillatory decline.

25^d 3$\frac{3}{4}$^{h} to 4$\frac{1}{4}$^{h} Decrease in Dec. (− 4′) ; increase (+ 5′) to 4$\frac{1}{2}$^{h}, and return (− 5′) to 4$\frac{3}{4}$^{h} ; increase (+ 10′) to 6$\frac{1}{4}$^{h}, and decrease (− 8′) to 9^h. 5$\frac{3}{4}$^{h} to 7^h Wave in H.F. (− 30). 12$\frac{1}{2}$^{h} to 14^h Triple wave in H.F. (+ 10, − 20, + 10) and in Dec. (− 1′, + 2′, − 1′). 20$\frac{1}{4}$^{h} to 20$\frac{1}{2}$^{h} Decrease in Dec. (− 3′), with slow recovery. 23$\frac{1}{2}$^{h} to 26^d 0$\frac{1}{2}$^{h} Wave in H.F. (− 20).

26^d 3$\frac{1}{2}$^{h} to 5$\frac{1}{2}$^{h}, 7$\frac{1}{2}$^{h} to 9$\frac{1}{2}$^{h} Waves in H.F. (− 25, − 25), superposed on diurnal curve. 4^h to 5$\frac{1}{4}$^{h} Wave in Dec. (+ 4′), followed till 9^h by further wave (− 5′). 21$\frac{1}{4}$^{h} to 21$\frac{3}{4}$^{h} Wave in H.F. (+ 30) and in Dec. (− 3′).

28^d 3^h to 8$\frac{1}{2}$^{h} Slow oscillations in Dec. (± 2′). 14^h to 15^h Movements in Dec. (− 5′) and in H.F. (+ 45), forming chief features of irregular double waves in Dec. and H.F. 21^h to 23^h Double wave in Dec. (− 4′, + 4′), and wave in H.F. (+ 25).

29^d 10^h to 31^d 10^h See Plate II.

31^d 10^h to 11^h Decrease in H.F. (− 50), followed by increase till 14$\frac{1}{2}$^{h}. 14$\frac{1}{2}$^{h} to 19$\frac{1}{4}$^{h} Irregular waves in H.F. (+ 20, − 40, + 30, − 20, + 20). 15$\frac{1}{2}$^{h} to 19^h Two waves in Dec. (− 8′, − 5′).

August

1^d 0^h to 3^h Small oscillations in Dec., with peak (+ 3′) at 2^h. 10$\frac{3}{4}$^{h} to 11^h Decrease in H.F. (− 30), followed by increase (+ 70) till 13$\frac{1}{2}$^{h}. 14^h to 20$\frac{1}{2}$^{h} Oscillations in H.F. (± 15). 22^h to 23^h Wave in H.F. (+ 55) and double wave in Dec. (− 5′, + 2′), both with rapid commencement. 22^h to 2^d 1^h Wave in V.F. (− 12).

2^d 7^h to 9^h Wave in H.F. (− 50). 13^h to 17$\frac{1}{2}$^{h} Oscillations in H.F. (± 15). 16$\frac{3}{4}$^{h} to 17$\frac{1}{2}$^{h} Wave in V.F. (+ 20). 17$\frac{3}{4}$^{h} to 19$\frac{1}{2}$^{h} Double wave in H.F., the first wave having two crests (−20, − 20, + 15). 18^h to 19^h Wave in Dec. (− 4′). 21$\frac{1}{2}$^{h} to 22^h Wave in H.F. (− 25).

3^d 6$\frac{1}{2}$^{h} to 10^h Oscillations in H.F. (± 10) and Dec. (± 2′). 14^h to 15$\frac{1}{4}$^{h} Wave in H.F. (− 50). 15$\frac{1}{4}$^{h} to 19$\frac{1}{2}$^{h} Oscillations in H.F. (± 10). 19$\frac{1}{2}$^{h} to 21$\frac{1}{2}$^{h} Triple-peaked wave in Dec. (− 6′, −12′, − 10′) and in H.F. (+ 40, + 65, + 30).

4^d 1$\frac{1}{2}$^{h} to 5^h Two waves in Dec. (+ 3′, + 6′). 2^h to 4^h Triple wave in H.F. (+ 10, − 20, + 15). 16^h to 16$\frac{3}{4}$^{h} Double wave in H.F. (+ 10, − 10). 21^h to 23$\frac{1}{2}$^{h} Double wave in H.F. (+ 20, − 20).

5^d 21$\frac{3}{4}$^{h} to 23^h Wave in H.F. (+ 25) and in Dec. (− 3′).

6^d 1^h to 5^h Oscillations in Dec. (± 2′). 5^h to 6$\frac{1}{2}$^{h} Wave in H.F. (− 35) and in Dec. (+ 3′). 15$\frac{3}{4}$^{h} to 17$\frac{1}{2}$^{h} Double wave in H.F. (+ 20, − 25). 16$\frac{1}{2}$^{h} to 17$\frac{1}{4}$^{h} Decrease in Dec. (− 5′), followed by further oscillatory decrease till 21$\frac{1}{2}$^{h}. 20^h to 22^h Two waves in H.F. (− 30, − 35). 23^h to 7^d 0$\frac{1}{2}$^{h} Double wave in Dec. (+ 3′, − 3′).

7^d 2$\frac{1}{2}$^{h} to 6^h Wave in Dec. (+ 4′). 16$\frac{1}{4}$^{h} to 16$\frac{3}{4}$^{h} Wave in H.F. (+ 20).

9^d 6$\frac{1}{2}$^{h} to 15^h Loss of register in Dec.

11^d 10$\frac{1}{2}$^{h} to 15$\frac{1}{2}$^{h} Loss of register in V.F. 15^h to 19^h Oscillations in H.F., with peaks at 16$\frac{3}{4}$^{h} (+ 20) and 17$\frac{3}{4}$^{h} (− 25). 22$\frac{1}{2}$^{h} to 24^h Two waves in H.F. (+ 15, + 20).

17^d 20^h to 20$\frac{1}{4}$^{h} Wave in H.F. (+ 40) and in Dec. (− 3′).

18^d 1^h to 2^h Wave in Dec. (+ 4′). 17$\frac{3}{4}$^{h} to 18^h Wave in H.F. (− 25). 18^h to 19^h Wave in Dec. (− 4′). 23^h to 24^h Wave in H.F. (+ 30), with steep rise.

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August 19^d $0\frac{1}{4}^h$ to $1\frac{1}{2}^h$ Wave in Dec. ($+ 3'$). 2^h to $4\frac{1}{2}^h$ Double wave in Dec. ($- 3'$, $+ 2'$), wave in H.F. ($- 20$). $12\frac{1}{4}^h$ to 14^h Double wave in H.F. ($+ 15$, $- 15$). $17\frac{1}{4}$ to $18\frac{1}{4}^h$ Wave in Dec. ($- 3'$) and in H.F. ($+ 20$). $21\frac{1}{4}^h$ to $22\frac{1}{2}^h$ Wave in Dec. ($- 11'$) and in H.F. ($+ 25$), with steep commencement.

     20^d 0^h to 5^h Oscillations in H.F. (± 15) and in Dec. ($\pm 2'$). $12\frac{1}{2}^h$ to 15^h Wave in Dec. ($+ 3'$), and double wave in H.F. ($+ 15$, $- 25$). $16\frac{1}{2}^h$ to $17\frac{1}{2}^h$ Wave in H.F. ($- 25$). $19\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Wave in Dec. ($- 6'$) and in H.F. ($- 30$).

     23^d $4\frac{1}{2}^h$ to $6\frac{1}{2}^h$ Wave in Dec. ($+ 7'$), double wave in H.F. ($- 15$, $+ 25$), followed till 24^h by numerous oscillations in H.F., including several sharp movements (± 20) from 11^h to 15^h, and a wave ($+ 45$), with steep rise, from 17^h to 18^h. $12\frac{1}{2}^h$ to $13\frac{1}{2}^h$ Wave in Dec. ($+ 5'$). $20\frac{1}{2}^h$ to $21\frac{1}{4}^h$ Wave in Dec. ($+ 4'$). $23\frac{1}{2}^h$ to 24^d $1\frac{1}{4}^h$ Wave in Dec. ($+ 4'$) and in H.F. ($+ 20$), with peak at 24^h.

     24^d $19\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Wave in H.F. ($- 25$). $22\frac{1}{4}^h$ to 25^d $0\frac{1}{2}^h$ Double wave in Dec. ($+ 2'$, $- 4'$).

     25^d $15\frac{1}{2}^h$ to $17\frac{1}{2}^h$ Oscillations in H.F. (± 15). 19^h to 20^h Wave in Dec. ($- 5'$). $22\frac{1}{2}^h$ to 24^h Wave in H.F. ($+ 55$). and decrease in Dec. ($- 5'$).

     26^d $15\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Oscillations in H.F. (± 10). 22^h to 23^h Wave in H.F. ($+ 20$).

     27^d $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Decrease in Dec. ($- 3'$).

     28^d $11\frac{1}{4}^h$ to $11\frac{1}{2}^h$ Wave in H.F. ($- 20$). $20\frac{3}{4}^h$ to $21\frac{3}{4}^h$ Truncated wave in Dec. ($- 5'$). $21\frac{1}{2}^h$ to 22^h Decrease in V.F. ($- 15$). $21\frac{1}{2}^h$ to $22\frac{3}{4}^h$ Wave in H.F., with two peaks ($+ 35$, $+ 20$). $21\frac{3}{4}^h$ to 29^d $2\frac{1}{2}^h$ Complicated wave in Dec., with oscillatory rise to a peak ($- 12'$) at $1\frac{1}{4}^h$.

     29^d $0\frac{1}{4}^h$ to $5\frac{1}{2}^h$ Decrease ($- 35$) and superposed quadruple wave in H.F., with peaks at $0\frac{3}{4}^h$ ($+ 20$), 2^h ($- 40$), 4^h ($+ 25$), and 5^h ($- 15$). $0\frac{1}{2}^h$ to 1^h Decrease in V.F. ($- 12$). 3^h to $5\frac{1}{2}^h$ Wave in Dec. ($- 3'$). 5^h to 24^h Oscillations in H.F. and Dec., the principal movements being from 18^h to 19^h, $i.e.$ waves in H.F. ($+ 40$) and in Dec. ($- 7'$), with steep commencement.

     30^d $8\frac{3}{4}^h$ to $10\frac{1}{4}^h$ Wave in H.F. ($- 25$). $16\frac{1}{2}^h$ to 19^h Waves in Dec. ($- 8'$) and in H.F. ($+ 40$). $19\frac{1}{2}^h$ to 21^h Waves in H.F. ($+ 40$) and in Dec. ($- 5'$). $22\frac{1}{2}^h$ to $22\frac{3}{4}^h$ Wave in Dec. ($+ 3'$).

September 3^d $22\frac{1}{4}^h$ to 24^h Wave in Dec. ($- 3'$).

     5^d $0\frac{3}{4}^h$ to 2^h Wave in H.F. ($+ 25$). 12^h to $17\frac{1}{2}^h$ Quadruple wave in H.F. ($+ 15$, $- 20$, $+ 15$, $- 15$) and in Dec. ($\pm 2'$). 23^h to 24^h Wave in H.F. ($+ 20$).

     6^d $0\frac{1}{2}^h$ to $1\frac{3}{4}^h$, and $1\frac{3}{4}^h$ to 3^h Two waves in Dec. ($+ 5'$, $+ 5'$) and small oscillations in H.F. 1^h to 3^h Decrease in V.F. ($- 16$). $22\frac{3}{4}^h$ to $23\frac{3}{4}^h$ Wave in Dec. ($- 3'$).

     8^d $22\frac{1}{2}^h$ to $23\frac{3}{4}^h$ Wave in H.F. ($+ 20$) and in Dec. ($- 4'$), followed by decrease ($- 3'$).

     9^d 4^h to 6^h Double wave in H.F. ($- 25$, $+ 25$) and wave in Dec. ($+ 5$). $9\frac{1}{2}^h$ to $10\frac{1}{2}^h$ Wave in H.F. ($- 20$).

     12^d 20^h to 21^h Wave in Dec. ($- 7'$) and in H.F. ($+ 30$).

     13^d 22^h to $22\frac{3}{4}^h$ Wave in Dec. ($- 3'$).

     16^d 0^h to 20^h Various slight displacements from normal curve in H.F. (± 15) and Dec. ($\pm 2'$).

     17^d 20^h to 21^h Wave in Dec. ($- 4'$).

     18^d $1\frac{1}{2}^h$ to 8^h Succession of movements in Dec., with turning points at $2\frac{1}{4}^h$ ($+ 2'$ from normal), 3^h ($- 3'$), $4\frac{1}{2}^h$ ($+ 5'$), 5^h ($+ 1'$) and $6\frac{1}{2}^h$ ($+ 5'$); also oscillations (± 15) in H.F., with principal peak at 6^h ($- 20$). 2^h to 5^h Decrease in V.F. ($- 15$).

     22^d $23\frac{1}{2}^h$ to 23^d $0\frac{1}{2}^h$ Wave in H.F. ($+ 25$). 23^h to 23^d $1\frac{1}{4}^h$ Irregular decrease in Dec. ($- 7'$).

     23^d $1\frac{1}{4}^h$ to $1\frac{3}{4}^h$ Partial recovery in Dec. ($+ 5'$). 3^h to $4\frac{1}{2}^h$ Truncated wave in Dec. ($- 5'$), followed till 8^h by oscillations ($\pm 2'$). $4\frac{1}{2}^h$ to $6\frac{1}{2}^h$ Wave in H.F. ($+ 25$). $17\frac{1}{2}^h$ to $18\frac{1}{2}^h$ Wave in Dec. ($- 5'$), $18\frac{1}{2}^h$ to 21^h Wave in Dec. ($- 11'$), with steep commencement and oscillatory decline. 17^h to 21^h Oscillations in H.F., with peaks at $17\frac{1}{4}^h$ ($+ 15$), $17\frac{3}{4}^h$ ($- 15$), $18\frac{1}{4}^h$ ($+ 5$), $18\frac{1}{2}^h$ ($- 15$), 19^h ($+ 25$), $20\frac{1}{4}^h$ ($- 15$). $21\frac{1}{2}^h$ to $21\frac{3}{4}^h$ Increase in H.F. ($+ 30$). $21\frac{1}{2}^h$ to 23^h Wave in Dec. ($+ 6'$).

     24^d 0^h to 8^h Oscillations in H.F. (± 15) and in Dec. ($\pm 2'$).

     27^d 6^h to 28^d 6^h See Plate III.

     28^d $21\frac{1}{2}^h$ to 24^h Oscillations in H.F. (± 15).

     29^d $4\frac{1}{4}^h$ to 6^h Double wave in H.F. ($- 20$, $+ 20$), wave in Dec. ($+ 7'$). 5^h to 6^h Decrease in V.F. ($- 14$). 6^h to $6\frac{1}{2}^h$ Increase in Dec. ($+ 3'$).

     30^d 2^h to 3^h Wave in Dec. ($+ 3'$). 18^h to $19\frac{1}{2}^h$ Wave in H.F. ($+ 35$) and truncated wave in Dec. ($- 6'$). $19\frac{1}{2}^h$ to Oct. 1^d 6^h Several oscillations in H.F. (± 20) and in Dec. ($\pm 3'$). 22^h to $23\frac{1}{4}^h$ Decrease in V.F. ($- 22$).

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1^d $7\frac{3}{4}^h$ to $8\frac{1}{4}^h$ Decrease in H.F. ($-$ 20). 12^h to 18^h Oscillations in H.F. ($\pm$ 10). 14^h to $15\frac{1}{2}^h$ Wave in Dec. ($-$ 3'). $23\frac{3}{4}^h$ to 2^d $0\frac{3}{4}^h$ Wave in H.F. ($+$ 50) and double wave in Dec. ($+$ 6'. $-$ 3'), with sudden commencement.

2^d 0^h to $0\frac{1}{2}^h$ Decrease in V.F. ($-$ 15). $1\frac{1}{4}^h$ to 5^h Triple wave in Dec. ($-$ 3', $+$ 2', $-$ 2').

3^d 3^h to $3\frac{3}{4}^h$ Wave in Dec. ($+$ 5') and increase in H.F. ($+$ 25). 16^h to 20^h Wave in H.F. ($-$ 30), with indentation ($+$ 15) at $18\frac{1}{2}^h$. $21\frac{1}{2}^h$ to $22\frac{1}{4}^h$ Wave in Dec. ($-$ 6') and in H.F. ($+$ 25).

4^d 5^h to 6^h Wave in Dec. ($+$ 5'). $21\frac{1}{2}^h$ to $22\frac{3}{4}^h$ Wave in H.F. ($+$ 20), with steep rise.

5^d $20\frac{1}{2}^h$ to 22^h Wave in H.F. ($+$ 30), and in Dec. ($-$ 6'), with sharp rise and wavy decline.

6^d 21^h to $22\frac{1}{4}^h$ Wave in Dec. ($-$ 4'), with notable pulsations on the commencing side. $21\frac{1}{2}^h$ to 23^h Irregular indented wave in H.F. ($+$ 45). $22\frac{1}{4}^h$ to $23\frac{1}{4}^h$ Wave in Dec. ($-$ 6'). 23^h to $23\frac{3}{4}^h$ Wave in H.F. ($+$ 20). 22^h to 23^h Decrease in V.F ($-$ 12).

7^d $1\frac{1}{4}^h$ to $2\frac{3}{4}^h$ Wave in Dec. ($+$ 8') and double wave in H.F. ($-$ 15, $+$ 15). $1\frac{3}{4}^h$ to $2\frac{1}{2}^h$ Decrease in V.F. ($-$ 15), followed by slow recovery. $14\frac{1}{2}^h$ to $16\frac{1}{2}^h$ Wave in Dec. ($-$ 5'). $18\frac{1}{4}^h$ to $19\frac{1}{2}^h$ Wave in Dec. ($-$ 5') and in H.F. ($+$ 20).

8^d $21\frac{1}{2}^h$ to $22\frac{1}{4}^h$ Wave in H.F. ($+$ 20). $22\frac{1}{4}^h$ to 23^h Wave in Dec. ($+$ 4'). $22\frac{1}{4}^h$ to 24^h Truncated wave in H.F. ($+$ 30), with steep rise.

9^d 1^h to 4^h Irregular double wave in Dec. ($-$ 3', $+$ 5'). 2^h to 3^h Wave in H.F. ($-$ 30). $21\frac{1}{2}^h$ to 23^h Wave in Dec., with sharp peak ($-$ 8') at 22^h. $21\frac{3}{4}^h$ to $23\frac{1}{2}^h$ Wave in H.F. ($+$ 55), with preliminary reversal ($-$ 12), and peak just after 22^h. 22^h to 23^h Decrease in V.F. ($-$ 12).

10^d $17\frac{1}{2}^h$ to 19^h Wave in Dec. ($-$ 5'). 18^h to $18\frac{1}{2}^h$ Wave in H.F. ($+$ 20). 21^h to 22^h Wave in H.F. ($+$20) and small movement in Dec. ($+$ 2', $-$ 2').

11^d $3\frac{3}{4}^h$ to $4\frac{1}{2}^h$ Wave in Dec. ($+$ 4'). $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in H.F. ($+$ 20), decrease in Dec. ($-$ 3').

13^d 19^h to $23\frac{1}{2}^h$ Four angular waves in Dec. of diminishing amplitude and duration ($-3'$, $-$ 3', $-$ 2', $-$ 1'). $20\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Two waves in H.F. ($+$ 15, $+$ 20).

14^d 19^h to 20^h Wave in Dec. ($-$ 3').

15^d 0^h to 1^h Wave in Dec. ($+$ 4').

16^d $0\frac{1}{2}^h$ to $1\frac{1}{2}^h$ Wave in Dec. ($+$ 4'). $20\frac{3}{4}^h$ to 23^h Wave in Dec. ($-$ 6') and in H.F. ($+$ 30).

17^d 1^h to $2\frac{1}{2}^h$ Wave in Dec. ($+$ 9') and in H.F. ($+$ 20). $1\frac{1}{2}^h$ to $2\frac{1}{4}^h$ Decrease in V.F. ($-$ 18). 22^h to 23^h Waves in Dec. ($+$ 4') and in H.F. ($+$ 30), and decrease in V.F. ($-$ 12).

18^d 20^h to 21^h Wave in Dec. ($-$ 3') and in H.F. ($+$ 20).

19^d Sudden increase in H.F. ($+$ 10) at 1^h. 2^h to 5^h Wave in H.F. ($-$ 25).

21^d 2^h to 4^h, 4^h to 5^h, 8^h to 9^h Movements in Dec. ($-$ 3', $+$ 5', $-$ 5'). 3^h to 9^h Oscillations in H.F. ($\pm$ 15). $15\frac{1}{2}^h$ to 17^h Wave in H.F. ($-$ 30). $15\frac{3}{4}^h$ to $16\frac{3}{4}^h$ Decrease in Dec. ($-$ 4').

22^d $19\frac{1}{2}^h$ to 23^h Wave in Dec. ($-$ 4'), with indented crest. 21^h to $22\frac{1}{2}^h$ Two waves in H.F. ($+$ 20, $+$ 20).

25^d $21\frac{1}{2}^h$ to 26^d $11\frac{1}{2}^h$ Loss of register in H.F. and Dec.

26^d 11^h to 17^h Loss of register in V.F.

27^d 16^h to $16\frac{3}{4}^h$ Rapid oscillations in H.F. ($-$ 15, $+$ 20). $16\frac{1}{2}^h$ to 19^h Waves in H.F. ($-$ 40) and in Dec. ($+$ 6'), with gradual decline.

28^d 2^h to 29^d 2^h See Plate III. 14^h to 15^h Loss of register in H.F., Dec., and V.F.

29^d 3^h to 4^h Regular pulsations in V.F. ; oscillations in Dec. ($+$ 2', $-$ 3', $-$ 4'). 4^h to $5\frac{1}{2}^h$ Loss of register in Dec. ; Wave in H.F. ($+$ 70). $4\frac{1}{2}^h$ to 5^h Decrease in V.F. ($-$ 45). $5\frac{1}{2}^h$ to 7^h Wave in Dec. ($+$ 6') and in H.F. ($-$ 20). 7^h to $10\frac{1}{4}^h$ Oscillatory decrease in H.F. ($-$ 75). $8\frac{1}{2}^h$ to $9\frac{1}{4}^h$ Loss of register in V.F. $10\frac{1}{4}^h$ to 11^h Loss of register in H.F., Dec., and V.F. ; likewise also from $14\frac{1}{2}^h$ to $15\frac{1}{2}^h$, and from 16^h to $16\frac{1}{4}^h$. $16\frac{1}{2}^h$ to 19^h Wave in Dec. ($-$ 10'), with outstanding peak from $17\frac{1}{2}^h$ to 18^h, contemporaneously with a wave in H.F. ($+$40).

30^d 2^h to 4^h Irregular wave in Dec. ($+$ 8'). $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Wave in Dec. ($+$ 4').

November

1^d $12\frac{1}{2}^h$ to $14\frac{1}{2}^h$ Wave in H.F. ($-$ 35) and (with double crest) in Dec. ($-$ 3', $-$ 5'). $12\frac{1}{2}^h$ to 19^h Wave in V.F. ($+$ 30). $14\frac{1}{2}^h$ to 19^h Wave in H.F. ($-$ 30), with superposed oscillations ($\pm$ 15) from $15\frac{1}{2}^h$ to $17\frac{1}{2}^h$. $15\frac{1}{2}^h$ to $17\frac{1}{2}^h$ Wave in Dec. ($-$ 12'), with steep commencement and preliminary peak ($-$ 9') at $16\frac{1}{4}^h$.

2^d $19\frac{3}{4}^h$ to 21^h Wave in Dec. ($-$ 4'), with sharp rise and gradual decline.

3^d $6\frac{1}{2}^h$ to $8\frac{1}{4}^h$ Wave in Dec. ($+$ 6') and in H.F. ($-$ 20). 16^h to $17\frac{1}{4}^h$ Wave in Dec. ($-$ 10') and double wave in H.F. ($-$ 30, $+$ 25). 20^h to 22^h Wave in Dec. ($-$ 9') and oscillations in H.F. ($\pm$ 15). $23\frac{1}{2}^h$ to 4^d $0\frac{3}{4}^h$ Wave in Dec. ($+$ 8') and in H.F. ($+$ 20).

1914.

November 4^d 0^h to $0\frac{3}{4}^h$ Decrease in V.F. (-15). $5\frac{1}{4}^h$ to $7\frac{1}{2}^h$ Wave in Dec. ($+8'$), double wave in H.F. (-15, $+10$). 6^h to 7^h Decrease in V.F. (-12). $12\frac{1}{2}^h$ to $13\frac{1}{4}^h$ Wave in Dec. ($+4'$). $14\frac{1}{2}^h$ to 17^h Wave in Dec. ($-4'$). $15\frac{1}{4}^h$ to $15\frac{3}{4}^h$ Wave in H.F. (-20). 18^h to $19\frac{1}{4}^h$ Wave in Dec. ($-8'$). 18^h to $19\frac{3}{4}^h$ Wave in H.F. ($+35$), with steep rise and gradual decline. $19\frac{3}{4}^h$ to $20\frac{1}{2}^h$, $20\frac{1}{2}^h$ to $21\frac{1}{4}^h$ Two waves in Dec. ($-6'$, $-6'$). $19\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Triple-crested wave in H.F. ($+40$, $+60$, $+35$). $22\frac{1}{4}^h$ to 24^h Truncated wave in Dec. ($-3'$). 20^h to 24^h Wave in V.F. (-20).

   5^d 13^h to 14^h Wave in H.F. (-25). 17^h to 18^h Wave in Dec. ($-4'$) and in H.F. ($+20$). 19^h to $19\frac{1}{2}^h$ Wave in Dec. ($-3'$). $19\frac{1}{4}^h$ to 21^h Wave in H.F. ($+35$), with steep rise and gradual decline.

   6^d $15\frac{1}{4}^h$ to $16\frac{1}{2}^h$ Wave in Dec. ($-3'$).

   7^d $22\frac{1}{2}^h$ to $23\frac{1}{4}^h$, $23\frac{1}{4}^h$ to 8^d $0\frac{1}{2}^h$ Two waves in Dec. ($-5'$, $-5'$) and in H.F. ($+30$, $+10$).

   10^d 22^h to 11^d $0\frac{1}{2}^h$ Slow decrease in Dec. ($-4'$), followed by increase ($+5'$) to 1^h, and decrease ($-2'$) to $1\frac{1}{2}^h$.

   11^d 10^h to 14^h Increase in Dec. ($+9'$), decreasing ($-5'$) to $15\frac{1}{2}^h$. 12^h to 13^h Decrease in H.F. (-55). 12^h to 24^h Wave in V.F. ($+55$). $14\frac{1}{2}^h$ to $15\frac{1}{4}^h$ Wave in H.F. ($+20$). $15\frac{1}{2}^h$ to 17^h Double wave in Dec. ($-9'$, $+4'$). $16\frac{1}{2}^h$ to $17\frac{1}{4}^h$ Wave in H.F. (-35). $17\frac{3}{4}^h$ to $19\frac{1}{2}^h$ Double wave in H.F. (-25, $+35$), followed by triple wave (-15, $+10$, -12) to $20\frac{1}{4}^h$. 18^h to 19^h Wave in Dec. ($-4'$). 19^h to $20\frac{1}{2}^h$ Wave in Dec. ($-12'$), with narrow peak. $23\frac{3}{4}^h$ to 24^h Wave in H.F. ($+25$) and in Dec. ($+3'$).

   12^d $15\frac{3}{4}^h$ to $17\frac{1}{4}^h$ Wave in Dec. ($-7'$) and in H.F. ($+20$). 20^h to 21^h, 21^h to 22^h Waves in Dec. ($-3'$, $-4'$). $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in H.F. ($+30$).

   13^d 2^h to $3\frac{1}{2}^h$ Wave in Dec. ($+3'$) and in H.F. ($+15$).

   14^d $21\frac{1}{4}^h$ to 24^h Wave in Dec. ($-11'$), with sharp rise ($-7'$) and brief arrest before reaching the crest; two waves in H.F. (-25, -20).

   15^d $17\frac{1}{2}^h$ to 21^h Loss of register in H.F. and Dec. $22\frac{1}{2}^h$ to 23^h Double wave in H.F. ($+20$, -15). $23\frac{1}{2}^h$ to 16^d 1^h Wave in Dec. ($+3'$).

   16^d 19^h to 20^h Wave in H.F. (-25) and small wave in Dec. ($-2'$). $23\frac{1}{2}^h$ to 17^d $0\frac{1}{4}^h$ Wave in Dec. ($+5'$).

   17^d 3^h to 5^h Loss of register in H.F. and in Dec. $17\frac{1}{2}^h$ to 19^h Wave in Dec. ($-5'$). $21\frac{3}{4}^h$ to 23^h Wave in H.F. ($+55$), with steep rise, and irregular wave in Dec. ($+4'$). 22^h to 24^h Wave in V.F. (-15). 23^h to 18^d 1^h Wave in Dec. ($-3'$), with crest at $23\frac{1}{2}^h$.

   18^d $21\frac{1}{2}^h$ to 23^h Wave in H.F. ($+20$). 22^h to $22\frac{1}{2}^h$ Wave in Dec. ($-3'$).

   19^d 3^h to $3\frac{3}{4}^h$ Wave in Dec. ($+3'$). 20^h to $20\frac{3}{4}^h$ Wave in Dec. ($-3'$) and in H.F. ($+20$).

   26^d $17\frac{3}{4}^h$ Sudden increase in H.F. ($+20$), followed by slow decrease (-40) to 20^h. 19^h to 22^h Decrease in Dec. ($-7'$). $19\frac{1}{2}^h$ to 23^h Wave in V.F. ($+20$). 22^h to $23\frac{3}{4}^h$ Triple-crested wave in Dec. ($-5'$, $-6'$, $-6'$), and double-crested wave in H.F. ($+55$, $+30$).

   27^d 0^h to 3^h Decrease in V.F. (-20). 2^h to 4^h Wave in Dec. ($+5'$).

   29^d $20\frac{3}{4}^h$ to 22^h Irregular wave in Dec. ($-5'$) and in H.F. ($+50$), the latter with steep rise.

December 3^d $21\frac{3}{4}^h$ to 23^h Wave in Dec. ($-5'$) and in H.F. ($+35$).

   5^d 0^h to 5^h Long flat-crested wave in Dec. ($-3'$). $0\frac{3}{4}^h$ to $3\frac{1}{2}^h$ Wave in H.F. ($+25$).

   7^d 14^h to $14\frac{1}{2}^h$ Wave in H.F. (-20). $14\frac{1}{2}^h$ to 16^h Wave in H.F. (-20).

   8^d $0\frac{3}{4}^h$ to 2^h Wave in Dec. ($+3'$). 2^h to 5^h Wave in Dec. ($+3'$). $20\frac{1}{4}^h$ to $21\frac{1}{2}^h$ Wave in Dec. ($-4'$). $22\frac{1}{4}^h$ to 24^h Double wave in Dec. ($-2'$, $+2'$).

   9^d 19^h to $20\frac{1}{2}^h$ Wave in Dec. ($-4'$), immediately succeeded by larger wave with triple crest ($-10'$, $-9'$, $-8'$, at $21\frac{1}{4}^h$, $22\frac{1}{4}^h$, $23\frac{1}{2}^h$). $20\frac{1}{4}^h$ to 21^h Wave in H.F. ($+50$), with steep rise.

   16^d $17\frac{1}{2}^h$ to 20^h Large wave in H.F. (-65), with net decrease (-30); double-crested wave in Dec. ($-4'$, $-7'$), with net decrease ($-2'$). 23^h to 24^h Wave in Dec. ($-3'$).

   18^d 11^h to $17\frac{1}{2}^h$ Loss of register in H.F. and Dec.

   19^d $2\frac{1}{2}^h$ to $3\frac{1}{2}^h$ Wave in Dec. ($-3'$). $18\frac{3}{4}^h$ to $19\frac{1}{4}^h$ Wave in Dec. ($-4'$).

   22^d 18^h to 20^h Wave in H.F. (-30), and in Dec., with double crest ($+3'$, $+5'$).

   27^d 21^h to 28^d 21^h See Plate III.

   29^d 1^h to 2^h Wave in Dec. ($+3'$).

   30^d $21\frac{1}{2}^h$ to 23^h Wave in Dec. ($-6'$) and in H.F. ($+30$).

   31^d 10^h to 14^h Loss of register in H.F. 10^h to $16\frac{1}{2}^h$ Loss of register in Dec. 19^h to 20^h Wave in Dec. ($-3'$).
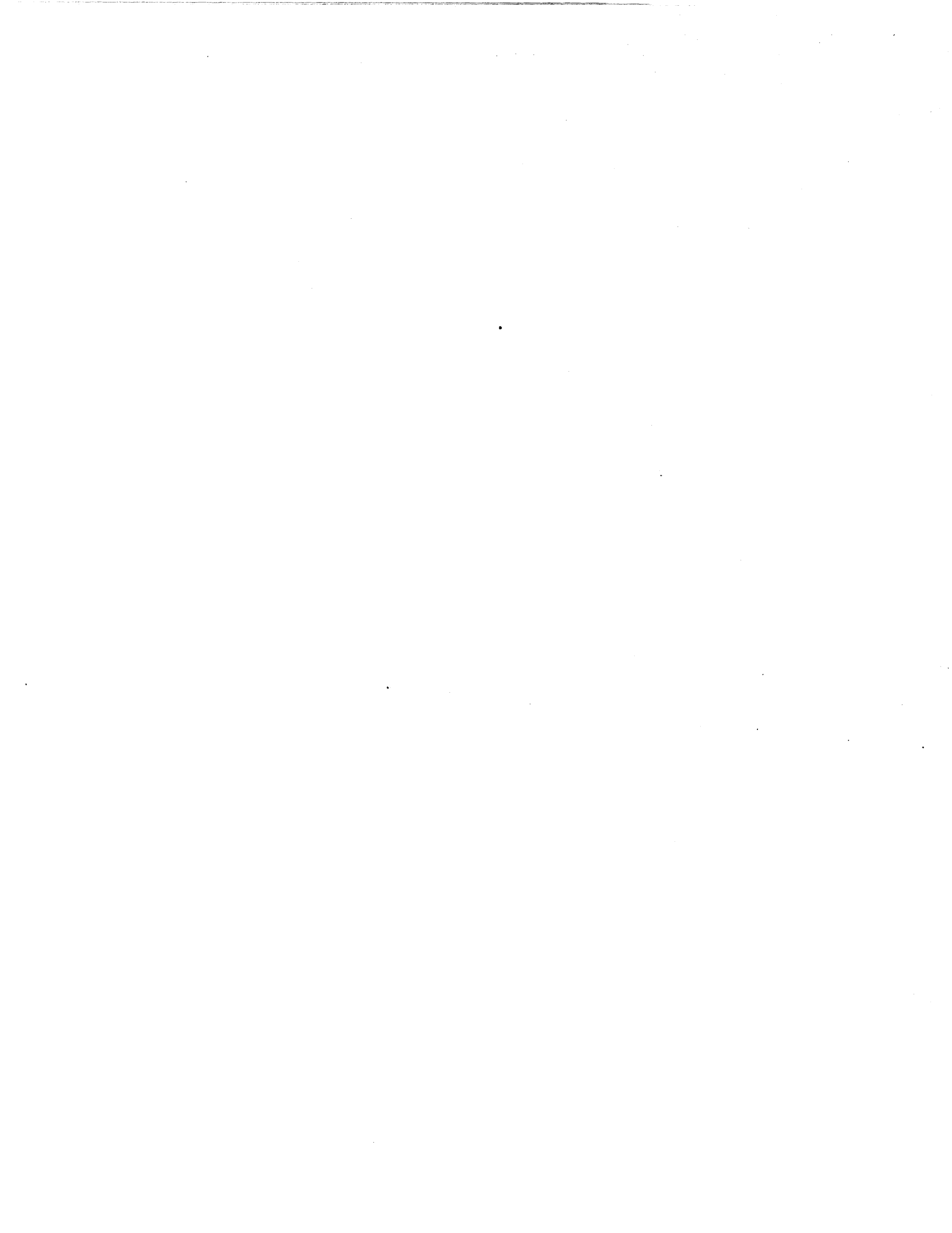
Plate I

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1914.

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

DECLINATION

HORIZONTAL FORCE

VERTICAL FORCE

7438 . 25576 . 834 (8) 600 . 5 . 18.

Malby & Sons Lith.

Plate II

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, 1914.

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

DECLINATION

HORIZONTAL FORCE

VERTICAL FORCE

7438

Malby & Sons, Lith

Plate III

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL OBSERVATORY, GREENWICH. 1914.

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

DECLINATION   HORIZONTAL FORCE   VERTICAL FORCE

7438
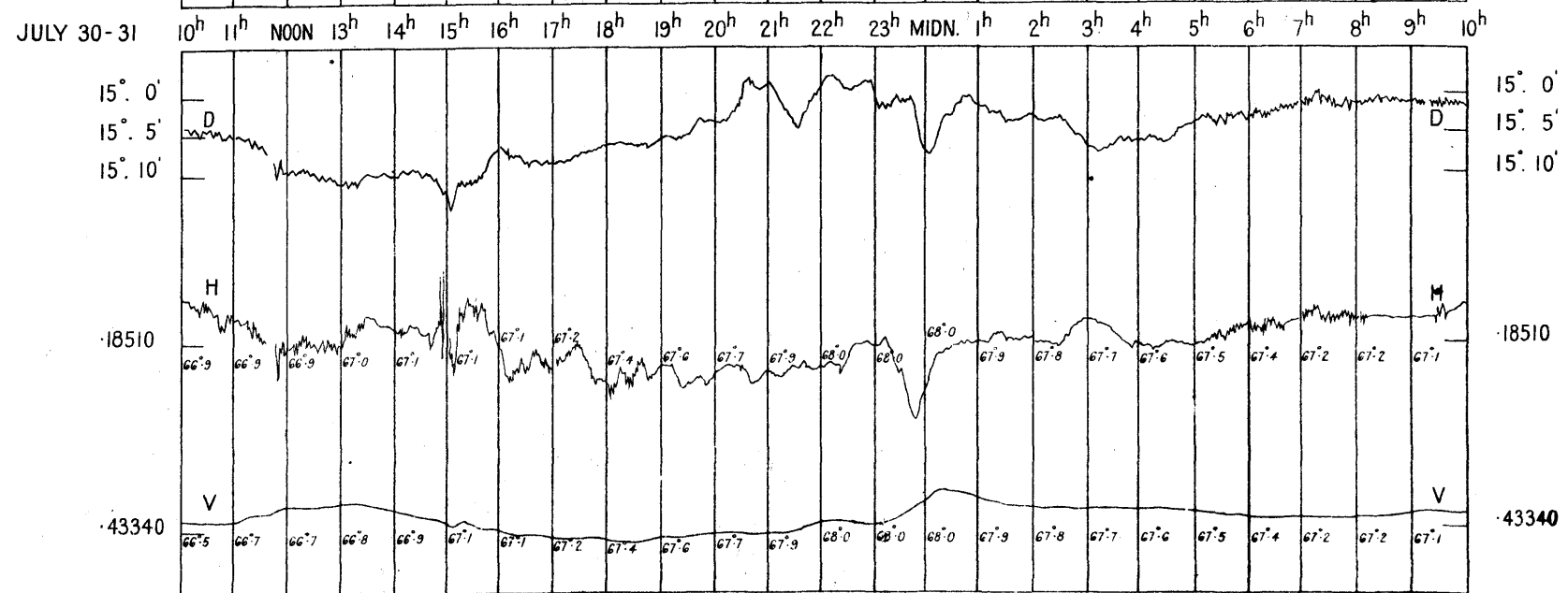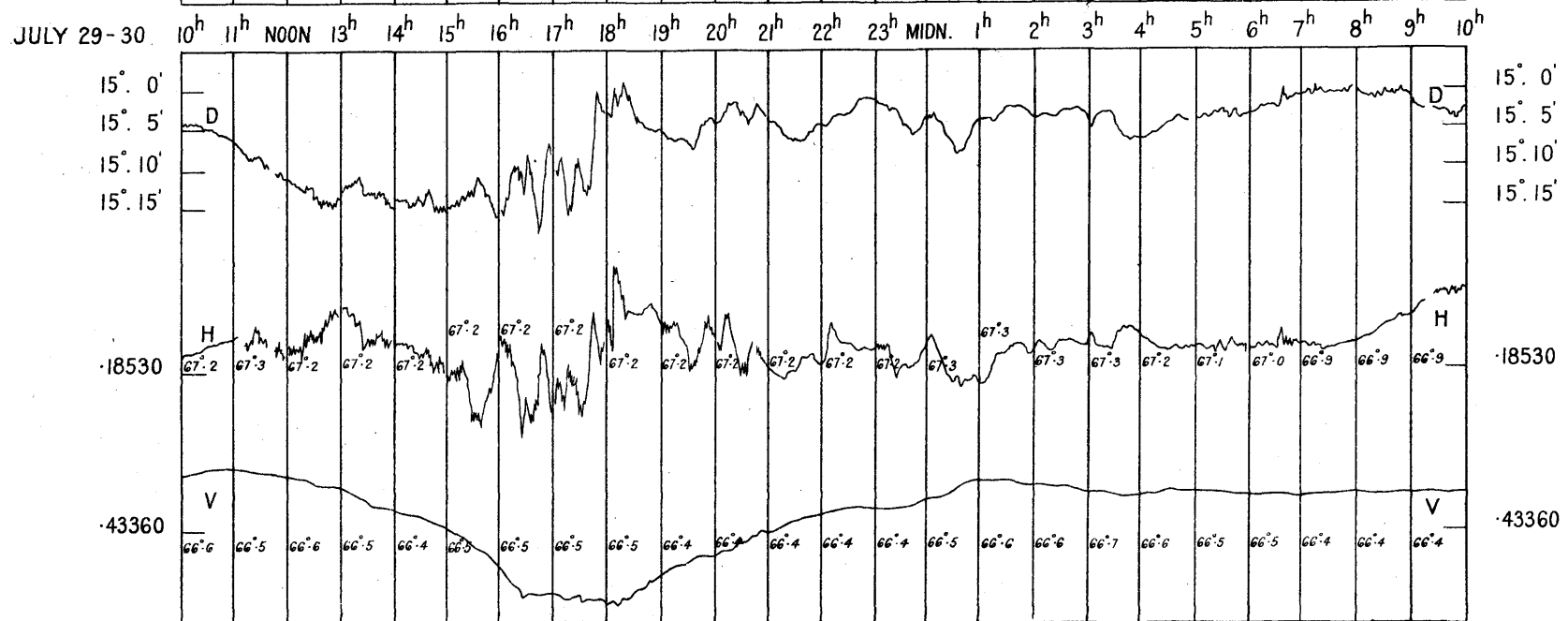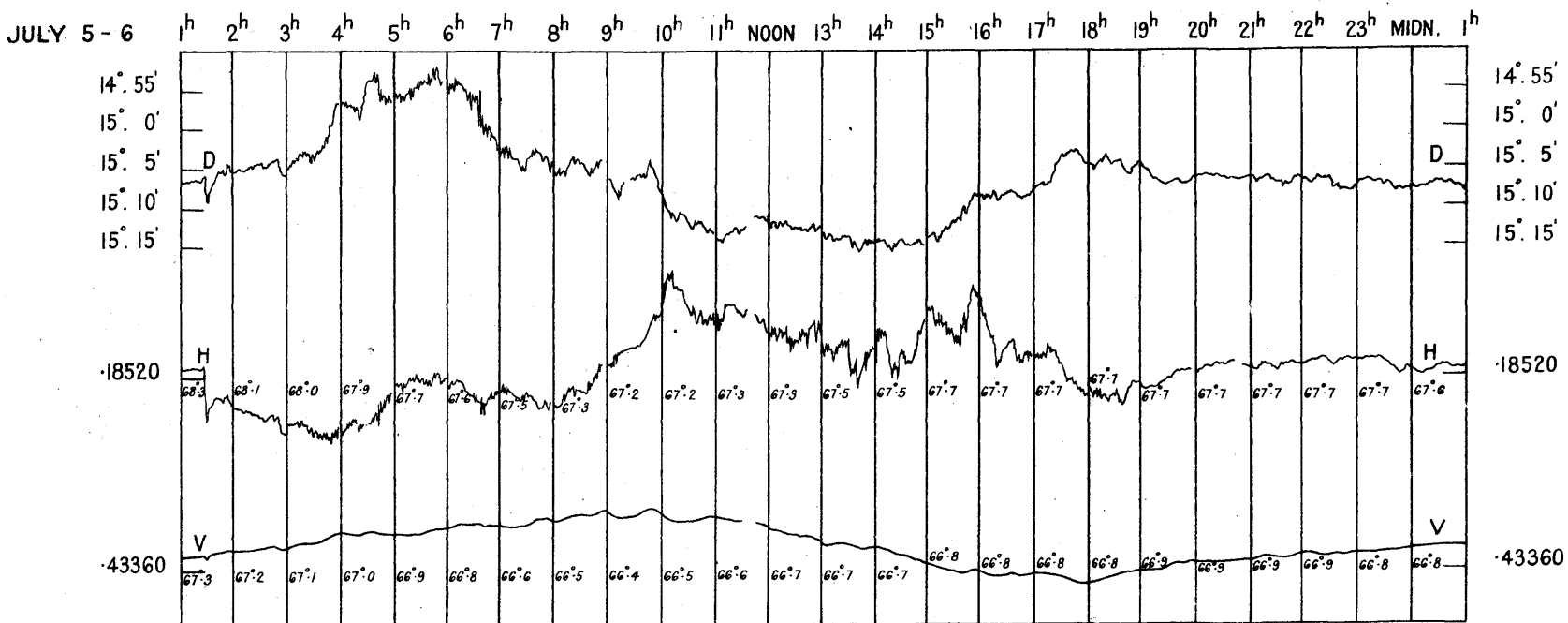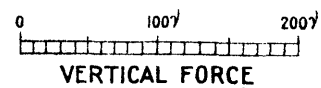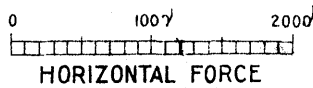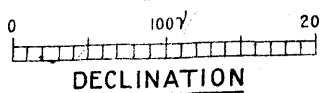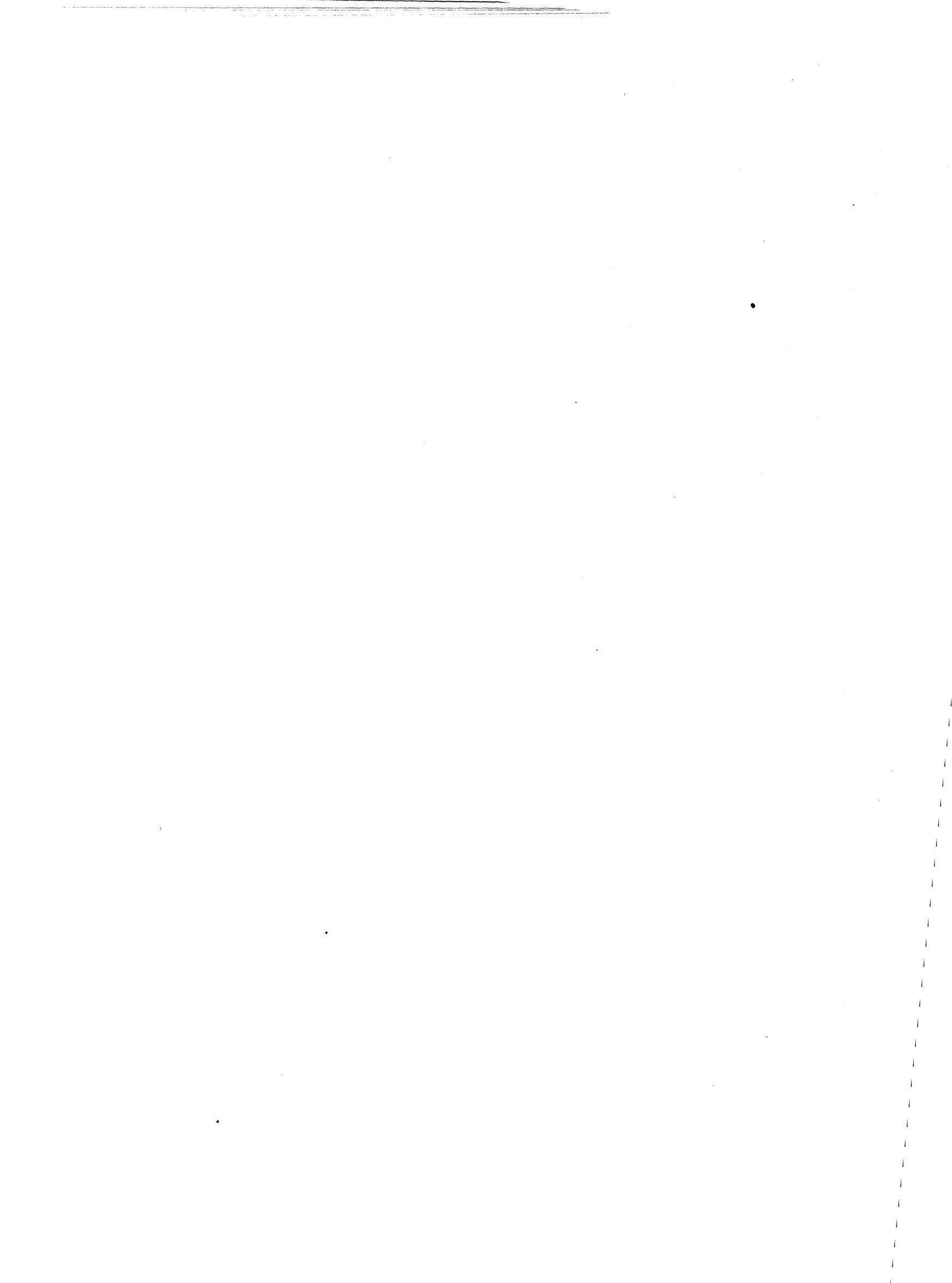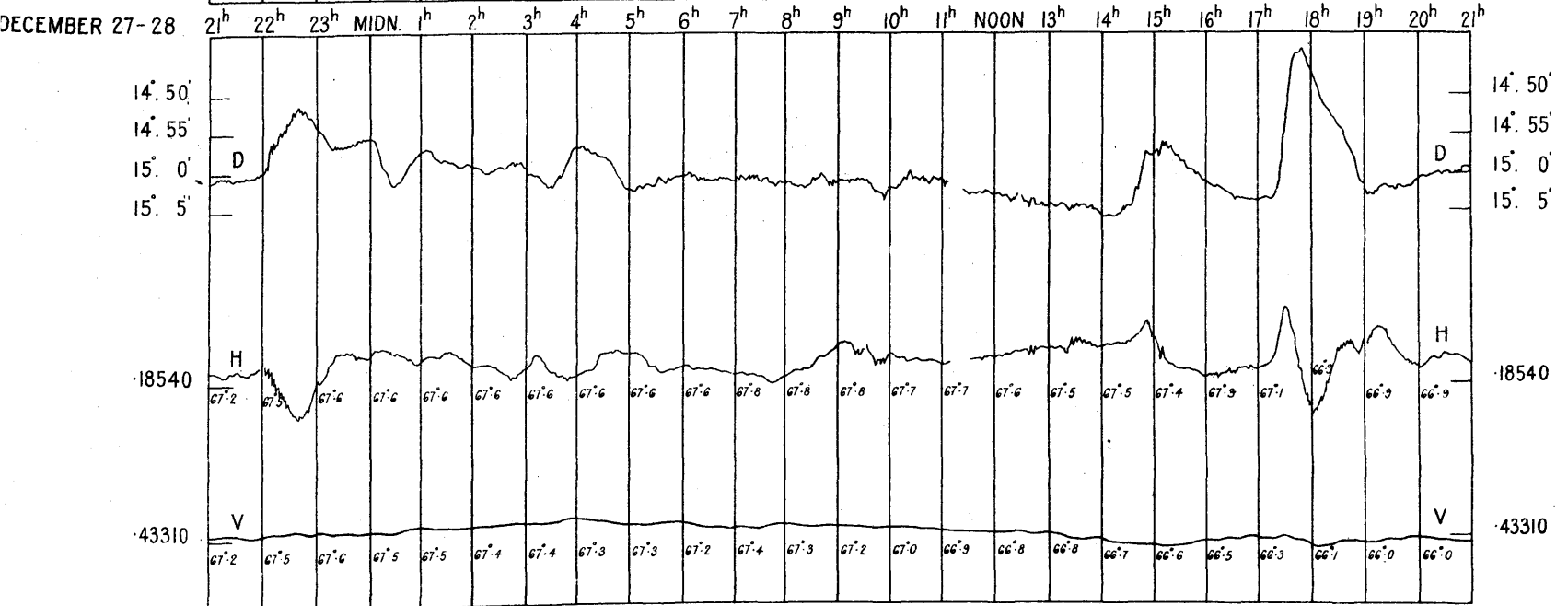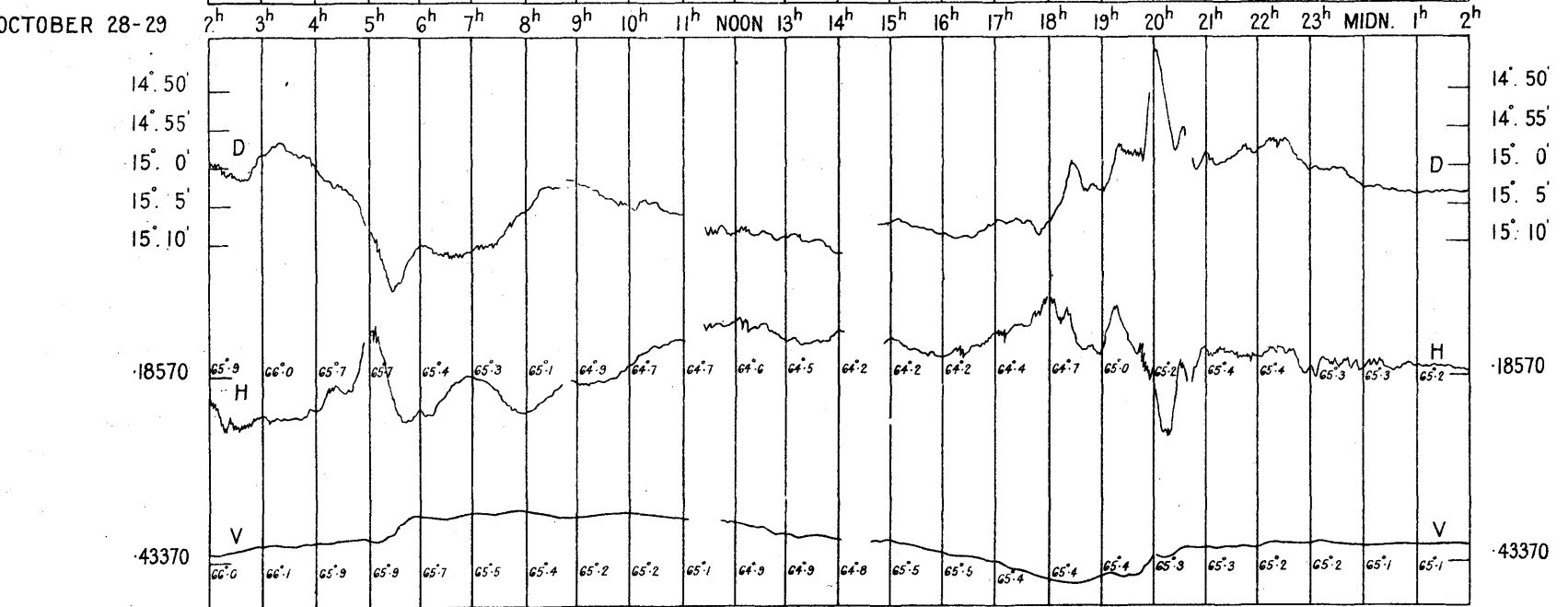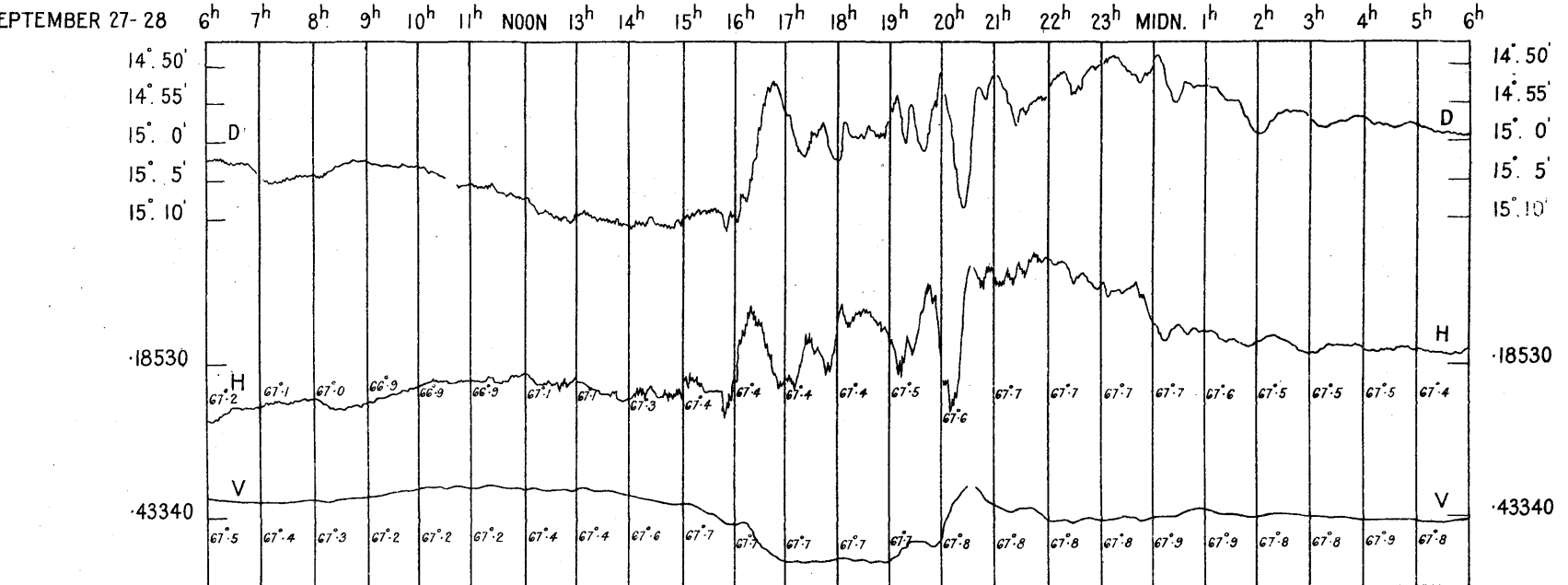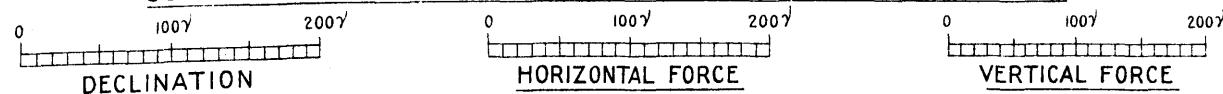
ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1914.

MONTH and DAY, 1914.	Phases of the Moon.	Barometer. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) (in.)	Air Highest (°)	Air Lowest (°)	Air Daily Range (°)	Air Mean of 24 Hourly Values (°)	Air Excess above Average of 65 Years (°)	Evaporation Mean of 24 Hourly Values (°)	Dew Point Deduced Mean Daily Value (°)	Diff. Mean (°)	Diff. Greatest (°)	Diff. Least (°)	Degree of Humidity (Saturation=100)	Radiation Highest in Sun's Rays (°)	Radiation Lowest on the Grass (°)	Earth 3 ft 2 in below Surface (°)	Rain in Gauge No. 6 (in.)	Electricity
Jan. 1	..	30·383	36·5	27·3	9·2	32·4	− 6·2	30·6	26·8	5·6	11·3	1·3	79	34·2	19·0	43·92	0·000	sP : sP : mP
2	..	30·277	45·2	34·0	11·2	39·1	+ 0·7	37·3	35·0	4·1	8·3	1·1	85	46·3	24·9	43·50	0·008	mP
3	In Equator : Apogee.	30·259	44·3	37·2	7·1	41·5	+ 3·2	40·0	38·1	3·4	5·9	1·2	88	51·1	28·1	43·21	0·000	wP, wN : wP : mP
4	First Quarter	29·977	49·0	36·1	12·9	43·6	+ 5·3	41·8	39·7	3·9	6·5	1·2	85	54·0	29·2	43·27	0·000	wP
5	..	29·530	49·8	36·6	13·2	42·6	+ 4·4	40·3	37·5	5·1	7·2	2·8	83	48·5	29·1	43·39	0·097	wP, wN : wP : mP
6	..	29·487	40·1	33·9	6·2	36·5	− 1·6	34·2	30·8	5·7	9·3	3·8	80	43·5	25·8	43·59	0·000	wP : mP : mP
7	..	30·004	39·8	29·1	10·7	34·7	− 3·3	31·7	26·8	7·9	10·1	5·0	72	42·8	17·0	43·51	0·000	mP : sP : sP
8	..	29·958	50·4	38·9	11·5	44·6	+ 6·7	43·3	41·8	2·8	5·8	1·4	90	54·5	32·0	43·29	0·059	wP
9	..	29·869	55·4	50·4	5·0	53·0	+15·1	51·8	50·6	2·4	4·1	0·6	92	62·2	44·1	43·21	0·054	wwP
10	Greatest Dec. N.	29·911	54·0	42·1	11·9	51·6	+13·7	50·4	49·2	2·4	4·8	1·0	92	63·0	39·0	43·62	0·178	wwP
11	..	30·072	42·1	32·4	9·7	34·6	− 3·3	32·7	29·6	5·0	9·4	1·8	81	53·6	29·9	44·25	0·000	wwP : wP : wP
12	Full	30·315	34·0	29·3	4·7	31·2	− 6·7	28·6	21·8	9·4	12·0	4·9	67	42·1	24·0	44·42	0·007	wP : vP : mP
13	..	30·294	36·0	33·2	2·8	34·3	− 3·7	32·0	28·1	6·2	8·5	2·0	77	41·8	30·3	44·09	0·009	wP : wP : mP
14	..	30·117	35·2	32·1	3·1	34·2	− 3·8	31·3	26·3	7·9	12·8	4·0	72	56·0	26·0	43·59	0·002	wP : mP : mP
15	Perigee	30·077	37·8	31·2	6·6	35·0	− 3·1	33·3	30·4	4·6	5·8	2·5	83	42·0	25·1	43·29	0·012	wP : mP : mP
16	In Equator	29·902	40·8	35·1	5·7	37·3	− 1·0	36·0	34·2	3·1	6·0	1·0	89	60·1	32·5	42·87	0·002	wP, wwN : mP : mP
17	..	29·664	41·5	32·1	9·4	37·4	− 1·1	36·0	34·1	3·3	6·1	2·4	88	54·5	23·1	42·72	0·000	wP : wP : mP
18	..	29·855	37·8	31·8	6·0	34·4	− 4·2	32·6	29·5	4·9	7·7	4·1	82	53·1	23·1	42·68	0·000	wP : wP : mP
19	Last Quarter	29·844	34·1	31·3	2·8	32·7	− 6·0	30·9	27·3	5·4	10·1	4·2	80	41·8	29·1	42·59	0·006	wP : wP : sP
20	..	29·821	34·0	31·8	2·2	32·8	− 6·0	30·2	24·9	7·9	9·6	4·8	71	40·0	30·1	42·39	0·000	mP : sP : mP
21	..	29·917	35·1	31·4	3·7	32·9	− 5·9	30·8	26·6	6·3	10·3	3·5	77	49·2	25·8	42·10	0·002	mP : mP : sP
22	..	29·973	37·0	28·3	8·7	32·8	− 6·0	30·8	26·7	6·1	7·7	3·5	78	61·1	19·7	41·86	0·000	mP
23	Greatest Dec. S.	30·011	36·8	21·7	15·1	28·2	−10·7	26·5	19·7	8·5	9·2	1·8	70	53·0	8·0	41·65	0·001*	mP : sP : sP
24	..	30·090	38·1	19·9	18·2	29·3	− 9·6	27·9	23·1	6·2	8·2	0·8	77	58·9	4·0	41·41	0·000	sP : mP : mP
25	..	30·083	42·6	34·4	8·2	38·2	− 0·9	36·9	34·9	3·3	5·2	1·2	89	40·8	25·1	41·03	0·010*	wP
26	New	29·922	45·0	34·5	10·5	41·9	− 2·6	40·8	39·4	2·5	5·9	0·4	92	49·2	25·9	40·84	0·006	wP, mN : wP : wP
27	..	29·958	43·0	33·0	10·0	37·2	− 2·3	35·6	33·3	3·9	8·0	1·6	87	53·3	25·0	40·92	0·014	wP : mP : mP
28	..	29·980	49·0	39·0	10·0	43·4	+ 3·8	42·1	40·5	2·9	5·9	0·7	90	65·2	32·8	41·01	0·018	vN, wP : wP : wP
29	..	29·843	52·5	45·9	6·6	48·0	+ 8·3	45·5	42·8	5·2	9·4	2·2	83	83·2	40·0	41·21	0·001	wP : wP : wwN, wP
30	In Equator	29·808	51·4	45·5	5·9	47·9	+ 8·2	46·4	44·7	3·2	5·0	1·7	90	58·9	42·4	41·59	0·017	wP
31	Apogee	29·826	50·3	43·2	7·1	46·9	+ 7·2	44·9	42·7	4·2	8·5	2·9	86	69·8	37·7	42·09	0·001	wP
Means	..	29·969	42·5	34·3	8·3	38·4	− 0·2	36·6	33·4	4·9	7·9	2·3	82·4	52·5	27·3	42·68	Sum 0·504	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

* Rainfall (Column 17). The amount entered on January 23 and 25 is derived from fog.

The mean reading of the *Barometer* for the month was 29in·969, being 0in·175 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°·4 on January 9 ; the lowest in the month was 19°·9 on January 24 ; and the range was 35°·5.
The mean of all the highest daily readings in the month was 42°·5, being 0°·6 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 34°·3, being 0°·6 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 8°·3, being 1°·1 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 38°·4, being 0°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S	CLOUDS AND WEATHER.	
			OSLER'S.						
			General Direction.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Jan. 1	0·0	7·8	N : W	W : Calm	0·4	0·01	161	9,m,ho.-fr: p.-cl,slt.-f,ho.-fr: ci.-cu, slt.-f	cu, s, slt.-f : s, slt.-f : 10, s, slt.-f
2	0·0	7·9	W	NW : W : NNW	1·2	0·05	249	10, slt.-f : p.-cl,slt.-f, ho.-fr: p.-cl, slt.-f	8, slt.-f : 10 : 10
3	0·0	7·9	N : Var. : WSW	W	1·7	0·08	248	10 : p.-cl, slt.-f : th.-cl, ci, ci.-s	10, m.-r : 10 : p.-cl
4	0·0	7·9	W : SW	W : WSW	6·3	0·61	510	p.-cl : p.-cl : 8, sc, s	10, sc,n,m.-r : 10, sc, w : 9, w
5	0·0	7·9	WSW : NW	W : WSW	10·7	0·97	554	p.-cl, w : 10, w : 10, s, slt.-r, glm	9, ci.-s, th.-cl : 1, ho.-fr : p.-cl, lu.-ha, ho.-fr
6	0·5	8·0	W : NW	NW : NNW	7·5	0·93	544	9, ho.-fr : p.-cl, ho.-fr: 7. cu.-s, w	5,cu,cu.-s,w : p.-cl, w : p.-cl,m,lu.-co,ho.-fr
7	0·9	8·0	NNW : WSW : W	W : WSW	1·8	0·13	273	0, ho.-fr : 1,slt.-f,ho.-fr: 1, th.-cl, h, slt.-f	3,ci.-s,slt.-f : 3 : p.-cl, slt.-r
8	0·3	8·0	WSW : SW	WSW : W	4·6	0·52	462	10 : 9, slt.-sh : p.-cl, s, li.-shs, w	10, sc, s, W : 10, sc, n, th.-r, w : 10, th.-r
9	0·0	8·1	W : WNW	W : WNW	4·8	0·55	440	10, oc.-r : 10, th.-r : 10,sc, s, oc.-th.-r	10, sc, s, W : 10 : p.-cl,th.-cl,slt.-r,lu.-ha
10	0·0	8·1	WSW : W	W : Var.	1·8	0·18	306	10, slt.-r : 10, slt.-r : 10, s, n	10, s, n, th.-r : 10, sc, s : 10, slt.-r
11	0·6	8·1	E	E : ESE	6·4	0·88	459	10, w : 9, w : 9, cu, n, w	8, cu, n, w : 9, w : 10. w
12	0·9	8·2	ESE : E	E : ENE : NE	3·6	0·61	398	10 : 10, slt.-sn : 10, slt.-sn,w	p.-cl, oc.-sn : 9, oc.-sn : 10
13	0·0	8·2	NE : ENE	E : ENE : NE	10·0	0·82	501	10, w : 10, w : 10, s, n, w, slt.-sn	10, cu.-s, n : 10 : 10, w
14	2·0	8·2	NNE : NE : E	ENE	6·6	0·86	505	10, w : 10, oc.-sn, w : p.-cl, cu.-s, w	5, cu,cu.-s,w: 9 : 9
15	0·0	8·2	ENE : NE	NE : ENE	3·2	0·33	332	p.-cl, ho.-fr: p.-cl : 9, cu.-s,sl,r	10, oc.-slt.-r : 10, oc.-slt.-r : 10
16	0·8	8·3	E : NE	NE : ENE	0·9	0·02	203	10 : 10 : 10, s, n	9, cu.-s,s,n : 10, oc.-slt.-r
17	0·1	8·3	ENE : NE : E	ENE : E	0·7	0·03	208	10 : 10 : 10	9, cu.-s, n : p.-cl, ho.-fr : 1. ho.-fr
18	0·7	8·4	ENE : NE : E	ESE : E : SE	0·9	0·08	238	9 : 10 : 10	p.-cl : 10
19	0·0	8·4	SE : ESE	ESE : ENE : E	1·0	0·08	202	10 : 10 : 10, s, n, slt.-sn	8, cu.-s, n : 10, slt.-sn : 10. slt.-sn
20	0·0	8·4	ENE : NE : E	E : ENE	4·4	0·44	389	10 : 10	10, w : 10 : 10
21	0·1	8·5	ENE : SE	SE : ENE : E	0·9	0·05	193	10, slt.-sn : 9 : 9, slt.-sn	9, s, n : 9 : 10
22	0·6	8·5	E : ESE : SE	ESE : SE	1·8	0·05	168	10 : 10 : p.-cl, cu.-s	9, cu.-s, s, n : 9 : p.-cl
23	5·0	8·6	SE : Calm : ENE	Calm	0·1	0·00	120	1, ho.-fr : 1,h,ho.-fr: 0, slt.-f	0 : 0, slt.-f. ho.-fr
24	1·3	8·6	Calm : SSW	SW : WSW	1·0	0·06	252	0, slt.-f, ho.-fr: p.-cl,slt.-f, ho.-fr: th.-cl,slt.-f	7, th.-cl, s : 1, ho.-fr
25	0·0	8·7	SW	SW : WSW	6·8	0·57	456	p.-cl, ho.-fr: 10 : 10, n	10, n, w : 10, s, n, w : 10, w
26	0·0	8·8	SW : WSW : Calm	W	5·1	0·17	275	10,oc.-r, w : 10, slt.-r, slt.-f: th.-cl, s, slt.-f	6,th.-cl,ci.-s: s : 1, ho.-fr
27	0·4	8·8	W : WNW	WNW : W : WSW	1·3	0·08	278	p.-cl, ho.-fr: 9, li.-shs : 9, cu.-s, n	8, cu.-s, n : 8 : p.-cl, slt.-r
28	1·6	8·9	WSW	WSW : SW	1·7	0·10	262	10, slt.-r : 10 : 9,cu, cu.-s,slt.-sh	7,th.-cl, so.-ha: 10 : p.-cl, sh.-r
29	3·2	8·9	SW : WSW	WSW : SW	4·1	0·44	415	10 : 9 : 4,ci,ci.-s,cu.-s	p.-cl, w : 10, oc.-m.-r : 10, slt.-sh, w
30	0·0	8·9	SW : WSW	WSW	7·0	0·80	546	10, oc.-m.-r, w : 10, oc.-m.-r, w: 10, cu.-s, sc,w	10, s, n, w : 10, fq.-m.-r,w : 9. w
31	0·9	9·0	SW	WSW : SW	7·3	1·07	578	p.-cl : p.-cl, w : p.-cl,cu, cu.-s, w	9, w : 10, w : 10,w,oc.-slt.-r
Means	0·6	8·3	..	..	..	0·37	346		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 36°·6, being 0°·6 *lower* than

The mean *Temperature of the Dew Point* for the month was 33°·4, being 1°·9 *lower* than

The mean *Degree of Humidity* for the month was 82·4, being 5·6 *less* than

The mean *Elastic Force of Vapour* for the month was 0in·191, being 0in·015 *less* than

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·3, being 0gr·1 *less* than

The mean *Weight of a Cubic Foot of Air* for the month was 558 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 7·8.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·077. The maximum daily amount of *Sunshine* was 5·0 hours on January 23.

The highest reading of the *Solar Radiation Thermometer* was 83·2 on January 29 ; and the lowest reading of the *Terrestial Radiation Thermometer* was 4°·0 on January 24.

The *Proportions of Wind* referred to the cardinal points were N. 4, E. 8, S. 4, W. 13. Two days were calm.

The *Greatest Pressure of the Wind* in the month was 10·7 lbs. on the square foot on January 5. The mean daily *Horizontal Movement of the Air* for the month was 346 miles : the greatest daily value was 578 miles on January 31 ; and the least daily value was 120 miles on January 23.

Rain (0in·005 or over) fell on 13 days in the month, amounting to 0in·504, as measured by gauge No. 6 partly sunk below the ground ; being 1in·377 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference. Mean.	Greatest.	Least.	Degree of Humidity (Saturation = 100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Feb. 1	..	29·923	55·1	45·3	9·8	49·7	+10·1	47·3	44·7	5·0	10·1	2·7	84	81·2	38·2	42·59	0·000	wwP : wP
2	..	29·965	51·5	37·5	14·0	45·2	+ 5·7	42·5	39·4	5·8	10·2	2·0	81	76·0	24·5	43·03	0·000	wP
3	First Quarter	29·926	56·6	39·9	16·7	45·4	+ 5·9	43·4	41·1	4·3	11·8	0·9	86	74·8	28·5	43·40	0·001*	wP
4	..	29·951	53·0	38·0	15·0	43·8	+ 4·3	42·0	39·8	4·0	9·0	1·8	86	70·4	27·3	43·39	0·001*	wP
5	..	29·930	55·0	37·2	17·8	44·3	+ 4·7	41·8	38·9	5·4	13·7	2·5	81	87·0	25·2	43·42	0·001*	wP : mP : mP
6	Greatest Dec. N.	29·738	52·5	36·6	15·9	43·8	+ 4·2	41·5	38·8	5·0	9·5	1·9	82	78·0	26·0	43·41	0·012	wP : wP : wP, vN
7	..	29·524	51·5	43·7	7·8	46·4	+ 6·9	44·5	42·4	4·0	10·8	1·1	87	89·2	38·6	43·37	0·150	vN, wP : wP,vN : wwP, wwN
8	..	29·402	50·0	44·1	5·9	47·4	+ 8·1	46·1	44·7	2·7	4·5	1·1	91	56·1	40·9	43·41	0·440	wwP, wwN : wwP, wwN : wP, wN
9	..	29·616	54·5	44·1	10·4	47·6	+ 8·5	45·7	43·6	4·0	7·3	0·6	87	78·3	38·9	43·68	0·000	wP
10	Full	29·692	56·0	43·3	12·7	47·6	+ 8·7	45·6	43·6	4·0	8·5	3·0	86	92·9	35·3	43·97	0·002	wP
11	..	29·493	49·7	44·1	5·6	46·2	+ 7·4	44·6	42·8	3·4	7·3	0·6	89	53·8	35·9	44·16	0·423	wP : wP, wN : wP, wN
12	Perigee	29·383	50·3	41·1	9·2	46·6	+ 7·8	43·6	40·2	6·4	11·9	3·0	79	87·0	33·0	34·32	0·032	wP, wN : wP : wP, ssN
13	In Equator	29·652	52·1	38·6	13·5	45·2	+ 6·2	42·5	39·4	5·8	11·4	1·5	81	84·2	30·9	44·48	0·177	wP, wN : wP : wP, wN
14	..	29·654	59·0	48·7	10·3	52·4	+13·1	50·0	47·6	4·8	11·8	1·7	84	89·0	47·4	44·49	0·031	wwP : wP : wP
15	..	29·601	55·6	42·1	13·5	50·7	+11·3	47·6	44·4	6·3	12·2	2·0	80	87·0	33·2	44·71	0·046	wwP : wP : wP
16	..	29·794	48·3	40·6	7·7	43·7	+ 4·2	41·3	38·5	5·2	7·6	3·9	81	58·7	31·5	45·10	0·000	wP : wP : mP
17	Last Quarter	29·848	49·3	33·1	16·2	41·8	+ 2·2	38·7	34·9	6·9	12·0	2·0	78	83·9	23·1	45·25	0·012	wP : mP : mP, vN
18	..	29·377	44·9	33·9	11·0	41·3	+ 1·8	38·9	36·0	5·3	10·6	2·2	82	59·3	25·7	45·01	0·327	vN : mP : sP
19	Greatest Dec. S.	29·293	48·2	33·1	15·1	41·3	+ 1·8	39·5	37·2	4·1	5·7	1·1	86	64·3	24·7	44·90	0·007	mP : wP
20	..	29·342	51·0	35·1	15·9	44·1	+ 4·6	42·1	39·7	4·4	11·2	0·8	84	80·6	25·7	44·61	0·098	wP : wP : wP, wN
21	..	29·020	50·6	35·6	15·0	41·9	+ 2·3	40·1	37·8	4·1	6·8	1·4	87	55·0	29·1	44·49	0·239	wP, vN : vP, vN : mP
22	..	28·565	51·2	37·9	13·3	44·1	+ 4·4	41·8	39·1	5·0	9·4	1·7	82	86·1	29·8	44·41	0·437	vN : wP, ssN : wP
23	..	28·909	52·0	35·1	16·9	41·6	+ 1·8	39·2	36·2	5·4	13·3	1·8	82	91·3	27·9	44·32	0·000	wP
24	..	29·215	50·1	33·7	16·4	41·5	+ 1·5	39·3	36·6	4·9	10·5	1·7	83	76·8	22·0	44·19	0·000	wP : mP : mP
25	New	29·613	43·0	33·9	9·1	37·4	− 2·7	36·5	35·3	2·1	4·9	0·3	92	61·6	22·9	44·02	0·000	wP : mP : mP
26	In Equator	29·755	47·0	32·3	14·7	39·6	− 0·6	37·2	34·1	5·5	12·2	2·2	81	65·0	21·4	43·82	0·000	mP : sP : ..
27	..	29·995	53·4	29·2	24·2	40·3	0·0	37·5	34·0	6·3	14·7	1·1	78	91·5	18·7	43·69	0·002*	.. : mP : mP
28	Apogee	29·986	55·7	31·0	24·7	43·0	+ 2·7	39·3	34·9	8·1	16·0	2·0	73	98·5	20·5	43·47	0·002*	mP
Means	..	29·577	51·7	38·2	13·5	44·4	+ 4·9	42·1	39·5	4·9	10·2	1·7	83·3	77·1	29·5	44·04	Sum 2·440	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

* Rainfall (Column 17). The amount entered on February 3, 4, 5, 27, and 28 is derived from fog.

The mean reading of the *Barometer* for the month was 29$^{in.}$·577, being 0$^{in.}$·225 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 59°·0 on February 14 ; the lowest in the month was 29°·2 on February 27 ; and the range was 29°·8.
The mean of all the highest daily readings in the month was 51°·7, being 6°·5 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 38°·2, being 4°·0 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 13°·5, being 2°·5 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 44°·4, being 4°·9 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.					CLOUDS AND WEATHER.	
			OSLER'S.				ROBINSON'S		
			General Direction.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lb.	lbs.	miles.		
Feb. 1	5·3	9·1	WSW : SW	WSW : SW	6·0	0·86	520	10, w : 10, w : p.-cl, li.-sh, w	1, w : 1 : p.-cl
2	7·0	9·1	SW : SSW	SSW : SW	3·4	0·28	326	p.-cl : 1, ci, cu	1, ci, ci.-s : 1 : 1, lu.-co, ho.-fr
3	3·8	9·2	SW : SSW	SW : SSW	1·4	0·06	260	o, ho.-fr : p.-cl : p.-cl,th.-cl,so.-ha	th.-cl : th.-cl,lu.-ha: th.-cl. lu.-ha
4	5·6	9·3	SSW : SW	SW : SSW	1·5	0·12	295	o, ho.-fr : p.-cl : p.-cl,cu, cu.-s	1 : o : o
5	8·2	9·3	SW : SSW	SW : SSW : S	1·4	0·12	297	o, ho.-fr : o	o : o, ho.-fr
6	6·6	9·4	SSW : S	SSW : SW	1·6	0·19	302	o, ho.-fr : o : 1	p.-cl, cu : 9, n : 10. slt.-r
7	2·9	9·4	SW	SW	10·6	0·98	518	10, r : 9 : 8, cu, cu.-s, w	p.-cl, so.-ha, fq.-r, w : 10,fq.-r,st.-w: 10,slt.-r, st.-w
8	0·0	9·5	SW	SW	12·8	1·44	597	10, th.-r, st.-w : 10,slt.-r. w: 10,sc,s,fq.-r,w	10, sc,s.r.w : 10, oc.-r : 10, th.-r
9	0·3	9·5	Calm : S : SSW	SSW : S	1·4	0·07	218	10 : 10 : 9	10, n : 9 : th.-cl
10	5·1	9·6	SSW : WSW : SW	SW : SSW	2·5	0·12	307	p.-cl, m : p.-cl : v, cu, cu.-s	3, cu, cu.-s : p.-cl : 9,slt.-sh,lu.-ha
11	0·0	9·7	SW : SSW	SW : SSW	6·8	0·99	518	10, w : 10,slt.-r,w: 10,s,n,c.-r,w	10, r, w : 10, r, w
12	5·1	9·7	WSW : SW	SW : SSW	18·5	1·22	569	p.-cl, w : p.-cl, sh.-r : p.-cl, cu.-s, w	5, cu. w : th.-cl, so.-ha, w : 10, lu.-ha, r, g
13	4·4	9·8	SW : W : WSW	SW	9·5	1·12	587	10, r, st.-w : p.-cl : 5,ci.-cu, cu,s,w	9, cu.-s, s, w: 10, r, st.-w : 10, r, w
14	4·6	9·8	SW : WSW	WSW : SW	9·8	1·32	634	10, fq.-th.-r, w : 10, slt.-r : p.-cl, ci, cu, w	p.-cl, w : 10, oc.-shs.w: 10, oc.-r, st.-w
15	1·2	9·9	SW : WSW	WSW : W	15·7	1·84	719	9, oc.-r. st.-w : 10, oc.-r, st.-w: 9, sc,cu,st.-w	9, st.-w : 8, w : 1, li.-cl
16	0·0	10·0	WSW : SW : Calm	Calm : N	1·0	0·03	162	p.-cl : 10, slt.-m : 10, s, n	10, s, n : 10
17	6·6	10·0	Calm : WSW : W	WSW : SW	4·4	0·32	344	1 : li.-cl, ho.-fr: 1, cu	5, cu, cu.-s : 8, cu, cu.-s: 9, r, w
18	0·7	10·1	SW : WNW : W	NW : W	6·8	0·38	389	10, r, w : 10, fq.-r	8, ci.-s,cu,n : p.-cl : o
19	0·0	10·2	W : SW : WSW	SW : Calm : NW	2·0	0·20	304	o. ho.-fr : 9, s, n	10, fq.-th.-r : 10, fq.-th.-r : 10
20	2·0	10·2	W : WSW : SW	SW : SSW	8·0	0·41	366	9, : th.-cl, slt.-m, ho.-fr : 6	p.-cl, s, so.-ha : 10, s,oc.-r,w : 10, oc.-r, w
21	0·0	10·3	SW	SSW : Calm : Var.	15·7	0·70	381	10, sh.-r, st.-w : p.-cl : 10. s	10, s,n,r,sn.sl: p.-cl, slt.-r : p.-cl
22	4·4	10·3	SE : S : SW	SW	6·6	0·71	444	10, hy.-r,w: 10 : 8,cu,cu.-s,w	p.-cl,cu.-s,sh.-r,w: 2 : o
23	7·1	10·4	SW : SSW	SW : SSW : S	1·9	0·18	308	1, ho.-fr : 1 : 5,ci,cu,cu.-s	8, cu, cu.-s : p.-cl : p.-cl
24	5·3	10·5	S : Calm : SE	E : Calm	0·2	0·00	155	p.-cl, ho.-fr: p.-cl, ho.-fr : o,ci.-s,cu,h,so.-ha	5, ci, ci.-s : p.-cl : o, f, ho.-fr
25	1·3	10·5	Calm : NNE	NNE : W	0·2	0·00	167	o, f, ho.-fr: 10, f : 9, s	7, s, slt.-f : th.-cl,slt.-f : th.-cl, f
26	0·2	10·6	Calm : W : WSW	WNW : Calm : WSW	0·8	0·00	169	p.-cl, f : 10. slt.-f : 8, s, slt.-f	th.-cl, s : o, slt.-f, ho.-fr
27	9·0	10·7	Calm : SW	WSW : SW	0·1	0·00	154	o, slt.-f, ho.-fr : o. slt.-f	o : o, slt.-m, ho.-fr
28	8·9	10·7	SW	SW	1·2	0·06	237	o. ho.-fr : o. ho.-fr : o	o : p.-cl : p.-cl
Means	3·8	9·9	. .	. .	. .	0·49	366		
Number of Column for Reference	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 42°·1, being 4°·4 *higher* than

The mean *Temperature of the Dew Point* for the month was 39°·5, being 4°·1 *higher* than

The mean *Degree of Humidity* for the month was 83·3, being 2·2 *less* than

The mean *Elastic Force of Vapour* for the month was 0in·242, being 0in·035 *greater* than } the average for the 65 years, 1841–1905.

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·8, being 0gr·4 *greater* than

The mean *Weight of a Cubic Foot of Air* for the month was 544 grains, being 9 grains *less* than

The mean amount of *Cloud* for the month (a clear sky being represented by o and an overcast sky by 10) was 5·8.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·382. The maximum daily amount of *Sunshine* was 9·0 hours on February 27.

The highest reading of the *Solar Radiation Thermometer* was 98°·5 on February 28 ; and the lowest reading of the *Terrestrial Radiation Thermometer* was 18°·7 on February 27.

The *Proportions of Wind* referred to the cardinal points were N. 1, E. o, S. 11, W. 14. Two days were calm.

The *Greatest Pressure of the Wind* in the month was 18·5 lbs. on the square foot on Febuary 12. The mean daily *Horizontal Movement of the Air* for the month was 366 miles ; the greatest daily value was 719 miles on February 15 ; and the least daily value was 154 miles on February 27.

Rain (0in·005 or over) fell on 14 days in the month, amounting to 2in·440, as measured by gauge No. 6 partly sunk below the ground ; being 0in·960 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation=100.)	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Mar. 1	..	29·835	52·5	39·0	13·5	46·0	+ 5·6	42·3	38·1	7·9	17·5	1·7	75	81·1	26·0	43·32	0·018	wP : mP : mP, ssN
2	..	29·847	46·8	33·6	13·2	39·8	− 0·6	36·6	32·4	7·4	14·2	2·8	75	69·6	25·2	43·34	0·000	mP : sP : ssP
3	..	29·786	47·5	36·2	11·3	41·7	+ 1·2	39·0	35·7	6·0	10·2	2·5	80	65·7	29·1	43·39	0·000	mP : sP : mP
4	..	29·552	53·4	43·6	9·8	48·8	+ 8·1	46·7	44·5	4·3	5·7	1·5	85	67·2	38·6	43·33	0·157	wP
5	First Quarter	29·434	52·9	49·0	3·9	50·2	+ 9·3	48·1	45·9	4·3	6·9	2·1	86	61·1	43·2	43·51	0·039	wP
6	Greatest Dec. N.	29·264	57·0	44·7	12·3	51·2	+10·2	46·8	42·2	9·0	13·5	4·1	72	101·5	36·4	43·90	0·000	wP : wP : mP
7	..	29·428	46·5	40·1	6·4	43·3	+ 2·3	41·7	39·8	3·5	6·9	0·9	88	57·1	30·0	44·32	0·125	wP : vN, mP : mP, vN
8	..	29·315	53·0	45·0	8·0	49·3	+ 8·2	47·6	45·8	3·5	4·8	1·7	88	64·2	40·0	44·57	0·405	wN, wP : wwP : wwN, wwP
9	..	29·262	48·8	34·1	14·7	39·9	− 1·1	39·2	38·3	1·6	2·7	0·9	95	47·5	32·0	44·72	1·115	wP : wP, vN : vN, wP
10	..	29·486	46·0	32·2	13·8	38·2	− 2·7	35·6	32·0	6·2	13·2	2·9	79	82·8	23·0	44·81	0·015	wP : mP, sN : ..
11	..	29·786	46·1	29·3	16·8	36·7	− 4·3	33·7	29·5	7·2	15·2	2·1	76	85·3	19·0	44·47	0·013	mP : sP : vP
12	Full : In Equator : Perigee	29·627	57·5	39·0	18·5	47·8	+ 6·7	44·9	41·8	6·0	12·5	1·6	80	94·1	30·9	44·01	0·326	wP, vN : wP : wP
13	..	29·791	55·0	41·2	13·8	48·0	+ 6·7	46·5	44·9	3·1	6·4	1·5	90	67·4	30·1	43·89	0·123	wP
14	..	29·360	53·9	44·4	9·5	48·5	+ 7·0	45·6	42·5	6·0	12·2	2·4	80	100·4	41·1	44·27	0·224	wwP, wwN : wP, vN : vP, vN
15	..	29·541	51·0	44·6	6·4	48·1	+ 6·4	45·1	41·8	6·3	11·9	1·7	79	92·8	36·6	44·41	0·100	wP : wP, wwN : wP
16	..	29·356	49·6	38·9	10·7	44·6	+ 2·7	41·1	37·0	7·6	11·6	3·2	74	64·2	29·7	44·62	0·081	wP, wwN : wP, wN : mP
17	..	29·695	50·7	35·2	15·5	41·7	− 0·3	37·8	33·0	8·7	14·5	2·7	71	92·2	26·8	44·77	0·020	mP : mP : vP, ssN
18	Last Quarter : Greatest Dec. S.	29·164	49·1	33·2	15·9	40·7	− 1·3	37·6	33·7	7·0	17·0	3·3	77	90·8	23·0	44·59	0·070	wP, vN : ... : vP, ssN
19	..	29·026	46·3	32·0	14·3	37·2	− 4·7	35·9	34·1	3·1	7·2	1·9	88	88·9	21·0	44·40	0·104	vP, ssN : wP, wwN : mP, ssN
20	..	28·690	39·2	32·9	6·3	35·9	− 6·0	34·8	33·1	2·8	4·7	0·8	90	47·3	25·6	44·11	0·528	vP, ssN : vP, ssN : mP
21	..	29·001	45·7	31·9	13·8	38·2	− 3·7	35·8	32·6	5·6	9·8	1·4	80	67·0	23·2	43·61	0·065	mP : mP, ssN : mP
22	..	29·210	50·2	29·1	21·1	39·4	− 2·6	36·6	32·9	6·5	14·8	1·4	78	86·3	17·5	43·30	0·029	wP : vP, vN : mN, mP
23	..	29·345	50·2	32·6	17·6	41·0	− 1·2	39·1	36·7	4·3	9·9	1·5	85	80·2	22·9	43·09	0·078	wP : wP, wN : mN, mP
24	..	29·059	53·1	35·4	17·7	43·3	+ 0·9	40·7	37·6	5·7	13·3	2·6	80	102·2	27·7	42·93	0·016	mP : vP, ssN : mP, mN
25	..	28·943	53·9	34·7	19·2	42·4	− 0·3	39·6	36·2	6·2	14·8	1·5	79	110·2	26·0	43·02	0·039	wP : wP : mP, vN
26	In Equator : New	29·029	51·7	39·9	11·8	43·7	+ 0·7	40·8	37·4	6·3	13·2	2·0	78	84·2	28·4	43·19	0·125	wP, sN : mP : sP, ssN
27	Apogee	29·598	47·5	32·2	15·3	40·6	− 2·7	38·3	35·4	5·2	9·8	2·0	82	77·2	20·3	43·32	0·017	mP, ssN : sP, ssN : sP
28	..	29·885	56·8	27·8	29·0	41·8	− 1·9	38·3	34·0	7·8	15·6	1·8	75	105·2	17·9	43·50	0·000	sP : wP
29	..	29·815	51·2	42·9	8·3	45·5	+ 1·4	42·6	39·2	6·3	13·2	4·1	79	75·9	34·5	43·44	0·038	wP : wP : vN, mP
30	..	29·919	54·0	39·9	14·1	48·6	+ 4·1	47·0	45·2	3·4	6·4	2·2	89	75·6	28·5	43·59	0·058	wP
31	..	30·040	65·3	46·3	19·0	55·4	+10·5	49·3	43·5	11·9	21·5	5·0	65	117·1	32·7	43·88	0·000	wP : wP : mP
Means	..	29·454	51·0	37·4	13·6	43·8	+ 1·9	41·1	37·9	5·8	11·3	2·2	80·6	80·7	28·6	43·86	Sum 3·928	..
Number of Column for Reference	I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29^{in.}·454, being 0^{in.}·292 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 65°·3 on March 31 ; the lowest in the month was 27°·8 on March 28 ; and the range was 37°·5.
The mean of all the highest daily readings in the month was 51°·0, being 1°·2 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 37°·4, being 2°·3 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 13°·6, being 1°·1 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 43°·8, being 1°·9 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.					ROBINSON'S.	CLOUDS AND WEATHER.	
			OSLER'S.			Pressure on the Square Foot.		Horizontal Movement of the Air.		
			General Direction.			Greatest.	Mean of 24 Hourly Measures.			
			A.M.	P.M.					A.M.	P.M.
	hours.	hours.				lbs.	lbs.	miles.		
Mar. 1	8·8	10·8	SW : W : NW	WNW : WSW : W		3·0	0·32	386	8, r : 1 : 4, ci.-s, cu	1, ci : p.-cl,slt.-sh : p.-cl
2	3·6	10·9	WNW : W : NNW	NW : WNW : W		2·7	0·18	324	o, ho.-fr : o,h,ho.-fr: 6,cu,cu.-s,h	8, cu, cu.-s : 9 : 1, th.-cl
3	0·0	10·9	W : WNW	WNW : W		4·1	0·32	391	p.-cl : 9 : 10, s, n	10, s, n : 10
4	0·0	11·0	WSW : W	W		5·0	0·63	518	10, r : 10, oc.-slt.-r	10, cu, n, oc.-slt.-r : 10, w : 10, oc.-slt.-r
5	0·0	11·1	W	W : WSW		6·0	0·70	562	10 : 10, cu, s, n	10, sc, s, slt.-r, w : 10, slt.-r, w : 10, slt.-sh, w
6	3·4	11·1	WNW : W	W : WNW : NW		14·3	1·29	671	9 : p.-cl, w : 8,ci.-s,cu.-s,so.-ha,w	8, cu, st.-w : p.-cl
7	0·0	11·2	W : Calm : Var.	Calm : W		1·0	0·02	183	p.-cl : 9 : 10, slt.-r	10, slt.-r, slt.-f : 10, oc.-slt.-r, slt.-f : 10, slt.-sh
8	0·0	11·2	SW : WSW : W	W : WSW		7·2	0·85	545	10, r : 10, r, w : 10, oc.-slt.-r, w	10, sc,s,oc.-slt.-r,w : 10, r
9	0·0	11·3	Var. : E	ENE : NE : NNE		2·7	0·15	306	10, r : 10, r	10, r : 10,r,sl,sn : 10, slt.-sh
10	4·8	11·4	WNW : NW	NW : W : WNW		3·4	0·13	329	10 : p.-cl, h : 4, cu, h, so.-ha	6,cu,cu.-s,sh.-r,sl,sn: p.-cl : 1, ho.-fr, m
11	6·7	11·5	W : NW	WNW : W : SW		1·1	0·04	234	o,slt.-m,ho.-fr: o, h : 6, cu, th.-cl, h	6, cu, s, h : p.-cl : p.-cl, s, lu.-ha, ho.-fr, slt.-r
12	2·6	11·5	SW : W	WNW : W		8·0	0·57	457	10, r : 10, r, w : 10, s, n	8, cu, w : p.-cl : p.-cl,lu.-ha,d
13	0·0	11·6	WSW : SSW	WSW : SW		4·6	0·31	354	9, oc.-r : 10, c.-r : 10,sc,slt.-r	10, oc.-slt.-r, w : 10,oc.-slt.-r,w : 9
14	2·5	11·7	WSW : SW	WSW : SW : W		24·4	1·60	694	10, w : 10,fq.-r,w : 8,cu.-s,s,shs.-r, w	8, oc.-r, sl, hl, sq : 10, r, sl, hl, st.-w : 9, w
15	3·3	11·7	W	WSW : SW : W		7·5	0·85	578	10, slt.-sh, w : p.-cl, w : p.-cl, w	10, fq.-r, w : 10,sh.-r, w : p.-cl, w
16	1·3	11·8	WSW : W : WNW	NW : N : NNW		17·1	1·93	714	10, oc.-r : 9, sh.-r, st.-w : 10, sc, s, slt.-r, st.-w	9,slt.-r,st.-w: 2, w : o, w
17	7·3	11·9	WNW : W	W : WSW : SW		2·7	0·32	389	o : 1 : 3, cu.-s	7, cu, cu.-s : p.-cl, sh.-r, so.-ha : p.-cl
18	3·5	11·9	SW : SSW : WNW	WNW : W : SW		4·6	0·45	404	10,slt.-r,w : 10, oc.-r : 10	p.-cl, cu, s, so.-ha: 9, slt.-sn : o, ho.-fr
19	1·2	12·0	SSW : SW	SW : WSW		2·0	0·13	271	o, ho.-fr : 9,fq.-r,sn: 9, cu.-s, s	8, cu.-s, s : 9, oc.-slt.-r : 1, ho.-fr
20	0·0	12·1	Variable	NNE : N : WNW		4·3	0·30	368	p.-cl : 10, oc.-r,sl,sn : 10, c.-r	10, sc, c.-r,sl,sn : 10 : p.-cl
21	0·2	12·1	W : WNW : NW	WNW : NW : W		2·6	0·09	347	o,m,ho.-fr: p.-cl : 10, oc.-slt.-r	10, r : p.-cl, hl : o, slt.-f,ho.-fr
22	6·1	12·2	W : WSW : Calm	NW : Var. : W		2·1	c·01	195	o, ho.-fr : o, ho.-fr : 1, th.-cl, h	p.-cl,sh.-r,sl,sn: p.-cl : o, ho.-fr
23	1·0	12·3	W : WSW	SW : SSW : WSW		4·6	0·18	322	o, ho.-fr : p.-cl : 10, s, n	10, s, n, slt.-r : 10, r : 10, r
24	4·8	12·3	Calm : SSW	W : WSW		2·3	0·04	250	9 : p.-cl : 6, th.-cl	8,cu.-s,shs-r: p.-cl : 9
25	6·1	12·4	WNW : W	SW : S : SE		1·6	0·03	251	10 : p.-cl, ho.-fr : 6, ci, ci.-cu, cu	7, cu, cu.-s : 10, slt.-r : 10, r
26	1·1	12·5	NE : NNE	NNE : NW		0·7	0·03	205	10, r : 10, r : 9	9,cu.-s,sh.-r: 9, sh.-r : 9
27	0·1	12·5	Calm : NNE : NE	NNE : NE : Calm		0·4	0·00	136	10, slt.-f : 10, slt.-sh : 10, s, n	10,cu.-s, n,sh.-r: p.-cl : 1, m, ho.-fr
28	7·9	12·6	Calm : SW	SW : S : SSE		0·6	0·04	178	1,slt.-m,ho.-fr: 1, ho.-fr : 2, ci.-s, cu	cu, th.-cl : th.-cl, so.-ha : 9
29	0·0	12·7	SSE : S	SSW : Calm : SW		1·6	0·10	211	10 : 10 : 10, s, th.-r	10, s : 10, slt.-r : 9
30	0·0	12·7	SW : SSW	S : SW		5·3	0·46	418	p.-cl : 10 : 10, s, n, r	10, sc, s, n, slt.-sh: 10,oc.-slt.-r,w : 10, w
31	11·3	12·8	SW : WSW	WSW : SW		5·8	0·69	487	10, w : 1, w	3, ci, ci.-s : th.-cl, so.-ha : p.-cl, lu.-ha
Means	2·8	11·8	..	..		..	0·41	377		
Number of Column for Reference	19	20	21	22		23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 41°·1, being 1°·7 *higher* than

The mean *Temperature of the Dew Point* for the month was 37°·9, being 1°·6 *higher* than

The mean *Degree of Humidity* for the month was 80·6, being 0·1 *greater* than

The mean *Elastic Force of Vapour* for the month was 0^{in}·228, being 0^{in}·014 *greater* than

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2^{grs}·6, being 0^{gr}·1 *greater* than

The mean *Weight of a Cubic Foot of Air* for the month was 542 grains, being 7 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 7·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·240. The maximum daily amount of *Sunshine* was 11·3 hours on March 31.

The highest reading of the *Solar Radiation Thermometer* was 117°·1 on March 31; and the lowest reading of the *Terrestrial Radiation Thermometer* was 17°·5 on March 22.

The *Proportions of Wind* referred to the cardinal points were N. 4, E. 1, S. 5, W. 19. Two days were calm.

The *Greatest Pressure of the Wind* in the month was 24·4 lbs. on the square foot on March 14. The mean daily *Horizontal Movement of the Air* for the month was 377 miles; the greatest daily value was 714 miles on March 16; and the least daily value was 136 miles on March 27.

Rain (0^{in}·005 or over) fell on 26 days in the month, amounting to 3^{in}·928, as measured by gauge No. 6 partly sunk below the ground; being 2^{in}·408 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BARO-METER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Apr. 1	●·	29·817	66·8	42·9	23·9	53·5	+ 8·2	48·2	42·9	10·6	20·2	1·9	67	117·2	28·4	44·37	0·000	mP
2	Greatest Dec. N.	29·741	62·6	43·3	19·3	50·4	+ 4·7	48·2	45·9	4·5	13·3	0·8	85	109·0	29·5	44·91	0·005	wP : mP : mP
3	First Quarter	29·790	59·8	38·2	21·6	48·0	+ 2·0	44·5	40·7	7·3	16·0	0·4	76	102·1	28·6	45·30	0·000	wP : ... : mP
4	..	29·767	55·9	41·3	14·6	46·6	+ 0·4	44·4	41·9	4·7	10·3	2·0	85	98·5	29·6	45·68	0·071	wP, wN : sN, mP : mP
5	..	29·497	56·8	41·2	15·6	49·4	+ 3·1	46·8	44·0	5·4	11·3	0·8	83	94·6	31·3	45·91	0·250	wP, sN : wP : wP, wN
6	..	29·346	58·0	45·3	12·7	49·5	+ 3·2	44·4	38·9	10·6	18·9	1·5	66	107·3	37·0	46·09	0·076	wP : mP : mP
7	..	29·237	52·1	39·6	12·5	43·8	− 2·5	41·2	38·1	5·7	14·6	0·0	80	104·6	32·6	46·22	0·447	vP, ssN
8	..	29·348	56·2	36·0	20·2	45·0	− 1·1	41·7	37·9	7·1	16·8	1·0	76	112·5	27·9	46·23	0·087	mP : mP : vP, ssN
9	In Equator	29·525	53·5	37·0	16·5	46·7	+ 0·7	44·5	42·0	4·7	11·9	1·7	85	88·5	29·1	46·09	0·030	mP : wP
10	Perigee : Full	29·565	60·1	43·7	16·4	50·8	+ 4·9	46·7	42·4	8·4	15·2	1·9	79	121·1	36·0	46·11	0·084	wP, sN : wP, sN : wP
11	..	29·685	60·8	41·7	19·1	49·1	+ 3·3	46·1	42·9	6·2	13·1	1·5	79	110·3	31·3	46·22	0·041	wP, wN : wP : mP
12	..	29·972	61·8	39·1	22·7	49·3	+ 3·4	44·5	39·3	10·0	18·4	1·2	68	119·1	28·1	46·48	0·000	mP : wP
13	..	29·892	66·3	36·1	30·2	51·3	+ 5·2	46·7	41·9	9·4	16·4	0·9	70	112·6	25·3	46·62	0·000	mP : vP : mP
14	..	30·134	58·1	42·3	15·8	49·4	+ 3·0	43·7	37·6	11·8	19·3	5·9	64	107·0	28·3	46·78	0·000	mP : sP : sP
15	Greatest Dec. S.	30·335	57·2	35·6	21·6	45·0	− 1·8	41·0	36·4	8·6	17·0	2·8	72	119·2	19·9	47·02	0·000	mP : mP : vP
16	..	30·282	55·9	33·9	22·0	44·4	− 2·8	41·3	37·7	6·7	13·7	1·5	77	123·3	18·9	47·13	0·000	mP
17	Last Quarter	30·065	58·5	39·3	19·2	48·9	+ 1·3	45·0	40·8	8·1	17·7	0·2	74	124·5	27·2	47·12	0·000	mP : wP
18	..	29·992	60·2	41·2	19·0	50·9	+ 2·9	44·0	36·8	14·1	22·5	5·1	58	116·9	27·5	47·17	0·000	mP : wP : mP
19	..	30·042	66·1	39·2	26·9	52·6	+ 4·3	45·7	38·8	13·8	25·2	2·0	61	128·0	21·1	47·29	0·000	mP : wP : wP
20	..	30·103	72·3	38·2	34·1	55·3	+ 6·8	46·6	38·3	17·0	28·7	3·6	53	130·6	24·1	47·55	0·000	mP : vP : mP
21	..	30·133	73·6	37·1	36·5	56·4	+ 7·7	48·0	40·2	16·2	27·5	3·8	54	132·8	23·1	47·82	0·000	mP : vP : wP
22	In Equator	30·051	65·5	45·1	20·4	53·7	+ 5·0	49·4	45·2	8·5	15·0	3·9	72	105·0	31·1	48·12	0·006	vP : ssN, ssP : ssN, vP
23	Apogee	30·100	61·0	44·3	16·7	51·2	+ 2·6	46·2	41·0	10·2	19·2	1·7	68	108·8	27·5	48·51	0·008	wP : mP : sP
24	..	30·126	62·1	41·5	20·6	52·1	+ 3·5	47·9	43·6	8·5	14·4	2·2	73	120·9	30·0	48·76	0·005	mP
25	New	30·234	58·8	39·8	19·0	50·9	+ 2·3	46·0	40·9	10·0	19·9	3·5	69	125·1	28·8	48·91	0·000	mP : mP : wP
26	..	30·364	61·0	31·7	29·3	46·7	− 1·9	41·9	36·5	10·2	19·8	1·5	68	126·3	17·1	49·18	0·000	mP : wP : wP
27	..	30·281	65·4	35·9	29·5	50·3	+ 1·6	45·5	40·4	9·9	18·8	1·9	69	123·0	26·0	49·22	0·000	mP : wP : mP
28	..	30·126	64·1	40·5	23·6	51·3	+ 2·5	47·5	43·6	7·7	17·2	0·9	75	132·2	26·3	49·29	0·000	mP : wP : mP
29	Greatest Dec. N.	29·867	69·6	44·3	25·3	54·1	+ 5·1	50·3	46·6	7·5	19·2	0·2	75	131·6	35·0	49·46	0·000	mP : wP
30	..	29·794	51·6	44·1	7·5	47·2	− 1·9	45·0	42·6	4·6	8·5	1·3	85	61·2	33·1	49·62	0·000	wP : mP : mP
Means	..	29·907	61·1	40·0	21·1	49·8	+ 2·5	45·4	40·9	8·9	17·3	1·9	72·2	113·8	28·0	47·17	Sum 1·110	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The main reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in·907, being 0in·159 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 73°·6 on April 21 ; the lowest in the month was 31°·7 on April 26 ; and the range was 41°·9.
The mean of all the highest daily readings in the month was 6°·1, being 3°·9 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 40°·0, being 1°·0 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 21°·1, being 2°·9 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 49°·8, being 2°·5 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S.	CLOUDS AND WEATHER.	
			OSLER'S.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			General Direction.		Greatest.	Mean of 24 Hourly Measures.			
			A.M.	P.M.				A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
April 1	7·6	12·8	Calm : S : SW.	W : WSW	1·6	0·15	272	th.-cl : p.-cl : 7, ci,ci.-s,s,so.-ha	p.-cl, s, so.-ha : ci, ci.-s, s : p.-cl,d, lu.-ha, lu.-co
2	3·0	12·9	WSW : SW	WSW : NNE : W	0·6	0·01	152	10 : 10 : 8, cu, cu.-s	10, s, n, slt.-r : p.-cl : o, m, d
3	5·6	13·0	W : WSW	W : WSW	0·5	0·04	206	o, ho.-fr : p.-cl, m : th.-cl, so.-ha	7, s, so.-ha : p.-cl : p.-cl
4	1·5	13·1	WSW : SW	W : WSW : SW	2·0	0·05	209	10 : 10, r : 10 fq.-r	9, slt.-r, so.-ha : v, lu.-ha : th.-cl, lu.-ha
5	2·1	13·1	SSW : W	W : WSW	6·3	0·64	482	10, oc.-r : 10, shs.-r : 9, cu, n, oc.-slt.-r, w	9, cu, cu.-s, n, oc.-slt.-r, w: 10, fq.-r, w
6	10·3	13·2	W : WNW	WNW : W : WSW	21·0	1·82	759	9, r, w : p.-cl, w : 6, cu, cu.-s, st.-w	6, cu, cu.-s, g: 5, st.-w : th.-cl, lu.-ha
7	5·6	13·2	WSW : W	WSW : W	5·6	0·62	476	9, fq.-r : p.-cl, w : p.-cl., cu, w	10, cu, s, n, fq.-r, w : 9, fq.-r, w : p.-cl, lu.-ha
8	9·7	13·3	W	W : NW	5·5	0·18	330	o, ho.-fr : o : 1, cu, th.-cl	5, cu : p.-cl, fq.-r : p.-cl
9	3·0	13·4	W : SW	SW	7·0	0·83	501	p.-cl : p.-cl, ci.-s, cu, cu.-s, so.-ha	10, cu, n, fq.-th.-r, w : 10, sc, fq.-th.-r, w
10	10·1	13·4	SW : WSW	WSW : SW	8·9	0·62	466	10, oc.-shs, sq : p.-cl, w : 5, cu, cu.-s, w	6 s, hv.-sh, hl, so.-ha, w : th.-cl,so.-ha,prh: th.-cl, lu.-ha
11	3·9	13·5	SSW : Calm : SW	SW : NW : W	3·9	0·21	288	9 : 10, oc.-shs: 10, sc, s, n	p.-cl, ci, cu : p.-cl : 1, th.-cl
12	12·0	13·6	WSW : W	WSW : W : SW	2·1	0·13	278	1, th.-cl : 1 th.-cl	1, cu : o, d
13	5·1	13·6	SW : Calm	SW : W : NW	1·5	0·10	197	o, ho.-fr : p.-cl, th.-cl : 7, cu, cu.-s	9, cu.-s, n : 10 : 9
14	9·6	13·7	N : NW	NW : N : NNE	6·5	0·32	312	9 : p.-cl : p.-cl, cu	5, cu : o
15	11·7	13·8	Calm : E	ENE : SE : Calm	1·5	0·10	184	o, ho.-fr : 1, th.-cl : 4, cu, th.-cl	5, cu : o : o
16	12·1	13·8	Calm : E : ESE	ESE : SE : E	2·1	0·15	217	o, ho.-fr : 1, cu : 3, cu	1, th.-cl : o, d
17	10·5	13·9	E : SE	ESE : SE	10·0	0·59	378	9 : 8 : 1, cu, w	o, w : o
18	12·3	13·9	SE	SE : ESE	5·8	0·35	306	o, ho.-fr : o	o : o, w : o
19	12·3	14·0	ESE : E : SE	ESE : E	4·3	0·25	259	o, ho.-fr : o	o, w : o
20	12·2	14·1	Calm : ENE	SE : Calm	1·0	0·05	165	o, ho.-fr : o	o : o : o, ho.-fr
21	11·9	14·1	Calm : E	E : SE	0·5	0·02	145	o, ho.-fr : o	o : th.-cl : th.-cl
22	0·1	14·2	W : Calm : SE	SW : WSW	1·8	0·07	225	9, th.-cl : 10	9, slt.-r : p.-cl : o, hy.-d
23	3·8	14·2	SW : W : N	NW : N	1·4	0·14	258	p.-cl, d : 10, li.-shs : 10, sc, s	p.-cl, cu, cu.-s : p.-cl : 1, h
24	3·6	14·3	W	NW : WNW : N	4·0	0·32	358	1, h : p.-cl : 9, cu, s, w	10, s, n, w : 9 : 10, sh.-r
25	5·8	14·4	N : NNE : ENE	NE : SE : ESE	3·2	0·37	331	9 : p.-cl : 8, cu, cu.-s	8, cu, cu.-s : p.-cl : o
26	12·2	14·4	Calm : E	ESE : SE : Calm	0·3	0·00	108	o, ho.-fr : o	3, ci, ci.-s : ci, ci.-s : o, ho.-fr
27	12·1	14·5	Calm	ESE : SE	0·7	0·00	141	o, ho.-fr : o	o : o, h, d
28	12·4	14·6	E : Calm : ESE	SE	1·6	0·07	225	o, slt.-f : o : 1	o : o : p.-cl
29	9·4	14·6	Calm : ENE	E : SE : ENE	0·5	0·00	135	10, f : 10, slt.-f : 3, th.-cl	o : o : 1, th.-cl
30	0·0	14·7	ENE : NE	ENE : E	4·8	0·27	365	o, m : 10 : 10, cu, s, n	10, cu, s, n : 10, w
Means	7·7	13·8	..	..	..	0·28	291		
Number of Column for Reference	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 45°·4, being 1°·5 *higher* than
The mean *Temperature of the Dew Point* for the month was 40°·9, being 0°·8 *higher than*
The mean *Degree of Humidity* for the month was 72·2, being 3·6 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·256, being 0in·008 *greater* than } the average for the 65 years, 1841–1905.
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·9, being the *same* as
The mean *Weight of a Cubic Foot of Air* for the month was 544 grains, being 1 grain *greater* than

The mean amount of *Cloud* for the month (a clear sky being represented by o and an overcast sky by 10) was 4·3.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·560. The maximum daily amount of *Sunshine* was 12·4 hours on April 28.

The highest reading of the *Solar Radiation Thermometer* was 132°·8 on April 21 ; and the lowest reading of the *Terrestrial Radiation Thermometer* was 17°·1 on April 26.

The *Proportions of Wind* referred to the cardinal points were N. 3, E. 8, S. 5, W. 10. Four days were calm.

The *Greatest Pressure of the Wind* in the month was 21·0 lbs. on the square foot on April 6. The mean daily *Horizontal Movement of the Air* for the month was 291 miles ; the greatest daily value was 759 miles on April 6 ; and the least daily value was 108 miles on April 26.

Rain (0in·005 or over) fell on 12 days in the month, amounting to 1in·110, as measured by gauge No. 6 partly sunk below the ground ; being 0in·456 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation = 100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
May 1	..	30·043	52·3	38·9	13·4	44·8	− 4·5	39·0	32·2	12·6	17·3	6·3	61	110·5	28·2	49·82	0·000	vP : sP : vP
2	..	30·136	55·8	39·1	16·7	46·0	− 3·5	40·8	35·0	11·0	17·8	4·6	66	138·5	27·5	49·76	0·000	vP : wP : wP
3	First Quarter	29·885	66·9	40·2	26·7	52·5	+ 2·7	47·8	43·0	9·5	15·5	4·7	70	131·1	28·5	49·70	0·000	wP : wN, wP : wP
4	..	29·619	66·0	49·5	16·5	56·3	+ 6·3	52·4	48·8	7·5	15·7	0·8	75	102·3	41·5	49·72	0·115	wN, wP : wP : mP
5	..	29·474	61·8	49·3	12·5	53·5	+ 3·2	49·4	45·3	8·2	12·6	3·3	73	113·5	41·1	50·03	0·200	wP : vP, ssN : vP
6	In Equator	29·506	59·2	48·1	11·1	52·2	+ 1·7	48·3	44·2	8·0	12·1	3·1	75	96·0	44·8	50·35	0·000	mN, wP : mP : mP
7	..	29·314	65·2	48·0	17·2	53·7	+ 3·0	50·6	47·6	6·1	13·8	1·2	80	127·2	46·0	50·58	0·561	wP : vP, ssN : ssN, vP
8	Perigee	29·399	58·1	44·4	13·7	49·3	− 1·7	44·4	39·1	10·2	17·1	3·8	67	116·6	38·9	50·70	0·082	wP : vP, ssN : mP
9	Full	29·662	48·1	44·2	3·9	45·9	− 5·3	42·4	38·4	7·5	9·5	3·7	76	62·7	39·5	50·72	0·006	wP, wN : sP : sP
10	..	29·853	53·1	39·4	13·7	46·7	− 4·8	44·3	41·6	5·1	12·8	0·4	83	80·2	29·5	50·81	0·053	mP : wP, ssN : vP
11	..	29·782	55·9	43·9	12·0	49·5	− 2·3	44·4	38·9	10·6	15·2	5·4	66	101·6	35·7	50·43	0·000	mP : mP : sP
12	Greatest Dec. S.	29·957	56·0	42·0	14·0	47·6	− 4·5	43·1	38·1	9·5	16·3	2·9	71	126·1	36·9	50·40	0·000	mP : ... : sP
13	..	30·019	55·0	41·7	13·3	49·2	− 3·2	45·8	42·2	7·0	10·3	2·8	77	84·0	34·1	50·41	0·000	mP
14	..	30·069	70·2	45·1	25·1	56·4	+ 3·8	53·1	50·0	6·4	14·8	1·6	80	114·1	34·2	50·51	0·000	wP : mP : wP
15	..	30·116	64·8	45·4	19·4	55·2	+ 2·4	52·1	49·1	6·1	13·2	0·8	81	126·7	37·5	50·71	0·000	wP
16	Last Quarter	30·165	66·0	44·5	21·5	54·5	+ 1·5	48·7	43·1	11·4	23·0	1·3	66	130·3	34·7	51·08	0·000	wP
17	..	30·173	70·7	43·7	27·0	55·7	+ 2·6	49·4	43·4	12·3	22·1	3·7	64	131·9	28·1	51·44	0·000	wP : wP : vP
18	..	30·159	74·2	42·5	31·7	58·0	+ 4·7	49·9	42·7	15·3	27·1	5·2	57	134·3	29·5	51·82	0·000	vP : vP : wP
19	In Equator	30·192	75·2	42·3	32·9	58·4	+ 4·9	51·9	46·2	12·2	23·1	2·2	64	121·7	31·1	52·18	0·000	wP : sP : wP
20	..	30·177	73·8	44·2	29·6	59·5	+ 5·7	55·5	51·9	7·6	15·1	1·2	76	116·6	34·6	52·59	0·000	wP
21	Apogee	30·088	80·6	48·2	32·4	65·4	+ 11·2	57·8	51·6	13·8	29·7	1·8	60	144·3	35·9	53·08	0·000	wP : wP : mP
22	..	29·955	83·4	48·5	34·9	65·6	+ 11·0	58·4	52·5	13·1	25·7	1·8	64	137·3	34·6	53·51	0·253	wP : wP : vP, ssN
23	..	29·700	70·7	48·3	22·4	57·9	+ 3·0	55·9	54·1	3·8	10·6	0·9	87	121·7	48·1	54·00	0·098	vP, vN
24	..	29·967	56·3	42·0	14·3	49·6	− 5·7	45·3	40·7	8·9	14·4	2·8	72	131·7	33·7	54·43	0·011	wP : wP, wN : wP
25	New	30·079	54·9	39·0	15·9	45·9	− 9·6	40·5	34·4	11·5	18·4	4·4	64	126·7	28·6	54·49	0·000	mP
26	..	29·992	56·1	39·1	17·0	45·7	− 10·1	41·0	35·6	10·1	17·4	4·9	68	124·7	28·0	54·12	0·000	sP : mP
27	Greatest Dec N.	30·005	60·6	37·6	23·0	49·2	− 6·8	43·2	36·7	12·5	18·1	2·8	62	131·1	26·3	53·90	0·000	mP
28	..	29·985	62·1	37·9	24·2	49·3	− 6·9	45·4	41·2	8·1	17·6	3·3	73	118·0	24·1	53·61	0·000	mP : vP : wP, wN
29	..	29·882	64·2	46·1	18·1	53·6	− 2·8	50·4	47·3	6·3	14·1	1·3	78	103·2	39·6	53·45	0·000	wP : mP : wP
30	..	29·876	66·3	46·3	20·0	56·5	− 0·2	53·3	50·3	6·2	13·5	0·4	80	92·1	37·1	53·55	0·000	wP : mP : wP
31	..	29·869	71·0	48·3	22·7	58·4	+ 1·3	54·1	50·2	8·2	18·7	1·6	75	129·4	41·3	53·70	0·252	wP : wP : wP, wN
Means	..	29·906	63·7	43·8	19·9	53·0	− 0·1	48·3	43·7	9·2	16·9	2·7	71·3	117·0	34·8	51·79	Sum 1·631	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29ᶦⁿ·906, being 0ᶦⁿ·112 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·4 on May 22 ; the lowest in the month was 37°·6 on May 27 ; and the range was 45°·8.
The mean of all the highest daily readings in the month was 63°·7, being 0°·2 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 43°·8, being 0°·1 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 19°·9, being 0°·3 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 53°·0, being 0°·1 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S.	CLOUDS AND WEATHER.	
			OSLER'S.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			General Direction.						
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
May 1	6·4	14·7	ENE : NE	NE : ENE : ESE	4·5	0·42	396	10　　:　p.-cl　　:　9, cu.-s, w	9　　　　:　p.-cl　　　:　9
2	9·0	14·8	E : SE	ESE : SE	4·5	0·27	294	9　　:　p.-cl　　:　4, ci.-cu,cu	1, w　　:　o, w　　:　o
3	4·2	14·9	SSE : S : SSW	SSW : SW	3·0	0·21	284	o　　:　p.-cl　　:　9, s, n	8, cu, s　:　p.-cl　　:　10
4	5·3	14·9	SW : WSW	WSW : SW	7·3	0·94	526	10, oc.-r,w : 10, oc.-r　:　8, cu, cu.-s, w	p.-cl, cu, cu.-s, w :　8, so.-ha, w: p.-cl
5	5·6	15·0	WSW	WSW : WNW : W	5·8	0·80	503	p.-cl　　:　9　　:　9, ci.-s, cu, cu.-s, sh.-r, w	8,shs.-r,hl, w　　:　9,sc,cu.-s,oc.-slt.-r,w
6	1·6	15·1	W : WNW	W : WSW : SW	3·0	0·42	362	10,oc.-m.-r:　9　　:　8, cu.-s, n	10, s, n　:　10, s, n　:　10, oc.-slt.-r
7	3·7	15·1	SW : W	WSW : W	7·2	0·84	478	10　　:　9, w　　:　p.-cl, cu, cu.-s,w	9, sc, n, t.-sm, hy.-shs, w　:　10, n, t.-sm,hy.-r, w: 10, w
8	12·1	15·1	W	W : WNW : WSW	10·0	1·22	604	10, w　　:　p.-cl, w　:　v,shs.-r,hl,sqs	7, cu, shs.-r, w :　p.-cl, w　:　p.-cl. w
9	0·0	15·2	W : NW : N	N : NNE	7·0	0·65	423	10, w　:　10,oc.-slt.-r,w: 10, n, w	10, n, oc.-slt.-r　:　10, n
10	1·3	15·3	NNW : WNW : SW	SW : WSW : NNW	1·7	0·15	257	9　　:　p.-cl　　:　10, s, oc.-slt.-r	10, c.-r　　　:　10
11	2·3	15·3	NNW : W : WNW	WNW : WSW : NW	2·3	0·20	278	10　　:　10　　:　9, ci.-s, cu	10, s, n　:　p.-cl　　:　10
12	5·5	15·4	NW : NNE : N	N : Calm	4·0	0·35	295	10　　:　p.-cl　　:　8, cu, cu.-s	7, cu, cu.-s　　:　10
13	0·0	15·4	Calm : WSW : W	W : WSW	2·7	0·15	260	10　　　:　10, s, n	10, s, n　　:　10, oc.-m.-r
14	4·9	15·5	NNW : Calm : Var.	NNE : SE : Calm	0·5	0·02	142	9　:　th.-cl, h　:　6, cu, s, h	9　　:　p.-cl　　:　9
15	12·3	15·5	Calm : ESE	ESE : SE	1·5	0·09	170	10　:　p.-cl, slt.-f :　1, cu	1, cu　:　1　　:　p.-cl
16	11·6	15·6	ESE : E : ENE	ENE : E	3·8	0·22	282	p.-cl　　:　9　　　:　o	o　　　　:　o
17	13·9	15·6	ENE : NNE : NE	NE : ESE	1·9	0·10	221	o　　　:　o	1, cu　:　1　　:　o
18	14·1	15·6	NE	NE : ESE : Calm	1·0	0·06	179	o　　:　o　　:　1, li.-cl	o　　:　1, ci.-s　:　1. ci.-s
19	12·3	15·7	Calm : N	N : E : ESE	1·2	0·02	116	o, h　　　:　o, h	o, h　　　:　o
20	11·1	15·7	Calm : E	NE : Calm	0·1	0·00	91	o　:　1, th.-cl :　2, cu	4, cu　:　3　　:　p.-cl, d
21	13·4	15·8	Calm : SW	WSW : SW : W	1·5	0·09	190	1, h, m, d:　o　　:　o	o　　　　:　o
22	13·3	15·8	SW : Calm	SW : S : SE	2·0	0·04	173	o　　　:　o	o　　:　th.-cl　:　10, t.-sm,hy.-r
23	1·7	15·9	ESE : SE : WSW	W : NNW : N	2·6	0·20	285	p.-cl, l, t, sh.-r:　9　　:　9, cu, cu.-s	9, oc.-r, t　:　10, r　　:　10
24	3·0	15·9	NNE	NE : ESE : E	1·7	0·20	281	10　　:　10, slt.-r　:　9,cu,cu.-s,n	10, cu, cu.-s, sh.-r:　p.-cl, d　:　p.-cl, d
25	8·3	16·0	NE : NNE	NNE : N	2·3	0·27	319	p.-cl　:　p.-cl　:　8, cu, cu.-s	8, cu, cu.-s　:　p.-cl　　:　1
26	6·3	16·0	N : NNE	NNE	3·5	0·45	377	p.-cl　:　9　　:　9, li.-shs	9, cu, n　:　p.-cl　　:　o
27	13·5	16·0	N : NNE	NNE : NE : Calm	5·2	0·28	306	10　　:　p.-cl　　:　6, cu. cu.-s	5, cu, cu.-s :　p.-cl, cu, cu.-s: 10
28	1·4	16·1	Calm : WSW : NNE	N : ESE : Calm	0·7	0·01	123	p.-cl　:　p.-cl　:　8 cu, s, n	10, s, n, slt.-r : 10　　:　10, slt.-r
29	1·4	16·1	Calm	N : SSE : Calm	0·1	0·00	95	10　　:　p.-cl, th.-cl:　9, cu, s, n	10, cu, n　:　10, cu, n　:　9
30	1·1	16·2	Calm	N	0·1	0·00	103	p.-cl,slt.-f:　p.-cl, h　:　9, s	10, s, n　:　10, slt.-sh　:　10
31	8·2	16·2	N : NW : W	WNW : NNW : N	1·2	0·05	251	10　　:　p.-cl, li.-cl :　4, cu.-s	7, s, n　:　10, c.-r　:　p.-cl, slt.-r
Means	6·7	15·5	..	..	..	0·28	279		
Number of Column for Reference	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 48°·3, being 0°·7 *lower* than

The mean *Temperature of the Dew Point* for the month was 43°·7, being 1°·3 *lower* than

The mean *Degree of Humidity* for the month was 71·3, being 2·9 *less* than

The mean *Elastic Force of Vapour* for the month was 0in·285, being 0in·014 *less* than } the average for the 65 years, 1841–1905.

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·2, being 0gr·2 *less* than

The mean *Weight of a Cubic Foot of Air* for the month was 540 grains, being 2 grains *greater* than

The mean amount of *Cloud* for the month (a clear sky being represented by o and an overcast sky by 10) was 6·2.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·434. The maximum daily amount of *Sunshine* was 14·1 hours on May 8.

The highest reading of the *Solar Radiation Thermometer* was 144°·3 on May 21 ; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°·1 on May 28.

The *Proportions of Wind* referred to the cardinal points were N. 8, E. 6, S. 4, W. 8. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 10·0 lbs. on the square foot on May 8. The mean daily *Horizontal Movement of the Air* for the month was 279 miles ; the greatest daily value was 604 miles on May 8 ; and the least daily value was 91 miles on May 20.

Rain (0in·005 or over) fell on 10 days in the month, amounting to 1in·631, as measured by gauge No. 6 partly sunk below the ground ; being 0in·284 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air.				Of Evaporation.	Of the Dew Point.	Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation.		Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
			Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Daily Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
June 1	First Quarter	29·919	62·3	44·7	17·6	52·8	− 4·6	47·3	41·8	11·0	19·1	2·0	67	136·2	38·5	53·88	0·000	wP
2	In Equator	29·899	68·0	46·2	21·8	56·3	− 1·5	52·4	48·8	7·5	17·0	1·3	75	126·0	37·6	54·05	0·000	wP
3	..	30·047	68·0	46·9	21·1	56·6	− 1·5	50·5	44·9	11·7	22·1	2·7	66	125·8	36·8	54·30	0·000	wP : mP : wP
4	..	29·943	73·3	45·6	27·7	56·7	− 1·6	52·2	48·0	8·7	18·8	0·8	72	131·4	37·4	54·65	0·000	wP : vP : mP
5	Perigee	29·851	59·6	47·3	12·3	51·8	− 6·6	48·9	46·0	5·8	13·7	3·0	80	103·9	37·0	54·82	0·008	wP : mP : mP
6	..	29·842	59·5	48·1	11·4	52·9	− 5·4	50·8	48·7	4·2	6·1	0·4	87	82·5	45·6	55·00	0·001	wP : mP : wP
7	..	29·610	58·0	43·8	14·2	51·1	− 7·1	48·2	45·2	5·9	13·1	0·4	80	104·8	37·0	54·79	0·463	wP, wN : vP, ssN : vP, vN
8	Full: Greatest Dec. S.	29·429	57·0	40·3	16·7	47·5	−10·6	45·0	42·2	5·3	12·4	0·7	83	121·6	30·9	54·75	0·086	vP, ssN
9	..	29·429	65·6	43·0	22·6	53·1	− 4·9	48·6	44·1	9·0	18·5	0·4	71	119·9	36·3	54·49	0·011	wP : wP : vP, sN
10	..	29·652	65·8	47·1	18·7	56·7	− 1·4	51·4	46·5	10·2	19·6	0·0	68	138·3	43·6	54·41	0·000	wP, sN : wP : wP
11	..	29·749	69·8	50·1	19·7	56·6	− 1·6	51·8	47·3	9·3	23·2	0·0	71	135·3	41·1	54·52	0·086	wP : wP, ssN : vP, wN
12	..	29·754	71·1	53·0	18·1	59·3	+ 0·9	57·0	55·0	4·3	13·5	0·0	86	131·8	52·9	54·74	0·000	wP
13	..	29·765	77·6	55·3	22·3	64·2	+ 5·7	57·9	52·6	11·6	22·8	0·0	66	142·2	49·3	55·19	0·000	wP
14	..	29·774	74·5	53·1	21·4	61·9	+ 3·2	59·1	56·8	5·1	13·3	1·5	84	132·2	46·2	55·67	0·332	wP : vP, vN : sN, wP
15	Last Quarter: In Equator	29·860	76·3	50·8	25·5	61·9	+ 3·1	56·0	51·0	10·9	22·1	1·2	67	141·3	44·9	56·14	0·000	wP
16	..	29·900	64·8	49·2	15·6	55·6	− 3·3	52·5	49·6	6·0	11·4	1·7	81	135·3	40·3	56·43	0·000	wP
17	Apogee	29·890	72·6	45·5	27·1	59·4	+ 0·4	55·3	51·7	7·7	17·0	0·0	76	133·5	35·7	56·90	0·000	wP
18	..	29·846	81·5	48·6	32·9	63·4	+ 4·2	58·2	53·9	9·5	21·7	0·2	71	141·2	37·8	57·07	0·000	wP
19	..	29·865	83·4	52·4	31·0	64·4	+ 4·9	59·8	56·0	8·4	22·2	0·9	74	141·1	42·9	57·42	0·010	wP : wP, wN : vP, ssN
20	..	29·760	75·8	54·1	21·7	62·5	+ 2·6	58·7	55·5	7·0	17·1	0·0	78	136·9	44·2	57·86	0·000	wP
21	..	29·655	70·2	52·0	18·2	58·7	− 1·6	54·7	51·1	7·6	18·5	0·4	76	130·3	41·5	58·24	0·062	wP, wN : wP
22	..	29·761	72·8	48·3	24·5	58·8	− 1·8	52·8	47·5	11·3	22·7	1·2	67	149·4	39·2	58·51	0·002	wP
23	Greatest Dec. N. : New.	29·816	65·3	52·1	13·2	56·6	− 4·3	52·5	48·7	7·9	16·6	0·2	75	119·4	42·8	58·50	0·277	wN, wP : vP, vN : mP
24	..	30·015	72·9	45·7	27·2	60·4	− 0·8	54·4	49·2	11·2	20·8	1·1	66	134·1	35·5	58·60	0·000	wP
25	..	30·107	77·2	53·0	24·2	62·8	+ 1·4	57·3	52·7	10·1	22·8	0·6	70	138·7	43·7	58·53	0·000	wP
26	..	30·172	72·2	47·2	25·0	59·9	− 1·6	53·3	47·5	12·4	22·2	3·1	64	141·2	37·3	58·82	0·000	wP
27	..	30·098	80·8	45·8	35·0	63·7	+ 2·1	55·6	48·8	14·9	26·9	0·8	58	137·0	35·7	58·98	0·000	wP : vP : mP
28	..	30·121	80·3	56·1	24·2	67·0	+ 5·4	57·4	49·7	17·3	29·9	2·9	54	135·2	45·6	59·22	0·000	wP : wP : vP
29	In Equator	30·082	81·9	54·4	27·5	68·3	+ 6·7	62·5	58·0	10·3	19·6	3·4	69	137·1	44·0	59·60	0·000	wP
30	First Quarter	29·930	88·1	56·5	31·6	72·4	+10·9	62·8	55·9	16·5	32·8	4·8	55	152·1	46·8	60·12	0·000	wP
Means	..	29·851	71·5	49·2	22·3	59·1	− 0·3	54·2	49·8	9·3	19·3	1·2	71·9	131·2	40·9	56·54	Sum 1·338	..
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean readings of the *Barometer* for the month was 29in·851, being 0in·036 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 88°·1 on June 30 ; the lowest in the month was 40°·3 on June 8 ; and the range was 47°·8.
The mean of all the highest daily readings in the month was 71°·5, being 0°·8 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 49°·2, being 0°·7 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 22°·3, being 1°·5 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 59°·1, being 0°·3 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S.	CLOUDS AND WEATHER.	
			OSLER'S.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			General Direction.						
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
June 1	9·1	16·2	N : NNE	NE : Calm : SW	2·0	0·13	296	p.-cl : li.-cl, cu : 6, cu.-s	9, cu, s, so.-ha: th.-cl : p.-cl
2	3·6	16·3	SW : WSW : W	NNE : N : NE	1·8	0·03	222	9 : p.-cl : 7, cu, cu.-s	9 : 10, s, n : 10, slt.-r
3	14·7	16·3	NE : NNE	N : NE : SW	0·3	0·02	167	p.-cl : p.-cl : . 1, th.-cl	0 : 1, ci : 0
4	11·9	16·3	SW : WSW : N	N : NNE : NE	2·9	0·13	258	0, m : 0, h : p.-cl, ci.-s, ci.-cu	6, ci.-cu, cu.-s : 3,ci.-cu, cu : 1
5	0·2	16·4	Calm : W : NW	NNW : N	4·3	0·15	267	10 : 10, slt.-sh : 10, s, n	10, slt.-r : 10 : 10, slt.-sh
6	0·0	16·4	NNE : N : WSW	NW : W : SW	0·5	0·00	148	10, slt.-sh : 10 : 10, s, n	10, s, n, slt.-r : 10 : 10
7	3·0	16·4	SW : NNW : N	Var. : NNW	2·6	0·03	196	10, fq.-r : 9, hy.-sh	8, cu, n, hy.-sh : 8, cu, n, slt.-sh : 9, oc.-r
8	4·7	16·4	N : NNE	N : NE	2·9	0·15	239	p.-cl : p.-cl : 6, cu, cu.-s	p.-cl.t.-sm,r : p.-cl, r : 9
9	4·8	16·4	Calm	Calm : SW	0·5	0·01	112	9 : 9 : 8, cu, cu.-s	7, cu, n : 9 : 10, slt.-r, l, t
10	14·1	16·5	SW : SE	ESE : E : ENE	4·8	0·37	307	10 : p.-cl : 6, ci, cu.-cu.-s	4, cu, w : th.-cl : th.-cl
11	9·5	16·5	ENE : NE	NE : NNE	4·3	0·35	353	th.-cl : li.-cl : p.-cl, cu, li.-cl, so.-ha, w	p.-cl, ci.-s, cu, so.-ha, w : 10, shs.-r : 10, oc.-slt.-r
12	6·7	16·5	NE	NE : NNE : N	0·9	0·02	178	10, f : 10 : 10, s, n	4, cu. s, h : 2, ci.-cu,cu : p.-cl
13	8·5	16·5	NNE : NE	ENE : NE	5·2	0·45	404	10 : 10 : 8, cu, s, n	6, cu, w : 5, w : p.-cl
14	5·3	16·5	NE	NE : Calm	2·1	0·13	253	p.-cl : p.-cl : 7, cu.-s, n	9, n,t.-sm, hy.-sh,hl: p.-cl, l, t, r : th.-cl
15	14·2	16·5	NE : NNE	NE : NNE	2·3	0·23	358	p.-cl : p.-cl : 2, cu, cu.-s	4, cu. cu.-s : 0
16	4·8	16·5	NNE : NE	NNE : NE	0·9	0·05	229	9 : 10 : 9, cu.-s	10, s, n : p.-cl, ci.-s, ci.-cu : p.-cl
17	11·9	16·5	Calm : ENE	E : Calm	0·6	0·01	123	p.-cl : p.-cl,h,slt.-f, d: 1, so.-ha	1, cu.-s : th.-cl : 1, th.-cl
18	12·2	16·6	Calm : Var.	S : ESE : Calm	0·5	0·01	112	0, hy.-d : 0 : 1, li.-cl	3, cu, li.-cl, so.-ha: 3, li.-cl : li.-cl
19	10·2	16·6	S : Calm : SW	SW : Var.	2·6	0·01	157	li.-cl : 0	p.-cl, cu, cu.-s, so.-ha : p.-cl, cu,n,l, t,sh.-r: 1, h, t
20	8·2	16·6	SSW : SW	WSW : SW	0·7	0·03	225	1, h, m, t : 10 : 8, cu.-s,s,h	2, cu. cu.-s : 1, cu : 1
21	6·0	16·6	SW : Calm	SW : WSW	1·6	0·05	209	p.-cl. r : 9, oc.-slt.-r: 10, oc.-slt.-r	7 : 3 : th.-cl
22	11·7	16·6	SW : WSW	SW : WSW	2·2	0·10	283	p.-cl, slt.-sh : p.-cl : 8, ci.-s, cu, cu.-s	7, cu, cu.-s : p.-cl, cu.-s, n : p.-cl, r
23	6·3	16·6	SW : WSW	WSW : NW : NNW	3·8	0·15	326	9, r : 10, fq.-r : 10,n,hy.-shs	10, n. oc.-r : p.-cl : 1, th.-cl
24	12·0	16·6	WSW : W : WNW	WNW : W : WSW	3·4	0·07	264	1 : 1 : 7, cu.-s	8, cu. s, n : p.-cl : 3
25	8·9	16·6	WSW : W	W : N : NNE	1·5	0·05	277	2 : 10, m.-r : 8, cu.-s	7, cu, cu.-s : 1, cu : 0
26	13·4	16·6	NE : Calm : SE	ENE : E : Calm	1·8	0·08	190	p.-cl : 0 : 1, cu	1, cu, th.-cl : 0
27	12·7	16·5	Calm	W : N : NNE	0·4	0·01	127	0, slt.-h : 0 : 1, cu, h	3, cu, cu.-s : p.-cl : th.-cl
28	12·7	16·5	NNE : NE	N : NW : W	0·1	0·00	153	1 : 3, ci,ci.-s,h	4, th.-cl, h : 5, th.-cl : p.-cl
29	10·0	16·5	W : WSW : NNE	NNE : SE : S	0·1	0·00	144	th.-cl : 1 : p.-cl, cu, cu.-s, h	9, cu.-s, s, n : 6 : 1
30	15·2	16·5	SSW : SW	SW : SSW	0·6	0·04	236	0, d : 0	0 : 0
Means	8·9	16·5	..	..	..	0·95	227		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 54°·2, being 0°·7 *lower* than

The mean *Temperature of the Dew Point* for the month was 49°·8, being 1°·1 *lower* than

The mean *Degree of Humidity* for the month was 71·9, being 1·7 *less* than

The mean *Elastic Force of Vapour* for the month was 0$^{in.}$358, being 0$^{in.}$015 *less* than

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4$^{grs.}$0, being 0$^{gr.}$2 less than

The mean *Weight of a Cubic Foot of Air* for the month was 532 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 5·1.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·539. The maximum daily amount of *Sunshine* was 15·2 hours on June 30.

The highest reading of the *Solar Radiation Thermometer* was 152°·1 on June 30; and the lowest reading of the *Terrestial Radiation Thermometer* was 30°·9 on June 8.

The *Proportions of Wind* referred to the cardinal points were N. 10, E. 5, S. 4, W. 6. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 5·2 lbs. on the square foot on June 13. The mean daily *Horizontal Movement of the Air* for the month was 227 miles; the greatest daily value was 404 miles on June 13; and the least daily value was 112 miles on June 9 and 18.

Rain (0$^{in.}$005 or over) fell on 9 days in the month, amounting to 1$^{in.}$338, as measured by gauge No. 6 partly sunk below the ground; being 0$^{in.}$700 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32°)	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
July 1	..	29·688	92·1	58·1	34·0	75·0	+13·5	65·4	58·5	16·5	33·4	3·6	56	156·1	48·1	60·69	0·007	wP : wP : vP, ssN
2	..	29·499	79·9	61·1	18·8	67·7	+ 6·1	63·2	59·7	8·0	15·2	4·8	75	137·8	53·3	61·25	0·001	wP
3	Perigee	29·639	76·1	54·0	22·1	58·9	− 2·9	57·0	55·3	3·6	15·1	1·7	88	149·1	53·3	61·73	0·083	wP, mN : wP, wN : wP
4	..	29·857	76·8	48·2	28·6	62·5	+ 0·4	54·4	47·5	15·0	27·5	6·5	58	143·5	35·4	61·94	0·000	wP
5	..	29·662	70·9	45·2	25·7	57·8	− 4·5	53·6	49·8	8·0	15·5	1·9	75	119·7	32·9	61·77	0·091	wP
6	Greatest Dec. S.	29·581	70·0	51·8	18·2	57·7	− 4·7	54·3	51·2	6·5	15·3	0·4	79	131·0	44·9	61·60	0·406	wP, wwN : wP, ssN : wP
7	Full	29·785	72·7	49·5	23·2	58·8	− 3 6	54·3	50·3	8·5	19·9	1·0	74	142·2	42·4	61·47	0·003	wP : wP, ssN : wP
8	..	29·838	73·1	51·9	21·2	61·5	− 0·9	58·5	56·0	5·5	12·8	1·9	82	128·8	45·3	61·22	0·142	wP : wP, wN : wP
9	..	29·987	75·9	55·7	20·2	64·2	+ 1·8	58·2	53·2	11·0	20·6	0·8	67	141·1	44·3	61·20	0·000	wP
10	..	30·003	78·4	51·6	26·8	64·8	+ 2·3	59·3	54·8	10·0	21·6	1·2	71	146·8	40·4	61·32	0·000	wP
11	..	29·915	81·8	57·2	24·6	67·9	+ 5·2	62·8	58·8	9·1	19·0	0·9	72	143·3	49·2	61·54	0·000	wP
12	..	29·870	78·1	58·2	19·9	66·1	+ 3·2	63·0	60·5	5·6	15·3	1·6	82	133·8	49·1	61·84	0·032	wP : vP, vN : wP
13	In Equator	29·906	81·5	58·3	23·2	68·2	+ 5·1	62·5	58·0	10·2	22·1	1·1	70	145·2	50·6	62·27	0·000	wP
14	..	29·837	83·8	56·1	27·7	68·1	+ 4·8	61·6	56·5	11·6	26·0	1·9	66	156·8	47·4	62·61	0·000	wP
15	Last Quarter : Apogee	29·717	72·8	57·2	15·6	62·9	− 0·5	58·1	54·1	8·8	16·4	1·5	73	117·7	53·9	62·79	0·285	vP, ssN : wP : vP, ssN
16	..	29·776	72·3	53·1	19·2	62·0	− 1·4	56·7	52·1	9·9	18·1	0·6	71	140·9	47·8	63·03	0·011	wP : wP, wN : wP
17	..	29·837	78·2	55·0	23·2	64·1	+ 0·7	58·3	53·4	10·7	19·2	3·5	69	149·9	48·1	63·02	0·000	wP
18	..	29·820	80·0	53·0	27·0	65·5	+ 2·2	59·9	55·3	10·2	20·2	0·8	71	152·0	42·1	62·99	0·000	wP
19	..	29·577	77·2	60·2	17·0	66·7	+ 3·5	62·0	58·2	8·5	15·8	2·8	74	145·2	56·0	63·12	0·024	wP : wwP : ssN, wP
20	Greatest Dec. N.	29·422	78·0	61·2	16·8	67·0	+ 3·8	62·4	58·7	8·3	14·3	2·2	75	140·1	56·8	63·31	0·036	wwP, sN : wwP : wP
21	..	29·568	76·1	58·4	17·7	66·0	+ 2·8	60·8	56·6	9·4	16·8	2·1	72	113·2	51·8	63·45	0·000	wP
22	..	29·518	74·9	54·9	20·0	60·6	− 2·5	57·3	54·4	6·2	13·8	1·3	81	127·2	46·0	63·57	0·159	wP : wP, sN : vP, vN
23	New	29·516	66·4	51·1	15·3	57·8	− 5·2	53·4	49·5	8·3	15·7	0·8	73	109·4	45·2	63·42	0·015	wP
24	..	29·496	66·9	54·0	12·9	59·5	− 3·4	55·0	51·0	8·5	14·9	0·8	73	113·4	47·8	63·09	0·065	wP
25	..	29·457	67·0	52·4	14·6	57·3	− 5·4	51·3	45·9	11·4	20·2	2·6	66	132·2	47·1	62·74	0·013	wP : mP, wN : mP
26	..	29·445	65·0	50·8	14·2	55·1	− 7·4	49·7	44·5	10·6	18·4	4·5	69	123·9	45·9	62·32	0·005	wP : wP, sN : vN, wP
27	In Equator	29·427	66·2	50·1	16·1	56·3	− 6·1	51·7	47·4	8·9	15·9	1·9	72	119·0	45·7	62·02	0·016	wP : mP : mP
28	Perigee	29·546	69·1	55·2	13·9	61·0	− 1·3	55·0	49·8	11·2	18·1	4·7	67	120·9	45·9	61·79	0·000	wP : wP : mP
29	First Quarter	29·729	63·1	48·6	14·5	56·5	− 5·8	52·9	49·6	6·9	11·9	1·6	77	91·8	38·7	61·60	0·000	wP
30	..	29·862	71·3	49·8	21·5	58·3	− 4·0	52·9	48·1	10·2	19·9	1·9	70	135·6	40·1	60·62	0·000	wP
31	..	29·854	72·7	48·1	24·6	60·5	− 1·7	55·5	51·2	9·3	17·3	1·2	71	121·6	40·1	61·59	0·015	wP
Means	..	29·698	74·5	53·9	20·6	62·5	− 0·2	57·5	53·2	9·2	18·3	2·1	72·2	133·2	46·3	62·16	Sum 1·409	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29^{in}·698, being 0^{in}·101 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 92°·1 on July 1 ; the lowest in the month was 45°·2 on July 5 ; and the range was 46°·9.
The mean of all the highest daily readings in the month was 74°·5, 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 53°·9, being 0°·6 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 20°·6, being 0°·3 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 62°·5, being 0°·2 *lower* than the average for the 65 years 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBIN-SON'S	CLOUDS AND WEATHER.	
			OSLER'S.						
			General Direction.		Pressure on the Square Foot.		Horizontal Move-ment of the Air.		
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
July 1	11·2	16·5	Calm : NE : Var.	SSW : S	2·3	0·10	188	o : p.-cl : 3, ci.-s,ci.-cu, cu	5,cu,cu.-s,n : p.-cl,cu.-s,s,n : 9, l, sh.-r
2	1·0	16·5	Calm : S : SW	SW	1·4	0·12	240	9 : 10 : 9, s, n	9, cu, cu.-s : 8, cu, cu.-s : 9, r
3	1·9	16·5	SW : Calm : Var.	NNW : NW : N	3·3	0·22	260	10, oc.-r : 9, oc.-r : 10,sc,n,glm	10, sc, n, oc.-slt.-r: 10, slt.-r : 10
4	12·3	16·4	NNW : WNW : W	WSW : SW	1·3	0·05	224	10 : p.-cl : 3, cu	2, cu : o : o
5	2·0	16·4	Calm : SSW : SW	SW : WSW : Calm	0·6	0·02	157	p.-cl : p.-cl : 10, oc.-slt.-r	10, oc.-slt.-r : 10, c.-r
6	4·9	16·4	Calm : WNW : NW	WSW : SW : SSW	2·9	0·14	271	10, r : 10, r : 10, s, n, oc.-slt.-r	9, cu.-s, n, fq.-r: p.-cl : 1
7	11·0	16·4	SSW : SW	SW : SSW	2·0	0·13	271	p.-cl : p.-cl : 8,cu,cu.-s,slt.-sh	8, cu, cu.-s : p.-cl : ci, ci.-s
8	4·0	16·4	Calm : SSE : S	SW : WSW	2·1	0·09	228	p.-cl,slt.-sh : 10, fq.-r : 10, s, n, r	8, cu.-s, s, n : p.-cl,cu,cu.-s : p.-cl
9	9·8	16·3	W : WSW	WSW : Calm : NE	0·7	0·05	190	9 : 9 : 5,cu,cu.-s,h,so.-ha	1, cu.-s, h, so.-ha: p.-cl, h : o
10	14·2	16·3	Calm : SSE : ESE	ESE : E	1·6	0·07	190	o : 1 : 4, cu, li.-cl	2, cu : o : o, m
11	8·6	16·3	E : ENE	E	1·2	0·09	215	p.-cl : 10 : 5, li.-cl	2, ci.-s,th.-cl,so.-ha: p.-cl : p.-cl
12	5·7	16·3	ENE : Calm : WNW	W : Calm : SW	2·2	0·02	158	10 : p.-cl : 8, cu, n	10, fq.-r : p.-cl : 9
13	8·2	16·2	WSW : W	WSW : SW : Calm	0·8	0·02	198	9 : 9 : 7, cu, th.-cl	4, cu, th.-cl : 5, ci.-s, ci.-cu, cu.-s: p.-cl
14	9·9	16·2	Calm : S : SSW	SSW : SW	1·9	0·13	224	p.-cl : p.-cl : 4, cu	8, cu, cu.-s : 8 : 9
15	0·9	16·2	W	NW : SW : W	2·1	0·05	231	10,slt.-r : 10, hy.-r : 10, oc.-shs	9, s, so.-ha : 10, r : 10, slt.-sh
16	5·4	16·1	W : WSW	W : NNW : WSW	2·5	0·09	264	9 : p.-cl : 8, cu, cu.-s	8, ci.-s, ci.-cu, cu, n: p.-cl : 9, slt.-sh
17	8·8	16·1	WSW : SW	SW : WSW : W	1·0	0·05	220	9 : 9 : 6, cu, n	6, cu : p.-cl : th.-cl
18	10·4	16·0	WSW	WSW : SW	1·6	0·12	264	1 : p.-cl : 7, cu, cu.-s	8, cu.-s, n : p.-cl : p.-cl
19	4·0	16·0	SW : S : SE	SSE : S : E	2·0	0·18	249	9 : 9 : p.-cl, cu, cu.-s, oc.-slt.-r	8 : 9, cu.-s, n, shs.-r, so.-ha : 9
20	1·6	16·0	E : ESE : SE	SSE : S : Calm	1·7	0·10	200	9 : 10, li.-shs : 9, s, n	9,cu, n,slt.-sh : 9 : 10
21	1·4	15·9	Calm : N	SSW	0·1	0·00	135	10 : 10 : 9, ci.-cu, cu.-s, s	9, s, n : p.-cl, s, n : li.-cl
22	4·6	15·9	Variable	N	2·2	0·11	255	1 : 1 : 5,ci.-s,cu.-s	10, s, n, sh.-r : 10, r : p.-cl
23	2·2	15·8	N : NW : W	W : WSW : W	4·0	0·34	375	9 : p.-cl : 10, cu, s, n	10, cu, s, n,w : 10,sc,n,sh.-r : 10,sh.-r
24	0·9	15·8	W : WNW	W	3·8	0·40	417	10, sh.-r : 9 : 9, cu, cu.-s	10, sc, n, w : p.-cl, sh.-r : p.-cl
25	8·2	15·7	WSW : W : WNW	WNW : NW : W	9·1	0·81	524	p.-cl : p.-cl, w : p.-cl,cu,n,fq.-r,w	8, cu, n, w : p.-cl,cu,n,w: p.-cl,sh.-r,sq
26	3·5	15·7	W : WNW	WNW : W	3·7	0·50	448	10, oc.-shs : p.-cl : 10, cu.-s, s, n	9, cu.-s, s : p.-cl, sh.-r : 8
27	3·1	15·6	WSW : W : WNW	NW : NNW	1·7	0·12	269	9 : p.-cl, r : 8, cu.-s	9, cu, cu.-s : 9 : 10
28	2·1	15·6	NNW : N : NNE	N : Calm	1·3	0·04	182	10 : 9 : 8,ci.-s,cu.-s,s	10, cu.-s, s, n : p.-cl,cu.-s,n: p.-cl
29	0·7	15·5	Calm : N : NNE	N : NNE : NE	0·9	0·06	182	10 : 9 : 10, cu, n	10, s, n : 10, s, n : p.-cl
30	12·5	15·5	N	N : NE : S	1·1	0·05	199	p.-cl : p.-cl : 5,cu,cu.-s	6, cu, cu.-s : p.-cl : th.-cl, h
31	4·0	15·4	SSW : S : SE	SSW : S : SE	0·8	0·03	188	th.-cl : th.-cl : 5,s,th.-cl,so.-ha	10,s,so.-ha : 10, s,n,slt.-r : 10, slt.-r
Means	5·88	16·1	..	..	..	0·14	246		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 57°·5, being 0°·4 *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 72·2, being 0·6 *less* than

The mean *Elastic Force of Vapour* for the month was 0in·406, being 0in·009 *less* than   } the average for the 65 years, 1841–1905.

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs·5, being 0gr·1 *less* than

The mean *Weight of a Cubic Foot of Air* for the month was 526 grains, being 1 grain *less* than

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·360.   The maximum daily amount of *Sunshine* was 14·2 hours on July 10.

The highest reading of the *Solar Radiation Thermometer* was 156°·8 on July 14; and the lowest reading of the *Terrestial Radiation Thermometer* was 32°·9 on July 5.

The *Proportions of Wind* referred to the cardinal points were N. 5, E. 3, S. 7, W. 13.   Three days were calm.

The *Greatest Pressure of the Wind* in the month was 9·1 lbs. on the square foot on July 25.   The mean daily *Horizontal Movement of the Air* for the month was 246 miles; the greatest daily value was 524 miles on July 25; and the least daily value was 135 miles on July 21.

Rain (0in·005 or over) fell on 17 days in the month, amounting to 1in·409 measured by gauge No. 6 partly sunk below the ground; being 0in·990 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air.					Of Evapo-ration.	Of the Dew Point.	Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation.		Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
			Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	De-duced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.			
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Aug. 1	..	29·624	81·6	59·2	22·4	68·1	+ 5·9	62·1	57·4	10·7	19·0	2·7	69	146·5	57·0	61·67	0·094	wP : wP : vP, ssN
2	Greatest Dec. S.	29·473	73·2	55·0	18·2	62·6	+ 0·5	60·0	57·8	4·8	12·3	0·4	84	134·2	51·0	61·72	0·339	vP, ssN : wP, vN : wN, wP
3	..	29·607	71·8	53·3	18·5	60·4	− 1·7	56·6	53·3	7·1	15·8	0·2	78	136·8	47·0	61·99	0·000	wP
4	..	29·559	71·3	50·7	20·6	59·0	− 3·1	55·4	52·2	6·8	14·4	0·4	78	130·8	41·1	61·93	0·096	wP : wP, wN : wP
5	..	29·519	68·6	51·6	17·0	58·1	− 4·0	56·7	55·4	2·7	5·9	0·0	90	125·7	45·1	61·83	0·375	wP : vP, ssN : wP, ssN
6	Full	29·654	70·9	50·1	20·8	58·2	− 4·0	55·6	53·2	5·0	14·8	0·0	84	135·1	44·8	61·78	0·014	wP
7	..	29·769	72·2	51·8	20·4	59·8	− 2·4	54·4	49·7	10·1	20·1	1·9	69	133·1	43·0	61·69	0·000	wP : wP : mP
8	..	29·876	67·2	46·3	20·9	58·4	− 3·9	56·4	54·6	3·8	6·2	1·8	87	94·4	39·2	61·50	0·056	. wP : wwP
9	In Equator	29·889	71·0	60·6	10·4	64·5	+ 2·2	62·0	59·9	4·6	9·1	1·3	85	100·9	54·6	61·30	0·006	wwP
10	..	29·978	73·3	56·5	16·8	64·2	+ 1·9	60·6	57·5	6·7	11·5	0·4	79	123·7	46·2	61·60	0·000	wwP : wwP : wP
11	..	30·130	75·5	48·8	26·7	62·1	− 0·3	55·9	50·5	11·6	23·0	1·0	67	113·2	41·2	61·72	0·000	wP
12	Apogee	30·127	74·7	49·4	25·3	62·3	− 0·2	56·5	51·5	10·8	24·9	0·8	69	139·1	39·9	61·82	0·000	wP
13	..	30·020	79·4	55·4	24·0	66·0	+ 3·5	60·2	55·5	10·5	24·0	0·2	69	140·4	49·0	61·88	0·000	wP
14	Last Quarter	29·872	78·8	57·4	21·4	65·8	+ 3·3	60·6	56·4	9·4	24·3	0·2	72	140·8	51·1	61·97	0·000	wwP : wP
15	..	29·762	68·0	56·4	11·6	60·8	− 1·6	58·5	56·6	4·2	10·7	0·9	86	96·0	51·4	62·10	0·013	wwP : wP, wN : wP
16	Greatest Dec. N.	29·779	75·9	55·0	20·9	64·2	+ 1·9	57·0	51·0	13·2	26·1	1·9	62	144·1	47·0	62·28	0·000	wP
17	..	29·913	74·4	54·0	20·4	61·6	− 0·5	55·6	50·4	11·2	23·9	1·8	68	142·4	43·0	62·25	0·000	wP : wP : mP
18	..	29·978	71·6	47·1	24·5	58·7	− 3·2	53·1	48·1	10·6	20·6	2·3	68	127·7	36·2	62·22	0·000	wP
19	..	29·945	70·9	51·1	19·8	59·2	− 2·5	55·0	51·2	8·0	18·3	2·9	75	120·4	42·0	62·16	0·000	wP
20	..	29·935	72·2	51·2	21·0	61·6	+ 0·1	56·3	51·7	9·9	18·9	2·9	71	124·1	39·1	62·15	0·000	wP, wwN : wP : wP
21	New	29·895	77·4	51·5	25·9	62·2	+ 0·9	57·1	52·7	9·5	20·9	1·2	72	128·6	42·6	62·12	0·000	wP : wP : vP, ssN
22	..	29·896	77·8	51·2	26·6	63·3	+ 2·2	58·1	53·8	9·5	22·3	0·6	72	139·2	41·5	62·12	0·010	wP
23	In Equator	29·876	79·2	58·3	20·9	65·5	+ 4·6	62·3	59·7	5·8	13·8	0·6	83	132·8	50·2	62·13	0·001	wwP
24	Perigee	29·799	83·7	56·0	27·7	68·0	+ 7·2	61·5	56·4	11·6	25·7	0·0	66	140·5	47·0	62·38	0·000	wwP : wwP : wP
25	..	29·762	81·3	55·3	26·0	65·7	+ 5·0	60·4	56·0	9·7	21·5	2·3	71	135·7	48·1	62·60	0·000	wP
26	..	29·581	65·8	55·2	10·6	60·0	− 0·7	58·0	56·2	3·8	8·0	1·9	88	93·1	48·9	62·61	0·140	wP
27	..	29·769	69·4	53·8	15·6	61·2	+ 0·6	57·6	54·4	6·8	14·6	1·2	79	119·2	47·0	62·60	0·030	wP, wN : wP : wP
28	First Quarter	30·073	76·2	54·6	21·6	63·1	+ 2·7	59·3	56·1	7·0	14·9	1·8	79	119·1	44·6	62·53	0·000	wP
29	Greatest Dec. S.	30·125	81·9	52·1	29·8	65·2	+ 4·9	59·3	54·4	10·8	23·2	1·4	69	127·7	44·6	62·60	0·000	wP
30	..	30·074	79·1	54·4	24·7	64·3	+ 4·2	61·0	58·3	6·0	17·7	0·2	80	125·2	45·3	62·41	0·000	wP
31	..	30·112	72·3	58·0	14·3	64·8	+ 4·9	61·4	58·6	6·2	12·9	1·3	80	111·1	49·8	62·39	0·000	wP
Means	..	29·851	74·4	53·6	20·8	62·5	+ 0·9	58·2	54·5	8·0	17·4	1·2	75·7	126·5	45·8	62·06	Sum 1·174	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in·851, being 0in·068 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·7 on August 24 ; the lowest in the month was 46°·3 on August 8 ; and the range was 37°·4.
The mean of all the highest daily readings in the month was 74°·4, 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 53°·6, being 0°·6 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 20°·8, being 1°·1 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 62°·5, being 0°·9 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	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	4·4	15·4	SE : SSW : SW	SW : SSE : S	3·2	0·30	284	10 : 10, slt.-sh : 7,cu.-s,s,n	p.-cl, cu.-s, s, so.-ha : 10, oc.-r : 10, r, hy-sh
2	5·2	15·3	SW : SSW	SW : WSW	6·1	0·34	327	10, hy.-sh : p.-cl : 9, sc, cu	8, ci, ci.-s, cu.-s, li.-shs, w : p.-cl, hy.-sh, hl : 1
3	8·8	15·3	SW	SW	3·8	0·29	319	p.-cl : li.-cl : 6, ci.-s, cu	7, ci.-s, cu, so.-ha : p.-cl, ci, ci.-s, cu : p.-cl
4	6·8	15·2	SW : WSW	WSW : SW : SSW	1·5	0·10	237	p.-cl : p.-cl : 8, cu, n, fq.-hy.-shs	8,cu,cu.-s,n : p.-cl : p.-cl
5	1·1	15·2	SW : SSE : S	WSW : W	2·2	0·06	210	9, slt.-sh : 10 : 9, shs.-r	10, s, n, fq.-shs,l, t : p.-cl, oc.-shs : p.-cl
6	3·5	15·1	W : WSW	W : WSW : SW	4·2	0·35	332	1 : p.-cl : p.-cl, s, n	10, s, n, r : 9, r : 9
7	4·7	15·1	WSW	W : NW : WSW	1·9	0·09	229	p.-cl : 9 : p-cl,'ci,ci-s,s,so-ha	8,ci,cu,cu.-s : p.-cl : 1
8	0·2	15·0	SW : SSW	SSW : SW	4·0	0·29	356	p.-cl, lu.-ha : 9 : 10, slt.-r	10, fq.-r : 10 : 10, oc.-slt.-r
9	0·7	15·0	SSW : SW	SW	3·3	0·38	386	10, slt.-r : 10	10 : p.-cl : p.-cl
10	3·2	14·9	SW : WSW	W : WNW	0·8	0·04	219	9 : 9 : 10, s, n	10, s, n : p.-cl : li.-cl, d
11	12·8	14·9	W : Calm : WSW	N : NE : SE	0·1	0·00	131	1, hy.-d : 1 : 0, h	0, h : 0, d
12	13·2	14·8	Calm : ENE : SE	ESE : E	2·5	0·20	235	0, m, hy.-d : 1, li.-cl : 0	0 : 0, hy.-d
13	10·9	14·7	E : ESE	ESE : E	3·2	0·23	249	p.-cl,li.-cl : 9, m : 1, ci, li.-cl	0 : 0, hy.-d
14	11·1	14·7	ENE : E	E	4·5	0·31	271	p.-cl, d : p.-cl : 1, ci.-s, cu	0 : 0 : p.-cl
15	0·0	14·6	Calm : E	E : ENE : NE	1·8	0·13	242	9 : 10 : 10, s, n	10, s, n, r : 10, r : p.-cl
16	10·9	14·6	NE : ENE : E	NE : ENE : NNE	4·3	0·39	368	9 : 9 : 5, cu, cu.-s	4, cu, w : p.-cl, cu : 0
17	6·9	14·5	NNE : N	N : NNE : NE	1·9	0·15	262	p.-cl : 9 : 6, ci.-s, cu	8, cu, cu.-s : p.-cl : 0
18	9·4	14·4	Calm : NE	NNE : NE : Calm	1·0	0·01	162	p.-cl : p.-cl : 3, ci, cu, cu.-s	5, cu, cu.-s : p.-cl : p.-cl
19	3·3	14·4	Calm	NE : ESE : Calm	1·7	0·00	111	th.-cl : 9, slt.-sh, : 8, cu, s, h	8, cu, s : p.-cl,cu,s,d : p.-cl, d
20	3·5	14·3	Calm	Calm : Var.	0·1	0·00	82	p.-cl, h : p.-cl, h : 7,cu,cu.-s,s,so.-ha	10, s, so.-ha : 10, s : 10
21	8·5	14·3	Calm : WSW	W : S : SW	0·5	0·02	212	p.-cl, m : p.-cl : 5,cu,th.-cl,so.-ha	5,cu, cu.-s,so.-ha : p.-cl : 0
22	9·9	14·2	Calm : WSW : W	W : SW	1·9	0·07	220	1 : 0 : 3, cu,.th.-cl	8, cu, s, so.-ha : 9,so.-ha,slt.-r : 10. oc.-r
23	3·6	14·1	SSW : SW	SW : SSW	1·7	0·12	259	9, slt.-sh : 10 : 10, s, n	8, cu, cu.-s : 3 : 1
24	5·7	14·1	Calm : S : SSW	S : Calm	1·7	0·06	180	1 : 1 : 8, ci, cu, s	p.-cl, cu, cu.-s : p.-cl,slt.-sh : p.-cl
25	8·0	14·0	Calm : Var.	W : WSW : SW	1·6	0·05	199	p.-cl : 10 : 8, cu, n	6, cu, h : 2, d : p.-cl
26	0·0	13·9	SSW : S	SSW : SW : W	1·7	0·10	267	9 : 10, r : 10, sc, n, r	10, sc, n,oc.-slt.-r : 9, cu, s, n : 9
27	2·4	13·9	W : NNW	N	2·3	0·07	226	9 : 9, slt.-sh : 8, cu, cu.-s	9, cu, s, n, slt.-r : 10 : 9
28	4·3	13·8	N	Calm : SSE	0·0	0·00	118	p.-cl : 9 : 6, cu, cu.-s, s, h	7, cu,cu.-s,n: 9 : th.-cl
29	11·3	13·8	Calm	W : Calm	0·0	0·00	126	1, m : 0, h, m : 0, h	0 : 0, hy.-d
30	9·2	13·7	WSW : Calm : W	W : N : Calm	0·2	0·00	156	p.-cl : 10, slt.-m : 5, s, slt.-m	0 : 0
31	0·7	13·6	NE : Calm	NE : E	0·1	0·00	152	p.-cl, m : p.-cl, m : 9, s, n	10, s, n : 9, s, n : 8
Means	5·9	14·5	..	..	..	0·13	230		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 58°·2, being 0°·7 *higher* than

The mean *Temperature of the Dew Point* for the month was 54°·5, being 0°·5 *higher* than

The mean *Degree of Humidity* for the month was 75·7, being 0·6 *less* than

The mean *Elastic Force of Vapour* for the month was 0^{in}·425, being 0^{in}·007 *greater* than

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4^{grs}·7, being 0^{gr}·1 *greater* than

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 5·9.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·409. The maximum daily amount of *Sunshine* was 13·2 hours on August 12.

The highest reading of the *Solar Radiation Thermometer* was 146°·5 on August 1 ; and the lowest reading of the *Terrestial Radiation Thermometer* was 36°·2 on August 18.

The *Proportions of Wind* referred to the cardinal points were N. 3, E. 5, S. 7, W. 10. Six days were calm.

The *Greatest Pressure of the Wind* in the month was 6·1 lbs. on the square foot on August 2. The mean daily *Horizontal Movement of the Air* for the month was 230 miles; the greatest daily value was 386 miles on August 9 ; and the least daily value was 82 miles on August 20.

Rain (0^{in}·005 or over) fell on 11 days in the month, amounting to 1^{in}·174, as measured by gauge No. 6 partly sunk below the ground ; being 1^{in}·170 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Sept. 1	..	30·177	74·2	53·6	20·6	64·8	+ 5·0	59·3	54·8	10·0	25·6	2·8	71	133·3	43·8	62·50	0·000	wwP : wP : wP
2	..	30·121	75·9	49·1	26·8	62·1	+ 2·4	57·1	52·8	9·3	21·7	0·8	72	129·2	38·0	62·62	0·000	wP
3	..	30·013	82·0	45·9	36·1	62·6	+ 3·0	58·2	54·5	8·1	23·2	0·2	75	134·9	39·0	62·58	0·000	wP
4	Full	29·922	75·0	50·4	24·6	61·8	+ 2·3	57·7	54·2	7·6	18·1	1·2	77	137·7	40·3	62·51	0·000	wP
5	In Equator	29·962	70·0	52·5	17·5	61·5	+ 2·1	56·0	51·3	10·2	18·8	5·1	69	138·2	41·6	62·38	0·000	wP
6	..	29·998	75·9	47·0	28·9	60·7	+ 1·5	55·0	50·0	10·7	26·6	1·4	67	153·1	35·9	62·40	0·000	wP
7	..	29·878	80·6	48·3	32·3	63·4	+ 4·4	59·5	56·3	7·1	19·9	1·0	78	130·7	39·8	62·31	0·000	wP
8	..	29·696	80·9	55·1	25·8	67·0	+ 8·2	61·8	57·6	9·4	19·7	1·3	72	151·1	43·1	62·32	0·000	wP
9	Apogee	29·675	81·0	53·9	27·1	64·4	+ 5·8	58·6	53·8	10·6	21·8	1·7	69	140·1	41·6	62·43	0·074	wP : wP : vP, vN
10	..	29·728	74·6	58·6	16·0	64·6	+ 6·2	60·7	57·5	7·1	16·0	2·3	78	123·9	47·9	62·49	0·000	wP
11	..	29·594	66·2	51·6	14·6	58·7	+ 0·6	55·3	52·3	6·4	15·4	2·1	79	99·1	44·5	62·42	0·251	wP : vN. vP : mP
12	Last Quarter	29·601	62·0	48·5	13·5	54·2	− 3·8	50·9	47·7	6·5	15·3	0·0	78	108·6	42·2	62·44	0·149	wP : wP, vN : wP
13	Greatest Dec. N.	29·590	65·6	49·3	16·3	55·7	− 2·1	50·5	45·6	10·1	17·2	1·2	69	115·6	43·6	62·01	0·000	wP
14	..	29·461	72·5	53·6	18·9	61·6	+ 3·9	57·4	53·8	7·8	14·9	0·6	76	120·7	47·2	61·67	0·104	wwP : wP
15	..	29·699	66·1	48·8	17·3	56·0	− 1·6	50·3	45·0	11·0	19·5	3·0	67	120·1	41·7	61·35	0·000	wP
16	..	29·765	68·5	48·6	19·9	56·8	− 0·7	52·3	48·2	8·6	18·8	2·1	73	125·0	41·8	61·12	0·000	wP
17	..	29·482	71·1	54·0	17·1	58·4	+ 1·2	54·2	50·4	8·0	20·6	2·0	75	116·3	47·1	60·80	0·038	wP
18	..	29·617	63·5	52·0	11·5	55·8	− 1·1	49·9	44·4	11·4	19·1	5·1	67	110·4	46·0	60·62	0·000	wP : mP : mP
19	In Equator : New	29·695	60·2	47·6	12·6	52·8	− 3·7	47·2	41·6	11·2	16·4	4·4	66	107·9	39·1	60·39	0·000	wP : mP : mP
20	..	29·836	55·7	45·3	10·4	49·2	− 7·0	45·7	42·0	7·2	10·1	2·6	76	106·3	38·0	60·02	0·116	wP, vN : ssP, ssN : mP
21	Perigee	30·107	59·6	44·2	15·4	50·7	− 5·2	45·7	40·6	10·1	18·8	3·9	68	118·4	37·1	59·69	0·000	wP : mP : mP
22	..	30·184	61·5	37·0	24·5	48·8	− 6·8	44·7	40·3	8·5	17·7	1·4	72	107·6	28·5	59·18	0·000	wP : vP : vP
23	..	30·216	67·1	35·3	31·8	50·1	− 5·3	46·6	42·9	7·2	17·9	0·7	77	124·0	27·4	58·72	0·000	wP
24	..	30·184	70·0	41·7	28·3	53·0	− 2·3	49·5	46·0	7·0	20·5	0·0	77	120·4	29·2	58·40	0·000	wP
25	..	30·080	69·7	41·6	28·1	54·1	− 1·1	49·3	44·6	9·5	23·2	0·0	70	118·0	29·8	58·10	0·000	wP
26	Greatest Dec. S : First Quarter	30·063	73·9	40·1	33·8	56·4	+ 1·2	51·2	46·4	10·0	21·5	0·4	69	120·6	30·5	57·96	0·000	wP
27	..	30·167	66·4	50·2	16·2	57·0	+ 1·9	52·2	47·8	9·2	16·3	3·5	71	100·6	42·0	57·76	0·000	wP
28	..	29·951	63·7	49·3	14·4	56·2	+ 1·3	52·3	48·6	7·6	11·2	1·9	76	91·7	43·2	57·71	0·000	wwP : wP : wP
29	..	30·147	59·0	42·4	16·6	50·9	− 3·8	45·6	40·2	10·7	17·8	4·5	67	106·0	30·8	57·62	0·000	wP : mP : mP
30	..	30·226	55·8	33·8	22·0	45·5	− 8·9	42·6	39·2	6·3	11·9	0·7	79	75·5	23·9	57·49	0·000	wP : vP : wP
Means	..	29·894	68·9	47·6	21·3	57·2	− 0·1	52·6	48·3	8·8	18·5	1·9	72·7	119·5	38·8	60·67	Sum 0·732	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-Bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29ⁱⁿ·894, being 0ⁱⁿ·083 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 82°·0 on September 3 ; the lowest in the month was 33°·8 on September 30 ; and the range was 48°·2.
The mean of all the highest daily readings in the month was 68°·9, being 1°·6 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 47°·6, being 1°·5 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 21°·3, being 3°·1 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 57°·2, being 0°·1 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND — 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.		
Sept. 1	9·9	13·6	NE : E : ESE	E : ESE	1·9	0·14	242	9 : 9 : 1, cu	o : o, d
2	11·2	13·5	Calm : SE	ESE : Calm	0·8	0·03	134	1 : 1, m : o	o : o, hy.-d
3	7·3	13·4	Calm : ENE	Calm : SE	0·1	0·00	89	o, f : f : o, slt.-m	o : o
4	10·0	13·4	Calm : ENE : E	ESE : E : ENE	2·9	0·22	257	o : o, slt.-m : 2, cu	2, ci.-s, cu : ci.-s, d : p.-cl,ci.-s,lu.-ha,d
5	4·4	13·3	ENE : E	E : ENE	2·5	0·29	315	9 : 10 : 10, n	5, cu, cu.-s : 1, th.-cl : 1
6	11·1	13·2	ENE : Calm : ESE	E	2·0	0·09	201	1 : 1 : 4, ci.-s	4, ci.-s : o : o, hy.-d
7	7·0	13·2	Calm : ENE	ESE : E	1·2	0·03	140	o : m : 1, m	2, ci.-s : th.-cl : p.-cl
8	7·3	13·1	E : SSW	SSW : S : Calm	0·9	0·04	177	th.-cl, lu.-ha : p.-cl : 8, ci, ci.-s, cu	6, ci, ci.-s, ci.-cu, so.-ha : 2, ci, ci.-cu : p.-cl
9	6·7	13·1	Calm : S	SSW : SE	1·8	0·05	143	p.-cl : 9 : 7, ci, cu	4, ci, ci.-s, ci.-cu : 9, sh.-r : 9, sh.-r
10	6·6	13·0	ESE : SE : SSE	S : SSW	0·7	0·03	183	p.-cl : p.-cl : 9,cu,cu.-s,n	8, cu, cu.-s : p.-cl : 9
11	2·0	12·9	SW	W : WNW	4·9	0·39	386	9, slt.-r : 10 : 10, n,fq.-r,w	9,cu,cu.-s,w : p.-cl, w : 1
12	3·4	12·9	WSW : W	SW : Var.	3·4	0·28	347	p.-cl : p.-cl : 9, cu.-s, w	10, r : 10, r
13	7·3	12·8	WNW : W	W : WSW : SW	4·8	0·73	471	p.-cl, slt.-sh : p.-cl, w : 7,cu, cu.-s, w	p.-cl, w : 9
14	5·1	12·7	SW : WSW	WSW	10·7	1·10	569	9, oc.-r : 10, fq.-r : 9, slt.-sh,w	8, cu, w : 5, st.-w : p.-cl, oc.-slt.-r, w
15	10·0	12·7	WSW	SW	3·8	0·27	374	p.-cl, w : p.-cl : 6,ci,cu,so.-ha	5, ci, cu : p.-cl : p.-cl
16	6·3	12·6	WSW	WSW : SW	4·0	0·20	343	p.-cl : p.-cl : 5,ci.-s,cu,s,so.-ha	9, cu, n : p.-cl : p.-cl
17	4·6	12·5	SW	SW : WNW : W	13·5	1·10	586	p.-cl : 10, sc, s, r, w	7, cu, s, sc, st.-w : p.-cl, st.-w : p.-cl, w
18	4·5	12·5	W : NW	NW : WNW	4·9	0·65	464	9 : p.-cl : 8, ci.-s, cu, so.-ha,w	9, cu, s, n, so.-ha : 10 : 10
19	5·1	12·4	NNW : N	N : NW : W	3·9	0·49	395	9 : 9 : 5, cu, w	9, cu.-s, n : p.-cl : p.-cl
20	2·8	12·4	W : NW : NNE	NNE : N	3·9	0·35	353	9, fq.-r : p.-cl : 10, n, fq.-r	9, ci.-s, cu.-s, n, fq.-r, hl, so.-ha : p.-cl : 1
21	8·9	12·3	N	N : NNE	2·9	0·23	286	p.-cl : p.-cl : 5, cu, th.-cl	5, cu, cu.-s : p.-cl : 9
22	8·1	12·2	N : Calm : NE	Calm	0·1	0·00	100	p.-cl : 1 : 1, cu, th.-cl, h	1,cu,th.-cl,h: th.-cl, m : o, m, d
23	6·6	12·1	Calm : SSE	S : Calm	0·5	0·00	103	o, m : o, m : 2, cu	p.-cl, cu, cu.-s : p.-cl : o, hy.-d
24	7·8	12·1	Calm : ENE	ESE : SE	1·2	0·03	144	o, m, f : tk.-f : 1, cu, slt.-f	1, cu : o : o, d
25	9·5	12·0	Calm : SSE	SSE : S : Calm	0·8	0·03	131	o,m,tk.-f : f : 1,ci,th.-cl	1, ci, ci.-s : o : o, d
26	7·2	12·0	Calm : W	WSW : NNW : N	1·0	0·07	206	o, m : o, f : 2, ci	6, ci, ci.-s : 10, s : p.-cl
27	10·0	11·9	N : NNW	NW : W : WSW	0·5	0·02	212	p.-cl : p.-cl : 4,ci,th.-cl,h	2, ci : 1, ci : 1, d
28	0·4	11·8	WSW : W : WNW	W : NNW : N	3·8	0·55	413	1 : p.-cl : 9, cu.-s, s	10, s, n : 9, s, n : th.-cl
29	9·6	11·8	N : NNE	NNE : NE : Calm	2·2	0·20	249	p.-cl : 1, cu	1, cu : o, d
30	2·9	11·7	Calm	Calm : SW	0·2	0·00	92	o, m, h, ho.-fr : o, m : 3, th.-cl	5, th.-cl, slt.-f : 3, th.-cl, slt.-f : o
Means	6·8	12·6	..	..	..	0·25	270		
Number of Column for Reference.	19	20	21	22	23	24	25	26 .	27

The mean *Temperature of Evaporation* for the month was 52°·6, being 1°·5 *lower* than
The mean *Temperature of the Dew Point* for the month was 48°·3, being 2°·9 *lower* than
The mean *Degree of Humidity* for the month was 72·7, being 7·5 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·339, being 0in·038 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·8, being 0gr·4 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 535 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 o and an overcast sky by 10) was 4·6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·537. The maximum daily amount of *Sunshine* was 11·1 hours on September 6.

The highest reading of the *Solar Radiation Thermometer* was 153°·1 on September 6 ; and the lowest reading of the *Terrestial Radiation Thermometer* was 23°·9 on September 30.

The *Proportions of Wind* referred to the cardinal points were N. 5, E. 6, S. 5, W. 8. Six days were calm.

The *Greatest Pressure of the Wind* in the month was 13·5 lbs. on the square foot on September 17. The mean daily *Horizontal Movement of the Air* for the month was 270 miles ; the greatest daily value was 586 miles on September 17 ; and the least daily value was 89 miles on September 3.

Rain (0in·005 or over) fell on 6 days in the month, amounting to 0in·732, as measured by gauge No. 6 partly sunk below the ground : being 1in·416 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation = 100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	
Oct. 1	..	30·062	68·3	39·9	28·4	53·3	− 0·8	48·7	44·1	9·2	17·8	0·0	71	115·6	28·7	57·22	0·000	wP : wP : vP
2	..	30·091	59·8	48·0	11·8	53·9	+ 0·2	51·9	50·0	3·9	6·7	0·0	87	71·6	38·0	56·79	0·000	wP
3	In Equator	30·081	68·6	50·7	17·9	58·2	+ 4·9	55·0	52·1	6·1	14·4	0·4	80	114·2	42·5	56·78	0·000	wwP : wP : wP
4	Full	30·158	61·9	47·7	14·2	55·2	+ 2·2	50·5	46·0	9·2	16·4	1·8	72	93·6	38·2	56·74	0·000	wP
5	..	30·178	63·0	41·0	22·0	51·8	− 1·0	48·6	45·4	6·4	12·8	0·0	79	103·8	31·7	56·88	0·000	wP
6	Apogee	30·082	59·6	50·3	9·3	54·4	+ 1·9	51·2	48·1	6·3	10·7	2·6	79	85·5	43·4	56·80	0·000	wP
7	..	30·154	62·0	40·8	21·2	51·4	− 0·9	46·3	41·0	10·4	17·6	3·5	68	120·5	31·0	56·79	0·000	wP
8	..	30·140	63·4	36·0	27·4	48·8	− 3·2	45·1	41·1	7·7	16·7	0·5	75	96·4	25·7	56·30	0·000	wP : wP : vP
9	..	30·060	63·1	43·0	20·1	52·4	+ 0·8	48·9	45·3	7·1	14·7	1·3	77	96·1	33·5	56·52	0·000	wP : mP : wP
10	Greatest Dec. N.	29·989	60·4	50·2	10·2	54·5	+ 3·2	51·5	48·6	5·9	8·7	1·6	80	95·2	42·6	56·30	0·000	wP
11	..	29·941	59·1	39·0	20·1	50·5	− 0·4	48·0	45·4	5·1	10·6	0·5	83	95·7	27·0	56·20	0·000	wP : wP : vP
12	Last Quarter	29·795	61·0	35·2	25·8	46·5	− 4·1	44·3	41·8	4·7	14·9	0·0	85	96·5	25·1	56·10	0·000	wP, wwN : wP : wP
13	..	29·557	54·0	40·2	13·8	48·8	− 1·5	47·6	46·3	2·5	6·8	0·2	92	79·1	27·9	55·97	0·043	wP, wwN : wP : wP
14	..	29·664	52·9	49·4	3·5	51·4	+ 1·3	50·8	50·2	1·2	3·3	0·0	96	56·2	45·0	55·72	0·078	wP : wP, wN : wP
15	..	29·871	60·6	50·2	10·4	54·3	+ 4·4	53·3	52·3	2·0	6·2	0·0	93	93·8	44·9	55·62	0·068	wP
16	..	29·972	60·2	51·4	8·8	54·1	+ 4·3	52·0	49·9	4·2	9·5	0·0	85	87·3	47·2	55·60	0·000	wP
17	In Equator	30·007	56·1	49·6	6·5	52·4	+ 2·8	49·3	46·2	6·2	11·1	3·7	80	79·9	43·0	55·53	0·000	wP
18	..	30·022	57·8	46·3	11·5	51·5	+ 2·2	48·2	44·8	6·7	13·5	3·5	78	87·3	35·2	55·59	0·000	wP : wP : mP
19	New : Perigee	30·096	58·3	44·4	13·9	50·5	+ 1·4	47·3	43·9	6·6	13·5	1·1	79	90·0	36·2	55·47	0·000	wP : wP : mP
20	..	30·020	55·6	47·0	8·6	50·7	+ 1·9	49·1	47·4	3·3	9·9	2·5	89	71·3	39·2	55·30	0·001	wP
21	..	29·755	57·9	42·2	15·7	48·3	− 0·3	47·1	45·8	2·5	8·9	0·2	92	89·0	30·4	55·14	0·000	wP
22	..	29·539	58·9	42·2	16·7	50·7	+ 2·4	49·0	47·2	3·5	9·6	0·6	88	94·5	30·4	55·07	0·014	wP : wP, wN
23	Greatest Dec. S.	29·582	58·1	48·2	9·9	53·6	+ 5·5	51·6	49·7	3·9	8·1	2·0	87	75·9	42·9	54·90	0·006	wP
24	..	29·659	62·7	48·4	14·3	53·9	+ 6·0	53·1	52·3	1·6	7·7	0·0	94	95·0	40·1	54·89	0·114	wP
25	First Quarter	29·687	62·1	52·9	9·2	56·0	+ 8·3	54·8	53·7	2·3	6·2	0·0	92	81·0	43·6	54·90	0·277	wP : wwP : wwP, wwN
26	..	29·690	61·0	46·4	14·6	54·0	+ 6·1	50·1	46·3	7·7	16·3	2·3	75	94·8	37·3	55·01	0·000	wP
27	..	29·592	57·1	42·7	14·4	49·1	+ 1·6	46·2	43·1	6·0	14·7	0·9	80	86·6	32·1	55·02	0·050	wP : wP : mP
28	..	29·424	54·1	34·7	19·4	44·1	− 3·3	42·0	39·5	4·6	12·1	0·0	83	84·5	26·5	54·79	0·000	wP
29	..	29·276	55·0	40·1	14·9	46·2	− 1·1	44·7	43·0	3·2	10·0	0·0	90	102·3	28·9	54·33	0·045	wP : wP, vN
30	In Equator	29·238	54·2	44·1	10·1	49·2	+ 2·0	48·1	46·9	2·3	7·3	0·2	92	87·9	38·5	54·00	0·258	wN, wP : wP : wwP
31	..	29·194	53·3	44·1	9·2	49·4	+ 2·3	48·0	46·5	2·9	8·4	0·8	90	81·1	38·6	53·70	0·003	wwP : wP : wP
Means	..	29·825	59·4	44·7	14·6	51·6	+ 1·6	49·1	46·6	5·0	11·1	1·0	83·6	90·4	36·0	55·68	Sum 0·957	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29$^{in.}$825, being 0$^{in.}$104 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 68°·6 on October 3 ; the lowest in the month was 34°·7 on October 28 ; and the range was 33°·9.
The mean of all the highest daily readings in the month was 59°·4, being 1°·9 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 44°·7, being 1°·5 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 14°·6, being 0°·3 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 51°·6, being 1°·6 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S	CLOUDS AND WEATHER.	
			OSLER'S.		Pressure on the Square Foot.				
			General Direction.				Horizontal Movement of the Air.		
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Oct. 1	9·2	11·6	SW : WSW : W	W : WNW : NW	2·0	0·10	262	0 : 0 : 2, ci, ci.-s, so.-ha	1, ci, ci.-s : th.-cl, h : p.-cl
2	0·0	11·6	WNW : Calm : N	N : Calm : SW	0·3	0·00	144	9 : 10 : 10, n, slt.-r	10 : p.-cl, s : p.-cl, s
3	3·7	11·5	SW : WSW : W	W : WSW : W	3·3	0·23	323	9 : 9 : 6,ci,ci.-s,cu	7, ci,ci.-s,cu : 9 : 9, s
4	3·1	11·4	WNW : NW : NNW	NNW : W	2·6	0·20	272	9 : p.-cl : 9, cu.-s, s	9, cu, cu.-s : p.-cl : th.-cl, lu.-ha
5	1·2	11·4	Calm : WSW : W	W : WNW : NW	1·3	0·10	240	p.-cl,lu.-ha : th.-cl : 4,s,h,so.-ha	p.-cl, s, so.-ha : p.-cl, cu : p.-cl
6	0·1	11·3	NW : W : NNE	NNE : NE	2·8	0·14	231	li.-cl : 9 : 10, s, n	10, s, n : 10, n : 9
7	6·7	11·2	ENE : SE	Var. : ESE : Calm	0·8	0·00	124	p.-cl : p.-cl : 7, cu	4, cu : th.-cl : p.-cl, lu.-ha
8	7·0	11·2	Calm	WSW : Calm : SSW	0·1	0·00	116	p.-cl,lu.-ha : slt.-f : 3, cu, h	2, cu, h : th.-cl,h,hy.-d : li.-cl, hy.-d
9	0·6	11·1	Calm : WSW	NNW : N	0·7	0·03	163	9 : 10, m : 9,cu,cu.-s,s	10, s : 10 : 9
10	0·8	11·0	N : NNE	NNE : NE : ESE	0·8	0·05	180	9 : 10 : 9, s, n	8, cu.-s : 9 : 9
11	1·2	11·0	ENE : Calm	ESE : SE : Calm	0·5	0·01	113	9 : p.-cl, h : 8, cu, s, n	10, s, n : p.-cl, hy.-d : 0, hy.-d
12	0·7	10·9	Calm : SSE	Calm : SSE	0·2	0·00	108	p.-cl, m : p.-cl, m : 9,cu,cu.-s,n	9, cu, n : 1
13	0·2	10·9	E : ENE	Calm N	0·1	0·00	126	p.-cl : p.-cl,slt.-sh : 9, r	10, oc.-r : 10
14	0·0	10·8	N : NNE : NE	E : ENE : NE	0·1	0·00	146	9 : 10,oc.-slt.-r: 10, oc.-slt.-r	10, n, fq.-r : 10, s, n : 9
15	0·4	10·7	ENE	ESE : ENE : NE	0·8	0·02	204	9, fq.-r : 10,fq.-th.-r: 9,cu,cu.-s,s	9, s, n : 9 : p.-cl
16	0·8	10·7	NE	NE	1·7	0·13	306	9 : 10 : 9, cu, s	8, cu, cu.-s : 10 : 10
17	0·0	10·6	NE	NE : NNE	1·6	0·24	305	10 : 9 : 9,cu,cu.-s,s	9, cu.-s, s : 9 : p.-cl, d
18	0·6	10·5	NNE : NE	NE : NNE	2·5	0·14	246	9 : p.-cl : 7, cu.-s	9, cu.-s, s : p.-cl : p.-cl, d
19	1·6	10·5	N : NNE : NE	NE	1·2	0·08	226	p.-cl : p.-cl : 7, cu.-s, s, n	8, cu.-s,s,n : 9, cu.-s, n : 9
20	0·0	10·4	WE	ENE : NE	1·2	0·06	220	9 : 10 : 10, s, n	10, cu, cu.-s : 10, li.-shs : p.-cl, d,slt.-r
21	1·2	10·3	NE : NNE : Calm	NE : SE : S	0·3	0·00	146	p.-cl,slt.-r,slt.-f: p.-cl, slt.-f: 7, cu, cu.-s	9, s, n : p.-cl : p.-cl
22	2·1	10·3	SSE : S	SW : SSW	3·7	0·17	261	9 : 10 : 9, cu.-s, s	9, sh.-r : 9, r : 9, oc.-r
23	0·1	10·2	SW : WSW	WNW : W : WSW	1·7	0·13	287	9, oc.-r : 10, oc.-r : 10, s,n,slt.-r	9,cu,cu.-s,n : 10
24	0·9	10·1	Calm : SE : S	SE : SSE : Calm	0·0	0·00	114	10, oc.-r : 10 : 9, cu.-s,s,n	9, cu.-s, s, n, sh.-r: p.-cl : p.-cl
25	0·0	10·1	Calm : S : SSW	SW : SSW : W	3·5	0·16	263	9 : 10	10,s,n,m.-r : 10, c.-r : p.-cl, r
26	6·5	10·0	W : NW	NW : WNW : W	3·3	0·34	364	p.-cl : 1 : 6, cu, cu.-s	5, cu, cu.-s : p.-cl : p.-cl
27	5·6	10·0	WSW : SW : WNW	WNW : W : WSW	2·8	0·14	275	1 : p.-cl, oc.-r : 7, cu, s, n	2, ci.-cu, cu : 1, h, lu.-ha : 1, h, lu.-ha
28	4·8	9·9	WSW	SW : Calm : SSE	0·5	0·01	164	1, h : 1, ho.-fr : 6, ci.-s, cu,so.-ha	6, cu, cu.-s : 7 : p.-cl
29	4·5	9·8	ESE : E	ENE : NE : NNE	4·0	0·35	308	p.-cl,slt.-r: p.-cl : 4, cu, cu.-s	9, cu.-s, n, oc.-shs: 9 : 10, r
30	3·0	9·8	NNE : SE : ESE	E : ENE : NE	4·0	0·47	373	10, fq.-r : p.-cl : 5, cu	10,s,n,sh.-r : 10, slt.-r : 10, slt.-r
31	0·4	9·7	E : SE : S	SE : ESE	2·0	0·18	242	9 : 10, oc.-r : 10, s, n	9, cu, cu.-s : th.-cl : p.-cl, lu.-ha
Means	2·2	10·7	..	..	..	0·11	221		
Number of Column for Reference	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 49°·1, being 1°·2 *higher* than
The mean *Temperature of the Dew Point* for the month was 46°·6, being 0°·9 *higher* than
The mean *Degree of Humidity* for the month was 83·6, being 1·4 *less* than
The mean *Elastic Force of Vapour* for the month was 0^{in}·318, being 0^{in}·011 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3^{grs}·6, being 0^{gr}·1 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 540 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 7·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·203. The maximum daily amount of *Sunshine* was 9·2 hours on October 1.

The highest reading of the *Solar Radiation Thermometer* was 120°·5 on October 7 ; and the lowest reading of the *Terrestial Radiation Thermometer* was 25°·1 on October 12.

The *Proportions of Wind* referred to the cardinal points were N. 8, E. 7, S. 4, W. 7. Five days were calm.

The Greatest *Pressure of the Wind* in the month was 4·0 lbs. on the square foot on October 29 and 30. The mean daily *Horizontal Movement of the Air* for the month was 221 miles ; the greatest daily value was 373 miles on October 30 ; and the least daily value was 108 miles on October 12.

Rain (0^{in}·005 or over) fell on 10 days in the month, amounting to 0^{in}·957, as measured by gauge No. 6 partly sunk below the ground ; being 1^{in}·825 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation = 100.)	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		In.	°	°	°	°	°	°	°	°	°	°		°	°	°	In.	
Nov. 1	..	29·236	59·0	45·8	13·2	50·2	+ 3·2	48·3	46·3	3·9	13·2	2·1	87	88·6	40·2	53·58	0·000	wwP : wP
2	Apogee : Full	29·284	55·7	46·9	8·8	51·2	+ 4·4	49·3	47·3	3·9	10·4	1·3	87	66·9	37·0	53·48	0·032	wwP : wN, wP : wP
3	..	29·497	60·1	46·2	13·9	52·7	+ 6·1	50·7	48·7	4·0	11·7	0·0	87	99·0	33·0	53·38	0·069	wP : mN, wP : wP
4	..	29·579	53·6	41·1	12·5	48·5	+ 2·1	48·5	48·5	0·0	1·0	0·0	100	66·4	29·0	53·28	0·193	wP : wP : wwP, wwN
5	..	29·475	61·2	50·3	10·9	54·7	+ 8·6	53·1	51·5	3·2	10·7	0·2	89	94·2	41·7	53·21	0·081	wwP : wwP : wP, wN
6	Greatest Dec. N.	29·663	61·5	48·0	13·5	52·9	+ 7·1	51·4	49·9	3·0	10·5	0·0	90	90·2	40·6	53·28	0·050	wP : wP : vP, vN
7	..	29·921	53·4	41·2	12·2	47·3	+ 1·9	45·8	44·2	3·1	9·0	0·0	90	70·1	34·0	53·20	0·001	wP
8	..	30·039	56·0	39·6	16·4	47·8	+ 2·8	46·2	44·4	3·4	8·5	0·0	89	77·2	30·1	53·15	0·000	wP
9	..	30·042	58·2	49·1	9·1	52·4	+ 7·8	50·1	47·8	4·6	10·0	2·1	84	79·7	42·0	52·97	0·000	wP
10	Last Quarter	30·015	58·0	49·1	8·9	53·0	+ 8·7	50·8	48·6	4·4	10·4	1·0	85	73·6	41·2	52·37	0·009	wP
11	..	29·725	59·0	42·9	16·1	50·9	+ 6·9	48·4	45·8	5·1	10·6	1·4	83	60·0	36·8	52·89	0·279	wP : wP : wN, wP
12	..	29·741	48·8	40·2	8·6	44·0	+ 0·3	41·0	37·5	6·5	10·9	3·4	77	60·6	33·0	52·80	0·021	mP : mP, mN : mP
13	In Equator	29·421	55·7	41·4	44·3	48·9	+ 5·4	46·5	44·0	4·9	11·5	2·2	83	58·3	34·0	52·50	0·079	wP : wwP : wP
14	..	29·422	48·1	29·0	19·1	39·3	− 4·0	35·8	31·2	8·1	16·1	2·5	74	64·7	24·2	52·71	0·000	wP : mP : mP
15	..	29·115	53·7	30·0	23·7	41·9	− 1·2	40·2	38·1	3·8	8·1	0·9	87	75·9	25·6	51·88	0·209	vP, vN : wP, vN : wP, sN
16	..	29·384	48·1	37·0	11·1	43·2	+ 0·4	41·1	38·6	4·6	9·8	0·2	83	74·6	30·0	51·18	0·350	vN, wP : wP : mP
17	Perigee : New	30·113	43·0	32·2	10·8	37·7	− 4·9	35·9	33·5	4·2	9·5	0·8	85	62·1	25·5	50·78	0·000	mP
18	..	30·360	46·0	31·4	14·6	37·7	− 4·7	35·4	32·3	5·4	10·9	0·0	81	59·9	24·1	50·27	0·000	mP
19	Greatest Dec. S.	30·104	44·3	28·9	15·4	34·6	− 7·7	34·2	33·5	1·1	2·3	0·0	96	44·9	26·0	49·69	0·183	mP : vP, vN : wP
20	..	30·102	39·0	33·0	6·0	35·9	− 6·3	33·1	28·9	7·0	11·5	0·0	75	68·8	27·1	49·17	0·000	wP : wP : sP
21	..	29·879	38·5	32·1	6·4	35·9	− 6·2	33·4	29·5	6·4	9·2	2·6	78	52·2	26·3	48·68	0·000	mP
22	..	29·625	40·1	34·2	5·9	37·3	− 4·8	34·8	31·3	6·0	7·4	3·8	80	56·9	28·9	48·18	0·000	wP : mP : mP
23	..	29·642	38·5	35·9	2·6	37·5	− 4·5	35·5	32·7	4·8	6·8	2·6	83	41·9	28·2	47·81	0·000	wP : mP : mP
24	First Quarter	29·693	44·0	33·6	10·4	38·8	− 3·2	36·5	33·4	5·4	10·4	1·1	82	53·9	30·0	47·50	0·097	mP : mP : mP, vN
25	..	29·648	46·5	37·3	9·2	41·7	− 0·2	39·8	37·4	4·3	8·6	0·7	86	59·4	28·9	47·32	0·018	vN, wP : mP : mP
26	In Equator	29·576	52·0	44·8	7·2	49·3	+ 7·5	47·7	46·0	3·3	5·7	1·3	89	60·3	36·1	47·26	0·126	wP : wP : wP, wN
27	..	29·768	49·0	40·9	8·1	45·7	+ 4·0	43·2	40·3	5·4	8·4	1·5	82	68·9	31·3	47·32	0·036	wP : wP, mN : wP
28	..	29·692	51·8	42·0	9·8	47·8	+ 6·3	46·5	45·1	2·7	4·5	1·3	91	58·0	32·2	47·56	0·374	wP : vP, vN : wP
29	Apogee	29·736	53·9	44·1	9·8	50·1	+ 8·9	47·2	44·1	6·0	8·6	2·0	81	59·3	38·0	47·80	0·000	wP
30	..	29·466	55·7	50·8	4·9	52·9	+11·9	51·6	50·3	2·6	5·9	1·6	92	56·1	48·5	47·80	0·409	wwP, wwN : wwN, wwP
Means	..	29·699	51·1	40·0	11·1	45·4	+ 1·9	43·4	41·0	4·4	9·1	1·2	85·2	66·8	32·8	50·77	Sum 2·616	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in.699, being 0in.059 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 61°·5 on November 6 ; the lowest in the month was 28°·9 on November 19 ; and the range was 32°·6.
The mean of all the highest daily readings in the month was 51°·1, being 2°·1 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 40°·0, being 2°·1 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 11·1°, being the *same* as the average for the 65 years, 1841–1905.
The mean for the month was 45°·4, being 1°·9 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.					CLOUDS AND WEATHER.	
			OSLER'S.				ROBINSON'S		
			General Direction.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Nov. 1	3·8	9·7	SE	SE : E	1·4	0·20	256	p.-cl : 10 : 8,cu,cu.-s,s	2, cu : 2 : p.-cl
2	0·1	9·6	ESE : SE	SE : SSE : S	3·1	0·27	264	10, slt.-r : p.-cl : 10, s,n,slt.-r	9, cu.-s, s, n : p.-cl : p.-cl
3	5·6	9·5	S : SSW : SW	SSW : S : SE	2·2	0·20	250	p.-cl : p.-cl,fq.-r : 8, cu	p.-cl : 1 : p.-cl
4	0·0	9·5	Calm	E : ENE	1·4	0·10	186	p.-cl : f : 10, f	10, r : 10, c.-r : 10, c.-r
5	7·0	9·4	ESE : SE : S	SSE : S	1·3	0·11	227	10, c.-r : p.-cl : 1	0 : p.-cl, r : p.-cl, slt.-sh
6	3·8	9·4	S : SW	SW : SSW : WSW	0·8	0·01	176	p.-cl : p.-cl : 6,ci.-cu,cu	p.-cl, ci.-cu, cu: 9, l, r : 10
7	3·5	9·3	WSW : Calm	W : WNW : WSW	0·1	0·00	161	f, slt.-r : f : 0, slt.-f	0 : th.-cl : p.-cl
8	2·1	9·3	WSW	WSW	1·0	0·06	257	p.-cl : 0, m, h : 5,ci.-cu,cu	7, cu : 6 : 8
9	0·4	9·2	WSW : SW	WSW : SW	2·7	0·25	366	p.-cl : 9 : 10,cu,cu.-s,s	9, s, n : p.-cl : p.-cl
10	1·9	9·1	WSW : W	W : SW : WSW	3·2	0·30	356	p.-cl : p.-cl : 7, ci.-cu, s	10, s, r : 10 : 9
11	0·0	9·1	WSW	WSW : WNW : NW	9·3	1·60	670	9 : 10, w : 10, sc, s, w	10, sc, s, r, w : 9, r, w : p.-cl, w
12	3·6	9·0	WNW : W	NW : W	9·5	0·77	498	1, w : 1 : 5, w	v, shs.-r, w : p.-cl : p.-cl
13	0·0	9·0	W : SW : WSW	WSW : W	14·5	1·20	589	10 : 10, w : 10, s, n, r, w	8, cu, st.-w : 1, sh.-r, w : p.-cl
14	5·0	8·9	WSW : W : N	N : SW	4·6	0·38	344	p.-cl : p.-cl : 6, ci.-cu,cu	2, cu, th.-cl, w: 0 : p.-cl, h,ho.-fr
15	2·3	8·8	SSW : S : SSE	WSW : SW : Var.	8·2	0·40	336	9 : 9, oc.-sn, r, w : 8, cu.-s, n, r, w	6, sh.-r : 7 : 9, r
16	2·7	8·8	ENE : NE : NNE	N	6·6	0·77	417	10 : p.-cl, r, w: 8, cu, cu.-s, w	2, cu, w : 0 : 0
17	5·1	8·8	N : NNW	N	1·3	0·18	238	1, ho.-fr : 0, ho.-fr : 0	2, cu : 1, cu : 0, ho.-fr
18	3·9	8·7	N : NNE : Calm	NNE : N : Calm	0·5	0·03	146	0, ho.-fr : 1, ho.-fr : 1, cu, slt.-f	1, cu, th.-cl : 0 : f, ho.-fr
19	0·0	8·6	SW	WSW : N : E	1·5	0·08	222	f, ho.-fr : f, ho.-fr : 10, s,slt.-f,sl	10, s, n, glm, r, sn : 10, r : 10, slt.-sn, oc.-m.-r
20	4·1	8·6	E : Calm : ESE	E : ENE : NE	1·2	0·10	228	p.-cl : p.-cl : p.-cl, cu.-s	p.-cl, cu, cu.-s : 9 : 10
21	0·6	8·5	NE : ENE : E	ENE : NE : E	1·1	0·03	226	p.-cl, fr : p.-cl : 7, cu, cu.-s	10 : 10
22	1·5	8·5	ENE : NE	NE	4·5	0·72	461	9, w : 9 : 9, cu, cu.-s, n, w	9, cu.-s, n : p.-cl : 10
23	0·0	8·4	NE : NNE	NNE : NNW	2·7	0·31	334	9 : 10, s : 10, s	10, s, n : 10
24	2·4	8·4	Calm : SW	WSW : SW : SSW	0·5	0·03	230	10 : 9 : 3, cu, slt.-f	3, ci.-cu, cu: 9 : 10, r
25	2·6	8·4	SSW : W : SW	WSW : SW : SSW	2·5	0·12	283	10, r : p.-cl, m : 3,ci.-cu,cu,slt.-f	1, ci.-cu : p.-cl : 10, oc.-m.-r
26	0·0	8·3	SW	SW : WSW	4·9	0·66	472	10 : 10 : 10, s, m.-r	10, sc, s, w : 10, oc.-m.-r, w : 10, r, w
27	2·1	8·3	WSW : SW	WSW : SW	5·2	0·38	406	p.-cl, r : 1 : 8, ci.-cu,cu,so.-ha,r	p.-cl, r : p.-cl : p.-cl
28	0·0	8·3	SSW : SW	SSW : SW : WSW	8·7	0·76	507	p.-cl : p.-cl, slt.-r: 10, sc, s, w	10, sc, s, hy.-r, w : p.-cl, r : 2
29	0·0	8·2	SW	SW : SSW	5·7	0·80	537	2 : p.-cl : 10, s, n, w	10, s, n, w : 10, w : 10, st.-w
30	0·0	8·2	SSW	SSW : SW	13·3	1·80	745	10, st.-w : 10, slt.-r, st.-w: 10, sc, s, c.-r, g	10, sc, s, r, st.-w: 10, c.-r, w : 10, r, w
Means	2·1	8·9	..	..	..	0·42	346		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 43°·4, being 1°·5 *higher* than

The mean *Temperature of the Dew Point* for the month was 41°·0, being 1°·0 *higher* than

The mean *Degree of Humidity* for the month was 85·2, being 2·1 *less* than

The mean *Elastic Force of Vapour* for the month was 0^{in}·257, being 0^{in}·010 *greater* than

The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2^{grs}·9, being 0^{gr}·1 *greater* than

The mean *Weight of a Cubic Foot of Air* for the month was 545 grains, being 3 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 6·6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·241.　The maximum daily amount of *Sunshine* was 7·0 hours on November 5.

The highest reading of the *Solar Radiation Thermometer* was 99°·0 on November 3 ; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°·1 on November 18.

The *Proportions of Wind* referred to the cardinal points were N. 5, E. 5, S. 8, W. 10.　Two days were calm.

The *Greatest Pressure of the Wind* in the month was 14·5 lbs. on the square foot on November 13.　The mean daily *Horizontal Movement of the Air* for the month was 346 miles ; the greatest daily value was 745 miles on November 30 ; and the least daily value was 146 miles on November 18.

Rain (0^{in}·005 or over) fell on 18 days in the month, amounting to 2^{in}·616, as measured by gauge No. 6 partly sunk below the ground ; being 0^{in}·396 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Phases of the Moon.	BAROMETER. Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	TEMPERATURE. Of the Air. Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Of Evaporation. Mean of 24 Hourly Values.	Of the Dew Point. Deduced Mean Daily Value.	Difference between the Air Temperature and Dew Point Temperature. Mean.	Greatest.	Least.	Degree of Humidity (Saturation=100).	TEMPERATURE. Of Radiation. Highest in Sun's Rays.	Lowest on the Grass.	Of the Earth 3 ft. 2 in. below the Surface of the Soil.	Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.
		in.	°	°	°	°	°	°	°	°	°	°		°	°		in.	
Dec. 1	..	29·576	53·0	45·6	7·4	49·7	+ 8·8	46·3	42·7	7·0	11·9	2·5	77	74·7	38·0	48·21	0·056	wwP : wP : wP, wN
2	Full	29·678	55·1	45·6	9·5	50·2	+ 9·3	47·0	43·6	6·6	10·8	3·2	79	72·2	38·6	48·51	0·020	wP : wP : wP, wN
3	..	29·614	50·2	42·5	7·7	47·6	+ 6·5	43·6	39·2	8·4	13·4	3·1	74	71·0	38·3	48·59	0·200	wP, vN : wP : wP
4	Greatest Dec. N.	29·389	51·2	41·5	9·7	46·9	+ 5·6	43·5	39·7	7·2	9·9	2·4	77	56·1	35·0	48·63	0·268	wP : vP, vvN : vP, ssN
5	..	29·325	43·2	35·3	7·9	39·4	− 2·1	36·3	32·2	7·2	9·6	3·2	76	68·9	28·4	48·53	0·015	vP, ssN : mP : mP
6	..	29·458	56·0	33·2	22·8	40·3	− 1·2	38·2	35·5	4·8	9·2	0·8	84	49·6	26·9	48·16	1·087	mP : mP : wP
7	..	29·201	56·2	47·1	9·1	51·5	+10·2	48·9	46·2	5·3	8·8	2·5	82	58·4	40·6	47·78	0·055	wwP : wP : wP
8	..	29·428	50·7	43·6	7·1	47·1	+ 6·1	44·1	40·7	6·4	11·1	3·7	79	62·8	36·5	47·72	0·009	wP : wP, sN : wP
9	..	29·368	46·0	42·1	3·9	44·1	+ 3·5	43·1	41·9	2·2	4·3	0·9	92	51·0	35·3	47·76	0·840	wP : wP : vP, vN
10	Last Quarter	29·399	45·0	38·9	6·1	42·6	+ 2·2	41·4	40·0	2·6	5·8	0·9	90	52·5	29·4	47·37	0·211	wP : wP, wN : vN, wwP
11	In Equator	29·353	43·4	35·1	8·3	39·8	− 0·4	38·6	37·0	2·8	4·2	0·8	90	50·8	26·6	47·33	0·228	vP, vN : wP : wP, wN
12	..	29·145	46·8	41·3	5·5	42·9	+ 2·6	42·4	41·8	1·1	2·6	0·4	96	62·0	37·3	46·98	0·327	
13	..	28·777	49·0	43·2	5·8	45·8	+ 5·3	44·7	43·5	2·3	3·4	1·1	92	58·5	39·1	46·86	0·664	wN, wwP : wwP, wN
14	..	28·666	50·9	44·3	6·6	46·6	+ 5·9	45·2	43·7	2·9	7·0	0·6	90	70·7	38·1	46·71	0·319	wwP, wN : wP : wP, wN
15	Perigee	28·965	44·3	38·6	5·7	41·2	+ 0·4	40·2	38·9	2·3	3·8	0·7	92	45·1	33·0	46·80	0·201	vN, vP : wP, mN : wP
16	..	29·599	44·8	35·3	9·5	40·8	+ 0·1	38·6	35·8	5·0	9·1	1·9	83	57·9	29·1	46·92	0·000	wP : mP : mP
17	New: Greatest Dec. S.	29·908	49·0	35·1	13·9	43·6	+ 3·2	41·4	38·8	4·8	7·3	3·3	83	59·9	29·0	46·68	0·006	wP : wP, wN : wP, wwN
18	..	29·468	50·7	42·3	8·4	47·5	+ 7·5	46·3	45·0	2·5	3·6	0·9	92	54·9	35·0	46·49	0·308	wwP, wwN : wwP, wwN : wP, wwN
19	..	29·294	46·2	38·1	8·1	41·5	+ 2·0	39·9	37·9	3·6	4·9	1·6	88	49·0	30·4	46·49	0·389	wN, wP : vvP, vvN : wP
20	..	29·265	43·8	32·1	11·7	37·7	− 1·3	36·0	33·7	4·0	8·4	1·4	85	59·9	25·1	46·38	0·000	wP : mP : mP
21	..	29·272	43·3	34·2	9·1	39·1	+ 0·4	37·3	35·0	4·1	7·6	1·2	86	64·7	29·7	46·05	0·018	wP, wN : wP : mP, wN
22	..	29·546	39·8	34·2	5·6	37·0	− 1·4	36·2	35·1	1·9	3·5	0·8	93	45·8	28·6	45·78	0·032	wP
23	In Equator	29·588	37·5	30·4	7·1	35·2	− 3·0	34·6	33·7	1·5	2·4	0·7	94	39·9	26·0	45·45	0·005	wP : wP, mN : wP
24	First Quarter	29·962	39·2	27·0	12·2	34·9	− 3·3	34·1	32·8	2·1	3·3	0·0	92	46·9	26·4	45·16	0·009	wP, wwN : mP : vP
25	..	30·094	39·0	26·9	12·1	32·1	− 6·3	31·2	29·1	3·0	6·5	0·0	88	51·0	22·5	44·76	0·000	sP : mP
26	..	29·937	44·3	30·3	14·0	38·0	− 0·6	37·3	36·3	1·7	4·7	0·0	94	43·0	22·7	44·49	0·273	wP : vN, wP : wP
27	Apogee	29·544	53·0	42·8	10·2	46·3	+ 7·5	45·2	44·0	2·3	7·4	0·0	92	64·0	39·7	44·25	0·274	wwP, wwN : wwP : wwP, wwN
28	..	28·925	51·9	33·1	18·8	47·1	+ 8·2	46·3	45·4	1·7	3·9	0·0	94	53·3	30·6	44·18	1·068	wwP : wwP, wwN : vP, vN
29	..	29·466	43·9	32·5	11·4	37·6	− 1·4	36·2	34·3	3·3	6·9	1·8	88	51·8	25·2	44·32	0·044	wP, wN : wP : mP
30	..	29·694	45·6	30·3	15·3	39·3	+ 0·4	37·9	36·0	3·3	5·5	1·6	89	55·6	22·2	44·47	0·001	mP : wP : wP
31	Greatest Dec. N.	29·319	44·0	32·8	11·2	40·7	+ 2·0	39·3	37·6	3·1	6·1	0·0	89	52·5	25·4	44·29	0·091	wP, wN : wN, wP : wP
Means	..	29·427	47·0	37·3	9·7	42·4	+ 2·5	40·7	38·6	3·8	6·7	1·4	87·1	56·6	31·2	46·52	Sum 6·018	..
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day.

The mean reading of the Barometer (Column 2) and the mean temperatures of the Air and Evaporation (Columns 6 and 8) are deduced from the photographic records. The average temperature (Column 7) is deduced from the 65 years' observations, 1841–1905. The temperature of the Dew Point (Column 9) and the Degree of Humidity (Column 13) 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 10) is the difference between the numbers in Columns 6 and 9, and the Greatest and Least Differences (Columns 11 and 12) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 16 are taken daily at noon.

The values given in Columns 3, 4, 5, 14, and 15 are derived from eye-readings of self-registering thermometers.

The mean reading of the *Barometer* for the month was 29in·427, being 0in·358 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 56°·2 on December 7; the lowest in the month was 26°·9 on December 25; and the range was 29°·3.

The mean of all the highest daily readings in the month was 47°·0, 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 37°·3, being 2°·3 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 9°·7, being 0°·5 *greater* than the average for the 65 years, 1841–1905.

The mean for the month was 42°·4, being 2°·5 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1914.	Daily Duration of Sunshine.	Sun above Horizon.	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS.				ROBINSON'S	CLOUDS AND WEATHER.	
			OSLER'S.		Pressure on the Square Foot.		Horizontal Movement of the Air.		
			General Direction.						
			A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.		A.M.	P.M.
	hours.	hours.			lbs.	lbs.	miles.		
Dec. 1	3·0	8·2	SSW : SW	SW : SSW	6·2	0·69	488	p.-cl, r, w : p.-cl, w : 5, cu, cu.-s	7, cu, cu.-s : 6 : p.-cl, lu.-ha
2	1·7	8·1	SSW : S	S : SSW	15·5	1·59	605	p.-cl : 9 : 9, cu, cu.-s, w	p.-cl, st.-w : 9,lu.-ha,st.-w: 9, oc.-slt.-r, g
3	6·2	8·1	SSW : SW	SW : SSW	15·0	1·61	669	10, fq.-r,w : p.-cl, sh.-r,sq: 1, cu, w	1,ci.-s,st.-w.: 0, w : p.-cl, st.-w
4	0·0	8·1	SSW	S : SSW : SW	21·2	2·62	791	9, st.-w : 9, g : 10, slt.-sh, g	10, sc,s,r,hl,g : p.-cl,shs.-r,hl,l,t,w: p.-cl, lu.-ha, w
5	5·4	8·0	SW	SW	9·7	0·99	565	p.-cl,st.-w: p.-cl, sh.-r, w : 8,ci.-s,ci.-cu, w	4, ci.-s, W : 1 : 0, ho.-fr
6	0·0	8·0	S : SSW : S	SSE : S : SW	6·5	0·45	393	0, ho.-fr : th.-cl, ho.-fr : 10, s	10, s : 10,oc.-shs,w : 10, fq.-r, w
7	0·0	8·0	SW : SSW	SSW : SW	7·3	1·13	582	10, oc.-slt.-r,w: 10, W : 10, sc, s	10, sc, s, r : p.-cl, w : 1, w
8	3·0	7·9	SSW : SW	SSW : S	5·5	0·54	443	0 : p.-cl, w : 3, cu, w	p.-cl, sh.-r, w : v, li.-shs : th.-cl
9	0·0	7·9	S : SSE : SE	Calm : E : NE	4·1	0·12	252	p.-cl : 10 : 10, s, n	10, s, n : 10, c.-r : 10, c.-r, w
10	0·0	7·9	N : NNW	NW : N : NE	6·1	0·66	346	10, r, W : 10, r, W : 10, cu, sc, s, slt.-r	10, cu, s : 10 : p.-cl
11	0·0	7·9	E	E	4·8	0·36	300	p.-cl, ho.-fr : p.-cl, lu.-ha, ho.-fr : 10, ci.-cu, cu, s	10, s, r, W : 10, s, r, W : 10, r
12	0·3	7·8	E : Calm : ENE	E	0·2	0·00	145	10, fq.-r : 10, slt.-r : 10, cu.-s, s	6 : p.-cl, r : 10, r
13	0·0	7·8	E : SE : S	S : SE : ESE	5·5	0·53	365	9, r : 10, r : 9, r, w	9, r, w : 10, s, n, r, w : 10, r
14	4·3	7·8	ESE : SSW	SW : SE : SSW	3·9	0·13	233	10, fq.-r : 9, w : 5, cu, cu.-s	5, ci.-cu, cu : 9, r : 10, c.-r
15	0·0	7·8	SW : Calm : Var.	SW	1·5	0·10	282	9, r : 9,oc.-slt.-r: 10, r	10, r : p.-cl : 1
16	1·0	7·8	SW : W	NW : WNW : SW	5·2	0·48	399	p.-cl : p.-cl : 9, cu, s, w	p.-cl, cu, w : 0 : 0
17	1·0	7·8	SW : SSW	SW : SSW	7·6	0·57	437	p.-cl : 9 : 8, cu.-s	9, slt.-sh : 9, slt.-sh, w: 9, slt.-r, w
18	0·0	7·8	SSW	SSW : S : SW	6·6	1·03	513	10, slt.-r,w : 10,fq.-r,w: 10, sc, s, r, w	9, sc, s, r, w : p.-cl : 9, r
19	0·9	7·8	SW : SSW	SW : SSW	7·8	0·61	432	p.-cl, r, w : 1 : p.-cl,hy.-r	10, s, n, l,t,hy.-r: p.-cl, r : 0
20	5·0	7·8	SW : SSW	S : SE : E	0·9	0·05	222	0, ho.-fr : h, ho.-fr : 4, ci, s	5, ci, s : p.-cl : p.-cl
21	3·0	7·8	E : SW	SW : WSW	2·2	0·11	313	9, slt.-r : 10, slt.-r : p.-cl,ci,cu	5, ci, cu : p.-cl : p.-cl,slt.-r,sn
22	0·0	7·7	WSW : NNW	NNW : N	2·1	0·04	208	10,slt.-sn,sl,r: 10, glm : 10, s, n	9, s, n : 9 : p.-cl
23	0·0	7·8	Calm : NNW	NNW : N : NNE	0·3	0·00	142	p.-cl : 10, f : 10, s, n, sn, slt.-f	10 : 10
24	0·0	7·8	N : NNW	N : Calm : SW	0·2	0·00	103	p.-cl, ho.-fr : p.-cl : p.-cl, cu	7,cu.-s,slt.-f: f, ho.-fr : tk.-f, ho.-fr
25	1·4	7·8	Calm	Calm : S : SE	0·3	0·00	118	tk.-f, ho.-fr: f, ho.-fr : 10, cu, f	7, cu : p.-cl,lu.-ha,ho.-fr: p.-cl, ho.-fr
26	0·0	7·8	Calm : SSE : S	S : Calm : SSE	3·3	0·24	308	p.-cl,ho.-fr: p.-cl : 10, s, n, r, hl	10, s, n, r : 10 : 10, f
27	2·5	7·8	SSE : S : SSW	S : SSE	8·2	0·57	437	10, r : 10, w : 8, sc, s, r, w	2, cu : p.-cl, r : 10, r
28	0·0	7·8	SSE : SW : SSW	Calm : E : SW	26·3	0·93	436	10, fq.-r : 10 : 10,sc,s,slt.-r	10, r : 10, r, hl, sn, g : 10, sn, hl, g
29	1·5	7·8	SW : WNW : WSW	WSW : SW	8·2	0·55	464	10, r,sn,w : 10, w : 9, s, so.-ha	5, ci.-cu, cu : 2 : 1, ho.-fr
30	0·0	7·8	SW : Calm : SSE	S : SSE	6·5	0·47	399	1, ho.-fr : li.-cl : 10,s,slt.-sh,so.-ha	10, s, slt.-sh : 10, w : 10, w
31	0·1	7·8	SSE : S	SW : Calm	4·0	0·27	305	10, r, w : 10, fq.-r : 10, slt.-r	p.-cl, cu : 2, slt.-f, lu.-ha : th.-cl,slt.-f,lu.-ha,ho.-fr
Means	1·3	7·9	..	..	..	0·56	377		
Number of Column for Reference.	19	20	21	22	23	24	25	26	27

The mean *Temperature of Evaporation* for the month was 40°·7, being 2°·2 *higher* than
The mean *Temperature of the Dew Point* for the month was 38°·6, being 1°·9 *higher than*
The mean *Degree of Humidity* for the month was 87·1, being 1·5 *less* than
The mean *Elastic Force of Vapour* for the month was 0ᴵⁿ·234, being 0ᴵⁿ·016 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2ᵍʳˢ·7, being 0ᵍʳ·1 *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 7·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·165. The maximum daily amount of *Sunshine* was 6·2 hours on December 3.

The highest reading of the *Solar Radiation Thermometer* was 74°·7 on December 1 ; and the lowest reading of the *Terrestial Radiation Thermometer* was 22°·2 on December 30.

The *Proportions of Wind* referred to the cardinal points were N. 2, E. 4, S. 15, W. 7. Three days were calm.

The *Greatest Pressure of the Wind* in the month was 26·3 lbs. on the square foot on December 28. The mean daily *Horizontal Movement of the Air* for the month was 377 miles ; the greatest daily value was 791 miles on December 4 ; and the least daily value was 103 miles on December 24.

Rain (0ᴵⁿ·005 or over) fell on 27 days in the month, amounting to 6ᴵⁿ·018, as measured by gauge No. 6 partly sunk below the ground ; being 4ᴵⁿ·191 *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 Registers.

MAXIMA / MINIMA (January – April)

MAXIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)	MINIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)
January		**January**	
		2. 21. 0	30·220
3. 10. 30	30·320	6. 4. 30	29·326
7. 19. 15	30·095	9. 6. 15	29·814
12. 18. 15	30·362	17. 13. 45	29·613
18. 22. 20	29·908	20. 5. 30	29·791
25. 9. 50	30·150	26. 5. 20	29·870
28. 10. 0	30·034	30. 5. 5	29·748
31. 0. 3	29·880	31. 18. 0	29·784
February		**February**	
2. 0. 10	30·005	3. 5. 20	29·890
5. 0. 0	29·975	8. 6. 5	29·319
10. 11. 10	29·733	12. 0. 0	29·320
12. 12. 15	29·483	12. 20. 45	29·278
13. 11. 5	29·793	14. 3. 0	29·548
14. 16. 10	29·748	15. 6. 50	29·514
17. 11. 0	29·931	19. 17. 10	29·197
20. 9. 5	29·480	21. 1. 5	29·005
21. 9. 10	29·090	22. 6. 10	28·420
27. 22. 0	30·077		
March		**March**	
		1. 3. 30	29·796
1. 21. 15	29·878	6. 15. 5	29·203
7. 21. 50	29·465	9. 17. 0	29·201
11. 20. 30	29·837	12. 8. 0	29·475
13. 2. 10	29·857	14. 17. 10	29·121
15. 8. 45	29·669	16. 9. 55	29·064
17. 5. 50	29·807	18. 8. 0	29·066
18. 20. 55	29·177	20. 11. 55	28·498
23. 10. 5	29·430	25. 21. 0	28·809
28. 10. 5	29·926	29. 7. 30	29·784
31. 13. 0	30·077		
April		**April**	
		2. 16. 45	29·699
3. 11. 55	29·816	6. 1. 25	29·235
6. 15. 0	29·407	7. 17. 45	29·161
9. 2. 30	29·590	9. 18. 5	29·451
12. 10. 0	30·025	13. 15. 15	29·828
15. 11. 0	30·365	17. 19. 0	29·967
21. 7. 0	30·163	22. 18. 0	30·009
24. 0. 0	30·192	24. 17. 30	30·055
26. 5. 5	30·405	30. 5. 15	29·759

MAXIMA / MINIMA (May – September)

MAXIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)	MINIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)
May		**May**	
2. 8. 45	30·206	5. 17. 0	29·408
6. 7. 50	29·540	7. 20. 50	29·279
10. 8. 5	29·930	10. 19. 45	29·745
11. 8. 0	29·816	11. 19. 0	29·736
13. 0. 30	30·082	13. 17. 30	29·986
19. 23. 50	30·228	23. 8. 0	29·632
25. 8. 0	30·115	26. 15. 0	29·954
27. 22. 15	30·040	29. 17. 55	29·825
31. 1. 5	29·928	31. 17. 0	29·804
June		**June**	
1. 11. 0	29·962	2. 6. 0	29·860
3. 8. 5	30·081	4. 14. 30	29·890
4. 21. 25	29·970	5. 10. 45	29·799
6. 11. 10	29·869	9. 4. 45	29·394
10. 23. 30	29·803	11. 19. 5	29·698
12. 22. 5	29·814	13. 15. 5	29·736
16. 23. 0	29·919	21. 17. 0	29·646
26. 7. 30	30·214	27. 17. 30	30·050
28. 9. 0	30·160		
July		**July**	
		2. 9. 45	29·468
4. 7. 45	29·908	6. 5. 45	29·526
10. 8. 5	30·038	12. 6. 15	29·851
13. 10. 30	29·926	15. 15. 15	29·675
17. 23. 0	29·876	20. 2. 40	29·338
21. 22. 30	29·604	22. 20. 20	29·475
23. 11. 30	29·551	27. 4. 0	29·399
31. 8. 20	29·895		
August		**August**	
		2. 11. 30	29·349
3. 8. 0	29·628	5. 15. 25	29·474
12. 0. 0	30·170	15. 5. 45	29·713
18. 8. 15	30·010	26. 15. 30	29·497
29. 9. 0	30·157	30. 16. 50	30·039
September		**September**	
1. 10. 30	30·194	4. 14. 40	29·891
6. 6. 50	30·019	8. 5. 55	29·655
10. 12. 25	29·755	11. 12. 45	29·496
12. 10. 15	29·765	12. 20. 45	29·250
13. 19. 15	29·699	14. 15. 30	29·374
16. 12. 40	29·794	17. 13. 25	29·267

MAXIMA / MINIMA (September – December)

MAXIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)	MINIMA — Greenwich Civil Time, 1914 (d h m)	Reading (in.)
September		**September**	
18. 8. 45	29·666	19. 3. 0	29·570
23. 9. 30	30·236	26. 15. 20	30·025
27. 10. 0	30·220	28. 16. 15	29·887
30. 9. 15	30·267		
October		**October**	
		1. 16. 15	29·980
2. 21. 15	30·149	3. 15. 0	30·038
4. 22. 30	30·263	6. 5. 0	30·037
7. 9. 30	30·178	13. 12. 40	29·513
19. 10. 30	30·123	22. 14. 15	29·507
25. 8. 30	29·780	25. 21. 30	29·472
26. 22. 40	29·766	29. 4. 0	29·240
29. 17. 40	29·315	30. 3. 5	29·130
30. 11. 45	29·329	31. 5. 5	29·152
November		**November**	
4. 9. 15	29·618	5. 4. 30	29·435
8. 20. 40	30·072	10. 6. 25	29·980
10. 19. 10	30·060	11. 16. 50	29·480
12. 22. 50	29·840	14. 4. 0	29·173
14. 20. 30	29·640	15. 21. 45	28·850
18. 9. 50	30·412	19. 19. 5	29·894
20. 10. 35	30·166	23. 5. 30	29·585
24. 9. 10	29·741	25. 1. 50	29·539
25. 18. 55	29·710	26. 20. 45	29·496
27. 22. 0	29·868	28. 14. 30	29·592
29. 19. 0	29·758		
December		**December**	
		1. 1. 10	29·368
2. 6. 45	29·836	2. 22. 30	29·380
3. 16. 40	29·774	4. 14. 25	29·135
6. 10. 15	29·645	6. 23. 30	29·141
7. 11. 50	29·245	7. 17. 50	29·158
8. 22. 10	29·520	10. 3. 0	29·168
10. 19. 50	29·589	14. 4. 0	28·540
17. 6. 0	29·980	19. 0. 0	29·226
19. 8. 30	29·402	19. 23. 0	29·218
20. 10. 30	29·300	21. 5. 0	29·137
25. 10. 5	30·116	26. 13. 55	29·872
26. 21. 5	29·951	28. 20. 20	28·515
30. 2. 15	29·833	31. 9. 55	29·261
31. 19. 20	29·347		

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 times 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 159 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 1914.

	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	30·362	30·077	30·077	30·405	30·228	30·214	30·038	30·170	30·267	30·263	30·412	30·116
Lowest	29·326	28·420	28·498	29·161	29·279	29·394	29·338	29·349	29·250	29·130	28·850	28·515
Range	1·036	1·657	1·579	1·244	0·949	0·820	0·700	0·821	1·017	1·133	1·562	1·601

The highest reading in the year was $30^{in.}412$ on November 18.   The lowest reading in the year was $28^{in.}420$ on February 22.   The range of reading in the year was $1^{in.}992$.

MONTHLY RESULTS of METEOROLOGICAL ELEMENTS for the YEAR 1914.

MONTH, 1914.	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 Average of 65 Years.	Mean Temperature of Evaporation.	Mean Temperature of the Dew Point.	Mean Degree of Humidity. (Saturation = 100.)
	in.	°	°	°	°	°	°	°	°	°	°	
January ..	29·969	55·4	19·9	35·5	42·5	34·3	8·3	38·4	− 0·2	36·6	33·4	82·4
February..	29·577	59·0	29·2	29·8	51·7	38·2	13·5	44·4	+ 4·9	42·1	39·5	83·3
March	29·454	65·3	27·8	37·5	51·0	37·4	13·6	43·8	+ 1·9	41·1	37·9	80·6
April	29·907	73·6	31·7	41·9	61·1	40·0	21·1	49·8	+ 2·5	45·4	40·9	72·2
May	29·906	83·4	37·6	45·8	63·7	43·8	19·9	53·0	− 0·1	48·3	43·7	71·3
June......	29·851	88·1	40·3	47·8	71·5	49·2	22·3	59·1	− 0·3	54·2	49·8	71·9
July	29·698	92·1	45·2	46·9	74·5	53·9	20·6	62·5	− 0·2	57·5	53·2	72·2
August....	29·851	83·7	46·3	37·4	74·4	53·6	20·8	62·5	+ 0·9	58·2	54·5	75·7
September..	29·894	82·0	33·8	48·2	68·9	47·6	21·3	57·2	− 0·1	52·6	48·3	72·7
October ...	29·825	68·6	34·7	33·9	59·4	44·7	14·6	51·6	+ 1·6	49·1	46·8	83·6
November .	29·699	61·5	28·9	32·6	51·1	40·0	11·1	45·4	+ 1·9	43·4	41·0	85·2
December .	29·427	56·2	26·9	29·3	47·0	37·3	9·7	42·4	+ 2·5	40·7	38·6	87·1
Means	29·755	Highest 92·1	Lowest 19·9	Annual Range 72·2	59·7	43·3	16·4	50·8	+ 1·3	47·4	44·0	78·2

MONTH, 1914.	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 (0·005 or over).	Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground.	WIND. From Osler's Anemometer. 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 ..	0·191	2·3	558	42·68	7·8	13	0·504	18	108	130	44	5	144	209	43	43	0·37	346
February..	0·242	2·8	544	44·04	5·8	14	2·440	8	13	4	8	79	380	120	12	48	0·49	366
March	0·228	2·6	542	43·86	7·4	26	3·928	24	41	12	12	32	184	306	93	40	0·41	377
April	0·256	2·9	544	47·17	4·3	12	1·110	41	29	108	97	15	123	167	32	108	0·28	291
May	0·285	3·2	540	51·79	6·2	10	1·631	129	106	66	52	15	87	131	41	117	0·28	279
June	0·358	4·0	532	56·54	5·1	9	1·338	121	176	36	22	24	132	61	39	109	0·10	227
July......	0·406	4·5	526	62·16	7·0	17	1·409	75	22	43	32	78	202	160	60	072	0·14	246
August ...	0·425	4·7	528	62·06	5·9	11	1·174	35	75	76	27	58	216	112	12	133	0·13	230
September	0·339	3·8	535	60·67	4·6	6	0·732	82	40	84	52	49	109	106	53	145	0·25	270
October...	0·318	3·6	540	55·68	7·4	10	0·957	75	173	63	58	38	73	95	43	126	0·11	221
November.	0·257	2·9	545	50·77	6·6	18	2·616	62	73	54	44	84	210	119	27	47	0·42	346
December.	0·234	2·7	543	46·52	7·4	27	6·018	29	16	59	62	188	264	27	27	72	0·56	377
Sums	..	..	..	..	..	173	23·857	699	872	735	510	665	2124	1613	482	1060	..	..
Means	0·295	3·3	540	52·00	6·3	..	..	..	..	..	..	..	..	..	..	..	0·30	298

The greatest recorded pressure of the wind on the square foot in the year was 26·3 lbs. on December 28.
The greatest recorded daily horizontal movement of the air in the year was 791 miles on December 4.
The least recorded daily horizontal movement of the air in the year was 82 miles on August 20.

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

Hour, Greenwich Civil Time.	1914.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	29·983	29·575	29·477	29·921	29·913	29·860	29·709	29·855	29·896	29·842	29·706	29·422	29·763
1h	29·976	29·569	29·476	29·915	29·910	29·859	29·703	29·854	29·895	29·837	29·702	29·414	29·759
2	29·974	29·565	29·469	29·910	29·906	29·853	29·697	29·850	29·891	29·833	29·698	29·415	29·755
3	29·970	29·560	29·459	29·905	29·903	29·851	29·691	29·847	29·887	29·825	29·696	29·413	29·751
4	29·964	29·555	29·449	29·900	29·902	29·850	29·692	29·843	29·886	29·822	29·690	29·415	29·747
5	29·959	29·559	29·443	29·900	29·905	29·853	29·695	29·845	29·888	29·823	29·690	29·417	29·748
6	29·958	29·562	29·439	29·907	29·912	29·858	29·697	29·851	29·895	29·826	29·691	29·422	29·752
7	29·960	29·570	29·442	29·912	29·918	29·863	29·701	29·855	29·905	29·832	29·698	29·429	29·757
8	29·968	29·584	29·445	29·918	29·921	29·866	29·702	29·856	29·909	29·838	29·705	29·435	29·762
9	29·977	29·593	29·446	29·921	29·921	29·864	29·702	29·857	29·913	29·841	29·707	29·444	29·765
10	29·985	29·599	29·448	29·923	29·919	29·862	29·701	29·857	29·912	29·841	29·709	29·454	29·768
11	29·986	29·603	29·448	29·919	29·915	29·860	29·702	29·853	29·907	29·837	29·706	29·451	29·766
Noon	29·978	29·597	29·450	29·913	29·911	29·857	29·699	29·849	29·903	29·832	29·697	29·441	29·761
13h	29·966	29·590	29·448	29·907	29·906	29·851	29·697	29·846	29·896	29·825	29·686	29·433	29·754
14	29·958	29·583	29·443	29·898	29·901	29·843	29·695	29·844	29·890	29·817	29·683	29·425	29·748
15	29·958	29·576	29·443	29·890	29·894	29·836	29·691	29·841	29·883	29·811	29·683	29·427	29·744
16	29·961	29·574	29·441	29·886	29·891	29·832	29·687	29·839	29·879	29·811	29·686	29·431	29·743
17	29·962	29·574	29·440	29·886	29·888	29·830	29·685	29·837	29·879	29·815	29·692	29·428	29·743
18	29·965	29·577	29·449	29·888	29·888	29·832	29·688	29·839	29·883	29·816	29·699	29·426	29·746
19	29·967	29·578	29·458	29·897	29·893	29·835	29·691	29·844	29·887	29·817	29·705	29·420	29·749
20	29·968	29·578	29·465	29·906	29·901	29·843	29·698	29·854	29·894	29·817	29·707	29·416	29·754
21	29·967	29·577	29·472	29·913	29·909	29·855	29·707	29·862	29·896	29·815	29·710	29·419	29·758
22	29·967	29·579	29·478	29·917	29·914	29·860	29·710	29·868	29·896	29·815	29·712	29·420	29·761
23	29·967	29·578	29·479	29·918	29·915	29·861	29·710	29·869	29·896	29·813	29·714	29·420	29·762
24	29·963	29·576	29·481	29·917	29·911	29·860	29·706	29·868	29·897	29·810	29·713	29·419	29·760
Means { 0h.–23h.	29·969	29·577	29·454	29·907	29·906	29·851	29·698	29·851	29·894	29·825	29·699	29·427	29·755
Means { 1h.–24h.	29·968	29·577	29·455	29·907	29·906	29·851	29·698	29·851	29·894	29·824	29·699	29·426	29·755
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.	1914.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	37·5	42·9	41·7	44·8	48·2	53·2	57·7	56·8	52·7	48·5	43·2	41·4	47·4
1h	37·2	42·6	41·3	44·1	47·4	52·1	57·0	56·0	51·9	48·0	43·0	41·2	46·9
2	36·9	42·0	41·1	43·2	46·5	51·4	56·3	55·5	51·0	47·6	42·8	41·1	46·3
3	36·9	41·5	40·6	42·3	45·8	50·6	55·8	55·2	50·3	47·3	42·7	40·9	45·8
4	36·8	41·2	40·2	41·6	45·3	50·0	55·1	54·8	49·9	47·1	42·7	40·7	45·5
5	36·7	40·9	39·9	41·3	45·3	50·0	55·1	54·9	49·6	47·3	42·7	40·8	45·4
6	36·7	40·8	39·8	41·6	46·7	51·4	56·7	56·3	49·7	47·6	42·8	40·8	45·9
7	36·9	41·1	40·4	44·0	49·4	54·2	59·1	58·8	51·3	48·3	43·3	41·1	47·3
8	37·1	41·9	41·8	48·4	52·8	57·7	62·0	61·8	54·5	49·8	44·1	41·4	49·4
9	37·3	43·7	44·3	52·6	55·7	61·1	64·8	64·4	58·6	52·2	45·1	42·1	51·8
10	38·1	45·6	45·7	54·7	57·5	63·6	66·3	66·8	61·4	53·9	46·2	42·9	53·6
11	39·0	47·4	46·9	56·1	58·8	65·1	68·3	68·3	63·4	55·6	47·9	43·9	55·1
Noon	39·9	49·1	47·5	57·2	59·9	66·5	69·4	69·7	64·9	56·8	49·0	44·8	56·2
13h	40·5	49·5	47·9	57·7	60·1	67·3	69·6	70·6	66·1	57·3	49·5	45·1	56·8
14	40·6	49·6	48·3	58·6	60·4	67·8	69·6	71·1	66·4	57·4	49·5	45·2	57·0
15	40·4	48·9	48·1	58·3	59·9	67·7	68·9	70·7	66·1	57·2	49·0	44·6	56·6
16	40·0	47·8	47·2	57·3	59·0	66·7	68·6	69·3	64·8	55·8	48·1	43·9	55·7
17	39·5	46·4	46·3	55·9	58·1	65·7	67·6	68·0	62·8	54·5	47·2	43·4	54·6
18	39·3	45·4	45·4	54·1	56·5	64·5	66·0	66·5	60·3	53·1	46·5	43·0	53·4
19	39·1	44·6	44·6	51·7	54·5	62·6	64·4	64·5	58·0	52·0	46·1	42·7	52·1
20	38·9	43·9	43·8	49·8	52·4	60·1	62·5	62·3	56·3	51·1	45·4	42·3	50·7
21	38·7	43·6	43·3	48·0	51·2	58·0	60·9	60·6	55·1	50·3	44·8	41·7	49·7
22	38·6	43·4	42·7	46·7	50·1	56·4	59·3	59·2	53·8	49·6	44·3	41·4	48·8
23	38·3	43·0	42·2	45·6	49·1	55·0	58·3	58·0	52·9	48·9	43·9	41·3	48·0
24	38·1	42·8	41·8	44·7	48·3	53·8	57·5	56·9	52·1	48·6	43·4	41·0	47·4
Means { 0h.–23h.	38·4	44·5	43·8	49·8	52·9	59·1	62·5	62·5	57·2	51·6	45·4	42·4	50·8
Means { 1h.–24h.	38·4	44·4	43·8	49·8	52·9	59·1	62·5	62·5	57·1	51·6	45·4	42·4	50·8
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.	1914.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight	35·8	41·3	39·8	42·7	45·6	51·3	55·3	55·3	50·7	47·2	42·0	39·9	45·6
1h	35·6	41·0	39·5	42·2	45·1	50·8	54·8	54·9	50·1	46·8	41·9	39·7	45·2
2	35·4	40·6	39·3	41·6	44·6	50·2	54·4	54·5	49·3	46·5	41·7	39·6	44·8
3	35·3	40·2	39·0	40·8	44·1	49·6	53·9	54·1	48·8	46·5	41·5	39·5	44·4
4	35·2	39·8	38·6	40·3	43·7	49·1	53·4	53·9	48·5	46·3	41·5	39·3	44·1
5	35·3	39·5	38·3	40·0	43·7	49·1	53·6	53·9	48·2	46·4	41·4	39·4	44·1
6	35·4	39·3	38·3	40·3	44·6	50·0	54·5	55·1	48·2	46·6	41·4	39·5	44·4
7	35·5	39·4	38·9	42·1	46·5	51·7	55·9	56·8	49·4	47·1	41·8	39·7	45·4
8	35·7	40·2	40·0	45·1	48·6	53·7	57·8	58·8	51·6	48·2	42·5	39·9	46·8
9	35·9	42·0	41·7	47·6	50·1	55·6	59·2	60·1	54·3	50·1	43·4	40·6	48·4
10	36·6	43·4	42·5	48·7	51·2	56·9	60·0	61·0	55·4	51·0	44·3	41·2	49·4
11	37·2	44·3	43·3	49·4	51·7	57·4	60·7	61·4	56·2	51·8	45·2	41·9	50·0
Noon	37·6	45·2	43·5	49·8	52·1	57·8	60·7	61·8	56·5	52·2	45·7	42·4	50·4
13h	37·9	45·3	43·7	49·9	52·0	58·1	60·6	61·8	57·0	52·2	46·0	42·6	50·6
14	38·0	45·3	43·7	50·4	52·4	58·3	60·3	62·1	57·0	52·4	45·8	42·7	50·7
15	37·9	44·8	43·7	50·1	52·1	58·0	60·0	61·5	56·6	52·0	45·5	42·4	50·4
16	37·7	44·2	43·2	49·5	51·6	57·7	60·1	60·9	55·9	51·5	45·1	42·1	50·0
17	37·4	43·5	42·8	48·7	51·1	57·3	59·6	60·7	55·0	50·8	44·7	41·7	49·4
18	37·3	43·0	42·2	47·9	50·4	57·0	59·1	60·1	53·9	50·2	44·4	41·4	48·9
19	37·2	42·4	41·9	46·8	49·4	56·0	58·4	59·5	53·0	49·6	44·1	41·3	48·3
20	37·1	42·0	41·4	45·7	48·5	54·9	57·7	58·7	52·3	49·1	43·5	40·7	47·6
21	37·0	41·7	40·8	44·6	47·8	54·0	57·0	57·7	51·8	48·6	43·2	40·2	47·0
22	36·9	41·6	40·4	43·8	47·0	53·2	56·4	56·8	51·1	48·2	42·8	39·9	46·5
23	36·5	41·4	40·1	43·2	46·4	52·5	55·7	56·2	50·6	47·5	42·6	39·7	46·0
24	36·4	41·1	39·9	42·6	45·8	51·8	55·2	55·5	50·1	47·2	42·2	39·5	45·6
Means { 0h.–23h.	36·6	42·1	41·1	45·5	48·3	54·2	57·5	58·2	52·6	49·1	43·4	40·7	47·4
1h.–24h.	36·6	42·1	41·1	45·5	48·4	54·2	57·5	58·2	52·5	49·1	43·4	40·7	47·4
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.	1914.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight	33·4	39·4	37·5	40·2	42·8	49·4	53·2	54·0	48·7	45·8	40·6	38·0	43·6
1h	33·3	39·1	37·2	39·9	42·6	49·5	52·8	53·9	48·3	45·5	40·6	37·8	43·4
2	33·3	38·9	37·1	39·7	42·4	49·0	52·6	53·5	47·5	45·3	40·4	37·7	43·1
3	33·1	38·6	37·0	39·0	42·1	48·6	52·1	53·0	47·2	45·6	40·1	37·8	42·9
4	33·0	38·1	36·6	38·7	41·9	48·1	51·8	53·0	47·1	45·4	40·1	37·6	42·6
5	33·4	37·8	36·2	38·3	41·9	48·1	52·1	52·9	46·7	45·4	39·8	37·7	42·5
6	33·6	37·4	36·4	38·7	42·2	48·6	52·5	54·0	46·6	45·6	39·7	37·9	42·8
7	33·6	37·3	37·0	39·8	43·4	49·2	53·0	55·0	47·4	45·8	40·0	37·9	43·3
8	33·8	38·1	37·7	41·5	44·4	50·0	54·2	56·3	48·7	46·5	40·6	38·0	44·1
9	34·0	40·0	38·7	42·6	44·8	50·8	54·6	56·6	50·5	48·0	41·4	38·8	45·1
10	34·6	40·8	38·8	42·9	45·5	51·3	54·9	56·4	50·3	48·2	42·1	39·2	45·4
11	34·9	40·9	39·2	43·1	45·4	51·1	54·8	56·0	50·2	48·2	42·2	39·6	45·5
Noon	34·6	41·0	39·1	43·1	45·3	50·7	54·0	55·7	49·6	48·0	42·2	39·6	45·2
13h	34·6	40·8	39·1	42·9	44·9	50·8	53·7	55·0	49·6	47·5	42·3	39·7	45·1
14	34·7	40·7	38·7	43·1	45·4	50·7	53·1	55·3	49·4	47·8	41·9	39·8	45·1
15	34·8	40·4	38·9	42·8	45·3	50·3	53·1	54·4	48·9	47·2	41·8	39·8	44·8
16	34·7	40·2	38·7	42·4	45·0	50·5	53·5	54·4	48·6	47·4	41·8	39·9	44·8
17	34·6	40·3	38·9	41·9	44·8	50·5	53·3	54·9	48·4	47·3	41·9	39·7	44·7
18	34·7	40·3	38·5	41·8	44·8	50·8	53·5	54·9	48·3	47·3	42·0	39·5	44·7
19	34·8	39·8	38·7	41·8	44·4	50·3	53·4	55·4	48·5	47·2	41·8	39·6	44·6
20	34·6	39·7	38·6	41·4	44·5	50·3	53·6	55·6	48·6	47·0	41·3	38·8	44·5
21	34·7	39·4	37·9	40·9	44·3	50·4	53·7	55·1	48·6	46·8	41·4	38·3	44·3
22	34·6	39·5	37·6	40·5	43·7	50·2	53·9	54·6	48·5	46·7	41·0	38·0	44·1
23	34·1	39·5	37·5	40·4	43·5	50·1	53·3	54·6	48·3	46·0	41·0	37·7	43·8
24	34·1	39·1	37·5	40·1	43·1	49·9	53·1	54·2	48·1	45·7	40·8	37·6	43·6
Means { 0h.–23h.	34·1	39·5	38·0	41·1	44·0	50·0	53·4	54·8	48·5	46·7	41·2	38·7	44·2
1h.–24h.	34·2	39·5	38·0	41·1	44·0	50·0	53·4	54·8	48·5	46·7	41·2	38·7	44·2

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.	1914.												Yearly Means.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight	85	87	86	85	82	87	85	90	87	91	90	89	87
1ʰ	87	87	86	85	85	91	86	92	88	92	91	88	88
2	88	89	85	88	86	91	87	94	88	92	91	88	89
3	87	90	87	89	87	93	88	93	90	94	90	89	90
4	87	89	88	90	88	94	88	93	91	94	90	89	90
5	88	89	87	90	88	94	90	93	90	94	90	89	90
6	89	88	88	90	85	90	86	92	89	93	89	90	89
7	89	86	88	85	81	83	80	87	87	92	88	89	86
8	88	88	86	78	74	75	76	83	81	89	87	89	83
9	89	86	80	69	67	70	70	76	75	85	87	88	79
10	87	84	78	65	64	65	67	70	67	81	87	86	75
11	86	79	76	62	62	61	62	65	62	77	82	85	72
Noon	82	73	73	59	58	57	58	60	57	72	77	82	67
13ʰ	80	72	72	58	58	55	56	58	56	70	76	82	66
14	80	72	69	57	58	54	55	57	55	70	75	82	65
15	81	73	70	56	58	53	56	57	54	69	76	84	66
16	82	75	73	58	59	57	58	58	57	74	79	86	68
17	83	81	76	60	61	57	60	63	59	76	83	87	71
18	84	83	77	64	65	61	64	67	65	81	85	87	74
19	85	83	79	69	68	65	67	73	71	84	86	89	77
20	86	85	81	73	75	71	73	79	75	86	86	88	80
21	86	86	81	77	78	76	77	83	79	88	88	89	82
22	86	86	83	81	79	80	82	86	82	90	88	89	84
23	85	87	85	82	81	84	83	88	85	90	90	88	86
24	86	86	86	85	83	87	85	91	86	90	90	88	87
Means { 0ʰ.–23ʰ.	85	83	81	74	73	74	73	77	75	84	85	87	79
Means { 1ʰ.–24ʰ.	85	83	81	74	73	74	73	77	75	84	85	87	79

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 1914.

Month, 1914.	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	..	..	..	..	..	1·1	2·6	3·5	5·3	4·9	1·8	0·7	..	..	..	..	19·9	258·6	0·077	18
February....	..	..	..	3·4	10·3	12·5	12·6	14·7	15·6	13·2	13·2	8·2	1·9	..	..	..	105·6	276·8	0·382	26
March	..	..	2·9	8·0	9·3	10·4	10·4	9·6	9·0	9·5	8·2	5·8	3·9	0·6	..	..	87·6	365·7	0·240	37
April	..	1·0	14·2	19·5	22·2	21·3	20·3	20·2	18·1	20·4	19·3	17·5	18·2	15·9	3·4	..	231·5	413·3	0·560	48
May	1·1	9·9	14·7	16·2	18·5	16·2	17·9	17·7	16·6	14·6	14·2	13·0	13·5	15·1	8·8	0·8	208·8	481·4	0·434	57
June........	3·4	14·1	15·9	17·8	18·6	20·8	20·6	19·8	19·1	20·4	19·3	18·3	18·1	19·3	15·6	5·4	266·5	494·5	0·539	62
July	2·4	8·9	11·1	12·9	13·7	12·9	14·0	13·7	11·4	12·0	12·5	13·6	14·9	12·8	9·2	3·0	179·0	497·9	0·360	60
August......	0·1	2·5	7·7	12·0	14·9	16·8	17·0	16·1	16·9	17·1	16·4	12·8	13·4	13·7	6·8	..	184·2	450·8	0·409	52
September ..	..	..	5·2	13·6	17·8	20·3	20·1	20·0	21·5	19·5	19·1	19·8	17·5	8·9	0·3	..	203·6	379·1	0·537	42
October	..	..	..	1·9	7·6	7·7	8·4	10·1	8·7	8·6	6·9	6·0	1·1	..	..	..	67·0	330·5	0·203	30
November ..	..	..	..	0·3	2·7	5·4	8·8	10·7	11·0	9·8	9·6	5·6	0·2	..	..	..	64·1	265·8	0·241	20
December ...	..	..	..	..	0·6	4·7	5·5	7·2	9·0	7·5	5·1	0·7	..	..	..	..	40·3	244·0	0·165	16
For the year	7·0	36·4	71·7	105·6	136·2	150·1	158·2	163·3	162·2	157·5	145·6	122·0	102·7	86·3	44·1	9·2	1658·1	4458·4	0·372	..

The hours are reckoned from *apparent* midnight.

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE, in the YEAR 1914.

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

JANUARY. / MARCH.

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				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		Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
1	36.5	27.3	28.2	31.5	36.5	35.2	26.9	29.4	33.9	33.6	1	52.5	41.9	46.0	49.8	51.4	42.6	43.8	42.8	43.9	40.5
2	45.2	34.0	34.9	40.8	43.6	42.4	33.9	38.3	40.4	40.4	2	46.8	33.6	37.2	42.6	44.8	41.1	35.0	38.0	38.3	38.0
3	44.3	37.2	38.7	42.6	42.3	42.6	38.5	40.4	41.8	40.2	3	47.5	36.2	40.9	45.7	46.8	43.5	38.9	41.6	41.8	40.8
4	49.0	36.1	43.1	47.3	48.5	45.6	41.7	44.6	45.8	43.3	4	53.4	43.1	49.1	51.6	52.7	50.6	47.0	49.0	49.8	49.0
5	49.8	36.7	44.3	41.5	40.6	37.2	42.9	39.4	38.0	35.5	5	52.9	49.0	50.6	51.6	49.7	50.9	48.1	48.4	47.7	49.2
6	40.1	33.9	36.6	38.7	38.7	35.4	34.5	36.1	35.8	32.7	6	57.0	46.6	51.6	55.8	54.9	46.8	46.9	44.8	48.3	41.9
7	38.2	29.1	29.8	35.5	38.2	36.9	28.2	32.3	34.8	34.6	7	47.1	40.1	42.8	42.6	44.8	45.5	40.8	41.4	43.6	44.0
8	50.2	36.9	41.7	47.3	47.4	50.0	40.3	44.7	46.0	49.2	8	53.0	44.7	51.6	52.7	51.3	49.4	49.5	50.3	49.8	48.3
9	55.4	50.0	54.0	54.9	54.6	51.4	52.6	53.1	53.0	50.0	9	49.7	34.1	39.7	40.1	37.0	36.6	39.3	39.8	36.4	36.0
10	54.0	50.3	51.1	52.7	52.7	51.8	50.8	51.3	50.8	50.9	10	46.0	34.2	38.6	42.4	43.5	34.5	35.8	38.2	37.9	32.9
11	52.7	32.7	33.3	34.2	33.3	32.7	31.3	31.4	30.8	29.8	11	46.1	29.3	34.6	41.2	44.3	36.9	32.4	36.8	37.3	34.8
12	34.0	29.3	31.3	29.6	30.2	32.1	28.3	28.5	28.3	29.5	12	57.5	37.0	48.8	53.4	55.6	47.7	47.4	50.7	49.3	44.6
13	36.0	32.1	34.1	34.7	35.1	34.4	32.8	32.8	31.9	31.7	13	55.0	41.2	47.6	51.6	54.1	50.7	47.0	50.7	50.8	47.7
14	35.2	32.1	34.3	33.6	33.6	34.6	31.8	29.8	29.8	32.1	14	53.9	44.7	47.8	48.4	50.4	47.0	45.7	44.4	44.1	43.6
15	37.8	31.2	34.6	36.3	37.4	37.3	32.3	35.1	36.0	35.6	15	51.0	44.4	48.3	48.6	46.7	49.9	42.4	43.2	45.8	47.3
16	40.8	35.1	36.1	38.5	39.7	37.6	35.1	36.7	37.3	36.1	16	50.0	41.1	43.8	43.6	42.6	41.6	39.9	41.1	40.0	37.0
17	41.5	34.1	37.1	39.0	40.6	34.6	36.1	37.3	37.8	33.4	17	50.7	35.2	41.6	48.6	48.5	40.7	37.8	41.9	41.5	39.0
18	37.8	31.8	35.0	35.9	35.3	35.2	33.5	33.3	32.4	33.4	18	49.1	35.1	39.8	42.8	46.3	35.1	38.3	38.5	38.7	33.9
19	35.8	31.3	32.6	32.8	32.7	32.6	30.5	31.0	30.0	31.6	19	46.3	32.0	37.1	40.8	44.8	37.8	36.3	39.1	41.8	36.4
20	34.6	31.8	31.8	32.8	32.9	33.5	29.4	29.3	29.2	31.2	20	39.2	32.9	36.4	37.0	34.7	38.8	35.9	36.6	34.3	36.8
21	35.1	31.4	31.8	33.1	33.7	33.2	29.9	30.3	31.1	32.0	21	45.7	31.9	37.8	40.4	42.6	39.7	36.2	38.0	40.6	36.6
22	37.0	31.1	32.4	34.8	34.6	32.5	30.5	32.0	31.5	30.1	22	50.2	29.1	42.1	47.4	48.6	37.8	39.6	40.4	41.9	36.6
23	36.8	22.0	23.1	34.0	35.5	24.2	22.8	31.7	32.3	23.9	23	50.2	32.6	41.8	48.6	45.6	44.8	39.9	44.0	43.6	41.6
24	38.1	19.9	26.6	35.5	35.8	33.9	26.5	32.8	33.8	32.9	24	53.1	35.4	47.8	47.4	48.2	41.3	44.0	44.0	44.4	39.5
25	41.2	33.8	38.8	38.4	37.1	41.1	38.1	37.8	36.1	38.9	25	53.9	34.7	43.7	49.4	49.4	41.1	40.3	42.8	43.6	39.6
26	45.0	37.8	42.8	43.9	44.2	37.8	42.7	42.6	41.8	36.7	26	51.7	39.9	43.1	46.8	50.2	42.6	41.1	42.6	42.9	39.8
27	43.0	33.0	34.7	40.4	41.0	37.6	33.8	37.5	38.4	36.8	27	47.5	37.1	42.1	45.2	45.2	37.6	39.8	40.5	41.5	35.6
28	49.0	37.3	42.4	46.3	47.9	44.1	41.8	44.5	45.0	43.0	28	56.8	27.8	46.7	53.0	51.6	42.3	42.7	46.8	45.0	38.4
29	52.5	44.0	47.1	51.2	50.4	46.8	45.0	46.3	46.9	45.4	29	51.2	42.1	48.3	49.6	47.2	48.7	43.8	43.5	46.5	41.7
30	51.4	45.9	48.1	50.6	49.8	47.0	46.8	48.9	48.7	45.3	30	54.0	39.9	50.2	51.5	52.4	52.7	47.4	49.8	50.5	50.5
31	50.3	43.2	45.0	49.9	48.1	48.9	42.9	46.0	45.8	47.5	31	65.3	49.0	56.7	63.4	64.3	49.7	50.7	53.6	53.1	43.8
Means	42.8	34.6	37.3	39.9	40.4	38.7	35.9	37.6	37.9	37.0	Means	51.1	37.9	44.3	47.5	48.1	43.3	41.7	43.5	43.7	40.8

FEBRUARY. / APRIL

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				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		Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
1	55.1	47.0	49.5	53.3	52.8	48.5	47.4	49.4	48.9	45.4	1	66.8	42.9	57.9	61.8	63.7	51.6	51.4	52.4	53.0	48.8
2	51.5	37.5	44.6	50.5	50.8	41.2	41.9	46.1	46.7	40.0	2	62.6	44.2	51.8	60.0	55.2	44.2	49.8	54.1	50.8	43.7
3	56.6	39.9	44.4	49.8	54.6	42.6	43.5	47.0	48.8	41.2	3	59.8	38.2	50.4	56.1	56.7	46.5	46.8	49.1	49.9	43.7
4	53.0	38.0	41.9	47.3	52.5	42.6	40.8	44.6	48.4	41.0	4	55.9	43.0	49.1	49.6	48.1	43.7	47.5	47.3	45.4	40.3
5	55.0	37.2	42.8	52.6	53.5	40.7	41.3	47.7	47.9	39.3	5	56.8	41.2	53.8	51.6	54.1	49.6	49.9	48.6	48.9	48.2
6	52.5	36.6	40.8	49.6	49.6	46.7	39.7	45.8	45.4	43.9	6	58.0	45.3	50.2	54.4	54.8	46.4	44.6	47.0	45.6	42.1
7	51.5	43.7	46.1	51.3	45.9	46.6	43.9	46.5	43.4	44.9	7	52.1	40.2	47.4	49.8	45.6	41.3	42.0	43.0	43.0	39.6
8	50.0	45.2	48.4	48.8	49.8	46.6	46.9	47.8	48.8	44.6	8	56.2	36.0	46.8	53.7	53.7	44.8	43.2	45.9	46.8	42.9
9	54.5	44.1	47.1	52.0	51.5	46.6	49.4	46.6	47.8	44.3	9	53.5	37.0	51.2	51.6	50.3	49.6	46.4	47.1	48.7	48.6
10	56.0	43.3	44.7	51.6	52.2	45.7	46.0	48.9	48.9	44.4	10	60.1	45.6	54.3	55.9	57.1	47.6	48.4	49.5	49.5	44.4
11	48.0	44.1	44.7	45.4	45.6	46.8	43.0	44.3	44.7	46.7	11	60.8	41.7	51.1	54.6	56.5	48.5	50.1	51.7	50.4	43.5
12	50.3	41.1	44.8	49.8	49.5	49.3	42.0	45.1	45.7	43.8	12	61.8	39.1	52.1	57.8	60.3	46.6	47.0	49.8	50.2	43.9
13	52.1	38.6	42.0	50.3	49.5	47.7	38.6	44.8	45.7	46.8	13	66.3	36.1	52.2	61.2	63.2	54.1	47.4	54.4	54.8	47.3
14	59.0	47.2	52.5	55.3	54.9	52.1	50.8	50.0	49.9	50.8	14	58.1	43.2	48.6	53.6	57.7	47.2	42.7	46.0	48.3	42.0
15	55.6	44.1	53.1	54.8	51.2	44.5	51.3	49.5	46.0	40.7	15	57.2	35.6	49.8	52.7	54.1	41.9	43.8	44.8	47.6	39.2
16	48.3	40.6	43.1	47.7	45.7	44.7	41.7	44.1	43.0	40.8	16	55.9	33.9	48.2	53.3	54.0	42.8	43.8	47.0	47.8	41.5
17	49.3	33.1	37.6	46.8	47.4	44.3	35.8	41.8	41.9	41.5	17	58.5	39.3	53.8	57.6	57.6	47.6	48.0	49.2	49.8	45.4
18	44.9	36.6	41.8	42.6	44.7	36.6	40.3	40.8	39.3	34.0	18	60.2	42.6	56.4	57.5	59.5	47.6	45.4	48.7	48.3	43.9
19	48.2	33.1	41.6	45.3	46.0	45.6	39.3	43.0	44.8	44.8	19	66.1	39.2	58.1	62.8	64.5	51.2	49.1	49.1	50.6	45.8
20	51.0	35.1	41.6	47.8	47.3	47.5	40.4	44.9	42.9	46.8	20	72.3	38.2	58.6	69.6	70.2	53.2	51.5	55.0	52.5	44.7
21	50.6	35.6	43.0	44.9	36.8	38.8	40.8	42.3	36.1	37.9	21	73.6	37.1	60.8	69.8	72.6	54.2	51.0	54.8	57.8	47.5
22	51.2	38.1	45.3	49.8	47.6	39.1	43.3	45.5	43.0	37.3	22	65.5	45.1	55.2	59.6	61.6	52.4	51.4	53.6	54.3	49.6
23	52.0	35.1	43.5	50.1	47.5	40.4	41.0	43.9	42.7	39.2	23	61.0	44.3	52.7	52.3	60.2	50.4	50.1	48.2	50.0	43.9
24	50.1	33.7	42.1	47.1	48.8	40.2	40.3	43.1	43.8	38.5	24	62.1	41.5	53.8	57.7	59.6	56.6	47.9	51.8	54.3	51.9
25	43.0	33.9	35.6	41.6	40.5	37.8	34.9	39.6	38.9	37.1	25	58.8	43.6	53.6	55.4	55.3	43.8	48.0	46.9	45.3	41.0
26	47.0	35.3	38.4	44.1	46.7	35.3	36.9	40.8	40.8	33.9	26	61.0	31.7	49.7	56.3	58.7	44.7	43.7	46.7	48.6	42.6
27	53.4	29.2	37.2	51.1	52.5	39.1	36.9	44.2	45.0	37.0	27	65.4	35.9	55.3	63.0	63.0	47.1	48.9	53.0	53.0	44.0
28	55.7	31.0	42.6	52.6	54.4	44.6	40.4	45.3	45.5	41.4	28	64.1	40.5	57.6	61.7	61.1	47.8	52.9	53.2	52.0	46.8
											29	69.6	44.3	49.5	63.8	68.1	52.8	49.2	56.7	58.1	49.0
											30	53.1	44.3	46.7	50.2	50.6	45.0	45.8	48.2	47.8	40.9
Means	51.6	38.5	43.7	49.1	48.9	43.6	42.0	45.2	44.8	41.7	Means	61.1	40.3	52.6	57.2	58.3	48.0	47.6	49.8	50.1	44.6

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 21ʰ.)

MAY.

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometer, 4 ft. above the Ground.			
	Maximum.	Minimum.	9ʰ	Noon.	15ʰ	21ʰ	9ʰ	Noon.	15ʰ	21ʰ
1	52·3	38·9	46·6	48·1	50·1	42·7	40·4	40·8	41·4	37·5
2	55·8	39·1	47·9	53·4	52·3	44·5	42·0	44·8	44·7	41·7
3	66·9	40·2	53·8	60·6	60·7	53·6	48·2	53·7	54·1	50·0
4	66·0	53·0	58·6	63·5	62·0	51·9	54·5	54·6	54·2	49·6
5	61·8	49·3	55·5	60·6	55·2	52·5	50·9	54·5	50·6	48·6
6	59·2	49·3	55·8	55·5	55·1	49·6	50·0	49·9	50·0	46·6
7	65·2	48·0	56·9	59·4	53·8	54·0	50·3	52·8	52·7	51·2
8	58·1	44·4	49·4	53·0	53·2	44·8	43·8	46·9	45·1	41·4
9	48·1	44·3	46·6	46·7	46·7	44·5	42·7	42·6	42·5	40·9
10	53·1	39·4	46·7	46·8	48·8	52·9	41·6	44·4	48·0	50·6
11	55·9	43·9	51·6	52·7	53·6	47·8	45·2	45·4	46·0	43·7
12	56·0	42·0	47·5	51·4	53·7	46·3	43·8	44·6	45·1	43·0
13	55·0	41·7	50·2	51·7	54·4	52·6	45·9	46·8	49·7	50·6
14	70·2	45·1	58·8	67·4	65·6	51·6	54·4	59·6	58·8	51·2
15	64·8	47·7	61·1	64·6	61·6	49·9	56·5	57·2	55·6	48·0
16	66·0	44·5	57·0	63·4	63·7	52·4	53·0	51·8	51·5	46·4
17	70·7	43·7	56·2	65·7	70·2	52·1	51·4	56·4	57·8	46·4
18	74·2	42·5	63·2	69·8	72·2	54·8	52·9	56·2	57·0	48·7
19	75·2	42·3	65·4	72·6	72·2	53·7	55·7	58·4	59·6	51·9
20	73·8	44·2	62·7	67·5	71·3	60·0	58·1	60·2	62·4	57·3
21	80·6	48·2	71·3	77·6	79·0	63·5	62·9	63·8	62·0	57·9
22	83·4	48·5	68·3	75·8	80·9	66·1	60·5	62·8	65·9	60·0
23	70·7	56·1	63·4	66·4	59·6	51·0	60·1	61·3	57·8	50·0
24	56·3	45·2	53·0	54·6	52·8	45·3	47·6	46·8	47·1	42·1
25	54·9	39·0	48·6	51·1	52·4	43·8	42·9	42·8	44·0	39·2
26	56·1	39·1	47·2	48·2	52·2	45·7	42·7	44·4	44·4	41·1
27	60·6	37·6	51·6	57·7	58·0	49·8	44·9	49·5	49·3	43·2
28	62·1	37·9	52·3	61·3	55·4	49·0	46·6	52·8	50·6	47·2
29	64·2	46·1	56·7	58·4	61·4	52·1	51·8	53·1	54·0	51·2
30	66·3	46·3	60·6	63·4	64·7	58·5	56·0	56·6	57·3	55·8
31	71·0	51·2	61·6	67·6	65·1	51·4	55·3	58·2	57·3	50·0
Means	63·7	44·2	55·7	59·9	59·0	51·2	50·1	52·1	52·1	47·8

JULY.

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometer, 4 ft. above the Ground.			
	Maximum.	Minimum.	9ʰ	Noon.	15ʰ	21ʰ	9ʰ	Noon.	15ʰ	21ʰ
1	92·1	58·1	78·3	87·8	89·4	73·8	67·8	72·2	70·8	65·8
2	79·9	64·0	69·0	73·4	73·7	64·5	64·8	65·8	66·8	61·0
3	76·1	54·0	64·7	59·5	55·2	56·6	62·9	57·1	53·9	52·9
4	76·8	54·0	63·2	71·7	74·8	57·4	56·4	60·4	59·4	50·7
5	70·9	45·2	66·5	65·7	63·9	55·7	58·3	60·1	57·6	55·2
6	70·0	53·0	55·1	63·4	62·4	55·4	53·8	56·6	56·2	52·6
7	72·7	49·5	61·4	65·8	67·9	57·2	55·0	57·6	58·6	53·5
8	73·1	51·9	62·0	66·4	69·6	61·9	61·4	63·2	63·9	59·5
9	75·9	56·6	63·5	69·8	74·2	63·1	56·1	59·8	63·1	59·3
10	78·4	51·6	70·4	76·3	76·4	62·0	63·9	65·4	63·3	58·6
11	81·8	57·2	67·4	79·6	79·5	66·0	64·6	69·4	67·3	63·0
12	78·1	58·2	72·3	74·6	65·7	65·8	65·9	66·1	64·1	64·3
13	81·5	58·3	66·2	77·9	80·0	66·0	63·0	66·4	66·1	61·5
14	83·8	56·1	74·0	80·2	75·4	66·9	65·1	67·3	60·2	61·8
15	72·8	57·2	61·5	69·2	69·2	58·7	58·0	59·6	58·9	56·7
16	72·3	53·1	63·8	69·0	66·1	61·8	57·8	59·6	58·6	57·0
17	78·2	55·0	65·0	70·9	73·6	63·4	58·3	61·2	63·4	58·6
18	80·0	53·0	68·4	75·0	73·0	64·7	62·7	65·0	64·0	60·4
19	77·2	60·2	71·8	73·8	71·4	65·6	63·8	66·1	63·4	62·8
20	78·0	62·6	67·1	74·6	72·6	64·1	64·4	65·3	65·4	58·9
21	76·1	58·4	68·2	74·4	70·8	63·2	60·4	63·6	62·8	60·9
22	74·9	54·9	72·8	67·1	59·2	58·1	64·8	61·8	56·6	54·4
23	66·4	51·1	57·7	61·8	62·7	58·6	52·6	53·8	55·2	56·1
24	66·9	56·3	61·5	62·1	62·3	57·6	56·2	54·4	55·8	52·7
25	67·0	52·4	58·8	60·6	62·0	55·8	52·7	51·0	51·0	49·5
26	65·0	50·8	54·8	60·2	59·3	53·3	48·6	51·3	52·2	50·4
27	66·2	50·1	55·5	58·9	62·4	59·8	51·6	52·7	54·4	53·8
28	69·1	55·2	62·8	66·0	66·0	59·3	56·2	56·6	56·8	54·6
29	63·1	48·6	59·0	59·6	60·7	56·5	54·1	54·2	54·8	53·3
30	71·3	49·8	59·5	65·9	67·0	54·3	52·8	56·8	56·6	51·5
31	72·7	48·1	67·9	70·3	68·0	60·4	60·1	61·6	58·6	56·9
Means	74·5	54·3	64·8	69·4	68·9	60·9	59·2	60·7	60·0	57·0

JUNE.

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometer, 4 ft. above the Ground.			
	Maximum.	Minimum.	9ʰ	Noon.	15ʰ	21ʰ	9ʰ	Noon.	15ʰ	21ʰ
1	62·3	44·7	54·9	56·7	60·9	51·7	47·5	47·8	50·1	47·0
2	68·0	46·2	58·7	66·6	63·2	56·8	52·4	58·6	57·8	53·0
3	68·0	46·9	56·7	62·7	66·4	52·0	49·6	52·7	54·6	51·0
4	73·6	45·6	62·2	69·8	67·7	51·8	56·3	61·4	58·6	48·2
5	59·6	47·3	55·0	53·9	50·4	53·2	50·1	50·0	49·4	50·4
6	59·5	48·1	52·5	53·4	57·6	55·3	49·9	51·5	54·6	53·4
7	58·0	46·1	52·4	48·6	52·5	46·4	46·9	47·1	49·4	43·9
8	57·0	40·3	51·8	51·4	53·4	47·7	46·9	46·9	48·4	46·8
9	65·6	43·0	54·6	58·4	63·4	53·1	50·0	51·6	53·4	48·5
10	65·8	47·1	58·5	65·3	63·9	55·2	52·1	56·0	54·6	50·8
11	69·8	50·1	62·8	66·6	63·7	52·8	54·9	55·0	52·4	52·4
12	71·1	52·2	56·0	61·1	68·9	61·0	55·2	57·7	62·1	59·4
13	77·6	55·3	60·7	74·4	73·8	62·7	58·4	61·3	60·8	55·6
14	74·5	53·1	66·6	71·6	66·4	62·9	61·8	64·8	64·3	60·1
15	76·3	50·8	63·1	72·8	71·7	60·3	58·1	62·7	59·7	53·9
16	64·8	49·2	55·4	59·9	58·6	56·7	51·5	54·8	55·0	53·7
17	72·6	45·5	61·9	67·8	71·6	59·3	56·6	60·6	62·6	57·1
18	81·5	48·6	68·6	74·6	76·7	61·0	62·0	64·0	64·8	58·4
19	83·4	52·4	69·9	77·0	78·6	59·8	62·8	65·8	65·8	59·2
20	75·8	54·1	60·8	69·8	74·5	59·7	59·0	63·0	64·8	54·9
21	70·2	54·2	57·9	64·1	65·5	55·6	57·4	58·3	55·2	51·4
22	72·8	48·3	61·7	69·6	68·8	57·1	55·0	56·9	56·7	53·0
23	65·3	52·1	52·6	62·3	61·2	56·6	51·7	56·5	53·2	50·6
24	72·9	45·7	60·6	68·2	67·5	65·3	54·6	57·3	58·3	59·8
25	77·2	53·0	64·3	66·8	74·8	61·1	59·8	61·1	62·0	54·0
26	72·2	47·2	65·8	70·6	69·4	56·5	58·3	58·8	57·6	51·7
27	80·8	45·8	66·6	75·3	79·6	64·0	58·3	61·0	62·8	56·8
28	80·3	56·1	68·6	74·0	78·1	66·0	58·8	57·6	58·3	57·0
29	81·9	54·4	73·3	78·1	77·6	67·6	65·6	67·4	67·1	64·4
30	88·1	56·5	78·6	83·8	86·0	70·0	67·5	65·2	67·0	62·9
Means	71·5	49·3	61·1	66·5	67·7	58·0	55·6	57·8	58·0	54·0

AUGUST.

Days of the Month.	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometer, 4 ft. above the Ground.			
	Maximum.	Minimum.	9ʰ	Noon.	15ʰ	21ʰ	9ʰ	Noon.	15ʰ	21ʰ
1	81·6	58·3	71·3	76·8	77·6	66·4	63·0	67·0	66·0	62·6
2	73·2	57·9	65·9	70·1	64·3	57·9	63·2	65·0	61·1	55·8
3	71·8	53·3	64·6	67·8	66·8	57·8	58·2	59·8	60·1	55·0
4	71·3	50·7	61·8	67·3	66·6	57·4	57·7	60·6	59·0	52·8
5	68·6	51·6	59·9	63·6	59·3	57·6	58·6	60·8	57·9	56·8
6	70·9	50·1	58·2	64·4	62·6	60·1	55·8	58·1	57·1	58·4
7	72·2	52·4	58·5	64·2	70·2	58·0	55·1	55·1	58·3	53·0
8	67·2	46·3	59·8	61·7	64·1	63·6	57·1	58·8	62·0	62·3
9	71·0	61·7	65·6	68·6	67·4	61·8	62·9	63·8	63·2	60·4
10	73·3	59·8	65·3	69·8	67·0	61·6	62·6	64·5	62·0	55·5
11	75·5	48·8	63·9	69·9	74·5	60·1	58·3	59·8	61·1	57·1
12	74·7	49·4	68·5	72·8	72·9	60·3	62·1	61·3	59·2	57·3
13	79·4	55·4	70·3	76·6	77·0	62·0	64·7	63·3	64·0	59·8
14	78·8	57·4	69·9	75·5	75·7	60·7	64·7	64·9	61·4	59·3
15	68·0	57·5	64·6	66·2	62·3	59·0	61·6	61·0	57·6	56·1
16	75·9	55·2	68·3	74·1	72·9	60·8	60·1	60·0	59·0	55·5
17	74·4	55·0	63·3	68·0	70·8	59·4	57·8	57·0	58·6	53·1
18	71·6	47·1	62·0	66·7	68·8	56·7	56·0	58·1	57·1	53·8
19	70·9	51·1	60·2	66·8	69·1	55·3	56·2	58·8	58·7	53·7
20	72·2	51·2	66·6	68·7	69·1	59·3	59·6	58·7	59·7	56·7
21	77·4	51·5	66·0	70·0	74·0	58·6	59·0	60·4	61·4	56·6
22	77·8	51·2	65·4	73·2	75·4	62·5	59·8	62·8	61·8	59·8
23	79·2	58·3	65·0	69·6	75·8	64·2	63·0	65·8	68·2	63·3
24	83·7	56·0	72·6	77·0	79·8	63·4	64·6	64·2	64·2	60·2
25	81·3	56·2	63·4	77·4	79·8	59·6	61·0	67·6	66·5	55·9
26	65·8	55·2	57·9	62·5	63·9	63·1	56·9	60·8	62·7	57·9
27	69·4	53·8	61·8	67·2	65·0	63·6	57·8	59·6	58·6	60·2
28	76·2	54·6	62·1	69·8	71·6	60·7	59·2	62·9	63·0	59·3
29	81·9	52·1	64·1	75·3	80·8	62·3	59·9	64·4	65·9	61·0
30	79·1	54·4	63·4	70·7	77·1	62·5	62·5	65·4	66·8	61·0
31	72·3	58·0	67·7	69·7	70·8	63·7	63·3	64·3	63·6	61·3
Means	74·4	53·9	64·4	69·7	70·7	60·6	60·1	61·8	61·5	57·7

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 Thermometer, 4 ft. above the Ground.			
	Maximum	Minimum	9ʰ	Noon	15ʰ	21ʰ	9ʰ	Noon	15ʰ	21ʰ
1	74.2	58.3	69.3	72.4	73.0	58.4	61.3	62.4	59.0	56.1
2	75.9	49.1	68.6	73.4	73.6	59.4	60.0	62.2	62.7	57.3
3	82.0	45.9	58.4	75.6	79.7	60.6	58.2	65.7	66.5	57.7
4	75.0	50.4	68.1	73.5	70.6	59.3	60.3	65.6	63.9	56.0
5	70.0	55.9	63.2	66.4	67.4	56.6	57.8	58.6	58.9	53.3
6	75.9	47.0	67.6	71.7	72.9	58.7	60.8	59.0	59.0	56.6
7	86.0	48.3	62.5	77.6	77.1	63.6	59.9	66.9	67.3	60.9
8	80.9	59.0	71.1	79.4	77.9	61.4	65.4	67.8	66.4	57.6
9	81.0	53.9	66.7	74.4	76.5	60.7	62.3	63.5	61.8	60.0
10	74.6	58.2	66.4	71.2	71.3	60.6	62.9	63.8	63.4	58.2
11	66.2	55.1	57.8	58.0	63.6	55.4	56.9	56.8	57.1	49.8
12	62.0	48.5	58.7	59.7	56.4	57.2	51.8	51.5	53.3	56.9
13	65.6	49.3	55.6	59.7	61.3	55.7	49.3	52.4	52.2	51.6
14	72.5	53.6	63.3	68.5	71.2	58.2	61.2	63.2	62.4	52.7
15	66.1	48.8	56.9	60.1	64.3	54.5	50.6	52.0	53.1	51.8
16	68.5	48.6	58.7	65.2	63.6	56.6	53.9	55.4	54.8	53.8
17	71.1	54.0	57.6	62.1	65.4	55.6	56.0	59.5	55.9	50.4
18	63.5	52.0	56.3	60.6	59.6	54.0	51.0	51.0	50.3	49.9
19	60.2	47.6	54.5	57.6	57.2	50.5	49.1	48.4	48.5	45.7
20	55.7	45.3	47.8	51.6	55.3	47.9	44.6	47.9	49.8	44.0
21	59.6	44.2	51.3	56.6	59.0	49.6	47.0	48.5	49.0	44.8
22	61.5	37.0	50.6	58.4	60.1	43.7	46.3	48.8	50.8	42.4
23	67.1	35.3	54.5	62.3	62.8	47.7	49.7	53.8	54.7	46.8
24	70.0	41.7	50.2	65.4	65.4	52.6	50.2	55.9	55.9	50.1
25	69.7	41.6	57.6	66.6	67.9	48.4	55.0	53.8	54.9	46.6
26	73.9	40.1	54.9	66.1	71.7	60.2	53.0	56.5	57.9	55.4
27	66.4	50.2	56.1	62.4	65.0	54.8	51.7	53.2	56.0	51.7
28	63.7	49.3	55.6	62.2	61.4	57.8	52.4	56.2	56.5	51.1
29	59.0	46.2	51.2	57.1	57.1	46.6	45.4	48.0	47.8	42.8
30	55.8	33.8	47.6	52.6	55.3	46.1	44.8	47.8	47.9	43.8
Means	68.9	48.3	58.6	64.9	66.1	55.1	54.3	56.5	56.6	51.8

OCTOBER.

Days of the Month	Maximum	Minimum	9ʰ	Noon	15ʰ	21ʰ	9ʰ	Noon	15ʰ	21ʰ
1	68.3	39.9	52.0	64.8	66.8	55.8	49.7	54.8	56.1	51.7
2	59.8	48.1	56.1	57.6	59.0	48.1	53.4	55.4	56.0	48.1
3	68.6	48.0	58.5	64.9	64.9	58.4	55.3	56.8	58.3	57.4
4	61.9	50.5	56.8	59.4	60.6	52.5	51.0	51.3	52.3	48.5
5	63.0	41.0	49.4	58.3	59.6	56.3	47.6	52.9	52.8	52.4
6	59.6	52.4	56.6	56.0	57.0	52.6	53.5	51.4	52.0	49.6
7	62.0	43.3	54.3	57.1	59.5	44.4	49.0	49.8	48.8	41.1
8	63.4	36.0	51.6	60.2	62.0	44.9	47.9	52.3	52.0	44.0
9	63.1	43.0	51.6	60.9	60.4	54.9	49.1	52.6	52.8	51.7
10	60.4	50.2	53.6	57.7	59.0	54.6	50.8	53.8	54.0	52.0
11	59.1	40.9	54.4	56.4	56.4	40.9	52.4	51.8	50.9	40.8
12	61.0	35.2	45.4	57.3	57.9	44.6	44.5	52.1	51.8	44.0
13	54.0	40.2	51.5	53.5	52.5	52.0	49.7	51.8	51.3	49.8
14	52.9	49.4	51.4	52.6	51.8	51.8	50.5	51.9	51.6	51.7
15	60.6	50.2	53.6	59.8	58.1	54.7	52.8	57.1	55.9	53.6
16	60.2	51.4	54.1	57.8	58.1	52.8	52.1	54.7	53.5	51.1
17	56.1	50.4	52.6	55.2	55.6	50.8	49.4	51.3	50.9	48.8
18	57.8	46.7	51.4	56.8	56.0	47.6	49.4	50.2	50.0	44.6
19	58.3	44.4	48.4	55.7	55.8	51.6	47.6	50.9	49.9	48.1
20	55.6	48.0	50.8	53.6	54.9	48.0	49.4	50.8	50.5	47.0
21	57.9	43.0	47.5	54.9	53.3	45.9	46.5	51.6	50.4	45.9
22	58.9	42.2	53.2	56.0	57.6	50.9	51.0	52.8	52.3	49.4
23	58.1	50.4	54.6	56.0	57.4	51.4	52.8	53.8	54.6	49.8
24	62.7	48.2	53.8	58.8	61.4	52.1	53.4	56.9	57.8	52.1
25	62.1	51.0	57.3	60.6	58.3	55.9	56.4	57.8	56.6	55.6
26	61.0	49.8	53.6	58.6	58.0	53.2	51.1	51.9	50.8	49.8
27	57.1	43.1	51.6	54.4	55.1	47.6	50.6	49.4	47.5	44.5
28	54.1	34.7	45.6	50.6	52.3	43.8	43.1	46.5	47.1	42.9
29	55.0	40.1	47.5	51.7	49.4	47.6	46.2	47.1	46.5	46.4
30	54.2	44.1	49.4	52.3	51.8	50.2	47.8	48.9	49.0	50.2
31	53.3	44.3	49.9	51.4	51.5	44.5	48.3	48.3	47.8	43.7
Means	59.4	45.2	52.2	56.8	57.2	50.3	50.1	52.2	52.0	48.6

NOVEMBER.

Days of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometer, 4 ft. above the Ground.			
	Maximum	Minimum	9ʰ	Noon	15ʰ	21ʰ	9ʰ	Noon	15ʰ	21ʰ
1	59.0	44.1	49.8	55.0	56.6	47.6	48.1	51.5	50.8	46.8
2	55.7	46.9	50.6	50.6	55.5	53.9	49.1	49.6	51.6	51.1
3	60.1	46.2	55.1	59.8	57.6	46.8	52.8	55.0	53.2	46.8
4	53.6	41.1	46.5	49.4	52.2	53.6	46.5	49.5	52.2	53.5
5	61.2	51.1	55.4	59.6	59.3	51.8	54.0	55.7	54.7	51.1
6	61.5	48.0	52.2	59.5	58.5	51.8	52.0	54.2	53.6	51.3
7	53.4	41.2	41.9	52.0	52.6	46.8	41.9	48.7	48.9	45.6
8	56.0	39.6	43.7	53.5	54.6	50.6	43.7	49.7	50.4	48.9
9	58.2	49.1	52.6	56.5	55.5	49.7	49.7	51.6	51.8	48.6
10	58.0	49.1	55.3	56.7	53.2	52.3	50.8	52.0	52.8	51.4
11	59.0	46.8	50.6	53.5	55.3	46.8	47.8	50.4	52.5	42.0
12	48.8	40.9	44.1	48.6	46.6	42.9	41.1	44.0	43.1	40.6
13	55.7	40.2	52.6	53.1	55.0	47.4	49.9	51.1	49.5	43.5
14	48.1	32.7	41.0	41.4	40.9	32.7	38.8	34.8	34.0	30.7
15	53.7	30.0	44.3	52.8	49.1	42.6	43.8	48.8	45.9	41.8
16	48.1	39.0	43.9	47.5	45.3	39.4	41.7	43.1	41.2	37.4
17	43.0	32.2	36.8	42.3	42.0	35.5	35.6	39.5	39.2	34.6
18	46.0	32.0	36.6	44.3	44.6	36.4	35.6	39.7	39.5	35.7
19	41.3	28.9	33.0	34.8	35.8	41.3	32.8	34.1	35.4	40.4
20	39.0	33.0	35.2	38.3	37.4	35.0	33.8	33.7	32.8	32.1
21	38.5	32.1	33.9	38.3	38.0	37.9	32.8	34.8	34.5	35.8
22	40.1	34.2	36.6	40.1	38.6	38.6	33.9	36.8	35.8	36.6
23	38.4	35.9	36.9	38.3	38.3	37.7	34.8	35.5	35.9	36.8
24	44.0	33.6	33.6	41.8	42.6	40.6	33.0	38.8	37.9	38.1
25	46.5	37.3	38.6	44.3	45.7	39.5	37.8	41.4	42.5	38.4
26	52.0	44.8	50.5	51.6	51.3	49.6	49.1	49.8	48.5	48.6
27	49.0	42.4	46.3	48.3	48.5	43.1	42.8	45.2	44.2	41.7
28	51.8	42.0	50.7	51.6	50.6	46.8	48.8	50.2	49.5	45.3
29	53.9	44.1	50.6	53.1	53.4	52.5	47.8	49.8	49.9	49.4
30	55.7	51.3	52.9	53.9	54.4	51.8	51.5	52.8	53.4	51.0
Means	51.0	40.7	45.1	49.0	49.0	44.8	43.4	45.7	45.5	43.2

DECEMBER.

Days of the Month	Maximum	Minimum	9ʰ	Noon	15ʰ	21ʰ	9ʰ	Noon	15ʰ	21ʰ
1	53.0	45.6	49.3	52.9	50.5	46.4	45.2	47.1	45.9	43.8
2	54.1	45.6	49.8	52.0	51.2	53.9	46.8	47.9	47.8	49.0
3	50.2	42.5	45.5	48.4	47.9	48.4	42.7	42.3	42.1	43.6
4	51.2	52.3	50.3	50.6	43.8	43.4	46.3	46.7	42.6	39.6
5	43.9	36.1	39.4	42.9	42.0	36.3	36.0	38.8	37.8	34.1
6	51.6	33.2	35.4	39.7	43.6	51.6	33.7	36.5	39.6	50.8
7	56.2	49.1	50.8	51.6	50.9	49.3	46.6	48.0	49.6	45.9
8	50.7	44.3	48.1	50.2	49.8	45.6	44.3	46.1	46.0	43.3
9	46.0	42.1	44.5	45.7	44.7	43.8	44.1	44.2	43.4	43.0
10	45.0	40.8	42.9	44.0	44.5	40.8	41.8	42.3	42.9	40.2
11	43.4	35.1	40.1	42.6	42.6	40.7	39.2	40.9	40.7	40.5
12	45.8	40.6	42.6	44.7	43.5	43.6	42.6	44.0	42.8	43.2
13	49.0	43.2	46.2	48.6	48.0	44.1	45.8	46.9	47.0	42.7
14	50.9	44.5	45.7	50.0	47.5	45.9	44.8	47.1	45.2	45.8
15	46.6	39.4	41.1	40.8	42.9	39.6	40.2	40.0	41.2	38.7
16	44.8	37.1	42.8	44.6	44.6	38.6	40.5	40.7	41.3	36.7
17	49.0	35.1	44.3	47.6	47.8	47.6	41.8	44.8	44.9	45.3
18	50.7	45.6	48.5	48.6	50.3	45.6	47.2	47.8	49.3	45.1
19	46.3	38.1	41.3	43.0	44.0	39.6	39.6	42.7	41.3	37.8
20	43.8	32.1	34.6	43.6	40.8	39.0	33.7	39.8	38.9	37.6
21	43.3	35.2	38.6	42.2	40.5	36.0	37.7	38.7	37.8	34.0
22	39.8	34.2	38.0	38.8	39.6	35.8	37.1	37.8	38.5	35.5
23	37.5	30.4	34.6	35.6	37.5	36.9	33.9	34.9	36.4	35.9
24	39.2	29.9	34.3	38.8	38.3	29.9	33.8	37.5	37.3	29.9
25	39.0	26.9	27.6	35.4	37.1	33.4	27.6	33.4	34.8	32.5
26	44.3	30.1	36.1	38.4	43.3	39.6	35.3	37.6	42.6	39.6
27	53.0	39.1	47.6	49.1	48.6	47.4	46.8	47.6	45.9	46.3
28	51.9	33.6	50.9	50.6	48.6	33.6	49.8	49.6	48.4	33.3
29	43.9	33.1	37.0	41.2	41.1	35.3	35.8	38.6	37.8	33.9
30	45.6	30.3	36.9	43.3	45.3	45.4	36.0	41.6	43.3	43.4
31	45.4	34.6	41.7	43.6	42.5	34.6	41.1	41.8	40.8	34.1
Means	46.9	38.1	42.1	44.8	44.6	41.7	40.6	42.4	42.4	40.2

AMOUNT of RAIN COLLECTED in each MONTH of the YEAR 1914.

MONTH, 1914.	Number of Rainy Days (0in.005 or over).	Monthly Amount of Rain collected in each Gauge.					Gauges partly sunk in the ground.		
		Self-registering Gauge of Osler's Anemometer.	Second Gauge at Osler's Anemometer.	On the roof of the Octagon Room.	On the roof of the Magnetic Observatory.	On the roof of the Photographic Thermometer Shed.	In Magnetic Pavilion Enclosure.	In Observatory Grounds.	In Magnetic Pavilion Enclosure.
		No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.
		in.	in.	in.	in.	in.	in.	in.	in.
January	13	0·205	0·135	0·324	0·318	0·414	0·504	0·433	0·467
February	14	1·256	1·132	1·635	1·967	2·340	2·440	2·296	2·455
March	26	1·806	1·829	2·862	3·339	3·779	3·928	3·779	3·902
April	12	0·556	0·477	0·771	0·950	1·098	1·110	1·125	1·120
May	10	0·921	0·971	1·343	1·499	1·590	1·631	1·616	1·642
June	9	0·809	0·917	1·139	1·366	1·398	1·338	1·418	1·323
July	17	0·901	0·853	1·291	1·385	1·452	1·409	1·440	1·354
August	11	0·787	0·788	1·085	1·161	1·218	1·174	1·221	1·131
September	6	0·388	0·364	0·575	0·685	0·712	0·732	0·725	0·695
October	10	0·456	0·530	0·745	0·884	0·946	0·957	0·930	0·945
November	18	1·396	1·412	1·977	2·163	2·483	2·616	2·514	2·582
December	27	3·349	3·434	4·288	4·933	5·693	6·018	5·526	5·891
Sums	173	12·830	12·842	18·035	20·650	23·123	23·857	23·023	23·507
Height of receiving Surface { above the ground	··	ft. in. 50. 8	ft. in. 50. 8	ft. in. 38. 4	ft. in. 21. 6	ft. in. 10. 0	ft. in. 0. 5	ft. in. 0. 5	ft. in. 1. 0
{ above mean sea level	··	ft. in. 205. 6	ft. in. 205. 6	ft. in. 193. 2	ft. in. 176. 4	ft. in. 164. 10	ft. in. 149. 6	ft. in. 155. 31	ft. in. 150. 1

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

Hour ending.	1914.												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	13·6	16·4	13·8	8·8	9·6	8·4	8·4	7·8	9·2	8·1	11·7	16·7	11·0
2	13·6	15·6	14·4	8·7	9·8	8·1	8·3	7·5	9·1	7·8	12·4	15·9	10·9
3	14·0	16·5	13·7	9·2	9·0	7·5	8·1	7·4	9·0	7·8	12·8	16·4	10·0
4	14·0	15·5	14·1	8·7	9·0	7·8	7·5	7·4	9·5	7·9	13·3	15·1	10·8
5	14·1	15·7	14·2	9·3	8·9	7·6	7·4	7·1	9·3	8·1	14·0	15·4	10·9
6	13·8	15·0	14·3	9·1	9·4	7·7	7·6	7·3	8·8	8·0	13·8	15·1	10·8
7	13·4	15·2	14·2	9·4	10·0	7·6	8·7	7·5	8·7	8·3	14·4	15·1	11·0
8	13·9	15·0	14·7	9·9	11·1	8·0	8·8	8·8	9·6	8·2	14·5	15·4	11·5
9	13·2	13·8	14·9	12·0	11·8	8·8	9·8	9·3	10·4	8·4	15·1	15·7	11·9
10	13·9	14·3	16·3	13·3	12·9	9·5	10·8	9·7	11·8	9·5	15·6	15·6	12·8
11	14·0	15·1	17·3	14·1	13·8	10·5	11·1	10·7	13·0	10·7	16·7	15·7	13·6
Noon.	14·5	15·7	17·3	15·1	14·2	11·7	11·1	11·9	13·3	11·1	17·7	15·6	14·1
13	15·3	16·4	18·4	15·6	14·6	11·2	12·7	11·9	13·4	11·7	17·9	15·9	14·6
14	16·4	16·3	18·7	16·2	15·3	11·1	13·5	12·6	13·9	10·8	17·8	16·0	14·9
15	16·3	15·4	18·0	17·2	14·9	10·8	13·5	12·5	14·0	10·5	16·7	16·3	14·7
16	15·3	15·2	18·6	16·8	14·1	11·7	12·6	12·2	14·2	10·3	16·1	15·0	14·3
17	14·7	14·6	18·7	16·1	13·8	11·0	12·5	11·7	14·0	9·8	15·1	14·8	13·9
18	14·7	14·1	17·1	15·2	13·7	10·8	12·6	11·3	13·1	9·5	13·9	15·2	13·4
19	14·7	14·2	15·5	12·5	12·8	10·7	11·4	10·5	12·0	9·1	13·9	15·3	12·7
20	15·3	14·3	15·5	11·8	11·5	10·9	11·2	9·6	11·8	10·0	13·4	15·7	12·6
21	14·4	14·9	15·1	11·3	10·7	9·3	10·3	9·6	11·3	9·6	12·6	16·7	12·1
22	14·3	15·1	14·2	11·0	9·9	8·7	9·4	9·0	10·7	8·6	12·3	15·8	11·6
23	14·3	15·6	13·8	9·7	9·0	9·1	9·6	8·7	10·1	8·8	12·0	16·4	11·4
Midnight.	14·4	16·1	13·9	9·9	9·5	8·7	8·9	8·2	9·9	8·5	12·4	16·5	11·4
Means	14·4	15·3	15·7	12·1	11·6	9·5	10·2	9·5	11·3	9·2	14·4	15·6	12·4
Greatest Hourly Measures { (1)	37	42	44	44	35	26	31	25	37	25	40	55	··
{ (2)	29	32	33	33	27	21	25	21	29	21	31	41	··

(1.) Deduced from the motion of the cups by the formula $V = 3\,v$;

(2.)   ,,   ,,   ,,   ,,   ,,   ,,   ,, $V = 2\,v + 4$;

where v is the hourly motion of the cups in miles. See Introduction.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

LUMINOUS METEORS.

1914.

Month and Day, 1914.	Greenwich Civil Time.	Observer.	Brightness of Meteor in Star Magnitudes.	Colour of Meteor.	Duration of Meteor in Seconds of Time.	Appearance and Duration of Train.	Length of Meteor's Path in Degrees.	Path of Meteor in the Sky.
	h m s				s		°	° ° ° °
March 17	21. 21. ±	SS	>1	White	4·0	Faint	25	261 + 86 to 221 + 62
April 20	20. 15. 1	D	2	White	0·4	None	14	258 + 47 to 238 + 49
,,	20. 25. 14	D	2	Yellow	0·4	None	14	225 + 72 to 204 + 62
,,	20. 32. 30	D	1	Blue	1·5	2 secs.	31	213 + 52 to 163 + 52
,,	21. 50. 30	D	1	White	0·3	None	11	262 + 33 to 254 + 41
,,	22. 25. 44	M	1	Blue	1·0	None	28	219 + 88 to 203 + 60
,,	22. 46. 41	D	1	White	0·5	None	19	279 + 39 to 301 + 47
,,	22. 56. 13	D	2	White	0·3	None	10	262 + 46 to 267 + 56
,,	22. 58. 37	N & D	1	Bluish-white	1·0	None	22	213 + 47 to 183 + 63
,,	22. 59. 13	N,D & AB	>1	White	2·0	Faint	15	281 + 39 to 300 + 45
,,	23. 5. 31	N & D	1	White	3·0	1·5 secs.	56	213 + 37 to 153 + 16
.,	23. 24. 23	N	3	White	1·5	Faint	28	219 + 27 to 225 + 55
,,	23. 28. 22	D	2	White	0·3	None	15	177 + 54 to 202 + 54
,,	23. 33. 33	D	2	White	0·3	None	24	245 + 46 to 210 + 46
,,	23. 35. 44	D	2	White	0·3	None	22	198 + 54 to 215 + 36
,,	23. 41. 44	D	2	Bluish-white	0·3	None	16	210 + 17 to 203 + 0
,,	23. 42. 24	D	2	Yellow	0·3	None	29	207 + 19 to 177 + 15
April 21	0. 10. 30	D & M	3	Yellow	0·3	None	3	225 + 38 to 222 + 37
,,	0. 40. 26	D & M	3	Bluish-white	0·3	None	11	264 + 57 to 248 + 65
,,	0. 54. 14	M	2	White	0·5	None	16	210 + 18 to 194 + 12
,,	1. 28. 52	D & M	3	Bluish-white	0·3	None	14	252 + 49 to 231 + 55
,,	1. 39. 14	D & M	2	White	0·3	None	13	243 + 32 to 228 + 27
,,	1. 42. 55	M	3	White	0·4	None	20	279 + 38 to 255 + 33
,,	1. 49. 44	D	3	White	0·2	None	16	261 + 47 to 258 + 31
,,	2. 24. 55	D	2	Blue	0·3	None	16	202 + 52 to 175 + 51
,,	2. 41. 48	D	2	Blue	0·2	Faint	16	231 + 26 to 216 + 18
,,	2. 47. 30	D	2	Bluish-white	0·2	None	12	222 + 35 to 210 + 28
,,	2. 47. 59	D	1	White	0·5	Faint	24	246 + 52 to 206 + 53
,,	3. 3. 37	D	1	White	0·3	None	0	Stationary at 284 + 11
,,	3. 7. 39	D	3	White	0·2	None	12	286 + 35 to 299 + 39
,,	3. 11. 39	D	2	Blue	0·7	Faint	18	286 + 31 to 295 + 15
,,	3. 15. 34	D & M	2	Blue	2·0	None	57	208 + 32 to 262 + 6
,,	3. 25. 12	D	3	Yellow	0·2	None	10	291 + 27 to 281 + 33
,,	3. 36. 29	D	2	White	0·3	None	11	265 + 27 to 254 + 31
,,	3. 50. 10	D & M	1	Bluish-white	0·5	None	14	224 + 62 to 192 + 64
,,	20. 15. 1	S	2	Bluish-white	0·4	None	11	264 + 56 to 250 + 67
,,	20. 26. 13	D	3	White	0·3	None	12	175 + 15 to 175 + 3
,,	20. 31. 33	AB	2	White	0·7	Slight	22	200 + 57 to 183 + 78
.,	20. 40. 8	S	2	Bluish-white	0·5	None	11	248 + 65 to 258 + 74
,,	20. 48. 52	S	2	Yellow	0·4	None	9	230 + 57 to 215 + 64
,,	21. 28. 47	S	2	Yellow	0·5	None	23	220 + 37 to 198 + 55
.,	21. 36. 52	S & AB	1	White	0·8	None	22	153 + 63 to 108 + 58*
,,	22. 29. 37	S	2	Blue	0·6	None	22	248 + 58 to 203 + 63
,,	22. 33. 33	AB	2	White	1·3	None	29	210 + 65 to 153 + 55
,,	22. 45. 16	S	2	White	0·6	None	11	275 + 57 to 269 + 68
April 22	0. 48. 19	S	2	White	1·0	None	10	231 + 44 to 216 + 46
,,	1. 7. 7	S	1	Reddish	0·8	Slight	22	201 + 52 to 168 + 68
,,	20. 46. 59	S	2	White	0·5	None	15	168 + 35 to 173 + 50
,,	20. 49. 35	D	2	Yellow	0·7	Faint	17	251 + 36 to 234 + 27
,,	20. 59. 46	S	2	White	0·3	None	7	170 + 22 to 168 + 16
,,	21. 6. 14	D	2	Blue	0·5	Slight	12	221 + 27 to 219 + 15
,,	21. 11. 20	D	3	White	0·3	None	15	179 + 38 to 175 + 23
,,	21. 18. 6	D & S	2	White	0·5	None	13	218 + 30 to 230 + 38
,,	21. 38. 47	S	2	White	0·6	None	18	171 + 23 to 153 + 33

The time is expressed in civil reckoning, commencing at midnight and counting from 0ʰ to 24ʰ.   * Path curved.

Month and Day, 1914.	Greenwich Civil Time.	Observer.	Brightness of Meteor in Star Magnitudes.	Colour of Meteor.	Duration of Meteor in Seconds of Time.	Appearance and Duration of Train.	Length of Meteor's Path in Degrees.	Path of Meteor in the Sky.
	h m s				s		°	° ° ° °
April 22	21. 38. 56	S	1	Bluish-white	1·5	Slight	14	192 + 67 to 162 + 75
,,	21. 48. 35	D	2	White	0·3	None	8	201 + 56 to 210 + 64
,,	22. 4. 33	S	2	Yellow	0·4	None	23	153 + 18 to 169 + 35
,,	22. 7. 7	M	1	Bluish-white	1·0	Faint	32	203 + 53 to 221 + 25
,,	22. 22. 52	D	2	White	1·2	None	18	205 + 18 to 203 + 0
,,	22. 41. 15	D	3	White	0·3	None	8	237 + 16 to 231 + 10
,,	22. 53. 31	D	3	Bluish-white	0·3	None	8	234 + 15 to 239 + 9
,,	23. 26. 20	D	2	White	0·3	Faint	7	216 + 21 to 222 + 26
,,	23. 37. 29	D	3	White	0·3	None	12	233 + 11 to 235 -- 1
,,	23. 38. 10	D	3	White	0·5	None	16	200 − 11 to 188 − 22
,,	23. 44. 54	D & S	2	White	0·5	None	23	194 + 39 to 180 + 20
April 23	0. 4. 38	S	1	Yellow	1·2	Slight	26	248 + 32 to 222 + 22
,,	0. 36. 6	D & S	1	White	0·7	Slight	62	210 + 19 to 278 + 44
,,	0. 40. 26	S	3	Yellow	0·4	None	15	156 + 55 to 131 + 63
,,	0. 46. 35	S	1	White	0·4	None	25	162 + 57 to 125 + 45
,,	1. 4. 35	D	2	White	0·4	None	11	252 + 6 to 245 − 3
,,	1. 15. 6	D	2	White	0·2	None	10	281 + 26 to 281 + 16
,,	1. 30. 19	S	2	Blue	0·4	None	17	297 + 57 to 264 + 56
,,	2. 2. 48	S	2	Yellow	0·5	None	12	155 + 63 to 131 + 58
,,	2. 25. 25	S	2	Bluish-white	0·5	Slight	16	321 + 63 to 333 + 48
,,	2. 28. 26	D	1	White	0·3	Faint	9	239 + 13 to 234 + 6
,,	2. 33. 23	D & S	2	Bluish-white	0·4	None	29	250 + 38 to 218 + 30
,,	2. 39. 52	D	2	Bluish-white	0·2	None	2	221 + 26 to 221 + 24
,,	2. 42. 58	D & S	2	White	0·5	Faint	21	254 + 31 to 254 + 10
,,	2. 46. 8	D	3	Yellow	0·5	None	18	254 + 10 to 243 − 5
,,	2. 48. 15	S	2	White	0·4	None	21	255 + 20 to 273 + 33
,,	2. 51. 20	D	1	White	0·3	None	28	264 + 50 to 219 + 68
,,	2. 55. 4	S	1	Blue	1·0	Slight : 0·3 secs.	44	228 + 33 to 281 + 34
,,	2. 57. 11	D	1	Bluish-white	0·5	Bright : 0·5 secs.	18	248 + 22 to 231 + 30
,,	2. 57. 57	D	2	Blue	0·4	None	18	242 + 41 to 218 + 39
,,	2. 58. 14	D	2	Bluish-white	0·3	None	17	240 + 63 to 203 + 65
,,	3. 3. 52	S	2	White	0·4	None	24	230 − 9 to 243 + 12
,,	3. 5. 27	D	3	White	0·3	None	20	252 + 64 to 210 + 79
,,	3. 13. 46	D	1	White	0·3	None	13	219 + 14 to 213 + 3
,,	3. 25. 10	D	2	Bluish-white	0·3	None	12	251 + 19 to 243 + 10
August 10	21. 12. 14	S & M	2	White	0·6	None	8	324 + 63 to 342 + 66
,,	21. 23. 5	S & M	2	Bluish-white	0·4	None	11	104 + 62 to 87 + 71
,,	21. 28. 28	S & M	1	Blue	0·7	Slight	16	205 + 17 to 219 + 27
,,	21. 31. 11	M	2	Bluish-white	0·6	None	23	308 + 43 to 325 + 64
,,	21. 34. 38	M	2	White	0·5	None	12	87 + 68 to 51 + 73
,,	21. 36. 14	S & M	2	Blue	1·0	Slight	29	267 + 7 to 297 + 8
,,	21. 40. 45	S	3	Yellow	0·4	None	21	275 + 8 to 297 + 8
,,	22. 4. 52	S	2	Blue	1·5	Slight	66	200 + 42 to 300 + 47
,,	22. 9. 22	M	3	Bluish-white	0·4	None	21	273 + 43 to 245 + 52
,,	22. 12. 12	S & N	2	White	0·6	None	21	301 + 39 to 315 + 59
,,	22. 20. 5	N	2	White	0·5	None	16	313 + 48 to 333 + 42
,,	22. 23. 24	M	2	Yellow	0·6	None	24	33 + 63 to 69 + 48
,,	22. 34. 54	N	1	Yellow	0·7	Bright : 0·2 secs.	23	33 + 66 to 323 + 78
,,	22. 40. 34	S	2	White	0·5	None	18	215 + 22 to 230 + 34
,,	22. 56. 59	M	2	Bluish-white	0·5	None	24	259 + 42 to 290 + 54
,,	23. 25. 58	N & S	1	White	0·5	Bright : 0·5 secs.	32	318 + 48 to 273 + 43
,,	23. 38. 30	S & M	2	Bluish-white	0·6	None	36	263 + 58 to 175 + 72
,,	23. 48. 46	S & M	1	Yellow	0·5	Faint	12	198 + 55 to 183 + 62
,,	23. 54. 56	S	1	Blue	0·8	Faint	18	191 + 67 to 193 + 85

The time is expressed in civil reckoning, commencing at midnight and counting from 0ʰ to 24ʰ.

Month and Day, 1914.	Greenwich Civil Time.	Observer.	Brightness of Meteor in Star Magnitudes.	Colour of Meteor.	Duration of Meteor in Seconds of Time.	Appearance and Duration of Train.	Length of Meteor's Path in Degrees.	Path of Meteor in the Sky.
	h m s				s		°	
August 11	0. 9. 56	S	1	Green	0·8	Bright : 0·5 secs.	31	336 + 47 to 27 + 62
,,	0. 14. 44	M	2	Yellow	0·5	None	17	45 + 77 to 53 + 61
,,	0. 23. 11	S & M	3	White	0·4	None	14	246 + 64 to 270 + 56
,,	0. 53. 45	S	1	Bluish-white	1·0	Faint	56	8 + 58 to 290 + 38
,,	0. 58. 38	S	1	Reddish	0·5	Slight	23	351 + 59 to 318 + 46
,,	1. 17. 6	S	2	White	0·6	None	14	2 + 59 to 21 + 49
,,	1. 25. 2	M	3	White	0·4	None	8	264 + 68 to 270 + 60
,,	1. 53. 55	S	2	White	0·5	None	20	345 + 87 to 205 + 73
,,	2. 7. 13	S	1	Bluish-white	0·9	Faint	25	211 + 78 to 186 + 55
,,	2. 15. 27	M	3	Blue	0·5	None	18	339 + 74 to 21 + 62
,,	2. 22. 52	S	2	White	0·9	None	40	320 + 34 to 2 + 62
,,	2. 28. 57	S	2	White	0·7	None	16	344 − 12 to 354 + 1
,,	2. 29. 19	M	2	Yellow	0·6	None	15	279 + 18 to 293 + 25
,,	2. 56. 24	S & M	1	Reddish	0·4	Faint	16	70 + 47 to 92 + 45
,,	3. 12. 23	M	2	Bluish-white	0·6	None	17	57 + 39 to 33 + 42
,,	3. 21. 51	S	3	White	0·4	None	21	300 + 40 to 326 + 37
,,	21. 28. 45	AB	1	Yellow	1·5	Bright : 6 secs.	43	299 + 7 to 261 − 14
,,	21. 44. 19	D	2	White	0·5	None	17	164 + 86 to 165 + 69
,,	21. 54. 27	D	2	White	0·3	None	14	332 + 56 to 359 + 59
,,	21. 54. 45	D	2	White	0·3	None	24	332 + 56 to 311 + 37
,,	21. 55. 4	D	1	Yellow	0·5	2 secs.	27	312 + 54 to 279 + 39
,,	21. 59. 36	AB	1	Yellow	0·5	0·3 sec.	33	309 + 8 to 278 − 5
,,	22. 7. 54	D	2	White	0·5	None	12	311 + 87 to 230 + 77
,,	22. 9. 0	D	3	Bluish-white	0·4	None	23	245 + 59 to 278 + 49
,,	22. 21. 49	D	2	White	0·4	None	24	270 + 30 to 249 + 15
,,	22. 52. 17	AB	2	White	0·3	None	28	219 + 72 to 254 + 48
,,	22. 57. 24	D	2	· White	0·7	Faint	14	83 + 88 to 227 + 79
,,	22. 58. 35	D	2	Bluish-white	2·2	None	16	54 + 46 to 77 + 45
,,	23. 5. 29	AB	1	Reddish	0·8	Faint	28	278 + 37 to 254 + 20
,,	23. 8. 28	D	2	White	0·2	None	15	32 + 41 to 41 + 28
,,	23. 13. 54	D & AB	1	White	0·5	Slight	25	354 + 56 to 317 + 46
,,	23. 17. 51	AB	2	White	0·4	Slight	24	203 + 48 to 213 + 25
,,	23. 23. 19	AB	2	White	0·3	None	21	269 + 28 to 251 + 15
,,	23. 24. 27	D	2	Bluish-white	0·7	Bright : 1 sec.	21	314 + 41 to 293 + 25
,,	23. 25. 3	D	1	White	0·5	None	23	296 + 8 to 279 − 9
,,	23. 25. 36	D	3	White	0·2	None	8	2 + 58 to 17 + 61
,,	23. 33. 28	D	3	White	0·3	None	16	0 + 58 to 332 + 57
,,	23. 41. 14	AB	1	White	0·3	None	18	282 + 5 to 266 − 3
,,	23. 44. 43	AB	2	White	0·5	None	27	243 + 70 to 209 + 48
August 12	0. 8. 34	D	3	White	0·2	None	18	233 + 26 to 219 + 15
,,	0. 23. 9	AB	3	White	0·2	None	13	272 + 27 to 285 + 33
,,	0. 26. 11	D	1	Yellow	1·2	Faint	27	348 + 64 to 323 + 45
,,	0. 28. 8	D	2	White	0·3	Bright : 0·7 sec.	17	8 + 64 to 338 + 79
,,	0. 28. 28	D	3	White	0·3	None	7	323 + 80 to 282 + 80
,,	0. 37. 46	AB	1	White	0·5	Slight	26	353 + 86 to 212 + 68
,,	0. 41. 38	AB	3	White	0·3	None	31	281 + 42 to 243 + 66
,,	0. 48. 52	AB	1	White	0·5	Faint	18	200 + 77 to 173 + 61
,,	0. 54. 13	D	>1	Reddish	0·5	None	24	269 + 23 to 258 + 1
,,	0. 56. 18	AB	1	White	0·3	None	23	8 + 55 to 327 + 55
,,	1. 3. 58	D	3	White	0·3	None	18	353 + 58 to 324 + 51
,,	1. 25. 43	D	2	White	0·3	None	15	296 + 46 to 278 + 39
,,	1. 27. 33	D	2	White	0·3	None	17	332 + 58 to 335 + 41
,,	1. 27. 55	D	3	White	0·3	None	15	345 + 89 to 225 + 77
,,	1. 29. 4	D & AB	2	Bluish-white	0·3	None	23	308 + 36 to 282 + 29
,,	1. 33. 32	D	3	White	0·3	None	8	261 + 65 to 246 + 61
,,	1. 36. 4	AB	3	White	0·3	None	21	8 + 55 to 332 + 53
,,	1. 38. 16	D	1	Yellow	0·7	None	13	321 − 6 to 311 − 14
,,	1. 42. 5	D	2	White	0·3	None	18	8 + 55 to 341 + 49
,,	1. 43. 17	AB	3	White	0·2	None	44	332 + 54 to 267 + 43
,,	1. 51. 11	D	3	Yellow	0·3	None	15	345 + 89 to 225 + 77

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	h m s				s		°	° ° ° °
August 12	1. 52. 38	D	2	White	0·2	None	11	233 + 73 to 233 + 62
,,	1. 56. 53	D	2	White	0·3	None	16	0 + 85 to 255 + 76
,,	2. 1. 20	D	3	Bluish-white	0·4	None	19	299 + 62 to 303 + 43
,,	2. 10. 10	AB	1	Yellow	0·5	Slight	11	18 + 58 to 36 + 54
,,	2. 19. 21	AB	3	White	0·2	None	17	299 + 46 to 309 + 31
,,	2. 33. 24	AB	3	White	0·3	None	23	333 + 64 to 20 + 57
,,	2. 51. 26	D	3	Bluish-white	0·3	None	13	325 + 42 to 308 + 37
,,	2. 54. 25	D	1	White	0·3	Bright : 1·0 sec.	20	2 + 62 to 2 + 82
,,	2. 58. 32	AB	1	White	0·7	Slight	35	2 + 59 to 308 + 46
,,	3. 5. 58	AB	3	White	0·4	None	15	29 + 62 to 47 + 54
,,	20. 44. 58	S	2	White	0·5	None	35	2 + 58 to 312 + 43
,,	21. 8. 36	S	1	White	0·5	None	26	282 + 37 to 314 + 46
,,	21. 15. 37	S & AB	2	White	0·3	None	32	267 + 51 to 282 + 22
,,	21. 22. 57	S	1	Bluish-white	0·5	None	24	318 + 62 to 293 + 45
,,	21. 23. 0	AB	1	Yellow	0·4	None	40	303 + 13 to 261 + 19
,,	21. 34. 53	S & AB	1	White	0·6	Slight	26	279 + 38 to 267 + 15
,,	21. 46. 5	S	1	White	1·0	None	29	296 + 45 to 336 + 58
,,	21. 49. 14	AB	1	Yellow	0·6	Faint	17	48 + 58 to 27 + 72
,,	21. 49. 56	S	2	White	0·4	None	17	318 + 62 to 357 + 62
,,	21. 55. 17	S & AB	1	Bluish-white	1·2	Bright : 0·7 sec.	34	299 + 9 to 266 + 18
,,	21. 59. 18	AB	1	White	1·5	Bright : 0·8 sec.	29	281 + 38 to 245 + 35
,,	22. 6. 55	AB	3	White	0·3	None	13	293 + 41 to 291 + 28
,,	22. 9. 7	S	2	White	0·3	None	15	2 + 58 to 333 + 58
,,	22. 9. 46	S	>1	White	0·7	Faint	16	164 + 57 to 192 + 57
,,	22. 9. 52	S	1	White	0·6	Bright : 0·3 sec.	20	183 + 72 to 22 + 89
,,	22. 10. 7	AB	2	White	0·4	None	34	291 − 1 to 264 + 19
,,	22. 29. 44	AB	2	White	0·5	None	18	14 + 58 to 9 + 76
,,	22. 30. 18	AB	1	Yellow	0·8	Bright : 5 secs.	36	257 + 83 to 219 − 49
,,	22. 31. 7	S	3	Bluish-white	0·3	None	15	27 + 63 to 357 − 58
,,	22. 36. 4	S	2	Bluish-white	0·5	Faint	26	311 − 47 to 290 + 28
,,	22. 36. 4	S	2	Bluish-white	0·5	Faint	24	308 + 45 to 288 + 27
,,	22. 37. 54	S	3	White	0·3	None	14	303 + 52 to 327 − 57
,,	22. 38. 40	S	2	Blue	0·6	None	15	263 + 13 to 266 − 28
,,	22. 48. 26	N & S	1	White	0·4	Slight	21	165 + 75 to 198 − 59
,,	22. 51. 49	AB	1	Yellow	0·8	Bright : 0·5 sec.	68	183 + 63 to 308 − 40
,,	23. 4. 33	AB	1	Yellow	1·5	Bright : 1·5 sec.	22	344 + 28 to 318 − 28
,,	23. 11. 36	S	2	White	0·9	None	22	344 − 28 to 357 − 46
,,	23. 17. 18	S	1	White	0·3	None	9	3 + 28 to 8 − 36
,,	23. 23. 11	S & AB	3	White	0·5	None	19	303 + 40 to 282 − 52
,,	23. 37. 12	S	3	White	0·2	None	8	39 + 48 to 50 − 49
,,	23. 46. 42	AB	2	White	0·3	None	21	245 + 33 to 269 + 28
,,	23. 48. 59	S	2	White	0·3	None	16	315 + 38 to 296 + 46
,,	23. 56. 53	S	>1	White	2·5	Bright : 1·5 sec.	25	281 + 38 to 258 + 23
August 13	0. 3. 39	S	3	White	0·2	None	10	42 + 52 to 29 + 48
,,	0. 13. 51	S	2	Bluish-white	0·4	None	24	348 + 86 to 224 + 72
,,	0. 54. 28	AB	1	White	0·8	Slight	28	237 + 74 to 282 − 53
,,	1. 0. 35	S & AB	1	White	0·4	None	18	236 + 72 to 249 + 55
,,	1. 0. 38	S	1	White	0·4	None	16	318 + 35 to 300 + 40
,,	1. 20. 41	S & AB	>1	White	1·2	Bright : 1 sec.	47	333 + 58 to 272 + 35
,,	1. 28. 30	AB	2	White	0·3	None	13	318 + 32 to 326 + 21
,,	1. 28. 45	AB	2	Yellow	0·6	None	35	266 + 64 to 227 + 37
,,	1. 38. 59	S	1	White	1·0	Slight	25	296 + 8 to 312 + 28
,,	1. 49. 44	S	2	Bluish-white	0·2	None	9	353 + 85 to 18 + 77
,,	1. 49. 46	AB	3	White	0·3	None	13	314 + 27 to 311 + 14
,,	1. 55. 31	S	2	Yellow	0·6	None	22	54 + 42 to 30 + 57
,,	2. 7. 10	S	1	White	1·0	None	25	50 + 46 to 15 + 58
,,	2. 13. 15	S	2	White	0·4	None	19	236 + 72 to 245 + 53
,,	2. 19. 22	S & AB	3	White	0·3	None	14	320 + 32 to 332 + 41
,,	2. 31. 19	AB	3	Bluish-white	0·7	None	19	14 + 39 to 32 + 52

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	h m s				s		°	° ° °
August 13	2. 37. 43	S & AB	2	White	0·2	None	18	32 + 21 to 51 + 22
,,	21. 0. 0	D	3	White	0·2	None	19	300 + 46 to 327 + 46
,,	21. 13. 36	D	2	White	0·3	None	25	273 + 60 to 318 + 56
,,	21. 13. 38	D	1	White	0·4	Bright : 1·5 sec.	27	278 + 37 to 263 + 14
,,	21. 17. 31	M	1	Bluish-white	0·9	Slight	35	8 + 53 to 57 + 40
,,	21. 30. 48	D & M	3	Yellow	0·3	None	16	20 + 60 to 36 + 47
,,	21. 36. 22	D	2	Yellow	0·5	None	17	318 + 30 to 309 + 15
,,	21. 38. 6	M	2	White	0·6	None	35	210 + 65 to 339 + 85
,,	21. 40. 14	D	2	Yellow	0·5	None	14	2 + 28 to 3 + 14
,,	21. 47. 30	M	2	White	0·4	None	25	219 + 72 to 213 + 47
,,	21. 52. 54	D	1	White	0·4	None	18	338 + 47 to 357 + 35
,,	21. 55. 13	D	3	Yellow	0·3	None	14	8 + 58 to 2 + 45
,,	21. 58. 13	D	2	White	0·4	None	14	26 + 63 to 353 + 70
,,	22. 7. 10	M	1	Bluish-white	0·6	None	18	306 + 44 to 278 + 49
,,	22. 9. 13	D	2	White	0·2	None	12	45 + 50 to 32 + 44
,,	22. 11. 42	D	2	Bluish-white	0·4	None	23	315 + 29 to 299 + 12
,,	22. 13. 27	D & M	1	Bluish-white	0·2	None	1	38 + 52 to 39 + 51
,,	22. 13. 30	D	1	White	0·3	Bright : 0·5 sec.	15	295 + 44 to 282 + 35
,,	22. 18. 51	D	1	Yellow	0·7	Bright : 0·5 sec.	22	342 + 29 to 332 + 9
,,	22. 22. 36	M	2	Yellow	0·5	None	25	210 + 65 to 209 + 40
,,	22. 26. 16	D	3	Bluish-white	0·3	None	11	333 + 57 to 338 + 47
,,	23. 6. 30	M	2	White	0·4	None	25	308 + 75 to 351 + 58
,,	23. 12. 9	D	2	White	0·2	None	17	330 + 12 to 323 − 4
,,	23. 27. 38	M	1	Bluish-white	0·5	Slight	28	320 + 62 to 15 + 88
,,	23. 40. 3	D	2	White	0·3	0·3 sec.	22	344 + 26 to 326 + 10
,,	23. 44. 8	D	2	Bluish-white	0·2	None	14	344 + 13 to 338 0
,,	23. 46. 27	D	2	White	0·3	None	15	26 + 20 to 24 + 5
,,	23. 50. 49	D	2	White	0·3	None	12	278 + 37 to 272 + 26
August 14	0. 13. 22	M	2	Yellow	0·4	None	26	210 + 65 to 141 + 70
,,	0. 18. 30	D	2	Yellow	0·3	None	14	295 + 1 to 294 − 3
,,	0. 20. 14	M	2	Bluish-white	0·3	None	21	278 + 38 to 263 + 55
,,	0. 26. 41	D	2	White	0·2	None	15	348 + 2 to 341 − 10
,,	0. 28. 16	M	1	Bluish-white	1·0	0·3 sec.	34	267 + 57 to 15 + 88
,,	0. 48. 9	D & M	1	Yellow	0·4	None	22	330 − 1 to 338 − 22
,,	0. 54. 23	D & M	1	White	0·3	Bright : 0·3 sec.	26	284 + 42 to 272 + 18
,,	1. 26. 59	D	2	White	0·2	None	9	314 + 58 to 308 + 50
,,	1. 35. 47	D & M	1	White	0·3	None	20	315 + 62 to 284 + 52
,,	1. 41. 56	M	2	Bluish-white	0·4	None	21	27 + 64 to 50 + 49
,,	1. 48. 24	D	3	White	0·2	None	13	332 + 57 to 323 + 70
,,	1. 53. 30	D & M	1	White	0·3	None	17	309 + 34 to 294 + 23
,,	2. 1. 0	M	2	White	0·3	None	20	282 + 44 to 309 + 50
,,	2. 3. 15	D	2	White	0·2	None	11	257 + 65 to 254 + 54
,,	2. 27. 30	D & M	2	White	0·2	None	15	296 + 43 to 284 + 32
November 13	22. 58. 46	D	3	White	0·2	None	14	128 + 25 to 113 + 28
,,	23. 38. 25	D	3	Yellow	0·4	None	15	119 + 23 to 105 + 16
,,	23. 52. 7	W	2	Yellow	0·7	None	22	330 + 62 to 308 + 45
,,	23. 58. 56	D	3	White	0·2	None	12	68 + 16 to 65 + 4
November 14	0. 0. 7	D	1	Yellow	0·3	None	25	39 + 3 to 21 − 15
,,	0. 3. 25	W	3	Yellow	0·3	None	18	11 + 57 to 29 + 42
,,	0. 4. 42	W	2	White	0·2	None	28	299 + 76 to 180 + 70
,,	0. 9. 35	D	3	White	0·2	None	13	165 + 61 to 186 + 71

The time is expressed in civil reckoning, commencing at midnight and counting from 0ʰ to 24ʰ.

Month and Day, 1914.	Greenwich Civil Time.	Observer.	Brightness of Meteor in Star Magnitudes.	Colour of Meteor	Duration of Meteor in Seconds of Time.	Appearance and Duration of Train.	Length of Meteor's Path in Degrees.	Path of Meteor in the Sky.			
	h m s				s		°	°	°	°	°
November 14	0. 16. 35	W	1	Yellow	0·4	None	28	8 + 33 to	29 + 12		
,,	0. 19. 19	D	1	White	0·5	None	10	14 + 62 to	9 + 53		
,,	0. 23. 15	D	1	White	0·4	None	21	348 + 12 to	2 + 27		
,,	0. 30. 11	D	1	White	0·5	Slight	23	350 + 39 to	9 + 58		
,,	1. 37. 40	D	1	Yellow	0·3	None	18	98 + 15 to	114 + 26		
,,	1. 30. 41	W	3	White	0·2	None	25	47 + 49 to	9 + 55		
,,	1. 50. 57	D	3	White	0·2	None	10	93 0 to	84 − 5		
,,	2. 14. 53	D & W	2	White	0·2	None	13	108 + 10 to	95 + 5		
..	3. 9. 55	W	3	White	0·2	None	36	111 + 16 to	99 + 61		
,,	3. 22. 30	D & W	2	Bluish-white	0·3	None	13	78 + 12 to	68 + 3		
,,	3. 35. 8	D	3	White	0·3	None	13	68 + 16 to	59 + 5		
,,	3. 39. 27	W	3	White	0·2	None	11	80 + 29 to	70 + 39		
,,	3. 41. 48	D & W	1	Bluish-white	0·2	None	21	110 + 30 to	107 + 9		
,,	3. 47. 34	D	2	Bluish-white	0·2	None	14	158 + 19 to	164 + 6		
,,	3. 49. 35	D	1	White	0·2	None	11	116 + 26 to	123 + 17		
,,	3. 51. 34	W	3	Bluish-white	0·2	None	13	224 + 72 to	266 + 72		
,,	3. 55. 54	W	1	Yellow	0·4	None	24	174 + 35 to	203 + 45		
,,	4. 1. 55	W	2	White	0·3	None	12	197 + 57 to	191 + 67		
,,	4. 4. 27	D	3	Yellow	0·3	None	7	116 + 19 to	108 + 16		
,,	4. 8. 43	D	1	White	0·3	Bright : 0·2 sec.	9	90 + 43 to	77 + 46		
,,	4. 8. 52	D	1	Bluish-white	0·3	None	18	113 + 29 to	113 + 11		
,,	4. 16. 5	W	2	Bluish-white	0·3	None	14	177 + 58 to	200 + 54		
,,	4. 40. 47	D	2	White	0·2	None	15	182 + 62 to	212 + 68		
,,	4. 48. 5	W	2	Bluish-white	0·2	None	20	72 + 34 to	96 + 42		
,,	5. 1. 51	D & W	2	Bluish-white	0·3	Slight	18	114 + 19 to	99 + 9		

The time is expressed in civil reckoning, commencing at midnight and counting from 0ʰ to 24ʰ.