RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

IN THE YEAR

1924.

UNDER THE DIRECTION OF

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

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GREENWICH MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1924.

INTRODUCTION.

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

§ 1. *Personal Establishment and Arrangements.*

During the year 1924, the personal establishment in the Magnetical and Meteorological Department of the Royal Observatory consisted of William Moody Witchell, Superintendent, G. F. Wells, Junior Assistant, and three Computers. The Computers employed during the year were :—L. C. Burridge, D. Oliver and Miss E. W. Clack.

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

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

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

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

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

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

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

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

The north force and declination instruments record on the north-east drum; the vertical force instrument and the barometer record on the other drum. Both drums are horizontal and are 10 inches long by $5\frac{1}{2}$ inches in diameter. Their normal period of revolution is 30 hours and the scale 15 mm. to the hour. The registering beams of light are focussed on the drum by an adjustable cylindrical lens. Two horizontal straight filament lamps mounted at suitable heights on the east and west walls of the chamber provide the time registration for the photographic sheets. The lamps are illumined for a period of one second centred at each

exact hour of Greenwich time, the current being controlled by a relay connected to the Mean Solar clock in the Clock Room of the Observatory. The effect is to produce narrow dark hour-lines right across the photographic records.

§ 3. *Subjects of Observation in the year* 1924.

The observations comprise determinations of absolute magnetic declination, horizontal force, and dip; continuous photographic record of the variations of declination and vertical force, and of the north component of horizontal 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 atmospheric potential gradient; continuous automatic record of the direction, pressure, and velocity of the wind, and of the amount of rain; registration of the duration of sunshine, and, at night, of the visibility of stars near the Pole; 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 xix).

§ 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 Elliott 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″. 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 during 1924 was $10^{r}\cdot140$.

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 $-6^{div.}\cdot0$ or −6″·9. On 1923 March 18 the theodolite was reversed on its Y's for greater convenience in observing, and the correction for inequality of pivots changed sign accordingly.

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

The reading of the azimuth circle corresponding to the astronomical meridian is determined by observations of Polaris which, weather permitting, is observed once a week.

Declination observations have been made at least thrice weekly throughout 1924.

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

Observations of the absolute horizontal magnetic force are made at least twice weekly.

From July 10 to December 1 the ordinary magnetometer (Gibson No. 3) was at the new magnetic station at Abinger, Surrey, and observations at Greenwich were made with the magnetometer Casella 181. A comparison between the two instruments shows that the latter gives systematically higher results than the former, the difference being ·00012 C.G.S. units. This quantity has been substracted from all results obtained with the Casella instrument in order to preserve uniformity throughout the year.

Forty-one observations of the moment of inertia of the deflecting magnet were made in the year. The following values (logarithmic) observed during the period preceding May 30, were also used in the reduction of the observations of horizontal force made in 1923.

May 10	2·44596	May 22	2·44564*
,, 12	589	,, 26	579
,, 16	571	,, 27	610
,, 19	682	,, 29	569
,, 21	632	Mean	2·44602

*half weight.

On May 30 the magnet was adjusted in its collar for a slight want of balance. The mean observed value of log K subsequent to this date was 2·44594 C.G.S. The value adopted in the reductions was 2·44597 at 0°C.

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

The observations are made thrice weekly.

THE DECLINATION VARIOMETER.—This instrument consists essentially of a magnet and mirror suspended by a fine phosphor-bronze strip 30 cm. long. The torsion head to which the top of the fibre is attached is adjusted so that there shall be no torsion in the mean position of the magnet. A quarter revolution of the torsion head deflects the magnet through 8′.

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

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

The distance from the mirrors to the centre of the slit of the drum box is such that the scale value at the middle of the photographic sheets is 0′·58 per millimetre; at the present time this angle represents 3·11 γ, in terms of force. Since the beam of light, when directed towards the centre of the slit, makes an angle 11° 42′ with the normal to the drum, the scale value is not the same right across the sheet, the percentage difference of scale between the centre and edges being 0·4. This is allowed for, when necessary, in measuring the photographic traces.

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

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

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

The instrument is enclosed in a brass cylinder, in which is mounted the focussing lens, as in the case of the declination variometer. Through apertures in this casing also project two arms, one to the north and the other to the south of the instrument, to which they are attached. These are designed to support a deflecting magnet for the determination of the scale value of the variometer. The deflecting magnet is similar to those in the magnet system itself, but is cased in brass so as to be preserved from rust and made convenient for handling; its external diameter and length are 5 mm. and 7 cm. respectively. Deflections are made at two distances along both north and south arms, and in each position the magnet is used with its north-seeking pole directed to the north and also to the south. Thus eight deflections are involved in each determination of scale value. The deflected positions are recorded on the photographic sheet, and the measurement is performed subsequently. The two adopted distances of the deflecting magnet from the magnet system are 27 cm. and 32 cm. The deflecting forces at these two distances are determined monthly by deflecting the mirror-magnet of the Gibson magnetometer (in the sine method) during the progress of an ordinary observation of horizontal force. The horizontal force being known from the observation, the angle of deflection enables the deflecting force to be calculated readily in absolute measure. It is found that the magnetic moment of the deflecting magnet is slowly diminishing; the deflecting forces at the above two distances were $225{\cdot}6\,\gamma$ and $135{\cdot}6\,\gamma$ in the mean of 1924, and the present rates of diminution of their values are $2{\cdot}5\,\gamma$ and $1{\cdot}5\,\gamma$ per year.

The scale value determinations for the north force instrument are made once weekly. The adopted scale value for 1924 was $3{\cdot}30\,\gamma$ per mm. until June 30. From June 30 until December 18 it was $3{\cdot}35\,\gamma$, and from December 19 to the end of the year it was $3{\cdot}50\,\gamma$ per mm. It has been treated as constant during these periods, the difference from month to month being very small.

The base-line value of the instrument is determined by means of the absolute horizontal force observations, together with the absolute and photographic declination determinations. The base line is steadily changing (though at a decreasing rate), owing to the gradual diminution of the moment of the magnet system. The mean daily rate of change of base-line value during 1924 was 0·30 γ. The progressive change of base-line value is allowed for in the reductions.

The instrument is kept at a constant temperature, and therefore the records require no temperature correction in general. The temperature correction of the instrument was determined from observations secured when the whole room was heated up to a high temperature. It was found that a rise of temperature through 1° C. increased the base-line value of the instrument by 2 γ. When necessary the observations were corrected for temperature according to this determination.

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

The sensitiveness of the instrument is varied by adjusting the centre of gravity of the magnet system. For this purpose a small vertical screw is fixed to one of the rods attached to the mirror and a small piece of brass can be moved up and down the screw, being fixed into any desired position by means of a little shellac.

During the last 12 days of December the records were made with a new instrument of similar construction designed for use at the Abinger magnetic station, Surrey.

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

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

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

In making scale value determinations, the current is supplied by a large dry cell, and is measured by an ammeter. Current strengths from 25 up to 100 milliampères are used, which from the above formula, allowing for the slight noncentrality of the magnets with respect to the coil, are found to produce deflecting forces in proportion, that for 100 milliampères being 323 γ.

The scale value determinations are made weekly. The scale value is found to remain nearly constant, but is not quite uniform across the sheet. The variation in force is computed from the scale value observations as a quadratic function of the ordinate.

The mean scale value during 1924 was 5·1 γ per mm. to October 7. After this date a series of experiments, which involved alteration of sensitivity, took place and frequent changes of scale value occurred in consequence. The average value till December 19 was 3·2 γ per mm. From December 20 the adopted scale value was 2·30 γ per mm.

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

§ 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, north force, and vertical force are discussed, they are divided into two groups—one including all days on which the traces show no very great 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.

The separation hitherto adopted has been based upon the judgment of the Superintendent of the department guided by the principle that, in general, a day on which a variation of more than 300 γ in horizontal force occurs, or, correspondingly, a variation of more than one degree in declination, is to be classed as a day of great disturbance. Days on which the variations exceed half these quantities are classed as days of lesser disturbance.

Following the principle thus defined, no days in the year 1924 are classed as days of great disturbance. Days of lesser disturbance are January 29–30; May 21–22–23; June 10–11; September 7–8; October 23–24; but only in one case was the variation actually so great as prescribed in the criterion given in the preceding paragraph. When two days are mentioned together, it is to be understood that the reference is usually to one set of photographic sheets extending from 11 a.m. to 11 a.m., and including the last half and the first half respectively of two consecutive civil days.

The mean ordinates for each hour are measured by the aid of an etched glass scale, the hour being the period of sixty minutes *commencing* at the time named in the table, and from the tables of these measures, for each calendar month, are obtained the mean monthly values for each hour of the day, and the mean daily value of the element for each day of the month. The daily mean is taken from the 24 mean ordinates. Tables I to XV contain the results for declination, north force, and vertical force. For each element the mean daily value and daily range are given for every day of the year, together with the monthly and annual mean diurnal inequalities for all days, and for quiet and disturbed days (as selected by the International Committee). In the formation of diurnal inequalities it is unimportant whether a day omitted be a complete civil day, or the parts

of two successive civil days making together a whole day, although in the latter case the results are not available for daily values. No days were omitted on account of great disturbance in the formation of these Tables.

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

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

The results of the absolute observations of declination, horizontal force and dip are given in Tables XVII, XVIII and XIX respectively. These tables contain also the values of the base-lines of the declination, north force and vertical force magnetograms respectively, deduced from the absolute observations.

Table XX contains an annual summary of the magnetic elements, giving the mean monthly values of declination, horizontal force and dip ; also of the west, north and vertical components of the total force. The monthly mean diurnal ranges and the sums of hourly deviations from means of declination, north force and vertical force are also given.

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

Reduced copies of the magnetograms for certain disturbed days have been printed in each volume since 1882. The list of these days since the year 1889 has been selected so that the two Observatories of Val Joyeux (formerly of the Parc Saint Maur) and Greenwich should, in general, 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 disturbance are those selected by the International Committee.

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

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

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

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

[TABLE

Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡	Year.	Declination West.	Horizontal Force,† C.G.S. Unit.	Dip.‡
	° ′		° ′		° ′		° ′
1841	23 16·2	..	..	1883	18 15·0	0·1812	67 31·7
1842	23 14·6	..	..	1884	18 7·6	0·1814	67 29·7
1843	23 11·7	..	69 0·6	1885	18 1·7	0·1817	67 28·0
1844	23 15·3	..	69 0·3	1886	17 54·5	0·1818	67 27·1
1845	22 56·7	..	68 57·5	1887	17 49·1	0·1819	67 26·6
1846	22 49·6	0·1731	68 58·1	1888	17 40·4	0·1822	67 25·6
1847	22 51·3	0·1736	68 59·0	1889	17 34·9	0·1823	67 24·3
1848	22 51·8	0·1731	68 54·7	1890	17 28·6	0·1825	67 23·0
1849	22 37·8	0·1733	68 51·3	1891	17 23·4	0·1827	67 21·5
1850	22 23·5	0·1738	68 46·9	1892	17 17·4	0·1829	67 20·0
1851	22 18·3	0·1744	68 40·4	1893	17 11·4	0·1831	67 17·9
1852	22 17·9	0·1745	68 42·7	1894	17 4·6	0·1831	67 17·4
1853	22 10·1	0·1748	68 44·6	1895	16 57·4	0·1834	67 16·1*
1854	22 0·8	0·1749	68 47·7	1896	16 51·7*	0·1835*	67 15·1*
1855	21 48·4	0·1756	68 44·6	1897	16 45·8*	0·1838	67 13·5*
1856	21 43·5	0·1759	68 43·5	1898	16 39·2*	0·1840	67 12·1
1857	21 35·4	0·1769	68 31·1	1899	16 34·2	0·1843	67 10·5
1858	21 30·3	0·1762	68 28·3	1900	16 29·0	0·1846	67 8·8
1859	21 23·5	0·1761	68 26·9	1901	16 26·0	0·1850	67 6·4
1860	21 14·3	..	68 30·1	1902	16 22·8	0·1852	67 3·8
1861	21 5·5	0·1773	68 24·6	1903	16 19·1	0·1852	67 1·2
		0·1759	68 15·8	1904	16 15·0	0·1854	66 57·6
1862	20 52·6	0·1763	68 9·6	1905	16 9·9	0·1854	66 56·3
1863	20 45·9	0·1764	68 7·0	1906	16 3·6	0·1854	66 55·6
1864	..	0·1767	68 4·1	1907	15 59·8	0·1855	66 56·2
1865	20 33·9	0·1767	68 2·7	1908	15 53·5	0·1854	66 56·3
1866	20 28·0	0·1773	68 1·3	1909	15 47·6	0·1854	66 54·1
1867	20 20·5	0·1777	67 57·2	1910	15 41·2	0·1855	66 52·8
1868	20 13·1	0·1779	67 56·5	1911	15 33·0	0·1855	66 52·1
1869	20 4·1	0·1782	67 54·8	1912	15 24·3	0·1855	66 51·8
1870	19 53·0	0·1784	67 52·5	1913	15 15·2	0·1853	66 50·5
1871	19 41·9	0·1786	67 50·3	1914	15 6·3	0·1853	66 51·3
1872	19 36·8	0·1789	67 47·8	1915	14 56·5	0·1851	66 52·0
1873	19 33·4	0·1793	67 45·8	1916	14 46·9	0·1848	66 52·8
1874	19 28·9	0·1797	67 43·6	1917	14 37·1	0·1848	66 53·0
1875	19 21·2	0·1797	67 42·4	1918	14 27·8	0·1846	66 52·8
1876	19 8·3	0·1799	67 41·0	1919	14 18·2	0·1845	66 53·3
1877	18 57·2	0·1800	67 39·7	1920	14 8·6	0·1845	66 53·6
1878	18 49·3	0·1802	67 38·2	1921	13 57·6	0·1845	66 53·0
1879	18 40·5	0·1805	67 37·0	1922	13 46.7	0·1844	66 52·3
1880	18 32·6	0·1805	67 35·7	1923	13 35·1	0·1843	66 51·9
1881	18 27·1	0·1807	67 34·7	1924	13 22·8	0·1843	66 51·6
1882	18 22·3	0·1806	67 34·2				

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

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

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

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

§ 6. *Meteorological Instruments.*

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

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

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

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

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

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

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

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

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

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

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

The dry-bulb thermometer used throughout the year was Negretti and Zambra, No. 45354. The correction −0°·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 William Christie, and from 1899 to 1917 stood in the same position in the Magnet Ground. It was transferred to the Magnetic Pavilion Enclosure on 1917 February 21. It is placed in a shed 8 feet square, standing upon posts about 8 feet high, and open to the north. The apparatus is screened from the direct rays of the sun, without impeding the circulation of the air. The recording mechanism is similar in general plan to that already described in connection with the magnetometers. The traces consist of broad bands, due to the free passage of light to the drum, above the mercury column in the dry-bulb, and through an air-bubble in that of the wet-bulb, crossed by fine lines caused by the shadows of the graduations on the thermometer tubes. The two traces fall on the same part of the cylinder as regards time scale. The stems of the thermometers are placed close together, each being covered by a vertical metal plate having a fine vertical slit, so that light passes through only at such parts of the bore of the tube as do not contain mercury. Further details of the thermometers and recording arrangements may be found in the volume for 1912. The scale value of the records is approximately 10° per inch.

RADIATION THERMOMETERS.—These thermometers are placed in the Magnetic Pavilion enclosure, in an open position about 50 feet south-west of the building. The thermometer for solar radiation is a self-registering mercurial maximum thermometer on Negretti and Zambra's principle, with its bulb blackened, and the thermometer enclosed in a glass sphere from which the air has been exhausted. The thermometer employed was Negretti and Zambra, No. 165157. The thermometer for radiation to the sky was a self-registering spirit minimum thermometer, Negretti and Zambra, No. D11197. The thermometers are laid on short grass and freely exposed to the sky; they require no correction for index-error.

EARTH THERMOMETERS.—There are two thermometers now in use, the bulbs of which are sunk to depths of 4 and 1 feet below the surface. Both thermometers are read daily at noon, the readings of the longer being given in the daily results. The description of the deep sunk thermometers previously in use will be found in earlier volumes. 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 Mr. A. F. Osler, for continuous registration of the direction and pressure of the wind and of the amount of rain, is fixed above the north-western turret of the ancient part of the observatory. The direction of the wind is registered by means of a large vane (9ft. 2in. in length), connected by gearing with a rack-work carrying a pencil; the latter marks on a flat horizontally moving sheet of paper. The vane is 25 feet above the roof of the Octagon Room, 60 feet above the adjacent ground, and 215 feet above the mean level of the sea. A fixed mark on the north-eastern turret, in a known azimuth, as determined by celestial observation, is used for examining at any time the position of the direction plate over the registering table, to which reference is made by means of a direction pointer when adjusting a new sheet on the travelling board.

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

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

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

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

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

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

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

and that the instrument fails to record wind velocities less than 4 miles per hour. The values of the wind velocity given by the formula $V = 3\, v$ would thus be too high when V exceeds 12. Since the two formulæ agree, however, for $V = 12$, the mean values of the wind velocity (which seldom differ much from 12) will be approximately correct in either case; therefore, for the sake of continuity and simplicity, the formula $V = 3\, v$ will continue to be used. In this volume, however, the greatest hourly measures (p. E 76) are given according to both formulæ, and the least hourly measures omitted.

RAIN GAUGES.—During the year 1924 three rain gauges were employed, placed at different elevations above the ground.

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 volumes previous to 1914.

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

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

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

The monthly amounts of rain collected in gauges Nos. 6 and 8 are given on page E 76 of the Meteorological Results.

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

In use as originally designed, the needle was maintained at an approximately constant high potential; one pair of quadrants was connected to the variable potential—that is to the collector—and the other pair to earth. The charge on the needle was renewed each day by a small charging machine. Under these conditions, and provided that the potential of the needle is much greater than that of the collector, the deflection of the needle is approximately a linear function of the potential of the collector. When, however, the respective potentials are comparable in magnitude this is no longer true.

(If V_n, V_1, V_2 are respectively the potentials of the needle and of the two pairs of quadrants, the deflection θ of the needle is given by the approximate formula

$$\theta = k\ (V_1 - V_2)\ \left(V_n - \frac{V_1+V_2}{2}\right).$$

V_2 being made zero by connection to earth, we have θ proportional to $V_1\ (V_n - \frac{1}{2}V_1)$, with a maximum value when $V_n = V_1$).

It was found that the maximum deflection of the electrometer needle occurred for an atmospheric potential of about 1,800 volts—a quantity frequently exceeded in experience—and that for potentials greater than this the deflection actually diminished. The electrometer in the original form was therefore unsuitable for quantitative measurement of potential.

Early in 1923 the arrangements were altered as follows. The needle-charging apparatus was removed; the variable potential was connected to the needle instead of to one pair of quadrants; one pair of quadrants was connected to the positive terminal, and the other pair to the negative terminal of a battery of 50 Leclanché cells, the centre point of which was earthed, as was also the case of the instrument.

V_2 being thus equal in magnitude but opposite in sign to V_1, we have under the new conditions, so long as θ is a small angle, $\theta = 2kV_1V_n$, that is, θ is proportional to V_n.

The controlling force on the needle in the new arrangement is much smaller than in the old. It was therefore necessary to replace the old bifilar suspension by a single conducting filament of suitable torsional properties. After a number of experiments, the most satisfactory suspension was found to be fine copper fuse-wire with which both a steady zero and suitable sensitivity are obtained.

The new series of records began on 1923 May 3, but minor adjustments of the instrument interrupted regular registration until the end of the following month.

Determination of the scale of the variations recorded by the electrometer is made by comparison of the ordinates of the trace with simultaneous eye-observation of the readings of a multi-cellular voltmeter connected to a flame collector, the latter being set up approximately at the height of the collector of the electrometer, but removed to a distance of at least 15 feet from any object standing above the ground surface.

It is assumed that the effective height of the flame is 9 inches greater than its actual height.

The atmospheric potential-gradient is computed from these data and is expressed in terms of volts per metre.

1 mm. on the sheet was found, in the mean, to correspond to a potential gradient of 25 volts per metre to May 19. After that date the scale value adopted was 1mm. to a gradient of 34 volts per metre. Accordance between independent determinations was not good, however, and there are grounds for suspecting that the degree of insulation obtainable is not constant and affects the apparent value of scale.

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.

NIGHT-SKY RECORDER.—The object of this instrument is to supplement the daily sunshine record, in so far as it gives an indication of the amount of cloud.

It consists of a small camera constructed of wood, mounted on a brick pier in the courtyard, to the north of the Transit Pavilion, and permanently directed towards the celestial Pole.

The lens is of 18·8 inches focal length and 0·8 inch aperture. The actual camera is enclosed in a larger box about twice its length, extending nine inches beyond the lens. The lens itself is further surrounded by a hood. Adequate protection from dew is thus obtained and also from rain, except when driven hard from the north. The photographic plates used are ordinary quarter-plate ($3\frac{1}{4}$ inches by $4\frac{1}{4}$). Exposure is intended to be made during the period that the sun remains more than 10° below the horizon. The period thus centres approximately to apparent midnight, but in practice the mean times of commencing and ending the exposure are not varied at intervals of less than seven days.

The traces of Polaris and of δ Ursæ Minoris are ordinarily selected for measurement. The measurement is effected by means of a glass scale, on which there are photographically imprinted pairs of concentric circles whose radii are slightly greater and slightly less than the radius of the trace to be measured, the circles being divided into a time scale of hour-angle, with ten-minute units. The plate is placed over the scale in a measuring frame, and adjusted so that the trace is concentric with the containing circles marked on the scale. The hour-angle of the star, according to the scale, at the commencement and ending of the various portions of the trace is then read off to the nearest minute of time.

The correction for error of orientation of the plate is made during the computation of Mean Time corresponding to hour angle of star, in the following manner:—Whenever the sky is seen to be clear at the commencement of exposure, the difference between the hour angle given by the scale for the beginning of the trace and the corresponding mean time noted by the observer, is taken as the quantity to be applied to the scale readings throughout the night. When the sky is not clear at commencement, the last difference so obtained is used, due allowance being made for the daily acceleration of sidereal time over mean time. Variations in the error of orientation are found seldom to exceed two or three minutes of time, and are unimportant to the records.

§ 7. *Meteorological Reductions.*

The results given in the Meteorological Section refer to the civil day, commencing at midnight, except in the case of the Night Sky Recorder, for which they relate to the period from dusk on the day named, to dawn of the following day.

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 71 and E 72) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pages E 70 and E 71).

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 69 and E 76, is formed from the records of this gauge. In this numeration only those days are counted on which the fall amounted to or exceeded $0 \cdot^{in.} 005$.

The indications of atmospheric electricity are derived from Thomson's Electrometer. In addition to the general character of these indications described in column 17 of the daily register, a table is given on page E 76 of monthly mean values of the potential gradient for every hour of the day. The values are expressed in volts per metre above the ground surface.

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 44 to E 67, and in the abstract table, page E 69, 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,	*partial* (*ly*)	v,	*variable*
hy,	*heavy*	slt,	*slight*	vv,	*very variable*

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

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

The following is the notation employed for electricity :—

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

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

F. W. DYSON.

ROYAL OBSERVATORY, GREENWICH,
1925, *September.*

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL OBSERVATIONS,

1924.

TABLE I.—HOURLY MEANS OF MAGNETIC DECLINATION.

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

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

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

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

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

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

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

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

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

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
November.													13° + Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1**	16·0	17·7	18·3	18·5	18·6	18·1	17·7	17·6	17·2	17·8	20·0	21·1	21·8	22·1	21·2	20·5	19·8	19·6	19·5	18·8	18·1	17·5	11·7	10·6	18·3	
2	10·8	14·4	17·5	18·2	18·1	17·6	17·8	17·5	17·3	18·4	20·0	21·1	21·7	21·6	20·6	19·5	19·7	19·8	19·1	18·5	16·6	16·1	17·5	17·4	18·2	
3	16·1	15·6	17·3	18·6	18·6	18·4	18·0	17·5	16·6	16·7	18·9	(21·0)	23·1	22·4	21·6	21·7	19·8	19·3	18·6	18·1	16·1	17·3	17·6	17·7	18·6	
4	17·4	18·2	18·3	17·6	17·6	17·5	17·6	17·5	17·4	18·7	20·4	21·1	20·8	20·2	19·1	18·5	18·6	18·6	17·2	17·1	17·4	16·9	17·8	17·8	18·3	
5*	18·2	18·3	18·4	18·5	18·4	18·1	17·7	17·6	17·1	18·4	20·4	21·6	21·6	20·4	18·7	18·4	18·6	18·6	18·4	18·1	17·9	17·6	17·7	17·9	18·6	
6	18·2	18·4	18·6	18·6	18·6	18·4	18·3	17·9	16·9	17·6	20·6	21·3	20·7	19·9	19·1	18·6	19·0	18·8	18·6	18·6	18·0	12·3	13·3	14·7	18·1	
7	14·1	14·1	15·4	15·4	16·1	15·7	16·6	17·8	17·9	18·5	20·5	21·5	21·6	21·2	20·0	18·9	18·5	18·0	17·8	17·7	17·6	17·7	17·7	17·9	17·8	
8*	17·9	18·3	18·0	18·0	18·0	17·8	17·6	17·5	17·4	18·2	19·6	20·6	20·8	20·6	19·4	18·7	18·5	18·0	17·6	17·4	17·3	17·3	17·4	17·6	18·3	
9	17·7	17·9	17·9	17·6	17·6	17·4	16·9	16·6	16·1	17·0	18·6	21·5	21·7	20·6	19·6	19·3	18·7	18·4	17·0	16·6	16·8	14·9	14·9	17·1	17·9	
10	18·2	18·4	18·6	18·1	17·6	16·9	16·6	16·4	15·8	16·6	18·3	20·3	(20·5)	21·6	21·3	20·4	19·7	18·9	17·8	16·1	17·4	14·6	14·6	14·4	17·9	
11	14·6	14·6	16·6	17·6	18·5	17·8	17·0	16·7	16·1	16·6	18·3	19·9	21·2	20·9	19·9	19·2	19·8	19·6	18·8	17·7	16·9	15·9	16·5	16·7	17·7	
12	17·5	17·8	18·1	18·2	18·1	18·1	16·9	17·5	16·9	16·9	18·3	19·6	20·4	20·2	19·3	18·8	18·7	17·8	17·3	17·2	16·2	16·8	16·7	16·6	17·9	
13**	17·0	17·7	18·3	17·4	17·3	16·4	16·7	16·6	17·4	16·7	17·6	(19·4)	21·0	20·8	20·9	21·1	20·0	19·6	18·6	16·1	14·3	13·6	14·1	10·3	17·5	
14	9·6	15·2	15·6	15·9	16·4	16·6	17·1	16·7	16·5	16·6	18·3	20·1	20·6	20·2	19·8	19·6	19·5	18·7	18·0	17·6	17·6	17·0	16·8	17·1	17·4	
15	16·9	17·1	17·4	17·6	17·8	17·9	17·6	17·3	16·6	17·0	18·5	19·6	20·4	19·9	19·1	18·7	18·7	18·5	18·3	17·6	13·9	15·5	15·7	15·0	17·6	
16	16·0	17·1	17·7	18·5	18·1	17·9	17·7	17·5	16·8	16·6	17·6	19·3	21·3	20·8	19·8	19·4	19·1	18·6	17·6	17·8	17·4	16·8	16·3	16·8	18·0	
17*	16·9	17·1	17·1	17·6	17·2	16·9	17·0	17·6	17·5	16·9	18·6	19·6	20·4	20·4	20·1	19·4	18·7	18·6	18·3	17·6	17·2	17·0	17·1	17·2	18·0	
18*	17·5	17·3	18·4	17·9	17·7	17·6	17·3	17·1	16·8	17·5	18·6	19·9	20·4	19·8	19·2	18·9	18·6	18·2	17·9	17·6	17·5	17·3	17·4	17·5	18·1	
19**	17·4	17·6	17·8	17·7	17·7	17·5	17·6	17·6	17·1	17·6	19·0	19·7	21·3	21·6	27·2	23·6	21·8	19·1	17·9	17·6	17·1	14·6	14·6	14·8	18·6	
20	16·6	17·8	18·2	17·9	17·6	17·3	17·1	17·1	17·0	17·5	18·6	19·8	20·4	20·4	19·4	19·1	18·6	18·4	18·4	17·8	17·6	17·4	17·4	17·4	18·1	
21	17·6	17·9	17·9	17·6	17·6	17·1	17·1	17·0	16·8	17·6	18·6	19·9	20·8	20·6	19·6	18·9	18·1	18·4	18·3	15·2	17·6	17·4	17·3	16·6	18·0	
22	17·3	17·4	17·9	17·6	17·6	17·0	17·1	17·3	16·6	16·4	18·4	20·2	21·1	20·8	19·8	19·4	18·6	18·4	17·8	17·6	16·6	16·6	16·4	15·4	17·9	
23	16·6	17·1	17·6	17·9	17·9	17·6	17·4	16·9	16·8	17·1	18·3	19·0	19·6	19·6	18·8	18·6	18·4	17·9	17·6	17·4	17·1	17·3	17·3	17·4	17·8	
24**	17·4	17·6	17·8	17·8	17·6	17·3	17·1	17·0	16·8	17·2	18·2	20·4	23·1	24·1	25·6	24·6	19·9	24·6	26·2	22·0	15·9	14·9	15·6	12·2	19·2	
25	11·1	14·6	15·6	16·0	15·9	15·9	16·4	16·6	16·3	16·3	17·6	18·6	19·6	20·1	19·6	18·6	17·8	17·3	16·9	16·8	16·8	16·8	16·8	17·0	16·9	
26**	17·1	17·6	17·8	17·6	17·4	17·2	16·8	16·4	15·8	16·4	18·6	19·4	19·6	19·4	18·6	(18·3)	(18·0)	(17·8)	17·6	17·6	17·4	14·1	14·6	16·4	(17·4)	
27	17·8	18·4	18·6	18·4	18·4	18·1	17·6	17·1	16·3	16·0	16·6	(17·0)	(17·6)	19·0	18·4	18·4	18·3	18·1	17·4	16·9	16·6	16·6	16·6	17·0	(17·6)	
28	17·6	18·0	18·6	18·8	18·8	18·4	17·9	17·6	17·0	17·0	18·2	19·1	(19·4)	(19·6)	19·6	19·2	19·0	19·0	18·4	18·3	17·6	17·2	16·6	16·4	18·2	
29	16·6	16·9	16·6	17·0	17·0	16·6	16·6	15·9	15·9	16·3	16·3	16·4	18·1	18·6	19·2	18·4	18·0	17·6	16·8	16·4	16·2	16·1	15·9	16·1	16·9	
30*	16·6	16·8	17·2	17·2	17·2	17·2	17·1	16·6	16·2	15·9	16·1	17·3	18·1	18·6	18·4	18·4	18·1	17·4	16·8	16·4	16·3	16·6	16·4	16·6	17·1	
Mean	16·2	16·5	17·5	17·5	17·4	17·2	17·0	16·9	16·5	16·9	18·3	19·5	20·3	20·2	19·8	19·2	18·7	18·4	18·0	17·3	16·7	16·1	16·0	15·9	17·7	
Mean*	17·4	17·6	17·8	17·8	17·7	17·5	17·3	17·3	17·0	17·4	18·7	19·8	20·3	20·0	19·2	18·8	18·5	18·2	17·8	17·4	17·2	17·0	17·0	17·4	18·0	
Mean**	17·0	17·2	18·0	17·8	17·7	17·3	17·2	17·0	16·9	17·1	18·7	20·0	21·4	21·6	22·7	21·6	19·9	20·1	20·0	18·4	18·6	14·9	14·1	12·9	18·3	
December.													13° + Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	16·6	17·0	17·2	17·6	17·6	17·3	16·9	16·6	16·6	16·8	17·1	17·6	18·2	18·4	18·3	18·1	17·6	17·6	17·3	17·1	16·4	15·6	16·1	16·4	17·2	
2	16·9	16·8	16·9	17·1	17·0	16·8	16·4	16·3	16·8	17·2	17·4	17·4	17·6	17·6	17·8	18·2	18·6	18·1	17·6	17·1	16·6	16·6	16·4	16·2	17·1	
4	16·8	17·2	16·9	16·6	16·6	16·6	16·6	16·4	16·6	17·6	18·1	18·2	18·0	17·6	17·3	17·6	17·6	17·6	17·4	17·1	16·8	16·8	16·6	16·1	17·1	
4	15·3	15·8	16·9	17·1	16·6	16·4	16·8	17·2	17·2	17·4	17·9	18·2	18·3	18·2	18·2	18·2	17·6	17·4	17·3	16·9	16·8	16·6	16·8	16·8	17·2	
5*	17·3	17·4	17·4	17·6	17·6	17·4	16·8	17·1	16·8	17·1	18·0	18·6	19·4	19·1	18·6	17·8	17·8	17·9	17·3	17·0	16·8	16·6	16·8	17·0	17·5	
6*	17·2	17·4	17·1	17·4	17·4	17·0	16·6	16·2	16·2	16·4	17·6	18·2	18·6	18·6	18·4	17·8	17·4	16·9	16·8	16·6	16·6	16·6	16·6	17·0	17·3	17·2
7	17·6	18·0	18·2	18·0	17·4	17·2	16·6	16·4	16·6	17·4	18·2	18·6	19·6	19·2	18·2	17·4	17·8	17·6	17·6	16·9	15·9	16·4	16·6	16·8	17·5	
8	16·6	17·4	17·4	18·2	17·3	16·6	16·2	16·6	16·8	17·6	18·4	18·8	19·4	18·8	18·8	18·8	18·6	18·1	18·3	16·8	16·0	14·6	16·2	17·0	17·4	
10	17·4	17·4	17·4	17·3	16·2	16·3	16·1	16·1	16·4	17·4	19·6	20·4	20·0	19·8	18·9	18·6	18·3	17·1	16·4	16·6	16·2	15·8	16·3	16·3	17·4	
10	16·8	17·4	17·4	17·0	16·4	16·2	16·1	16·3	16·6	17·8	19·0	19·6	19·6	18·6	17·8	17·4	17·0	16·8	16·3	16·2	16·0	15·9	16·2	16·3	17·1	
11	16·9	17·0	16·8	16·8	17·0	16·6	16·1	16·0	16·3	16·6	17·6	18·8	19·2	18·6	17·6	17·2	17·2	17·0	16·6	16·2	15·8	15·8	15·8	14·3	16·8	
12**	14·6	12·6	11·1	13·8	12·4	11·9	12·4	15·1	16·2	16·3	16·9	18·0	19·6	19·6	18·2	17·8	18·4	17·8	16·4	16·2	16·4	9·6	13·2	16·0	15·4	
13**	16·9	15·8	15·6	16·6	16·6	15·6	15·6	15·4	16·0	16·3	17·0	17·9	19·2	19·6	18·6	18·4	17·6	17·3	16·6	16·2	15·9	16·0	16·0	15·6	16·8	
14	13·6	15·8	16·2	16·6	17·0	16·6	16·6	16·4	15·8	16·4	17·0	17·9	18·8	19·4	18·6	18·0	17·6	17·2	16·8	16·6	16·4	15·6	16·1	16·4	16·8	
15	16·2	16·1	15·9	15·9	16·9	16·6	16·6	16·1	15·6	15·9	17·0	16·8	17·8	18·4	18·8	(18·0)	(17·8)	17·6	17·9	17·4	14·0	15·0	15·4	15·8	16·6	
16*	15·2	16·3	16·6	16·8	16·6	16·6	16·6	16·6	16·1	16·4	17·4	18·6	19·4	19·2	18·8	18·1	17·8	17·7	17·4	16·9	16·3	16·0	15·9	16·0	17·0	
17	16·4	16·6	16·6	16·9	16·9	16·6	16·6	16·1	16·1	16·6	17·8	18·6	19·4	19·8	19·6	18·8	18·6	17·8	17·6	17·4	16·8	16·2	12·6	13·6	17·1	
18	14·8	15·4	17·2	16·6	16·2	17·0	16·8	16·6	16·1	17·0	18·0	19·0	19·8	19·4	18·0	(18·0)	(18·0)	17·8	17·6	17·4	16·6	16·4	16·2	15·9	17·2	
19	16·0	16·0	15·8	15·6	15·8	16·1	16·1	16·4	16·8	17·8	19·4	20·9	20·4	18·8	18·0	18·1	17·8	17·6	17·6	16·8	16·4	16·1	15·9	17·2		
20**	16·3	18·4	16·8	17·2	17·0	16·3	17·2	16·0	16·2	17·0	18·2	18·9	19·0	18·6	17·8	17·6	17·4	17·6	17·4	16·6	16·4	16·0	7·9	9·6	17·0	
21**	13·4	14·0	13·4	15·6	18·0	14·8	15·6	15·9	16·1	17·3	20·8	19·9	19·6	18·6	19·1	19·2	18·2	17·6	15·2	15·6	16·1	15·8	15·9	15·9	16·7	
22	16·4	16·6	16·4	16·6	16·6	16·1	15·9	16·0	15·6	16·4	17·1	17·6	18·6	18·3	16·9	17·0	16·8	16·4	16·2	16·0	15·9	15·8	15·8	15·6	16·5	
23**	15·6	15·1	14·8	16·4	16·6	15·8	16·1	15·9	15·4	15·9	17·0	17·4	19·6	19·6	18·3	17·4	16·9	16·6	16·6	15·8	14·6	14·8	13·6	15·8	16·3	
24	16·1	17·0	16·6	16·6	17·0	16·2	16·2	16·0	15·2	15·8	17·2	18·4	18·6	18·6	17·8	17·6	16·8	16·4	16·2	16·2	15·8	15·2	15·9	16·3	16·6	
25	16·4	16·8	17·2	16·8	16·4	16·2	15·8	15·4	15·0	15·8	16·3	17·0	18·1	17·8	16·6	16·4	16·8	16·4	16·1	16·1	15·8	15·8	16·3	16·6	16·4	
26	16·6	16·6	17·0	17·4	16·6	16·2	15·9	15·6	14·9	14·8	15·2	16·9	19·0	18·6	17·4	17·2	17·1	16·6	16·6	16·4	16·1	15·6	15·1	15·9	16·5	
27	16·3	16·9	17·1	17·1	17·0	16·3	16·3	15·6	14·6	15·3	15·6	17·4	19·3	19·4	18·0	17·1	16·8	16·6	16·4	16·1	16·0	15·4	14·8	15·1	16·5	
29	15·9	15·4	16·2	17·1	16·6	16·6	16·2	16·6	15·3	15·4	16·0	17·4	18·3	18·2	17·0	17·0	17·0	16·8	16·6	16·4	15·9	16·0	16·0	15·9	16·5	
29*	16·6	16·8	16·8	17·0	17·1	16·9	16·6	16·1	15·6	15·8	16·0	16·8	18·1	17·6	16·8	17·3	16·9	16·6	16·4	16·0	15·6	15·6	15·8	16·1	16·5	
30*	16·6	17·1	17·1	16·4	16·6	(16·6)	(16·6)	(16·5)	(16·5)	16·4	16·6	16·8	18·3	17·6	16·8	16·8	17·4	17·2	16·6	16·1	15·8	15·8	15·6	16·0	(16·7)	
31	16·4	16·6	16·8	16·6	15·9	16·3	16·0	16·1	16·4	16·6	16·8	17·6	18·3	17·4	16·8	16·9	17·4	17·6	17·3	16·4	16·2	15·8	15·6	15·4	16·6	
Mean	16·2	16·5	16·5	16·8	16·7	16·3	16·2	16·2	16·1	16·6	17·4	18·2	18·9	18·7	18·0	17·7	17·6	17·3	16·9	16·6	16·1	15·7	15·5	15·8	16·9	
Mean*	16·6	17·0	17·0	17·0	17·1	16·9	16·6	16·5	16·2	16·4	17·1	17·8	18·7	18·4	17·9	17·6	17·5	17·3	16·9	16·5	16·2	16·1	16·2	16·5	17·0	
Mean**	15·4	15·2	14·2	15·9	16·0	14·9	15·4	15·7	16·0	16·6	18·0	18·4	19·4	19·2	18·4	18·1	17·7	17·4	16·4	16·1	15·9	14·4	13·3	14·6	16·4	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
January.	17000 γ + Tabular Quantities (in γ).																									Mean.
1*	914	915	915	914	915	915	915	915	915	912	909	906	906	910	912	914	915	919	919	919	919	919	917	915	915	
2	913	913	915	916	920	920	920	921	920	918	918	915	915	915	916	920	921	923	923	921	923	921	918	920	919	
3	920	921	918	916	920	926	925	923	923	923	923	918	903	902	902	905	908	905	898	897	897	918	920	910	913	
4	908	904	908	909	911	912	912	914	914	909	909	908	911	911	911	914	914	916	914	914	912	911	908	911	911	
5	909	911	917	914	916	916	914	916	914	914	911	911	912	911	911	911	914	914	916	916	917	917	917	916	914	
6	914	921	917	917	917	919	919	921	921	914	911	908	906	904	904	906	911	914	917	919	921	917	916	921	915	
7	920	923	920	918	922	925	925	922	922	920	918	912	907	905	912	915	913	915	915	920	917	925	912	915	917	
8	912	913	915	917	918	918	923	925	922	918	915	907	917	922	918	915	913	917	917	918	913	910	909	909	916	
9	912	913	913	915	917	922	925	925	922	918	918	909	905	910	914	913	911	910	911	909	911	906	908	909	914	
10**	909	913	918	919	924	928	926	923	911	908	896	898	891	871	868	852	852	865	885	895	895	916	899	893	898	
11	899	899	909	904	905	905	905	907	902	902	907	907	907	905	905	899	896	896	889	894	902	909	912	899	903	
12*	897	900	903	905	910	916	916	916	916	913	910	905	905	905	903	900	903	903	906	905	906	903	903	903	906	
13*	904	906	906	906	906	906	907	909	914	914	911	909	911	907	906	904	906	907	909	909	909	909	909	909	908	
14*	908	908	908	908	908	910	912	912	910	912	908	908	908	912	912	910	912	912	912	912	912	912	908	907	910	
15	906	908	908	908	913	913	914	913	909	906	903	906	913	913	913	909	909	906	900	893	896	896	898	903	907	
16	904	909	904	905	907	914	920	914	910	905	897	897	904	902	907	904	907	909	—	—	—	—	—	—	—	
17	—	—	—	—	—	—	—	—	—	911	911	913	913	918	920	921	923	925	923	913	915	910	911	915	—	
18	915	915	913	915	916	920	921	925	920	915	911	905	905	908	913	915	918	921	921	921	920	916	915	921	916	
19	916	919	916	917	919	—	—	—	—	919	917	909	912	912	914	906	909	917	917	919	919	917	909	916	—	
20*	916	916	917	919	921	921	921	922	922	921	919	912	909	911	916	916	921	922	921	919	922	919	917	916	918	
21	917	917	920	920	923	925	927	925	922	920	918	913	917	920	920	922	922	925	923	922	923	920	920	920	921	
22**	924	921	926	918	929	919	914	918	914	914	911	909	913	914	911	909	908	888	878	888	905	914	909	909	911	
23**	910	922	945	945	937	934	924	909	907	899	889	879	884	892	909	902	901	896	919	904	914	932	909	906	911	
24	905	905	905	909	911	908	911	908	905	905	901	895	898	908	908	901	889	891	901	918	911	909	914	919	906	
25	921	905	909	921	914	914	916	921	911	903	901	898	895	905	913	911	908	908	914	914	914	914	911	911	911	
26	914	914	914	914	915	915	914	919	912	902	899	899	901	901	889	887	902	902	906	910	915	912	912	910	907	
27	910	917	914	912	915	915	919	915	912	906	901	894	896	902	907	907	910	912	919	922	915	915	914	914	911	
28	915	915	915	916	918	920	923	923	915	907	907	908	911	910	907	910	916	918	923	921	923	923	920	918	916	
29**	916	916	915	918	920	928	941	943	936	911	920	897	885	895	902	895	916	898	860	862	845	854	860	925	902	
30**	904	908	909	856	871	878	875	891	886	881	873	870	883	891	886	917	894	898	896	917	904	898	904	898	891	
31	898	894	896	901	903	906	908	912	904	894	894	894	894	894	894	903	904	908	904	898	896	898	904	908	900	
Mean	911	912	914	913	915	915	917	918	914	910	908	904	904	906	907	907	907	908	908	909	909	908	910	911	910	
Mean*	908	909	910	910	912	914	914	915	915	914	911	908	908	909	910	909	911	913	913	913	914	912	911	910	911	
Mean**	913	916	923	911	916	917	916	917	911	900	898	891	891	893	895	895	894	889	888	893	893	903	896	906	903	
February.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	909	909	905	902	904	905	912	915	909	905	899	895	892	895	899	905	905	909	913	915	913	913	912	912	906	
2	910	913	913	915	917	915	915	918	917	909	900	895	904	910	912	912	912	913	915	915	915	918	918	917	916	
3	916	916	916	916	918	919	923	923	919	916	916	919	919	923	923	918	916	916	910	916	918	914	916	916	918	
4	919	918	918	919	919	921	926	926	923	919	919	919	921	923	921	921	919	918	918	923	924	923	919	916	921	
5**	920	917	919	920	924	925	927	930	935	930	930	924	919	911	907	904	904	919	927	934	929	907	914	897	920	
6**	891	901	894	891	907	904	904	911	911	907	901	891	896	897	899	906	904	912	909	911	911	912	907	911	904	
7	912	913	910	912	912	917	908	915	905	905	905	903	907	905	898	898	903	902	902	903	918	925	912	908	908	
8	912	912	913	915	915	915	915	915	915	908	905	908	910	907	912	912	912	913	915	915	915	916	916	925	913	
9	915	915	915	916	916	918	916	918	915	912	908	905	905	910	915	916	915	916	918	916	—	—	—	—	—	
10	—	—	—	—	—	—	—	—	—	914	911	908	913	919	927	926	926	926	911	906	911	914	929	919	—	
11	913	932	917	913	914	916	919	916	914	911	908	906	913	916	919	921	917	919	919	919	921	926	922	919	917	
12	917	921	922	921	922	926	922	921	926	921	916	913	916	916	916	916	917	919	921	922	922	921	922	922	920	
13	925	923	925	923	920	925	927	923	917	910	905	902	904	909	914	918	918	917	920	920	922	920	920	920	918	
14*	920	920	918	917	920	923	927	927	920	914	907	904	905	910	917	918	918	917	917	917	914	914	912	910	916	
15*	910	909	907	907	912	917	920	922	922	917	912	912	915	915	917	920	922	925	925	925	925	925	923	923	918	
16	924	924	924	924	933	944	948	949	931	918	915	911	896	903	911	918	921	924	921	919	921	924	926	928	923	
17	929	929	934	929	929	930	930	932	930	925	907	902	909	916	914	914	916	919	922	929	924	925	924	925	923	
18*	925	925	925	925	925	927	927	929	924	920	919	911	911	916	922	922	920	925	929	930	932	932	930	929	924	
19	929	929	930	930	932	934	934	932	932	925	916	916	914	919	925	929	929	930	932	932	919	911	919	923	922	
20**	932	929	930	935	955	945	947	937	934	925	922	909	899	894	897	904	904	934	902	917	912	919	922	922	922	
21**	919	919	922	922	922	919	930	929	916	916	909	902	899	886	906	912	917	907	927	919	919	925	929	929	916	
22	932	927	917	920	922	929	920	929	925	919	914	909	902	906	907	911	919	922	929	929	930	925	927	929	921	
23**	929	927	929	920	922	932	922	925	922	916	906	901	892	904	914	916	916	924	925	952	947	939	919	919	921	
24	920	922	924	925	929	929	927	929	925	911	909	904	904	919	919	909	904	916	919	922	924	929	925	929	920	
25	930	929	925	925	925	922	930	925	920	911	909	911	912	919	919	920	919	925	925	924	924	922	940	932	923	
26	940	930	920	920	925	930	928	920	921	917	913	913	917	912	913	917	917	925	930	926	933	936	928	926	923	
27	933	926	925	926	928	928	930	930	925	917	908	910	910	910	913	920	923	923	930	930	930	930	926	926	923	
28*	926	926	926	928	928	930	931	933	930	925	917	912	912	913	921	923	926	925	926	928	930	928	930	930	925	
29*	926	923	923	925	926	930	931	936	930	923	917	915	913	918	923	926	925	926	928	930	928	930	928	926	925	
Mean	921	921	920	920	922	924	925	926	922	916	911	908	908	910	913	915	916	919	920	923	922	922	922	921	919	
Mean*	921	921	920	920	922	925	927	929	925	920	914	911	911	914	920	922	922	924	923	926	926	926	925	924	922	
Mean**	918	919	919	918	926	923	926	926	924	919	914	905	901	898	905	908	909	919	918	927	924	922	918	916	917	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
March.													17000 γ + Tabular Quantities (in γ).													Mean.
1*	926	926	926	928	930	931	931	933	931	928	925	926	930	928	930	930	930	930	930	931	931	930	930	930	929	
2	936	933	933	931	930	933	935	933	926	925	920	913	912	913	915	917	908	926	931	926	917	926	926	928	925	
3	931	937	937	932	927	927	927	931	927	913	906	909	911	904	906	914	908	909	921	916	918	921	931	924	920	
4	921	921	921	924	926	926	924	921	914	909	908	911	916	919	921	918	918	914	921	926	927	941	929	931	921	
5	931	921	927	934	924	927	929	924	921	918	898	904	908	914	913	904	898	894	906	913	921	921	927	922	916	
6	921	924	927	926	924	924	924	931	927	926	926	924	924	922	908	889	891	894	899	901	911	914	918	921	916	
7**	932	939	922	926	921	927	929	931	921	914	911	908	906	909	909	918	927	924	924	962	918	918	944	947	924	
8**	918	914	911	919	922	924	919	922	913	918	914	911	909	911	901	921	924	927	929	931	919	916	924	934	919	
9	924	921	924	921	924	922	924	934	924	904	878	883	901	908	904	916	918	918	918	924	927	921	924	959	918	
10	937	922	926	926	924	926	929	927	926	924	913	906	911	911	911	914	921	926	927	931	924	926	927	927	923	
11	927	929	927	927	929	934	931	926	918	913	906	901	914	914	919	919	921	926	929	931	931	927	931	931	923	
12	929	927	922	922	934	937	936	929	926	922	918	909	918	918	918	921	924	926	927	927	927	927	927	926	925	
13	924	924	926	927	927	927	926	927	924	921	916	914	914	918	924	924	927	927	929	927	931	931	934	927	925	
14*	926	926	926	927	927	927	927	926	921	919	914	916	918	921	922	924	926	927	929	931	931	929	929	929	925	
15*	929	929	927	931	929	931	931	927	921	914	911	908	908	909	916	924	927	931	932	932	932	936	934	934	925	
16	934	937	936	934	937	937	937	934	927	918	916	913	914	921	922	927	924	904	898	918	926	927	929	927	925	
17*	927	924	927	927	927	929	931	927	921	914	913	911	911	913	916	918	918	924	927	927	927	929	927	929	923	
18	929	931	929	927	927	929	927	929	927	924	921	911	911	911	913	916	918	926	921	921	931	934	934	932	924	
19	932	931	932	937	936	934	937	936	927	921	909	904	908	908	918	924	926	931	932	929	937	927	924	924	926	
20**	927	929	931	944	936	941	934	926	904	898	894	901	891	906	914	918	921	926	927	927	927	931	944	947	923	
21	931	921	924	927	921	918	931	927	911	908	885	894	901	904	916	924	927	927	924	931	934	929	934	939	920	
22	941	932	924	924	931	931	932	932	927	921	903	896	896	901	904	914	918	922	927	927	931	949	934	927	923	
23	928	930	928	927	925	925	927	925	907	889	894	894	892	882	900	915	915	919	923	940	923	928	928	925	916	
24	924	923	923	921	923	924	926	924	916	903	893	893	897	911	914	919	922	924	924	927	927	927	927	925	918	
25	925	925	926	925	925	928	931	918	908	902	889	879	882	897	905	912	918	922	925	926	926	928	925	923	915	
26	925	925	925	928	926	925	926	925	917	908	898	892	890	895	903	908	910	922	925	926	926	926	928	928	917	
27	927	925	917	930	929	930	930	934	925	916	902	896	894	901	907	912	921	924	924	930	930	930	929	929	921	
28*	928	928	926	926	924	923	924	929	926	918	908	900	899	902	909	920	925	927	928	928	928	928	927	928	921	
29	926	927	927	929	934	937	939	944	931	921	908	904	911	914	916	921	931	922	929	927	941	941	941	939	928	
30**	934	937	939	939	937	941	941	937	918	901	891	885	888	894	894	885	911	908	903	914	926	967	924	918	918	
31**	947	941	924	934	918	918	922	911	898	891	885	880	896	911	914	909	919	916	914	921	924	931	924	924	916	
Mean	929	928	926	928	928	929	930	928	920	914	906	903	906	909	912	916	919	921	923	927	927	930	929	930	922	
Mean*	928	927	926	926	923	928	929	928	924	919	915	912	913	915	919	922	925	928	929	930	930	930	929	930	925	
Mean**	932	934	929	934	927	930	929	925	911	904	899	897	898	906	906	910	922	920	919	931	923	933	932	934	920	
April.													17000 γ + Tabular Quantities (in γ).													Mean.
1	924	922	921	921	922	924	921	919	911	903	898	898	903	906	913	916	921	924	927	927	927	927	927	926	918	
2	924	927	927	927	926	927	929	927	918	909	903	901	906	916	922	924	924	927	929	931	931	931	931	931	922	
3	931	931	931	931	932	932	932	929	914	906	898	904	911	916	918	922	929	929	932	932	918	922	927	931	923	
4*	927	926	932	931	929	931	927	926	921	911	904	903	908	914	921	926	924	924	927	931	931	929	931	929	924	
5*	927	927	929	—	—	—	—	—	—	—	—	901	911	918	926	927	927	929	931	931	934	931	927	927	—	
6**	929	931	929	929	927	931	931	931	937	931	924	919	906	924	924	932	918	911	918	931	932	932	932	932	927	
7**	931	931	931	931	927	931	929	927	921	919	919	921	921	924	921	921	931	927	931	924	918	918	918	921	925	
8	932	929	927	931	932	937	934	927	919	908	901	901	903	908	914	921	924	924	924	927	927	927	927	927	922	
9	926	926	927	927	927	927	929	927	918	904	894	896	901	908	919	924	927	927	924	927	927	924	924	927	920	
10	931	931	927	929	927	929	929	927	922	911	906	901	904	909	918	924	927	931	931	932	931	929	927	927	923	
11*	927	927	929	931	932	934	934	934	924	911	901	901	904	914	921	927	931	934	934	931	929	931	931	931	925	
12	931	931	929	931	931	931	934	932	927	918	908	911	914	918	927	931	932	934	936	932	931	932	936	944	928	
13*	939	934	934	937	936	936	934	936	934	927	918	914	911	918	924	931	931	934	934	937	937	936	936	934	931	
14	936	934	932	932	932	934	937	937	931	927	918	908	908	911	918	924	931	936	939	939	937	937	939	939	930	
15	940	935	932	933	938	928	928	928	928	922	912	907	907	912	919	922	928	930	932	933	933	932	932	932	927	
16	938	935	930	928	932	932	933	928	927	915	909	904	905	909	912	915	923	928	935	935	933	937	935	935	925	
17**	933	935	935	935	937	938	933	932	925	915	905	895	902	910	914	919	927	933	938	932	937	938	937	933	927	
18	934	933	933	929	929	928	931	933	926	915	906	906	913	916	923	929	929	933	929	933	931	933	943	939	927	
19	936	929	926	931	931	933	929	928	923	916	910	906	910	911	920	926	929	928	931	928	929	929	929	928	925	
20	930	930	932	921	924	924	924	921	909	897	888	888	892	900	908	913	922	922	925	928	926	926	925	923	917	
21	926	924	926	927	927	929	929	929	926	914	901	894	897	906	910	924	930	930	930	930	932	933	935	933	923	
22	934	928	925	925	925	926	926	925	916	898	888	885	892	901	908	921	916	925	929	931	933	931	929	925	918	
23	926	926	926	928	928	934	933	931	924	907	897	894	904	907	914	920	919	921	924	927	927	929	929	929	921	
24	928	926	925	925	925	928	928	926	925	917	912	907	907	912	920	925	928	930	930	930	931	933	938	945	925	
25**	959	940	928	925	935	938	941	931	931	917	908	902	897	902	910	922	925	930	930	926	925	926	928	930	925	
26**	925	927	929	930	930	930	930	927	906	891	879	858	864	868	884	891	884	903	909	911	911	909	911	911	905	
27	911	910	910	913	913	915	920	923	916	905	903	903	906	910	910	910	910	913	921	920	920	920	920	923	913	
28	921	920	923	920	920	920	920	913	913	910	908	903	910	913	918	923	921	929	929	929	928	923	924	926	919	
29	923	926	929	924	920	920	911	910	915	913	911	906	906	908	910	916	921	928	926	921	924	926	931	920	919	
30*	920	920	920	920	921	921	920	910	906	903	905	910	916	920	923	923	924	924	926	923	923	923	923	928	919	
Mean	930	928	928	928	928	930	930	927	921	912	905	902	904	910	916	921	924	926	929	929	928	928	929	930	923	
Mean*	928	927	929	927	929	931	929	927	921	913	907	907	910	917	922	927	928	929	930	929	930	930	930	931	925	
Mean**	935	933	930	930	931	934	933	930	924	916	907	899	898	906	911	917	917	921	925	925	925	925	925	925	922	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
May.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	928	926	923	926	926	929	923	916	911	906	906	908	911	916	916	921	923	928	929	925	926	926	926	925	921	
2	926	928	928	928	928	928	926	923	916	910	903	900	901	903	913	918	923	926	928	926	928	929	928	928	921	
3	926	926	926	926	926	925	928	926	923	920	920	923	923	920	920	921	926	926	929	931	929	928	929	929	925	
4	928	928	926	926	926	925	925	925	923	923	923	925	929	929	928	929	929	926	931	933	931	931	929	928	927	
5	929	928	926	928	928	926	928	923	920	912	900	902	913	916	922	922	926	928	924	926	926	926	926	924	922	
6*	923	921	921	923	923	923	924	918	909	908	903	901	906	909	913	916	921	933	938	936	933	931	934	929	921	
7*	930	930	929	927	929	930	934	927	920	912	904	902	904	907	912	920	930	937	937	934	935	937	937	934	925	
8	932	932	930	930	932	934	932	930	922	912	907	904	901	905	914	920	925	925	934	939	935	937	940	937	926	
9	939	937	940	937	939	940	943	940	935	924	914	907	904	905	920	917	929	932	937	937	934	934	932	930	930	
10	931	931	931	931	931	931	928	925	923	921	915	915	916	918	921	925	933	935	938	938	938	935	935	935	928	
11	935	938	931	931	933	931	928	926	930	926	911	908	911	918	921	926	930	933	941	935	935	935	933	931	928	
12	933	933	935	936	935	933	930	923	921	918	921	928	933	935	936	928	938	933	941	938	936	936	933	938	932	
13	948	940	940	926	935	931	926	918	911	911	911	918	923	926	926	928	931	931	931	930	928	928	926	926	927	
14*	927	929	929	927	927	927	927	922	922	927	926	919	912	914	919	922	926	932	936	934	932	932	932	932	926	
15	932	929	929	927	929	927	929	926	922	919	912	912	912	916	919	921	926	931	942	941	934	931	929	929	926	
16	927	929	927	927	927	926	922	916	917	919	922	919	917	921	912	914	922	945	936	936	937	939	936	932	926	
17	932	927	929	929	932	932	929	917	914	912	912	916	916	914	914	919	922	926	932	934	936	932	932	932	925	
18*	938	937	933	930	930	928	927	923	920	915	910	910	913	917	922	927	937	937	935	935	935	937	937	933	928	
19	933	933	932	932	933	933	927	920	912	908	907	908	907	912	922	932	937	932	935	937	935	937	933	933	926	
20	933	935	933	927	932	935	933	930	918	908	892	890	899	899	912	922	925	923	923	927	930	930	930	928	921	
21**	929	929	931	931	933	933	943	939	914	858	878	868	914	911	914	918	924	938	938	941	943	944	947	944	923	
22**	938	944	959	921	944	918	891	875	852	838	829	843	858	881	911	919	908	883	895	885	868	865	870	881	891	
23**	911	911	919	908	914	908	890	871	871	868	878	881	886	878	881	901	871	941	931	928	916	908	924	918	901	
24**	919	909	915	909	907	906	912	909	901	892	884	882	882	892	909	912	919	929	932	929	929	922	918	919	910	
25	915	915	919	929	922	920	922	912	915	906	892	882	886	896	901	912	919	927	935	925	924	922	922	915	914	
26	917	910	910	912	920	919	914	909	909	906	896	892	884	892	901	909	912	925	927	932	929	927	925	933	913	
27	922	920	919	919	925	924	925	925	919	912	876	906	899	899	906	915	917	922	924	925	922	922	922	924	917	
28**	925	929	932	929	915	912	892	896	872	872	871	872	879	879	886	899	909	910	922	920	915	915	910	909	903	
29	920	915	920	921	921	918	913	907	902	897	887	888	893	903	913	920	923	928	928	928	931	923	923	923	914	
30	923	925	925	928	930	930	925	918	913	911	911	910	915	921	916	918	913	916	930	930	923	921	923	923	919	
31*	924	924	924	926	931	927	917	912	908	899	898	901	905	909	918	918	918	925	927	932	932	932	932	932	920	
Mean	928	927	928	926	928	929	923	918	912	907	901	901	905	908	914	919	922	928	931	930	929	928	927	927	921	
Mean*	928	928	927	927	928	927	926	920	916	912	908	907	908	911	917	921	926	933	935	934	934	934	934	932	924	
Mean**	924	924	931	920	923	915	906	898	882	866	868	869	884	888	900	910	906	920	924	921	914	911	914	914	906	
June.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	934	933	933	933	931	929	919	913	906	898	896	900	903	903	903	916	926	933	938	939	936	933	929	931	921	
2	932	928	928	930	932	932	928	915	907	904	899	899	899	895	912	918	922	930	938	938	938	935	933	932	922	
3*	929	931	931	932	934	936	931	921	914	909	906	898	894	898	908	917	922	931	936	937	941	937	936	937	924	
4	931	931	932	934	941	945	947	937	921	904	898	894	894	901	901	908	926	934	941	944	942	939	936	934	926	
5	935	933	932	932	935	937	935	932	930	928	923	912	913	910	904	920	923	928	937	940	942	938	938	935	929	
6*	935	932	932	935	938	940	937	932	928	918	909	905	877	909	913	922	930	937	942	943	942	942	938	938	928	
7*	937	935	935	937	940	942	938	932	918	915	912	910	909	909	912	920	932	938	945	945	943	943	938	938	930	
8*	938	936	938	938	938	939	939	939	933	913	901	891	890	896	913	923	933	939	946	946	944	941	939	938	929	
9	939	938	939	941	944	946	938	929	923	914	913	913	914	916	936	943	936	949	952	962	956	949	957	957	938	
10**	969	956	936	936	947	952	952	919	921	918	893	878	885	891	933	926	933	896	880	910	865	867	878	898	914	
11**	891	892	915	906	887	884	901	881	882	886	881	881	877	884	891	892	917	920	924	944	950	963	975	920	906	
12	925	924	924	924	925	924	919	917	922	922	911	907	906	907	912	922	924	934	932	930	927	924	937	925	922	
13	924	932	922	922	924	924	919	912	907	907	907	904	901	904	907	907	917	924	920	927	927	925	924	924	917	
14*	924	924	924	925	927	924	917	911	907	897	897	902	907	907	907	912	917	924	927	929	930	929	929	927	918	
15	928	930	926	928	931	926	925	920	918	915	912	912	910	915	923	931	931	945	943	938	938	936	935	935	927	
16	935	933	931	938	936	931	931	915	902	902	900	898	885	905	925	946	940	945	946	946	943	943	941	941	927	
17	940	936	936	931	935	935	933	928	925	918	912	898	893	893	907	916	920	928	935	936	936	935	935	935	929	
18**	936	929	927	932	936	936	932	932	916	904	894	900	904	914	928	937	956	954	961	938	948	943	948	971	932	
19**	947	935	935	929	925	922	924	929	919	909	904	901	902	912	909	916	942	947	954	939	925	914	909	952	925	
20**	932	901	912	909	914	916	906	894	891	879	863	869	892	907	902	919	909	916	925	929	925	922	922	922	907	
21	925	917	911	916	919	919	919	922	919	909	899	896	894	896	901	911	912	922	929	939	939	949	975	939	920	
22	929	925	924	935	939	929	922	912	911	906	896	896	897	914	914	927	925	929	929	932	930	932	932	932	922	
23	930	923	936	925	933	938	923	917	917	908	892	893	903	905	907	913	926	923	928	936	946	935	935	926	922	
24	930	930	931	930	930	926	920	913	920	915	907	897	903	910	917	923	923	925	936	935	933	930	928	926	923	
25	927	924	922	924	931	932	927	918	914	909	906	908	904	904	908	914	924	931	942	941	939	934	927	923	922	
26	925	925	927	928	930	932	927	922	914	905	905	907	905	909	912	919	917	923	932	938	935	930	928	928	922	
27	928	928	928	928	932	935	932	920	920	917	922	928	928	922	915	912	925	928	928	935	932	928	925	919	926	
28	922	922	922	930	930	928	927	919	915	914	915	915	919	928	938	925	922	925	933	937	933	932	932	937	926	
29	928	927	927	928	933	935	928	923	919	912	899	894	914	922	925	928	928	927	927	927	932	933	935	933	924	
30	935	932	927	937	935	940	940	938	928	916	884	880	881	891	897	913	930	936	938	940	935	933	936	955	924	
Mean	931	928	929	929	930	931	928	920	916	916	902	900	900	906	913	920	926	931	935	937	935	933	934	935	924	
Mean*	933	932	932	933	935	936	932	927	920	910	905	901	895	904	911	919	927	934	939	940	940	938	936	936	926	
Mean**	935	923	925	922	922	922	923	911	906	899	887	886	892	902	913	918	931	927	929	932	923	922	926	933	917	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
July.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	933	925	927	927	932	933	925	917	913	912	903	898	898	905	912	917	917	927	930	933	932	930	930	927	921	
2	928	928	926	934	931	933	928	918	918	913	908	906	908	913	918	924	921	928	931	933	931	928	928	924	923	
3*	926	929	924	926	931	934	928	914	901	894	893	891	898	904	908	916	921	934	934	931	929	928	926	926	919	
4*	928	928	928	928	933	933	924	913	919	896	893	896	901	909	919	931	938	936	934	934	933	934	934	934	923	
5	934	934	934	934	936	938	933	926	919	909	901	894	894	901	911	921	931	938	943	943	941	938	936	934	926	
6	934	935	937	939	942	940	925	917	907	895	889	895	920	915	930	939	942	939	942	947	945	937	939	942	926	
7	938	940	940	945	943	936	931	925	923	913	905	901	898	915	921	931	945	945	955	946	936	926	926	930	930	
8	934	934	932	934	937	934	899	917	904	899	899	901	902	917	927	931	936	937	939	934	934	931	927	927	928	
9**	927	926	926	931	934	940	944	934	931	927	912	912	904	907	924	947	934	934	949	961	947	937	931	932	931	
10	932	928	932	928	930	932	927	927	920	917	900	892	898	912	917	922	930	930	935	935	932	928	935	930	924	
11	926	924	923	928	936	926	921	919	909	909	909	908	913	924	928	926	926	926	933	934	938	934	933	933	924	
12	932	934	930	932	937	934	930	925	919	914	915	917	927	922	922	927	934	930	937	940	944	939	940	937	930	
13	937	937	935	935	937	937	934	927	927	915	905	897	895	902	914	925	927	932	935	935	935	934	930	930	927	
14	931	931	931	931	935	933	931	931	930	925	920	921	923	920	923	928	936	941	940	938	938	938	941	940	932	
15	943	940	935	938	941	945	941	933	921	916	908	905	906	916	930	925	931	933	945	943	928	933	935	925	930	
16	926	928	931	931	933	936	928	925	918	911	905	903	901	910	918	926	930	936	935	941	936	930	928	936	925	
17	929	929	931	929	929	931	927	914	916	916	914	907	906	914	922	924	926	932	937	936	939	939	932	941	928	
18	936	936	939	946	939	936	936	931	917	904	902	902	916	916	936	942	942	939	939	939	932	934	941	932	931	
19	933	932	933	937	937	937	933	925	912	907	897	895	902	912	910	927	927	930	940	947	940	935	933	933	926	
20**	930	933	933	935	938	937	933	932	927	917	912	908	913	923	935	940	947	954	947	943	937	940	935	937	932	
21	941	938	936	936	946	949	936	899	881	874	891	901	903	904	923	923	926	934	933	933	931	931	931	928	922	
22	938	931	929	929	931	931	928	924	923	919	911	903	899	908	923	934	934	936	938	941	938	933	931	929	923	
23*	930	929	927	929	932	932	930	925	917	914	909	910	914	917	919	927	934	935	937	935	934	932	932	932	926	
24	932	932	932	934	934	932	927	925	919	914	915	924	927	925	919	922	930	934	939	940	942	945	944	942	930	
25**	943	940	940	943	945	950	950	940	933	931	925	920	916	931	935	936	938	936	943	951	936	936	935	936	937	
26**	935	933	933	931	930	930	921	918	911	886	884	901	908	901	900	901	906	915	938	948	948	950	953	943	922	
27**	944	927	926	937	942	942	934	939	934	926	917	917	917	921	904	917	926	944	941	941	934	946	937	921	932	
28	927	929	927	936	932	927	927	929	914	914	921	921	912	911	911	909	917	929	934	934	932	931	931	931	929	
29	932	933	933	937	938	937	937	930	917	908	900	891	903	912	915	922	923	928	938	942	938	935	935	933	926	
30*	932	932	933	933	937	940	935	930	917	907	905	900	908	917	922	927	932	935	938	942	938	938	938	935	928	
31*	936	936	936	937	940	944	944	936	920	903	899	902	912	920	925	928	935	941	948	948	947	947	945	945	933	
Mean	933	932	932	934	936	936	935	925	917	913	905	904	908	914	920	926	930	934	939	941	938	935	935	933	927	
Mean*	930	931	930	931	935	937	932	924	915	903	900	900	907	913	919	926	932	936	938	938	936	936	935	934	926	
Mean**	936	932	932	935	938	940	936	933	927	917	910	912	912	917	920	928	930	937	944	949	948	947	938	934	931	
August.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	948	948	948	950	953	954	949	937	927	919	902	895	897	911	913	918	924	921	934	940	945	945	945	947	932	
2	941	937	937	939	941	946	941	933	925	916	910	908	907	919	930	940	949	954	954	955	952	950	950	950	937	
3	954	950	954	954	954	952	947	937	930	929	927	924	924	920	932	940	942	947	950	954	952	950	949	947	942	
4	945	956	950	946	955	951	946	945	935	933	930	918	920	921	943	948	955	948	956	958	958	956	960	956	945	
5**	948	962	946	945	946	945	941	945	935	928	920	923	930	936	931	941	941	945	953	945	950	951	965	962	943	
6	968	952	949	952	954	951	944	944	932	932	924	914	912	921	921	926	929	941	946	942	939	937	937	936	938	
7	937	937	938	940	938	940	940	933	930	925	913	902	896	900	913	917	920	943	950	950	945	947	950	953	931	
8	937	938	938	928	940	942	940	933	932	925	917	913	912	908	912	920	938	940	948	947	943	940	937	940	932	
9	939	939	938	934	936	941	939	931	924	916	911	914	921	924	926	933	933	941	946	943	941	941	941	939	933	
10	939	941	941	941	941	939	936	933	928	928	924	931	934	929	933	938	941	938	941	943	944	944	946	948	938	
11*	949	944	942	942	942	942	935	930	922	915	919	919	919	920	925	935	939	940	942	944	945	942	942	940	935	
12*	940	940	942	940	940	939	937	927	919	914	917	925	930	934	932	935	939	940	949	949	949	945	947	944	936	
13	943	943	946	943	943	943	936	928	920	916	920	923	928	931	928	933	940	946	953	951	948	946	946	945	937	
14	943	943	943	943	943	941	936	930	920	913	913	916	921	925	931	943	945	945	946	946	946	945	943	943	936	
15	943	943	945	943	943	941	936	930	925	921	920	916	920	926	926	931	940	943	950	950	946	946	946	945	936	
16	946	944	944	944	944	944	941	927	916	904	904	914	927	934	941	944	939	942	954	951	947	944	947	951	937	
17**	957	956	951	951	949	944	944	939	934	929	926	932	937	942	947	944	961	961	947	951	936	941	947	957	945	
18**	969	958	945	958	933	933	930	920	918	912	908	908	915	925	928	937	938	942	938	937	942	942	940	937	934	
19	937	935	935	940	938	938	937	930	922	908	903	908	918	922	925	928	928	932	935	938	938	938	942	937	930	
20*	938	936	938	938	938	939	939	934	926	923	916	914	916	918	923	933	939	943	944	943	941	941	941	939	935	
21*	941	939	939	939	939	939	939	936	931	923	916	913	914	916	923	928	931	938	941	946	948	946	944	943	934	
22	944	944	943	943	944	946	948	943	936	928	919	913	916	921	926	934	941	946	953	951	949	948	946	943	938	
23	944	942	944	940	942	942	942	940	934	925	922	924	924	925	927	932	935	942	950	952	954	947	940	940	938	
24	942	940	945	944	942	940	937	927	920	912	910	920	924	927	930	934	940	942	944	945	944	942	947	945	935	
25*	947	944	944	944	944	940	937	930	925	920	917	920	922	927	932	937	940	944	947	945	945	947	947	947	937	
26	948	948	945	945	943	941	935	928	921	918	921	928	936	945	951	951	951	950	945	945	945	943	945	941	940	
27	943	943	945	943	941	941	938	931	930	930	930	935	935	935	936	938	941	945	945	941	945	941	943	941	939	
28	941	941	941	941	941	941	943	940	931	925	916	921	928	935	940	941	946	948	950	950	951	951	951	955	940	
29**	954	956	949	939	942	942	942	934	922	914	916	912	916	919	922	924	926	916	922	932	929	932	936	942	931	
30**	937	936	946	947	946	934	936	927	916	909	909	909	912	921	922	929	934	941	944	946	946	946	946	946	933	
31	942	941	942	949	942	936	936	912	905	906	902	907	916	926	929	932	936	946	947	947	949	944	944	946	933	
Mean	945	944	945	943	943	942	940	933	926	920	916	917	920	925	929	934	939	942	946	946	946	944	945	945	937	
Mean*	943	941	941	941	941	940	937	931	925	919	917	918	920	923	927	934	938	941	945	945	946	944	944	943	935	
Mean**	953	954	947	948	943	940	939	933	925	918	916	917	922	929	930	935	940	941	941	942	941	942	947	949	937	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
September.												17000 γ + Tabular Quantities (in γ).														Mean.
1**	946	949	949	947	944	936	909	911	916	892	889	905	912	916	912	922	929	934	934	932	934	922	936	929	925	
2*	932	931	929	929	929	931	929	921	916	904	892	895	900	912	914	922	929	932	937	937	939	939	941	941	924	
3	942	942	944	946	941	936	932	921	917	905	905	902	902	914	917	919	926	929	934	939	937	939	939	942	928	
4	934	936	936	932	934	934	946	949	939	929	921	917	916	916	921	934	946	951	952	954	949	947	946	944	937	
5	943	942	942	948	953	952	945	940	937	927	915	903	915	922	923	928	930	943	938	937	937	938	937	952	935	
6	963	960	955	952	957	947	930	920	908	896	886	883	886	896	905	905	913	915	923	933	933	933	933	935	924	
7**	935	935	935	935	937	935	935	930	917	913	920	928	923	930	937	937	950	938	937	913	913	935	900	928	930	
8**	927	932	922	942	942	932	927	900	895	886	888	890	900	903	910	912	918	920	923	928	933	930	927	930	917	
9	948	923	923	925	923	928	923	920	910	903	895	906	918	918	922	925	920	923	923	928	943	930	943	930	923	
10	931	931	936	938	924	931	936	933	918	911	907	897	906	911	911	918	918	928	929	931	931	938	934	933	924	
11*	931	931	931	931	931	931	929	921	911	911	907	911	918	926	929	929	931	929	934	936	934	934	934	933	927	
12	934	933	933	934	933	931	928	924	918	907	907	914	918	924	926	928	938	934	938	926	924	933	931	939	927	
13	929	923	921	929	933	929	924	914	901	901	897	911	921	924	924	928	928	933	938	939	941	933	948	934	925	
14	933	934	934	934	933	928	924	918	911	907	911	918	926	926	928	933	931	934	934	936	936	938	938	938	928	
15	935	932	939	940	939	930	930	922	912	903	902	903	903	910	917	919	929	935	939	937	935	934	935	935	926	
16*	934	934	934	934	934	930	925	919	910	902	900	900	914	927	935	935	935	935	945	939	935	935	935	935	928	
17*	935	935	935	932	932	929	925	919	912	905	900	902	908	920	925	930	935	935	935	935	935	935	935	935	926	
18	937	935	935	939	939	939	939	935	932	929	922	922	922	925	935	939	939	939	942	947	944	944	935	940	936	
19	937	947	944	945	937	947	944	927	920	908	898	895	898	910	925	930	934	935	934	935	937	939	939	935	929	
20*	939	937	937	940	940	940	939	934	922	919	908	912	919	925	932	939	937	944	944	939	934	934	934	944	933	
21	939	941	941	941	943	942	942	940	935	927	920	913	909	916	922	927	929	932	934	937	942	942	942	942	933	
22	940	940	938	938	941	941	941	938	929	918	906	902	912	924	932	932	935	939	937	939	940	940	939	939	933	
23	940	938	938	940	945	951	951	951	931	923	913	906	899	906	916	913	909	926	940	936	960	933	941	946	931	
24**	941	953	943	938	933	930	935	930	918	908	896	894	899	908	909	911	915	918	923	925	926	926	930	930	922	
25	936	925	926	926	930	925	920	923	920	911	903	901	903	906	906	911	916	920	926	928	930	941	926	940	921	
26	935	926	926	923	923	926	926	923	920	913	913	909	913	913	909	904	909	915	923	930	930	933	930	933	921	
27**	935	940	936	950	943	941	945	936	940	933	920	909	916	920	913	923	930	935	913	918	936	966	933	926	932	
28	937	931	931	927	927	931	927	924	921	919	921	916	919	922	917	910	921	924	927	929	931	934	931	957	926	
29	931	931	931	931	931	929	927	924	921	919	924	927	922	917	904	910	917	926	929	932	932	932	931	932	925	
30	931	931	927	927	927	927	927	927	921	917	910	907	907	910	917	922	907	907	931	932	932	932	937	929	923	
Mean	936	935	937	936	936	935	932	927	919	912	907	907	911	917	920	923	927	930	934	934	935	936	935	938	927	
Mean*	934	934	933	933	933	932	929	923	914	908	901	904	912	922	927	931	933	935	939	937	935	935	936	938	928	
Mean**	937	942	938	942	940	935	930	921	914	906	903	905	910	915	916	923	928	929	926	923	928	936	925	929	925	
October.												17000 γ + Tabular Quantities (in γ).														Mean.
1	934	931	931	931	931	931	934	932	924	916	914	914	914	917	926	929	—	—	—	—	—	—	—	—	—	
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3	—	—	—	—	—	—	—	—	—	—	—	—	916	924	932	939	942	946	949	952	949	952	949	946	—	
4	947	946	946	946	946	949	949	941	936	926	914	911	912	922	926	931	929	936	942	939	942	946	949	956	937	
5	942	942	939	942	946	947	947	946	939	929	916	911	909	911	922	927	932	932	941	947	946	942	944	946	935	
6	947	947	946	946	946	946	947	939	936	931	922	922	923	930	936	936	935	939	940	940	937	936	933	932	937	
7	933	934	927	925	923	924	926	924	917	897	898	914	917	923	928	922	923	933	944	952	956	951	955	951	929	
8	950	947	947	946	949	949	945	937	928	924	917	(916)	(916)	920	926	(929)	(935)	939	942	942	935	939	939	939	936	
9	946	943	941	944	946	944	944	939	931	927	923	922	(920)	918	920	(923)	927	934	941	942	944	942	946	942	935	
10	942	942	942	944	942	946	947	946	941	927	916	911	916	922	932	936	937	939	946	944	942	942	942	942	937	
11*	941	942	942	941	941	939	939	942	939	932	922	916	919	926	926	931	932	936	939	939	936	939	942	942	935	
12*	942	942	942	941	941	942	942	941	936	927	919	916	917	926	929	936	939	942	942	942	942	944	944	942	936	
13	945	947	943	942	942	942	942	940	930	920	910	906	912	923	927	(930)	(930)	937	938	940	942	940	940	943	934	
14*	942	940	940	942	942	943	942	940	928	920	910	912	(910)	917	922	927	932	938	940	942	943	943	943	943	933	
15	943	943	943	943	943	947	947	947	942	930	925	923	920	920	928	933	940	948	952	952	950	953	953	950	941	
16	948	954	958	954	958	961	961	961	941	931	919	919	918	918	921	928	938	941	948	951	953	946	944	948	942	
17	954	958	951	951	943	943	941	938	931	921	914	914	919	924	929	931	938	941	943	944	941	939	941	943	937	
18**	944	944	944	954	954	951	953	951	931	921	911	904	887	894	899	924	928	933	938	938	941	944	939	941	932	
19	938	938	941	944	943	943	944	945	939	931	923	921	921	918	918	919	913	924	925	925	923	923	923	929	930	
20	929	926	925	926	927	928	932	929	926	927	915	912	916	921	923	927	932	936	940	922	944	941	954	943	929	
21	943	939	937	935	940	949	950	946	938	922	920	922	925	925	925	925	918	915	917	926	936	944	941	939	932	
22	941	944	936	940	945	943	941	943	940	926	917	916	919	918	919	920	920	922	923	926	927	926	929	930	930	
23**	944	949	924	923	910	934	941	914	908	902	894	892	896	905	911	920	933	925	927	914	918	948	967	931	922	
24**	926	932	936	948	936	944	892	887	877	843	867	900	(904)	899	904	910	915	921	930	926	930	931	919	926	913	
25**	925	929	929	932	925	947	929	939	930	920	914	903	898	898	908	915	922	925	925	929	932	929	929	929	923	
26	932	930	932	929	932	935	935	935	932	922	912	910	908	914	919	922	920	925	932	935	935	935	935	939	927	
27**	939	940	940	942	940	942	942	939	929	922	917	(917)	(919)	919	925	925	925	919	917	924	932	942	935	915	929	
28	940	936	936	926	930	933	933	933	928	921	916	913	915	918	923	928	933	936	938	940	940	940	940	940	931	
29*	938	936	936	936	936	938	938	936	933	930	926	923	925	923	923	928	931	936	938	938	940	940	938	940	934	
30*	938	938	938	940	943	943	940	940	935	928	925	921	921	923	926	928	933	936	938	940	943	943	943	936	935	
31	936	940	943	945	946	950	950	943	936	928	921	920	923	926	935	938	938	945	946	950	951	950	943	938	939	
Mean	941	941	940	940	940	943	941	941	931	921	915	914	918	919	923	927	930	933	937	937	939	941	941	941	933	
Mean*	940	940	940	940	941	941	940	940	934	923	920	918	919	923	925	930	933	938	939	941	941	942	944	941	935	
Mean**	936	939	935	940	933	944	929	926	915	902	901	903	901	903	909	919	925	925	927	926	931	939	938	928	924	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
November.	17000 γ + Tabular Quantities (in γ).																									Mean.
1**	929	934	934	936	941	941	941	939	942	926	919	921	924	931	936	937	939	942	946	947	946	937	919	921	935	
2	927	929	929	927	932	937	932	932	927	922	921	921	922	927	927	924	917	921	924	924	926	932	934	941	927	
3	947	944	931	929	934	937	941	939	932	924	917	(916)	914	916	914	914	931	934	932	927	927	929	936	939	929	
4	941	939	934	937	941	937	936	936	931	927	924	921	922	923	921	922	925	936	942	943	940	939	940	940	934	
5*	939	942	941	941	942	944	945	945	940	933	928	925	926	927	927	936	939	942	944	944	944	944	944	942	939	
6	941	941	942	946	951	954	954	954	951	942	936	934	934	937	939	937	941	946	947	951	941	942	926	922	942	
7	931	929	928	937	944	946	946	941	937	929	922	927	926	921	918	922	927	935	938	940	941	940	939	939	933	
8*	937	936	938	939	941	940	940	940	933	926	921	922	926	925	928	929	930	932	932	932	933	935	935	934	933	
9	933	934	936	937	939	942	942	948	945	937	932	937	930	932	932	935	938	940	935	932	932	952	940	938	938	
10	939	939	939	939	943	946	949	946	939	933	923	918	(916)	924	926	929	933	932	926	929	921	921	922	925	932	
11	934	938	937	935	932	940	944	940	936	928	921	918	921	926	929	929	919	921	921	923	927	922	927	922	929	
12	934	935	935	936	926	937	941	941	936	933	928	921	923	926	929	929	933	939	939	939	938	939	939	943	935	
13**	939	936	934	938	941	946	946	944	941	933	926	928	936	931	925	944	957	959	962	968	969	962	954	955	945	
14	927	916	917	918	925	928	933	934	930	925	923	921	923	924	924	926	929	929	936	939	939	939	938	939	933	
15	939	938	934	934	938	941	943	939	934	929	926	924	929	933	936	936	938	939	936	934	929	929	936	936	935	
16	935	935	935	937	935	939	942	944	939	934	927	927	922	924	930	934	937	940	939	940	939	940	937	937	935	
17*	938	940	940	941	946	951	950	948	943	941	931	926	928	926	928	931	935	941	941	943	943	943	941	941	939	
18*	941	941	943	946	946	948	948	948	943	940	933	928	930	935	938	941	945	946	948	948	946	945	945	945	942	
19**	945	945	945	946	948	951	950	951	946	941	951	946	950	936	923	901	894	921	931	930	931	935	935	940	937	
20	933	933	933	935	936	936	938	938	938	935	931	926	925	925	921	933	938	938	938	940	941	941	941	941	935	
21	941	940	938	938	941	946	945	941	935	931	928	928	931	935	938	936	935	933	933	933	941	941	938	938	937	
22	938	936	940	941	943	945	945	941	938	933	928	923	923	925	931	935	933	936	938	938	938	938	940	945	936	
23	938	940	938	940	941	943	945	945	943	938	936	932	926	931	934	937	941	942	942	942	944	946	946	946	940	
24**	941	941	941	943	945	948	948	945	941	935	930	923	901	887	891	(876)	865	881	875	856	867	891	891	914	912	
25	899	905	907	908	917	918	918	917	916	915	912	908	907	912	917	921	926	927	929	927	926	929	927	927	917	
26**	933	933	935	937	933	937	937	937	937	933	927	929	(932)	933	932	—	—	—	—	943	948	942	940	937	—	
27	940	942	943	940	948	952	953	955	950	953	953	—	—	948	940	938	942	942	940	939	937	937	938	940	—	
28	940	943	947	950	957	960	963	963	962	960	952	938	(937)	(937)	940	943	943	947	943	938	937	938	935	933	948	
29	930	930	923	922	923	918	922	915	923	920	913	911	913	909	913	913	913	927	933	933	933	935	935	933	923	
30*	935	937	937	938	940	942	943	943	942	940	933	932	930	928	928	930	933	937	937	940	940	938	938	937	937	
Mean	935	935	935	936	939	942	943	941	938	933	928	925	925	927	928	928	930	934	935	935	935	937	935	936	934	
Mean*	936	939	940	941	943	945	945	945	940	936	929	927	928	930	930	933	936	940	940	941	941	941	941	940	938	
Mean**	939	939	939	941	944	947	946	945	943	934	932	930	928	921	919	915	914	926	929	925	928	931	925	933	933	
December.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	937	938	940	940	942	943	947	947	945	942	940	937	937	933	933	937	938	938	938	935	937	943	938	937	939	
2	937	940	938	938	940	943	943	943	943	947	947	942	937	933	932	930	928	927	927	925	938	925	937	937	937	
3	938	940	943	940	942	943	943	942	938	935	933	937	937	937	935	933	937	940	942	942	943	943	940	940	939	
4	946	939	938	941	943	946	948	944	943	943	943	943	943	941	941	943	944	946	946	948	948	944	944	944	944	
5*	942	942	944	945	947	949	949	949	949	942	940	937	940	942	942	942	942	944	945	945	945	945	944	942	944	
6*	942	942	942	944	945	947	949	949	947	945	944	945	949	950	949	949	949	950	950	952	950	949	947	945	947	
7	945	945	947	949	952	952	952	949	945	942	942	942	945	952	952	949	942	935	912	929	935	942	944	942	943	
8	940	939	940	939	945	952	955	954	950	942	937	937	939	939	932	927	922	925	927	935	939	945	942	935	939	
9	936	940	941	943	950	946	950	950	946	936	931	930	933	936	940	940	943	943	946	946	945	943	943	943	942	
10	943	946	946	948	950	951	951	950	943	938	935	936	938	943	943	945	946	946	948	950	950	946	945	945	945	
11	943	945	943	945	948	950	950	950	943	936	930	928	935	940	943	946	946	950	950	950	948	946	946	963	945	
12**	960	938	936	943	943	945	946	946	943	935	919	923	933	936	943	943	940	941	943	946	940	948	943	940	941	
13**	946	940	936	936	950	955	950	943	941	933	930	923	930	933	936	940	940	943	943	945	943	943	940	945	940	
14	946	940	936	936	950	955	950	943	941	933	930	923	930	933	936	940	940	943	943	945	943	943	940	945	940	
15	944	942	944	944	946	947	949	951	949	942	937	937	937	941	942	(941)	(942)	944	933	926	918	928	934	939	940	
16*	943	942	941	941	942	944	944	946	943	940	937	935	933	932	933	934	935	936	935	936	936	938	940	943	939	
17	940	941	940	942	941	943	943	947	943	940	938	938	938	934	932	933	936	939	938	939	939	938	932	933	939	
18	938	942	941	942	941	943	945	945	946	941	941	941	—	—	—	—	—	—	—	—	—	—	—	—	—	
19	—	—	—	—	—	—	—	—	—	—	—	—	931	929	931	929	935	935	931	927	931	935	935	931	—	
20**	929	935	935	935	938	942	938	945	935	931	927	927	931	935	935	936	938	942	935	931	935	931	926	926	935	
21**	917	926	922	920	938	935	929	927	924	917	911	908	899	917	919	919	922	922	931	931	929	931	931	927	923	
22	927	927	927	927	931	933	935	933	933	927	924	922	924	924	920	927	927	933	938	938	935	935	935	935	930	
23**	931	931	936	931	931	933	931	935	935	927	910	920	924	920	919	924	927	927	931	931	935	931	931	927	928	
24	931	927	927	927	926	933	931	929	927	931	927	924	924	926	926	927	924	927	929	933	931	935	931	931	929	
25	933	933	931	935	933	935	936	938	935	931	927	926	927	931	933	931	931	935	935	935	935	936	935	935	933	
26	935	935	933	935	938	938	938	938	940	933	931	931	933	935	935	929	924	927	931	933	933	931	933	931	933	
27	931	931	933	933	936	938	942	942	942	938	935	924	920	924	924	926	931	935	935	935	935	933	933	935	933	
28	933	938	937	938	945	945	947	945	938	935	933	931	931	931	933	933	931	933	933	936	938	938	935	935	936	
29*	933	935	933	935	936	940	942	942	942	942	936	935	933	933	929	927	931	935	935	935	935	936	935	935	935	
30*	933	935	938	938	938	—	—	—	—	929	926	924	924	927	929	927	929	931	935	936	936	935	936	935	—	
31	935	938	940	938	942	945	947	951	943	940	936	933	942	945	942	942	942	943	945	949	947	947	945	945	943	
Mean	938	938	938	938	942	944	946	944	941	937	933	931	933	935	935	936	936	937	937	939	939	939	940	939	938	
Mean*	940	940	940	941	942	945	946	947	945	942	939	938	939	939	938	938	939	940	944	942	942	942	942	941	941	
Mean**	937	934	933	933	940	942	939	939	936	929	919	920	924	928	930	932	933	935	937	937	936	937	934	933	933	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January.	43000 γ + Tabular Quantities (in γ)																								Mean.
1*	122	122	119	122	124	124	126	123	121	121	118	121	117	120	122	125	125	122	119	121	121	119	119	119	122
2	118	118	118	115	115	118	120	118	118	113	113	118	117	117	122	122	119	122	118	118	116	121	116	116	118
3	115	112	110	110	110	112	114	114	114	114	111	114	110	118	118	118	123	123	128	133	138	132	122	120	118
4	120	117	117	117	116	119	121	119	116	116	116	121	123	125	123	125	125	120	123	120	129	122	122	122	121
5	120	117	115	115	116	118	118	118	118	118	116	118	117	120	122	122	122	120	117	117	116	116	116	114	118
6	116	111	111	111	110	110	107	110	110	105	107	110	109	109	112	114	114	112	112	112	108	108	108	108	110
7	108	105	103	105	104	107	107	107	104	102	102	99	101	106	109	111	109	109	106	106	105	102	102	102	105
8	100	100	100	100	99	101	101	101	99	99	96	96	95	100	103	103	106	106	103	103	103	103	106	106	101
9	105	102	102	102	102	102	102	102	99	97	97	97	80	94	111	122	130	131	131	129	132	128	132	130	111
10**	120	110	107	103	103	101	104	102	99	97	95	90	90	95	100	105	116	116	108	105	100	100	92	90	102
11	85	85	80	80	80	80	83	83	80	78	75	75	79	81	81	81	85	88	92	92	93	87	85	82	83
12*	82	85	85	85	88	88	88	88	88	86	86	86	89	95	95	97	100	100	100	100	101	104	104	109	93
13*	111	109	111	111	115	118	118	115	112	112	115	115	119	124	124	124	124	126	129	126	127	130	127	125	120
14*	125	127	125	127	128	131	131	131	128	123	121	121	124	127	127	129	132	135	135	132	132	132	132	132	129
15	133	133	130	133	133	133	133	136	133	130	130	133	134	134	134	131	137	139	142	142	144	144	144	142	136
16	140	135	135	130	130	130	130	132	130	127	127	130	133	136	136	136	141	141	139	139	136	136	136	139	134
17	137	134	132	129	129	132	134	137	132	127	127	127	128	128	128	128	130	128	128	130	134	134	131	129	131
18	126	123	123	123	124	124	124	124	124	122	117	117	123	123	123	123	125	125	120	129	120	120	120	120	122
19	121	119	119	116	119	121	121	121	121	116	113	113	117	120	125	122	125	122	122	122	122	122	122	122	120
20*	120	117	117	117	114	114	112	112	112	114	117	114	110	115	118	118	118	118	118	118	115	113	115	113	115
21	114	114	114	114	114	111	114	116	114	114	111	106	102	107	109	112	115	115	112	109	109	109	107	107	111
22**	107	107	104	102	99	104	104	107	107	109	107	107	105	108	110	110	113	116	121	126	121	116	116	116	110
23**	114	109	104	89	94	96	96	101	104	106	106	109	112	118	115	118	120	123	123	115	112	105	100	102	108
24	103	106	103	101	98	103	108	108	108	108	108	108	112	112	112	112	114	120	120	112	107	104	99	92	108
25	84	89	92	89	89	92	94	94	89	89	89	84	88	90	95	95	93	95	95	93	90	90	88	88	91
26	88	88	90	88	88	90	93	93	90	88	90	85	91	96	104	104	101	101	101	96	96	94	91	91	93
27	91	89	83	86	86	89	89	89	86	86	86	86	87	90	97	95	92	92	92	92	92	90	90	87	89
28	88	88	88	88	88	91	93	93	93	91	91	88	89	86	89	92	92	94	92	94	92	89	89	89	90
29**	86	84	86	84	84	89	89	86	84	81	81	84	85	90	95	95	103	110	136	189	180	152	131	100	104
30**	67	0	5	50	75	85	90	95	98	95	93	95	96	99	104	106	106	104	104	101	101	101	101	96	86
31	96	96	96	94	96	96	99	101	101	101	101	99	92	97	102	102	102	105	105	107	107	107	102	102	100
Mean	108	105	104	104	106	107	111	109	111	106	105	105	106	109	111	112	115	115	116	117	116	114	111	110	110
Mean*	112	112	111	112	114	115	115	114	112	111	111	111	112	116	117	119	120	120	120	121	119	120	119	120	116
Mean**	99	82	81	86	91	95	97	98	98	98	96	97	98	102	105	107	112	114	118	127	122	115	108	101	102
February.	43000 γ + Tabular Quantities (in γ)																								Mean.
1	101	96	98	98	98	103	103	103	106	103	101	103	102	102	104	104	107	104	104	104	104	104	104	104	103
2	105	100	98	100	100	103	105	105	105	105	103	100	104	104	106	106	106	106	106	106	106	106	106	104	104
3	104	101	101	101	101	101	101	101	101	101	101	96	97	97	102	102	105	107	107	107	107	107	107	107	103
4	107	105	102	105	102	105	107	105	107	102	107	105	103	103	108	108	108	108	108	106	106	108	108	108	106
5**	108	108	106	106	108	108	108	108	102	98	98	98	102	102	112	114	112	114	114	109	109	107	109	109	107
6**	117	112	119	117	114	119	119	114	114	114	112	117	120	123	125	128	128	128	125	125	125	125	123	123	120
7	120	120	120	123	123	120	123	125	123	120	118	115	121	126	129	131	137	137	131	131	137	124	126	126	125
8	126	126	126	129	126	129	131	131	126	124	121	124	126	129	131	131	126	134	131	131	131	129	131	129	128
9	129	126	126	126	126	126	126	126	129	131	126	124	127	127	130	130	130	132	130	130	132	130	127	127	128
10	127	127	127	125	125	127	125	127	130	127	125	125	123	123	131	131	131	131	133	136	139	139	136	128	129
11	128	121	116	118	123	128	131	131	133	131	128	128	127	129	134	134	132	132	132	132	129	129	127	129	128
12	124	124	124	123	124	127	127	129	124	124	124	127	127	127	127	129	127	127	127	127	127	127	124	124	126
13	122	122	122	119	117	122	124	124	124	124	124	122	125	125	128	130	128	128	128	128	125	125	125	120	124
14*	123	120	118	120	120	123	123	125	128	123	120	120	116	116	119	124	129	136	147	155	163	168	170	176	133
15*	178	184	186	189	189	194	178	173	170	168	163	155	149	147	147	147	144	144	142	142	142	142	139	139	161
16	139	136	134	134	134	131	131	131	131	129	126	124	125	130	132	135	135	135	135	135	135	135	135	132	133
17	132	132	127	127	130	127	127	127	130	130	127	125	126	133	136	136	136	136	136	136	136	133	133	133	131
18*	133	133	131	131	131	133	136	136	136	131	128	126	126	126	128	128	133	136	136	136	133	133	133	131	132
19	131	131	131	131	131	133	133	133	133	131	128	126	124	129	134	137	137	137	134	134	134	137	137	134	133
20**	134	134	132	129	124	124	127	127	132	129	127	124	127	129	145	150	155	160	150	152	145	139	139	134	136
21**	134	134	134	137	134	134	134	134	132	132	132	129	133	138	140	140	143	146	148	148	140	138	135	133	137
22	130	130	130	130	130	133	138	135	133	130	125	128	128	130	138	146	146	146	140	138	138	135	135	133	134
23**	133	133	130	130	130	133	133	135	135	133	130	128	134	139	144	149	149	147	144	141	136	131	131	131	136
24	134	134	134	134	136	136	134	136	136	134	129	129	134	134	139	141	144	144	141	141	141	141	141	139	136	137
25	134	131	131	134	136	136	136	136	136	134	129	126	126	131	136	139	139	141	141	141	141	141	136	134	135
26	124	126	129	131	134	136	139	139	136	134	129	129	129	134	134	136	141	141	141	141	141	139	136	136	135
27	131	131	131	131	134	136	136	139	139	139	136	129	129	131	134	136	141	141	141	141	141	141	139	136	136
28*	136	136	134	136	136	139	141	141	139	139	134	134	131	129	134	136	139	141	141	141	141	139	139	136	137
29*	136	134	136	136	136	139	141	144	141	136	131	131	134	136	141	144	147	147	147	147	144	144	144	141	140
Mean	127	126	125	126	127	128	129	128	128	127	124	122	123	125	129	131	132	133	132	132	132	131	130	128	128
Mean*	141	143	143	142	142	146	144	144	143	139	135	133	131	131	134	135	138	141	142	144	145	145	145	145	141
Mean**	125	124	124	122	122	123	124	124	123	121	120	119	123	128	133	138	137	139	136	133	129	126	124	124	127

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
March.	43000 γ + Tabular Quantities (in γ).																									Mean
1*	141	141	141	141	141	141	141	144	144	139	136	134	135	140	140	142	142	142	142	145	145	142	142	142	141	
2	142	140	140	140	140	142	140	142	145	145	145	148	148	148	148	153	150	148	150	148	150	153	155	153	146	
3	150	150	148	145	145	145	145	148	148	145	145	142	142	145	153	155	161	155	158	161	161	155	155	153	150	
4	153	150	150	148	150	150	153	153	148	148	142	145	143	149	154	154	154	156	154	154	154	149	149	149	150	
5	146	146	146	143	143	146	149	151	149	143	138	136	138	146	151	159	170	170	170	167	162	159	154	151	150	
6	151	149	149	146	149	149	149	149	143	141	138	138	141	143	150	162	170	172	172	170	167	159	154	154	153	
7**	149	143	143	143	146	146	149	146	143	141	138	133	138	143	146	154	154	156	154	154	154	149	149	131	146	
8**	136	141	141	138	138	138	141	149	149	146	141	141	143	149	154	156	154	154	151	149	151	156	154	141	146	
9	141	138	138	143	143	146	149	151	149	143	138	133	138	143	149	154	154	159	156	156	154	154	154	143	147	
10	133	136	138	138	143	146	149	151	151	146	138	138	140	142	148	153	153	153	148	148	148	148	148	142	145	
11	142	142	142	140	140	140	142	148	145	142	137	135	132	135	140	142	148	148	145	145	142	142	142	142	142	
12	140	137	137	137	132	137	137	142	142	142	137	132	132	132	137	145	148	148	148	145	145	142	142	142	140	
13	142	140	142	140	142	142	142	149	142	140	132	127	125	127	130	137	142	142	142	142	142	142	140	140	139	
14*	140	140	140	137	140	142	142	148	145	140	135	132	130	132	137	140	145	145	142	142	142	142	142	142	140	
15*	140	140	140	140	140	142	145	148	145	140	132	127	126	131	136	141	144	141	141	141	141	141	141	139	139	
16	139	139	139	139	137	137	140	140	140	140	134	136	134	136	139	144	149	152	157	152	152	149	147	144	142	
17*	141	141	141	141	141	144	149	149	147	141	136	136	134	136	141	147	152	149	147	147	147	144	144	144	143	
18	141	141	144	141	144	144	147	147	147	141	134	126	124	126	134	141	144	147	149	152	149	144	141	141	141	
19	141	141	141	141	141	141	141	144	141	136	131	129	130	133	140	148	146	146	143	143	146	146	146	140	141	
20**	140	143	140	135	130	135	135	135	135	135	133	130	130	135	138	143	146	146	143	140	140	140	140	135	138	
21	133	135	138	135	138	135	135	140	138	130	123	123	191	122	129	139	145	145	142	145	139	139	137	134	134	
22	127	127	129	129	129	132	134	134	134	129	124	119	121	128	131	136	144	146	138	136	136	136	128	128	131	
23	133	133	136	136	136	136	133	133	133	128	123	118	118	128	138	131	146	144	144	144	141	141	138	141	135	
24	141	144	144	144	144	144	146	146	144	138	138	136	132	140	148	153	153	153	153	150	148	148	145	145	145	
25	148	148	148	148	148	150	153	156	151	148	137	132	135	140	148	153	156	158	156	156	153	153	153	153	149	
26	153	153	153	156	153	153	156	158	153	148	143	143	142	144	152	157	157	163	160	160	160	157	157	155	154	
27	155	155	155	149	152	152	155	155	155	149	142	136	138	143	151	156	159	162	156	156	156	154	154	151	152	
28*	151	151	151	151	151	151	154	154	151	148	141	135	134	134	140	147	147	145	145	145	145	145	142	142	146	
29	145	145	142	142	141	138	140	140	137	132	124	119	117	122	129	134	140	142	140	137	140	137	137	134	136	
30**	134	134	134	134	132	134	137	134	132	127	127	127	121	123	131	133	144	149	157	154	152	146	133	136	136	
31**	121	113	113	113	121	128	133	136	133	133	131	126	122	125	132	138	140	140	138	138	138	138	135	135	130	
Mean	142	142	142	141	141	142	144	146	144	140	135	133	132	133	142	147	150	151	150	149	148	147	145	143	143	
Mean*	143	143	143	142	143	144	146	149	146	142	136	133	132	135	139	143	146	144	143	144	144	143	142	142	142	
Mean**	136	135	134	133	133	136	139	140	138	136	134	132	131	135	140	145	148	149	149	147	147	146	142	138	139	
April.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	135	135	132	135	132	138	140	138	132	127	127	122	121	124	131	137	139	139	137	137	137	137	134	134	133	
2	134	131	131	131	131	131	134	137	131	126	121	116	115	120	125	130	130	130	133	133	130	130	130	130	129	
3	130	130	128	128	130	130	133	133	130	125	115	105	104	112	119	127	132	135	135	135	135	135	133	129	126	
4*	129	129	127	122	122	124	129	129	124	114	109	104	106	113	123	126	128	128	128	128	126	123	123	126	123	
5*	123	123	123	123	126	128	128	128	121	113	111	106	112	120	122	127	127	130	127	127	127	125	125	125	123	
6**	125	122	125	125	125	122	125	125	120	110	102	97	96	111	116	126	126	129	132	132	126	124	124	124	120	
7**	121	121	121	124	124	124	126	129	121	114	101	96	100	110	123	131	131	133	136	136	136	133	133	133	123	
8	125	119	119	119	123	123	123	123	118	110	105	100	104	112	119	124	127	130	127	127	124	124	124	124	120	
9	124	122	122	124	124	127	132	132	130	122	114	107	106	106	113	118	126	131	134	131	131	129	129	129	123	
10	122	122	122	122	125	125	128	128	122	117	110	107	109	111	121	124	129	127	127	127	127	127	121	121	122	
11*	121	121	124	121	121	124	127	127	127	119	111	101	95	105	115	120	126	128	128	126	126	123	120	120	120	
12	120	120	120	120	123	123	126	128	126	118	110	110	107	114	122	119	125	125	125	125	125	125	122	122	121	
13*	117	117	119	117	117	117	119	119	117	117	112	107	103	106	113	116	118	118	121	121	121	118	118	118	116	
14	118	116	118	118	118	118	124	121	118	111	106	98	97	100	107	112	115	117	117	115	115	117	115	115	114	
15	115	115	117	117	112	110	117	120	115	107	102	97	99	106	111	116	122	124	122	122	119	116	116	116	114	
16	114	109	111	114	114	116	119	119	116	109	101	96	95	100	108	110	115	115	118	115	115	115	115	115	111	
17**	112	112	114	112	114	114	114	114	109	102	99	97	98	103	108	108	113	116	116	113	113	113	111	111	110	
18	111	111	108	111	111	108	108	108	108	103	98	96	97	102	107	110	112	112	112	112	115	115	110	107	108	
19	107	107	107	107	112	112	115	112	110	105	97	92	91	94	106	111	117	122	122	119	117	117	117	117	110	
20	113	110	110	110	110	116	116	118	118	113	108	98	94	104	115	120	125	128	128	128	125	125	123	123	116	
21	122	124	124	124	127	127	127	129	127	124	119	108	107	115	123	131	134	139	136	134	134	134	134	134	127	
22	133	133	135	135	140	143	143	140	138	133	127	122	121	132	142	147	147	147	145	142	142	142	142	139	138	
23	137	139	137	139	139	139	139	137	132	126	116	116	120	131	133	138	141	138	136	136	131	131	131	128	133	
24	128	125	125	125	128	131	131	131	128	118	104	102	101	109	111	119	122	124	122	122	119	122	119	117	120	
25**	113	105	110	110	105	105	108	105	105	102	105	100	94	99	104	107	112	117	117	117	117	115	115	115	108	
26**	111	111	114	114	116	116	116	111	111	106	106	108	118	126	136	146	146	141	133	128	126	126	126	123	122	
27	119	119	119	119	119	117	114	114	114	104	101	101	103	108	116	121	124	129	129	126	124	121	118	118	117	
28	115	112	112	112	115	117	117	115	110	102	96	91	93	101	109	114	119	122	119	116	114	111	111	106	123	
29	105	105	105	102	108	110	110	105	100	94	92	84	88	91	101	107	112	112	112	109	109	109	107	104	103	
30*	100	103	103	103	106	103	103	100	98	87	82	82	86	94	102	105	107	105	105	105	102	102	102	102	100	
Mean	120	119	119	119	121	121	123	123	119	113	107	102	103	109	117	122	125	126	126	125	124	123	122	124	119	
Mean*	118	119	119	117	118	119	121	121	117	110	105	100	100	108	115	119	121	122	122	121	120	118	117	118	116	
Mean**	116	114	117	117	117	116	118	117	114	107	103	100	101	110	117	124	124	128	127	125	124	120	122	121	117	

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

	0h	1	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
May.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	101	98	98	98	98	98	98	96	90	85	80	83	84	89	97	100	103	105	105	100	100	100	97	97	96	
2	96	99	96	96	99	99	99	96	91	86	73	71	77	82	93	93	93	95	95	95	95	93	93	93	92	
3	92	92	92	92	94	94	92	94	89	81	76	71	73	80	83	88	91	96	96	93	93	93	91	91	89	
4	90	87	90	90	90	90	87	84	82	77	72	64	61	66	73	78	83	89	91	91	91	89	89	86	83	
5	88	88	88	88	88	88	85	85	82	75	75	85	96	112	122	132	137	140	137	137	137	135	135	135	107	
6*	131	131	134	134	134	134	134	131	123	116	105	108	104	107	112	117	122	125	125	122	120	120	117	117	121	
7*	117	115	115	117	120	117	115	115	112	104	87	79	85	90	103	111	116	118	118	116	116	111	111	111	109	
8	111	111	111	111	113	116	111	111	103	95	90	80	84	89	96	106	112	117	117	117	117	114	112	109	106	
9	109	106	106	109	109	112	112	106	106	101	96	86	89	91	101	101	106	112	112	109	109	106	106	104	104	
10	106	104	106	106	106	109	109	104	99	94	86	81	87	90	100	102	105	107	113	110	110	110	107	107	102	
11	105	102	102	102	105	107	107	102	97	95	92	87	91	96	101	106	114	114	114	114	111	108	108	108	103	
12	108	108	108	108	111	114	114	108	101	93	86	81	87	99	104	109	117	120	120	120	117	120	117	112	108	
13	99	99	102	104	109	109	107	99	97	89	84	79	83	93	105	110	116	113	113	113	113	110	110	110	103	
14*	113	110	110	110	113	116	116	110	105	100	98	95	96	101	116	114	117	117	117	117	117	114	117	114	111	
15	115	115	115	115	120	118	118	118	112	102	92	87	93	101	108	113	116	116	119	121	119	116	119	116	112	
16	119	113	116	119	121	121	119	116	108	101	96	93	104	104	109	112	114	120	125	127	122	120	120	120	115	
17	121	118	115	118	121	123	121	121	118	105	100	95	99	104	109	114	119	122	122	122	122	119	119	119	111	
18*	116	116	116	116	119	122	116	116	109	99	89	94	97	107	117	123	123	123	120	120	117	117	120	117	114	
19	120	117	120	123	123	125	120	117	112	105	97	97	103	108	113	118	129	126	124	118	118	116	116	118	116	
20	117	116	116	118	121	124	126	126	124	108	98	88	94	107	122	130	135	135	130	125	122	125	125	125	119	
21**	123	126	126	126	131	133	131	128	115	103	95	100	109	111	121	129	139	142	137	137	132	129	129	127	124	
22**	127	129	116	106	91	86	96	104	111	116	127	137	153	174	184	195	216	216	205	195	169	164	151	133	146	
23**	100	107	112	107	112	117	117	122	115	112	117	117	123	123	129	141	144	165	165	165	157	141	139	123	128	
24**	117	114	109	119	130	135	140	140	135	124	122	119	125	133	138	138	143	143	146	146	146	141	138	131	132	
25	131	131	131	120	125	125	125	125	125	123	118	105	106	116	124	132	137	139	142	139	139	137	132	132	127	
26	126	126	126	126	132	137	139	134	134	124	116	106	112	117	122	127	133	138	138	138	133	127	127	125	128	
27	123	123	121	121	123	126	126	123	118	108	101	98	99	107	114	119	127	129	129	127	124	124	124	122	119	
28**	119	112	104	92	87	84	89	99	99	104	99	104	115	130	141	151	161	164	161	151	141	136	130	125	121	
29	123	120	115	115	120	120	120	120	120	110	100	100	106	111	116	121	126	121	121	124	121	124	124	124	118	
30	124	121	121	124	126	126	124	121	116	111	111	111	120	127	132	138	140	138	140	140	138	132	130	127	127	
31*	128	126	123	126	128	128	128	128	128	118	108	103	112	117	127	132	140	137	132	132	132	129	129	129	126	
Mean	113	112	112	111	113	115	114	113	109	102	96	94	99	106	111	119	125	127	127	125	123	120	119	116	113	
Mean*	121	120	120	121	123	123	122	120	115	107	97	96	99	104	115	119	124	124	122	121	120	118	115	117	116	
Mean**	117	117	113	110	110	111	115	119	115	112	112	115	125	134	142	151	161	166	163	159	149	142	137	128	130	
June.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	127	129	129	129	132	134	129	129	124	109	102	99	103	110	118	125	130	133	135	130	130	130	128	125	124	
2	125	123	125	125	128	130	130	130	120	105	103	100	111	114	116	119	126	129	129	124	121	121	121	116	120	
3*	116	119	116	119	121	124	126	121	109	104	96	94	97	97	102	112	117	117	122	117	117	112	112	112	112	
4	111	113	113	113	118	118	123	123	118	103	96	83	87	97	107	109	119	122	119	117	114	114	112	112	111	
5	109	109	109	114	114	119	114	112	109	104	99	94	95	100	103	110	113	120	120	118	115	113	110	108	109	
6*	108	108	108	110	110	115	113	113	105	95	85	80	81	91	96	101	106	111	111	111	109	104	104	104	103	
7*	101	101	104	106	106	109	109	106	101	86	84	84	87	92	97	102	107	112	112	107	107	102	102	102	101	
8*	103	103	103	103	103	103	106	106	103	93	86	78	82	87	94	102	109	114	109	109	107	104	104	102	101	
9	102	104	104	104	107	107	104	107	107	99	89	79	80	85	95	100	105	110	110	110	110	105	105	105	101	
10**	101	99	96	104	106	104	96	96	101	101	94	94	102	120	147	202	236	230	207	178	147	127	115	107	130	
11**	87	82	70	72	67	82	92	100	102	105	100	97	98	108	118	123	128	128	123	126	123	118	116	116	103	
12	113	113	111	113	113	116	116	113	111	101	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
13	—	—	—	—	—	—	—	—	—	—	94	97	100	105	110	115	115	115	115	115	115	113	110	110	—	
14*	110	110	108	108	108	110	113	113	110	100	95	90	96	106	106	106	109	109	109	111	109	111	109	106	107	
15	109	106	106	106	106	109	106	109	99	91	89	81	87	92	97	107	112	117	117	112	107	107	105	107	104	
16	106	106	108	108	108	106	103	103	93	88	86	83	92	99	102	107	114	114	112	109	109	107	104	104	103	
17	104	104	104	109	109	112	109	109	104	99	99	94	98	98	105	110	118	125	125	123	118	115	115	115	109	
18**	115	115	115	118	120	120	118	115	110	98	90	88	86	96	109	116	126	131	144	141	131	126	121	114	115	
19**	111	116	119	121	121	124	126	126	121	116	101	96	102	110	117	127	145	152	163	157	147	137	127	122	125	
20**	103	91	88	78	88	111	116	121	121	116	111	111	117	119	127	137	139	142	142	139	134	132	132	129	119	
21	127	124	127	129	134	134	134	134	129	124	119	119	113	110	115	125	133	140	143	140	135	130	115	110	127	
22	119	121	121	121	116	119	121	126	126	121	114	106	107	112	122	132	135	135	132	132	130	127	125	122	123	
23	122	112	107	112	120	115	117	115	117	117	112	107	106	113	113	118	126	128	128	128	128	123	121	118	118	
24	118	116	116	118	118	123	123	128	123	118	103	103	112	119	124	122	124	127	129	129	129	124	124	122	121	
25	119	122	122	124	127	129	129	132	129	119	109	104	105	110	115	123	130	133	135	135	133	130	130	130	124	
26	131	131	131	131	136	131	131	131	136	134	131	121	127	132	130	137	137	147	152	142	142	142	142	142	135	
27	142	145	145	150	150	152	152	147	132	127	125	122	138	143	146	148	153	153	153	158	153	153	151	148	145	
28	148	148	148	146	148	151	148	148	146	143	133	131	134	137	142	144	144	144	147	147	147	144	144	139	144	
29	139	139	139	142	142	139	137	132	129	124	122	124	128	135	148	150	150	153	150	145	143	140	140	138	139	
30	135	138	135	135	135	138	140	140	135	131	128	120	132	129	121	123	133	137	137	131	126	119	119	114	130	
Mean	116	115	115	116	118	120	120	121	116	109	103	100	104	109	115	122	129	132	132	129	125	122	119	117	118	
Mean*	108	108	108	109	110	112	113	112	106	96	89	85	89	95	99	105	110	113	113	111	110	107	106	105	105	
Mean**	104	101	97	99	100	108	110	112	111	107	99	97	101	111	124	141	155	157	156	148	136	128	122	118	118	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
July.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	106	107	110	111	114	113	109	108	105	101	98	95	92	94	99	104	109	112	109	107	104	102	99	99	104	
2	97	97	97	94	97	99	99	99	97	97	89	84	83	88	88	98	103	108	108	108	103	101	98	96	97	
3*	93	93	96	98	98	101	103	103	93	88	78	73	80	87	95	100	107	107	107	105	102	97	97	97	96	
4*	96	96	96	99	101	101	101	99	96	91	89	81	80	85	90	95	103	105	105	100	95	95	93	90	96	
5	90	90	90	95	95	98	98	95	90	85	80	73	72	77	89	97	99	99	97	99	94	94	92	94	91	
6	94	94	97	97	99	102	99	99	94	89	87	79	81	86	93	96	101	103	103	103	103	101	101	98	96	
7	96	96	98	98	103	106	109	109	106	96	91	93	97	97	100	108	108	113	118	120	118	113	108	105	104	
8	101	99	99	101	101	104	104	101	96	91	89	84	83	88	95	106	111	116	113	111	111	108	106	106	105	
9**	106	106	106	111	111	111	111	106	100	95	85	80	79	84	105	117	125	125	130	125	120	115	110	110	107	
10	110	110	112	115	112	112	120	125	99	105	102	102	104	106	114	119	121	129	134	127	124	119	119	114	115	
11	111	114	114	119	119	121	119	114	104	101	93	88	92	100	108	113	115	115	120	118	118	115	113	113	111	
12	113	113	110	113	115	115	113	115	110	103	105	97	96	107	112	114	117	117	114	114	112	112	109	112	111	
13	109	109	109	109	109	112	112	112	104	102	96	96	98	103	106	111	116	116	113	111	111	111	111	108	108	
14	108	108	108	108	111	111	111	111	106	95	90	90	92	100	105	107	110	105	107	110	107	105	105	105	105	
15	104	104	106	106	109	109	111	114	—	—	—	83	87	98	108	110	123	123	126	128	126	123	118	113	—	
16	108	108	108	110	110	110	108	108	108	108	105	98	91	91	102	107	114	117	120	120	117	114	112	109	108	
17	107	109	109	109	112	112	109	104	104	94	81	79	83	101	103	106	111	111	111	108	111	108	108	106	104	
18	101	98	96	98	101	103	106	103	96	90	85	80	84	89	100	107	112	112	107	107	105	105	105	102	100	
19	101	101	101	104	106	106	109	106	101	96	88	88	90	100	103	105	108	108	108	105	103	103	100	100	102	
20**	100	100	103	103	105	105	103	103	95	93	90	85	86	89	102	107	107	107	117	117	115	109	109	104	102	
21	99	99	102	102	102	104	102	102	92	92	97	94	94	91	93	96	106	116	114	111	111	106	106	106	102	
22	101	98	101	103	106	106	103	103	101	96	101	101	97	100	100	105	110	113	115	115	113	107	105	105	104	
23*	106	104	104	104	109	112	112	109	104	99	94	83	88	95	103	105	105	105	108	108	108	108	105	105	103	
24	105	105	105	108	108	108	113	105	103	100	95	93	97	102	107	112	107	107	110	107	107	107	104	104	105	
25**	104	102	102	102	107	107	112	107	104	99	92	87	91	98	109	109	114	114	116	116	116	114	111	106	106	
26**	106	103	103	106	109	109	111	109	106	103	98	101	105	110	118	121	121	126	126	121	118	115	113	110	111	
27**	110	108	108	108	105	95	95	90	87	82	79	87	94	101	101	114	117	127	127	127	122	117	112	104	105	
28	107	107	107	107	109	109	112	114	112	99	96	99	100	108	119	119	116	121	124	121	119	119	116	116	112	
29	115	115	118	115	118	118	118	123	120	118	112	102	104	106	111	119	122	122	119	117	117	117	117	114	116	
30*	117	117	117	117	117	117	117	117	114	109	101	91	97	105	108	110	121	121	118	118	116	113	113	113	113	
31*	113	113	116	116	116	116	116	116	110	105	100	100	94	94	104	115	120	120	117	115	112	112	109	109	111	
Mean	108	107	105	106	108	108	108	107	102	100	93	87	91	96	103	108	112	114	115	113	111	109	107	105	105	
Mean*	105	105	106	107	108	109	110	109	103	98	92	86	88	93	100	105	111	112	111	109	107	105	103	103	104	
Mean**	105	104	104	106	107	105	106	103	98	94	89	88	91	97	107	114	117	120	123	121	118	114	111	107	106	
August.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	112	109	112	115	117	115	109	112	109	104	99	96	98	103	111	119	127	132	129	127	124	124	121	116	114	
2	114	116	119	119	124	124	124	124	119	114	111	103	107	113	120	126	128	128	126	120	120	118	118	115	105	
3	117	117	117	119	119	117	114	112	104	91	86	86	92	100	105	113	118	116	116	116	116	116	113	113	110	
4	116	113	116	118	118	118	118	118	113	105	98	95	94	97	107	115	123	125	123	117	115	115	115	115	113	
5**	115	107	107	112	117	120	117	112	110	104	99	89	98	98	103	114	116	116	116	114	114	114	114	111	110	
6	109	103	106	103	106	106	114	116	116	114	109	98	97	100	110	118	123	126	123	123	121	118	113	113	112	
7	109	109	112	112	112	117	114	114	112	107	99	91	93	95	100	106	111	116	119	116	113	111	108	106	108	
8	106	103	103	103	106	108	111	111	111	103	95	90	89	94	99	105	112	112	112	110	110	107	105	105	105	
9	102	102	102	102	105	105	105	102	99	94	89	86	88	93	98	106	104	106	106	104	104	104	101	101	101	
10	98	98	98	98	98	101	101	101	98	85	80	78	79	87	92	103	105	105	105	105	103	103	100	100	97	
11*	97	97	97	100	103	108	105	103	97	90	87	84	89	94	99	104	107	107	102	102	102	102	102	102	99	
12*	102	102	99	102	102	107	107	109	102	96	86	86	90	93	101	106	108	106	101	101	101	101	101	101	100	
13	100	100	100	97	102	102	102	102	100	89	81	87	86	88	96	104	109	104	99	96	96	96	96	96	97	
14	96	96	99	99	99	101	101	101	99	93	83	83	87	90	90	95	103	103	103	98	98	98	98	98	96	
15	98	98	98	100	103	103	103	100	98	90	82	79	81	84	91	97	102	102	97	97	99	97	97	97	96	
16	97	97	97	97	99	99	99	97	91	81	73	76	75	83	96	101	101	98	101	98	98	96	96	96	93	
17**	96	96	96	96	96	96	93	90	90	85	80	75	79	79	89	92	100	105	110	108	105	105	102	100	94	
18**	91	88	86	65	78	88	94	91	88	78	73	68	72	80	87	95	103	106	103	103	98	98	95	95	89	
19	95	95	93	95	98	100	103	103	98	93	90	85	86	89	92	99	102	102	102	99	99	97	99	97	97	
20*	97	97	97	99	102	102	105	107	102	92	86	81	80	88	91	96	101	106	104	101	98	98	96	96	97	
21*	96	96	98	98	101	101	104	101	98	93	85	78	77	82	90	95	100	100	97	97	100	100	100	97	95	
22	95	95	95	97	100	97	97	100	97	92	87	77	76	81	89	96	99	102	102	102	102	102	102	99	95	
23	99	102	102	102	104	107	107	107	102	99	94	94	90	90	98	101	103	103	103	103	106	103	103	101	101	
24	102	102	97	97	97	100	102	102	97	89	81	76	80	86	96	101	101	104	101	101	104	104	104	101	97	
25*	101	101	101	101	104	106	108	106	101	96	86	83	92	98	103	107	111	105	103	105	105	107	105	105	102	
26	104	102	102	104	106	110	110	106	102	97	94	91	96	96	103	105	105	105	103	103	105	105	105	105	103	
27	105	109	105	109	109	111	114	105	105	103	96	93	97	104	108	113	110	113	113	113	113	113	113	110	108	
28	110	108	110	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
29**	—	—	—	—	—	—	—	—	—	—	—	86	100	116	127	137	137	137	140	140	129	129	127	119	—	
30**	111	113	111	111	113	113	121	127	119	106	98	95	105	110	110	120	126	126	126	120	122	120	122	120	115	
31	120	120	122	120	120	120	122	120	118	115	110	110	106	114	121	130	130	127	125	125	121	125	121	121	120	
Mean	103	103	103	103	105	107	108	107	103	96	90	87	89	93	100	106	110	111	109	108	107	107	106	105	103	
Mean*	98	99	98	100	102	105	106	105	100	93	86	82	84	91	97	102	105	105	101	101	101	102	101	100	99	
Mean**	103	101	100	96	101	104	106	107	102	93	88	82	88	92	97	105	111	113	114	111	110	109	108	107	102	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11b	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September.	43000 γ + Tabular Quantities (in γ).																								Mean.
1**	119	119	117	119	121	125	127	119	114	109	114	109	110	116	124	129	129	132	137	134	129	124	113	116	121
2*	118	118	120	118	124	124	124	124	118	110	108	103	107	112	119	128	128	125	123	117	117	117	117	117	118
3	114	116	114	114	116	116	118	118	114	106	101	95	96	105	115	121	126	121	121	117	117	115	115	110	114
4	110	110	110	113	113	115	113	110	100	94	84	87	88	95	101	109	112	112	112	112	109	109	112	112	106
5	109	109	112	112	109	109	109	109	104	99	95	95	98	100	108	113	119	127	127	127	121	119	115	111	111
6	100	90	85	85	85	87	87	90	87	82	82	90	99	104	110	114	123	120	123	118	114	114	112	112	100
7**	110	107	107	107	110	110	112	112	107	102	97	97	90	98	106	109	111	122	141	143	133	113	111	117	112
8**	118	112	105	74	84	95	95	97	100	100	100	95	99	104	115	120	117	120	120	120	111	107	109	109	105
9	99	99	101	104	107	109	115	115	109	104	104	104	100	108	119	122	119	116	114	114	110	108	106	106	109
10	106	103	103	98	98	100	103	103	98	93	87	85	94	102	107	118	107	105	102	102	102	102	99	99	101
11*	97	97	97	97	99	102	102	99	94	92	84	81	85	91	101	101	98	96	96	98	98	98	96	96	96
12	93	96	96	96	96	96	98	96	91	85	75	72	74	84	90	97	100	95	97	103	103	103	103	95	93
13	90	95	97	100	100	103	100	97	95	90	84	84	85	91	99	102	96	94	94	99	99	99	99	94	95
14	96	96	99	96	96	96	99	99	94	89	83	83	82	88	90	95	98	98	98	98	98	98	95	93	94
15	95	95	93	95	95	95	93	93	90	88	82	77	79	87	97	102	102	97	97	100	97	97	97	94	93
16*	96	96	96	96	99	99	99	96	91	80	70	65	69	81	90	95	95	95	92	90	87	90	90	90	90
17*	87	87	87	90	90	92	95	95	90	79	74	69	73	84	86	89	94	91	89	91	91	89	89	89	87
18	88	88	88	88	88	90	93	88	83	77	72	70	71	76	82	87	87	87	84	87	87	87	89	87	84
19	87	82	82	82	82	82	82	78	71	69	66	61	62	70	81	86	86	86	86	86	86	86	86	83	80
20*	83	86	86	86	86	91	96	91	88	83	81	73	72	74	80	85	85	90	90	90	90	90	90	87	86
21	87	85	85	82	82	82	82	80	76	76	74	72	63	63	63	75	79	84	84	84	81	81	81	79	78
22	78	78	78	78	78	80	83	78	76	74	66	71	73	77	79	77	77	77	79	82	79	82	79	77	77
23	77	77	77	77	77	79	82	79	77	79	77	73	76	76	81	89	89	86	86	83	83	89	89	86	81
24**	72	65	60	44	55	70	76	81	83	83	76	70	69	75	80	82	85	85	85	85	85	85	85	85	76
25	80	80	82	82	85	85	85	85	82	80	75	71	74	74	74	76	84	87	87	89	89	87	89	84	82
26	81	81	81	84	84	84	87	89	84	79	68	68	73	78	83	86	88	88	88	88	88	88	88	88	83
27**	88	88	88	80	83	83	86	86	80	73	62	62	64	66	68	74	82	82	87	93	87	77	72	77	79
28	90	77	82	82	82	79	82	82	79	77	77	74	73	76	84	89	97	92	92	92	94	86	86	86	84
29	85	88	88	88	88	88	91	91	91	85	75	66	69	74	82	90	90	90	90	90	90	90	90	92	86
30	92	92	92	92	92	92	92	95	95	87	79	79	78	83	89	94	99	97	99	97	91	97	94	91	91
Mean	95	94	94	92	93	95	97	96	95	87	82	80	82	87	93	98	100	100	101	101	99	98	97	92	94
Mean*	96	97	97	97	100	102	103	101	96	89	83	78	81	88	95	100	100	99	98	97	97	97	96	96	95
Mean**	101	98	95	85	91	97	99	99	97	93	90	87	86	92	99	103	105	108	114	115	109	101	98	101	98
October.	43000 γ + Tabular Quantities (in γ).																								Mean.
1	91	94	97	97	97	99	99	99	94	89	83	83	83	83	89	94	99	103	106	106	100	101	99	96	95
2	97	94	92	93	90	98	102	102	96	89	84	79	82	88	88	90	90	94	91	91	91	91	92	90	91
3	90	87	87	88	88	88	91	89	84	81	73	(76)	69	74	78	81	81	82	82	83	83	80	78	78	82
4	79	79	79	80	80	84	87	84	77	72	67	67	73	76	84	90	88	91	92	92	90	87	86	81	82
5	79	79	83	83	86	86	87	87	87	86	80	78	76	79	90	95	102	96	97	97	98	98	97	94	88
6	95	95	96	96	97	97	103	101	102	99	95	95	96	99	101	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14*	110	108	108	107	107	107	105	105	101	92	87	87	—	—	—	—	108	105	102	100	100	101	105	104	—
15	102	101	101	100	100	100	100	100	100	95	87	82	—	—	—	—	—	—	—	—	132	130	126	122	—
16	122	118	114	112	111	111	111	111	109	105	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92	90	94	97	94	97	—
18**	94	97	97	90	92	96	101	101	97	97	94	—	108	110	106	108	104	102	102	96	96	94	94	90	—
19	90	88	86	86	84	84	84	84	84	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	—	—	—	—	—	107	107	109	114	116	122	126	126	124	120	116	114	112	—
22	109	103	103	101	103	103	105	109	109	103	99	103	—	—	—	—	—	—	—	—	—	—	—	—	—
23**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	128	130	130	130	136	137	134	118	107	—
24**	99	92	88	77	65	57	69	75	88	99	99	101	—	—	—	118	123	126	128	126	128	128	126	123	—
25**	121	121	118	118	114	109	109	118	123	123	123	123	126	133	135	137	135	133	131	131	126	126	128	123	124
26	123	123	123	123	123	121	123	127	123	121	116	121	123	128	131	131	128	128	126	123	123	123	123	121	124
27**	118	118	116	114	114	111	111	114	111	114	109	—	—	—	—	—	133	130	133	133	132	132	128	123	—
28	119	118	116	119	121	121	121	121	119	116	109	99	108	112	116	116	116	111	111	111	109	109	109	109	114
29*	108	109	109	108	106	108	106	106	106	109	(96)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	111	109	106	103	103	101	98	97	98	—
31	97	95	93	93	92	93	95	92	89	83	80	101	101	99	101	99	98	95	95	93	90	93	95	95	94
Mean	102	101	100	99	99	99	100	101	100	98	94	93	96	99	103	108	110	110	109	108	108	108	106	104	102
Mean*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

November. 43000 γ + Tabular Quantities (in γ).

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1**	95	95	95	93	92	92	90	90	89	86	85	85	89	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	108	111	114	114	111	111	112	114	114	114	111	108	—	—
4	103	102	102	102	103	107	108	110	111	105	100	102	(108)	—	—	—	—	—	—	—	—	101	98	95	—	—
5*	92	89	98	98	89	89	89	91	91	86	82	92	96	101	108	108	108	110	108	108	108	108	107	107	99	—
6	107	105	105	105	103	105	107	107	105	98	99	101	103	105	108	107	105	105	107	107	107	110	111	111	106	—
7	110	110	108	107	107	107	107	108	108	105	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	111	112	114	114	112	111	107	107	104	102	102	102	101	—	—
13**	101	100	100	101	101	101	101	101	101	101	101	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	108	111	114	113	114	116	114	114	113	111	109	109	109	108	—	—
15	108	109	109	111	111	113	114	111	108	107	108	108	111	114	116	116	116	114	114	114	118	118	114	114	112	—
16	113	111	111	111	111	111	113	113	113	111	109	108	111	114	114	118	118	116	116	116	114	114	116	114	113	—
17*	113	113	113	113	111	113	114	113	111	107	107	105	108	111	116	118	121	120	118	118	116	116	116	114	114	—
18*	114	111	113	111	113	114	116	114	114	111	109	111	111	118	118	118	120	118	118	116	116	116	116	116	115	—
19**	114	114	114	114	114	114	114	116	116	118	118	111	—	—	—	—	—	—	129	126	123	123	123	118	—	—
20	116	113	113	113	113	116	116	116	113	110	110	113	116	120	120	120	120	118	118	120	118	116	116	115	116	—
21	113	113	112	113	113	115	116	116	115	113	110	110	115	118	120	122	123	123	122	123	120	118	118	116	117	—
22	116	115	113	112	112	113	116	115	116	115	110	110	101	101	101	100	100	98	98	98	98	98	98	96	106	—
23	94	91	91	93	91	91	91	91	91	93	91	93	94	96	98	98	98	98	94	96	98	98	98	96	94	—
24**	94	94	94	94	94	96	96	94	94	94	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	113	112	112	112	110	112	118	118	123	121	121	118	118	118	116	116	115	115	—	—
26**	115	113	113	113	112	113	113	113	115	112	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	107	106	106	106	105	106	107	107	107	105	103	105	107	112	113	113	113	112	113	113	112	112	111	109	109	—
Mean*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

December. 43000 γ + Tabular Quantities (in γ).

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean.
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5*	—	—	—	—	—	—	—	—	—	—	—	—	107	109	109	109	109	109	107	109	109	106	106	106	—	—
6*	106	106	105	105	105	106	106	106	106	105	105	105	105	106	105	105	105	105	105	106	106	105	105	105	105	—
7	103	103	103	103	103	103	103	103	103	105	106	106	105	106	107	106	106	109	116	116	118	115	109	109	107	—
8	109	109	107	107	106	107	107	107	107	106	106	109	109	113	116	116	120	120	118	118	116	113	113	113	111	—
9	113	113	113	113	113	113	113	113	113	113	113	113	116	120	120	116	116	115	115	115	115	113	115	113	114	—
10	113	113	113	113	113	113	111	111	109	109	111	115	116	116	116	118	116	116	116	115	115	115	113	113	114	—
11	113	113	116	116	116	115	115	113	113	116	116	118	120	123	120	120	120	118	116	116	116	116	116	116	116	—
12**	107	113	116	113	116	118	116	118	120	122	120	120	120	122	126	126	126	126	128	126	126	128	124	123	121	—
13**	120	120	123	123	123	123	124	124	124	126	123	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20**	—	—	—	—	—	—	—	—	—	—	—	—	—	83	81	78	81	78	77	74	75	74	71	74	—	—
21**	79	85	83	81	89	87	83	82	83	82	79	76	76	71	74	72	74	74	74	74	76	77	78	78	79	—
22	80	80	80	83	83	82	80	83	83	85	84	83	80	78	76	78	81	81	82	83	84	83	83	83	82	—
23**	84	85	85	87	85	85	84	83	85	90	92	87	87	84	80	79	80	82	83	83	82	82	82	82	84	—
24	83	83	85	85	84	85	84	86	87	90	91	87	87	83	80	80	83	83	84	85	86	86	85	85	85	—
25	85	85	86	86	86	87	89	89	89	86	86	89	89	82	80	83	85	86	89	90	90	90	90	90	87	—
26	89	87	87	89	90	90	91	91	90	89	92	97	94	86	83	85	89	87	87	87	89	89	90	90	89	—
27	90	90	91	90	91	91	92	91	91	92	95	99	98	87	85	85	85	87	90	91	95	94	92	92	91	—
28	91	91	91	92	95	95	97	98	98	97	99	99	97	91	90	89	89	91	91	92	92	93	94	94	94	—
29*	94	93	93	93	93	92	92	95	95	97	99	100	97	92	92	91	91	91	90	92	93	94	95	95	94	—
30*	95	95	95	94	93	93	94	97	99	99	98	97	95	93	93	93	92	93	93	93	95	94	97	97	95	—
31	98	99	101	100	99	98	98	99	101	104	106	108	105	100	97	94	92	90	87	86	85	85	85	84	96	—
Mean	97	98	99	99	99	99	99	99	100	101	101	100	100	97	97	96	97	97	97	98	98	98	97	97	98	—
Mean*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	0·6	0·7	1·5	2·9	2·0	3·3	3·6	3·0	1·1	0·6	0·3	0·7	1·25
1h.	1·3	0·9	1·2	2·8	2·0	3·5	3·6	2·9	0·9	0·3	0·6	1·0	1·31
2	1·4	0·7	1·8	2·6	2·1	3·4	3·5	3·1	1·2	1·0	1·6	1·0	1·51
3	1·8	1·1	1·7	2·5	2·3	3·2	3·2	2·5	0·9	1·4	1·6	1·3	1·52
4	1·7	0·8	1·6	2·0	1·7	2·0	2·3	1·8	0·5	2·1	1·5	1·2	1·16
5	1·8	0·6	1·4	1·5	0·8	0·9	0·9	0·8	0·2	2·0	1·3	0·8	0·64
6	1·9	0·8	1·0	1·0	0·3	0·3	0·4	0·3	0·1	1·6	1·1	0·7	0·35
7	1·8	0·7	0·3	0·2	0·0	0·0	0·0	0·0	0·0	0·6	1·0	0·7	0·00
8	1·6	0·7	0·0	0·0	0·4	0·5	0·5	0·5	0·3	0·0	0·6	0·6	0·04
9	2·1	0·9	0·9	1·1	1·7	1·7	2·1	2·3	1·6	0·8	1·0	1·1	1·00
10	2·8	1·9	3·1	3·3	3·9	4·1	4·6	4·7	4·0	2·7	2·4	1·9	2·84
11	3·6	3·0	5·4	6·0	6·2	6·9	7·6	7·6	6·5	5·1	3·6	2·7	4·91
Noon	4·2	3·9	7·1	8·3	7·6	8·8	9·4	9·4	8·1	6·4	4·4	3·4	6·31
13h.	4·2	4·2	7·5	9·0	7·6	9·6	9·8	9·1	8·0	7·0	4·3	3·2	6·52
14	3·5	3·6	6·6	7·9	6·8	9·3	9·3	8·5	6·6	5·6	3·9	2·5	5·74
15	2·8	2·5	5·3	6·4	5·6	8·3	8·0	6·8	5·0	4·3	3·3	2·2	4·60
16	2·5	1·8	3·8	5·1	4·6	7·3	7·2	5·2	3·8	3·0	2·8	2·1	3·66
17	2·4	1·3	2·8	4·1	3·7	5·9	6·2	4·1	3·2	3·1	2·5	1·8	2·99
18	1·2	0·6	2·5	3·4	3·1	4·6	5·3	3·9	2·5	2·6	2·1	1·4	2·33
19	1·2	0·2	1·7	2·9	2·4	3·9	4·4	3·7	2·1	2·1	1·4	1·1	1·82
20	0·6	0·2	0·9	2·8	2·5	3·7	4·4	3·7	1·4	1·6	0·8	0·6	1·49
21	0·0	0·0	0·5	2·7	2·3	3·4	4·3	3·8	0·9	0·7	0·2	0·2	1·14
22	0·5	0·0	0·9	2·6	2·1	3·5	3·8	3·6	1·1	0·1	0·1	0·0	1·09
23	0·7	0·2	0·9	2·7	2·1	3·1	4·0	3·2	0·9	0·4	0·0	0·3	1·10
Means	1·93	1·30	2·52	3·49	3·08	4·22	4·52	3·94	2·54	2·23	1·77	1·36	2·30

TABLE V.—DIURNAL RANGE of DECLINATION, on each CIVIL DAY, as deduced from Table I.

1924.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.	′	′	′	′	′	′	′	′	′	′	′	′
1	2·6	4·1	3·9	8·9	8·4	11·7	11·8	13·2	12·0	—	11·5	2·8
2	3·3	3·1	9·9	9·0	7·0	11·0	11·4	12·6	11·6	—	10·9	2·4
3	7·0	4·7	13·2	9·2	7·5	10·8	11·8	11·1	9·0	—	7·5	2·1
4	3·3	2·6	5·6	9·2	8·9	10·8	12·8	11·5	8·5	12·9	4·2	3·0
5	2·7	16.6	8·7	—	8·2	8·0	12·2	12·5	12·7	11·0	4·5	2·8
6	4·8	8·4	10·7	13·2	7·5	9·0	14·6	7·3	15·0	—	9·0	2·4
7	6·4	7·0	18·4	14·6	7·6	9·2	12·0	10·4	16·2	—	7·5	3·7
8	3·8	4·8	11·0	11·0	11·2	10·6	8·8	7·8	13·0	—	3·5	4·8
9	3·5	—	9·7	10·0	8·8	12·7	14·2	6·6	9·3	7·2	6·8	4·6
10	15·4	—	10·6	8·8	4·4	21·8	6·8	6·7	11·0	8·2	7·2	3·7
11	6·0	5·4	8·0	10·1	6·6	10·0	7·3	9·0	9·0	8·6	6·6	4·9
12	4·8	4·3	7·5	7·6	6·2	6·8	7·8	8·3	13·8	9·0	3·8	10·0
13	2·3	5·0	5·8	7·7	9·0	7·0	10·5	11·3	13·5	8·8	10·8	4·2
14	3·0	4·2	6·5	8·9	4·6	8·8	6·6	10·6	6·7	—	11·0	5·8
15	5·2	3·0	7·2	7·2	7·3	8·4	11·4	10·1	9·9	8·6	6·5	4·8
16	—	5·0	6·2	9·0	8·2	10·0	10·8	10·6	11·7	9·0	5·3	4·2
17	—	6·5	7·0	9·6	10·4	10·4	13·3	11·2	9·7	8·1	3·5	7·2
18	5·7	4·7	7·8	8·6	10·6	15·0	12·7	11·0	8·9	11·5	3·6	5·0
19	—	5·0	10·6	9·8	9·8	19·2	9·6	8·7	12·6	5·0	12·6	5·3
20	3·9	16·6	9·9	12·8	11·4	17·3	8·4	9·2	8·7	6·6	3·8	11·1
21	4·0	12·3	7·5	11·2	16·0	12·2	11·2	9·9	7·6	7·5	5·6	7·4
22	8·0	5·4	10·2	10·1	19·6	11·0	7·2	12·1	8·5	5·2	5·7	3·0
23	12·7	11·0	11·2	7·2	14·4	10·0	5·8	8·5	8·9	14·7	3·0	6·0
24	5·7	7·3	9·6	10·0	8·1	8·0	6·6	8·4	9·6	26·5	14·0	3·4
25	6·6	5·2	9·5	8·4	7·6	9·2	11·2	10·0	7·3	10·8	9·0	3·1
26	3·8	6·6	9·0	9·6	9·4	12·2	12·2	9·6	9·0	5·8	5·5	4·2
27	4·4	4·2	10·0	8·5	11·0	8·8	16·1	9·2	11·0	10·9	3·0	4·8
28	3·6	4·3	8·6	8·2	11·8	8·2	7·8	9·6	7·7	9·6	3·2	3·0
29	22·6	5·0	9·0	9·6	10·9	9·6	11·2	14·2	8·6	5·1	3·3	2·5
30	18·5		20·6	8·4	7·3	11·2	12·0	13·8	7·3	5·7	2·7	2·7
31	4·8		11·7		9·0		11·0	7·8		9·4		2·9
Means	6·4	6·4	9·5	9·5	9·3	10·6	10·2	10·1	10·3	9·4	6·5	5·4

The mean of the twelve monthly values is 8′·60.

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

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

January	1, 12, 13, 14, 20.	April	4, 11, 13, 30.	July	3, 4, 23, 30, 31.	October	11, 12, 14, 29, 30.
February	14, 15, 18, 28, 29.	May	6, 7, 14, 18, 31.	August	11, 12, 20, 21, 25.	November	5, 8, 17, 18, 30.
March	1, 14, 15, 17, 28.	June	3, 6, 7, 8, 14.	September	2, 11, 16, 17, 20.	December	5, 6, 16, 29, 30.

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	0·0	0·6	2·0	2·5	2·5	4·0	5·0	3·5	2·5	2·6	0·4	0·5	1·95
1h.	0·1	0·6	1·8	2·6	2·3	3·9	4·9	3·3	2·3	2·5	0·6	0·9	1·92
2	0·5	0·4	1·8	2·6	2·3	3·8	4·6	3·2	2·4	2·7	0·8	0·9	1·94
3	1·0	0·5	1·5	2·3	2·0	3·5	4·4	2·9	2·4	2·6	0·8	0·9	1·84
4	1·3	0·7	1·3	1·6	1·2	2·5	3·4	2·1	2·1	2·5	0·7	1·0	1·47
5	1·1	0·5	1·3	1·2	0·4	1·3	1·8	1·2	1·4	2·2	0·5	0·8	0·91
6	0·9	0·3	0·9	0·8	0·1	0·6	0·9	0·7	0·6	1·7	0·3	0·5	0·46
7	0·7	0·1	0·4	0·2	0·0	0·1	0·0	0·0	0·0	0·9	0·3	0·4	0·03
8	0·7	0·0	0·0	0·0	0·5	0·0	0·4	0·5	0·5	0·0	0·0	0·1	0·00
9	1·1	0·2	0·8	1·2	1·6	1·0	2·2	2·8	2·1	0·5	0·4	0·3	0·95
10	1·6	1·4	3·1	3·3	3·4	3·6	4·7	5·2	4·6	2·7	1·7	1·0	2·80
11	2·3	2·4	5·1	5·9	6·1	6·9	8·9	7·7	8·1	5·4	2·8	1·7	5·05
Noon.	2·9	3·5	6·5	8·0	7·6	8·7	10·5	9·1	9·9	6·9	3·3	2·6	6·40
13h.	2·7	3·8	6·3	8·5	7·3	9·5	10·4	9·1	9·6	7·4	3·0	2·3	6·43
14	2·0	3·2	5·4	7·1	6·0	8·9	9·5	8·1	7·9	6·5	2·2	1·8	5·49
15	1·6	2·1	4·0	5·5	4·7	7·5	8·1	6·5	5·6	5·1	1·8	1·5	4·27
16	1·4	1·3	2·6	4·5	3·8	6·7	6·9	4·5	3·9	4·1	1·5	1·4	3·32
17	1·4	1·3	2·0	3·9	3·2	5·5	5·6	3·4	3·5	3·6	1·2	1·2	2·75
18	1·4	1·2	2·2	3·1	2·8	4·8	4·9	3·3	3·5	3·1	0·8	0·8	2·43
19	1·1	0·9	2·1	3·2	2·6	4·4	4·9	3·6	3·3	2·7	0·4	0·4	2·24
20	0·8	0·7	1·9	3·3	2·8	4·1	4·9	3·6	3·1	2·1	0·2	0·1	2·07
21	0·8	0·4	1·9	3·2	2·7	4·0	5·1	3·7	2·9	1·9	0·0	0·0	1·99
22	0·6	0·5	2·1	3·3	2·5	4·1	5·1	3·6	2·8	2·0	0·0	0·1	2·00
23	0·4	0·8	2·2	3·4	3·0	4·4	4·9	3·6	2·8	2·2	0·4	0·4	2·15
Means	1·18	1·14	2·47	3·38	2·98	4·33	5·08	3·97	3·66	3·08	1·00	0·90	2·54

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

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

January	10, 22, 23, 29, 30.	April	6, 7, 17, 25, 26.	July	9, 20, 25, 26, 27.	October	18, 23, 24, 25, 27.
February	5, 6, 20, 21, 23.	May	21, 22, 23, 24, 28.	August	5, 17, 18, 29, 30.	November	1, 13, 19, 24, 26.
March	7, 8, 20, 30, 31.	June	10, 11, 18, 19, 20.	September	1, 7, 8, 24, 27.	December	12, 13, 20, 21, 23.

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	2·0	2·9	3·8	2·7	1·1	0·6	3·9	2·1	3·3	1·6	4·1	2·1	1·09
1h.	3·4	3·6	2·7	1·8	1·2	1·5	3·5	1·4	2·0	0·3	4·3	1·9	0·87
2	3·2	4·1	4·0	1·7	1·6	2·6	3·4	2·5	3·6	1·6	5·1	0·9	1·43
3	4·1	5·0	3·7	2·4	4·4	4·3	2·3	2·1	2·9	3·3	4·9	2·6	2·07
4	3·7	4·1	4·0	1·5	5·6	2·8	1·9	1·8	1·2	6·9	4·8	2·7	1·99
5	4·7	3·9	3·4	0·6	4·4	1·7	0·5	1·1	0·5	7·3	4·4	1·6	1·41
6	6·2	4·1	3·6	0·5	3·7	1·2	0·3	0·5	0·9	7·1	4·3	2·1	1·45
7	6·2	4·1	2·8	0·0	2·2	0·7	0·0	0·0	2·7	6·3	4·1	2·4	1·20
8	5·8	3·8	3·1	0·4	2·0	1·5	0·8	0·9	1·8	5·9	4·0	2·7	1·30
9	6·6	3·8	3·8	0·9	2·3	2·3	3·4	3·1	1·0	6·7	4·2	3·3	2·02
10	7·7	4·2	5·9	3·5	5·4	4·6	5·9	6·0	5·8	6·2	5·8	4·7	4·05
11	8·4	6·4	8·3	6·7	7·4	7·8	8·4	9·6	7·6	8·0	7·1	5·1	6·14
Noon.	8·7	7·7	9·9	8·9	8·9	9·9	10·1	11·2	9·2	9·7	8·5	6·1	7·64
13h.	9·1	7·8	10·4	9·9	9·2	11·6	10·7	11·5	9·4	10·2	8·7	5·9	8·10
14	9·0	7·1	9·8	8·4	9·0	11·8	11·2	10·7	8·2	8·2	9·8	5·1	7·60
15	7·2	6·0	8·7	7·7	8·6	11·0	9·3	9·1	6·8	7·3	8·7	4·8	6·50
16	5·3	5·3	7·2	5·8	7·5	11·5	8·8	7·5	5·7	5·9	7·0	4·4	5·40
17	6·4	2·2	6·1	2·7	5·8	9·1	7·7	6·2	4·9	6·3	7·2	4·1	4·30
18	1·6	1·7	5·7	2·8	4·2	5·0	6·1	5·8	2·6	6·3	7·1	3·1	2·90
19	2·9	0·0	4·7	1·7	2·0	3·3	4·0	4·2	1·9	5·8	5·5	2·8	1·80
20	1·1	2·0	1·4	1·4	1·9	3·1	3·9	4·2	0·1	4·6	5·7	2·6	1·24
21	0·0	1·7	0·0	1·4	0·9	0·6	4·0	4·5	0·0	1·5	2·0	1·1	0·05
22	2·6	0·9	0·6	1·2	0·3	1·0	2·9	4·4	2·1	0·0	1·2	0·0	0·00
23	2·6	3·2	0·4	1·4	0·0	0·0	2·7	2·9	1·9	0·7	0·0	1·3	0·00
Means	4·94	3·98	4·75	3·17	4·15	4·56	4·81	4·74	3·59	5·32	5·35	3·06	2·94

TABLE VIII.—MONTHLY and ANNUAL MEAN DIURNAL INEQUALITIES of MAGNETIC NORTH FORCE.

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

1924.

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

TABLE IX.—DIURNAL RANGE of MAGNETIC NORTH FORCE, on each CIVIL DAY, as deduced from Table II.

(*The results are corrected for Temperature and expressed in C.G.S. units.*)

1924.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	13γ	23γ	8γ	29γ	23γ	43γ	35γ	59γ	60γ	—γ	28γ	14γ
2	10	23	28	30	29	43	28	48	49	—	24	22
3	29	13	33	34	11	47	43	34	44	—	33	10
4	12	10	33	29	10	50	45	42	38	45	22	7
5	8	38	40	—	29	38	49	45	50	38	20	12
6	17	21	42	31	37	66	58	56	80	25	32	10
7	20	27	41	13	35	36	57	57	37	59	28	40
8	18	20	33	36	39	56	40	40	56	34	20	33
9	20	—	81	35	39	49	57	35	53	28	22	20
10	76	—	31	31	23	104	43	24	41	36	33	15
11	23	26	33	33	33	98	30	34	29	26	26	22
12	19	13	28	36	23	31	30	35	32	28	22	41
13	10	25	20	28	37	31	42	37	51	41	44	32
14	5	23	17	31	24	33	21	33	31	33	23	32
15	21	18	28	33	30	35	40	34	38	33	19	33
16	—	53	39	34	33	61	40	50	45	43	22	14
17	—	32	20	43	24	47	35	35	35	44	25	15
18	20	21	23	37	28	77	44	61	25	67	20	—
19	—	23	33	30	30	53	52	39	52	27	57	—
20	13	61	56	44	45	69	46	30	36	42	20	19
21	14	44	54	41	89	81	75	35	34	35	18	39
22	51	30	53	49	130	43	42	40	39	29	22	16
23	66	60	58	40	73	54	28	32	61	75	20	25
24	30	25	34	38	50	39	31	37	59	105	92	11
25	26	31	52	62	53	38	35	30	40	49	30	12
26	32	28	38	72	49	33	69	33	31	31	—	16
27	28	25	40	20	49	20	42	15	57	27	—	22
28	16	21	30	26	61	23	27	39	47	27	30	16
29	98	23	40	25	44	41	51	44	28	17	26	15
30	61		82	25	20	75	42	38	30	22	15	—
31	18		67		34		49	47		31		18
Means	27·6	28·0	39·2	35·0	39·8	50·5	42·8	39·3	43·6	39·2	28·3	20·7

The mean of the twelve monthly values is 36·2γ

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

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

January 1, 12, 13, 14, 20.	April 4, 11, 13, 30.	July 3, 4, 23, 30, 31.	October 11, 12, 14, 29, 30.
February 14, 15, 18, 28, 29.	May 6, 7, 14, 18, 31.	August 11, 12, 20, 21, 25.	November 5, 8, 17, 18, 30.
March 1, 14, 15, 17, 28.	June 3, 6, 7, 8, 14.	September 2, 11, 16, 17, 20.	December 5, 6, 16, 29.

1924.

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

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

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

January 10, 22, 23, 29, 30.	April 6, 7, 17, 25, 26.	July 9, 20, 25, 26, 27.	October 18, 23, 24, 25, 27.
February 5, 6, 20, 21, 23.	May 21, 22, 23, 24, 28.	August 5, 17, 18, 29, 30.	November 1, 13, 19, 24.
March 7, 8, 20, 30, 31.	June 10, 11, 18, 19, 20.	September 1, 7, 8, 24, 27.	December 12, 13, 20, 21, 23.

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	25γ	20γ	35γ	37γ	58γ	49γ	26γ	37γ	34γ	35γ	25γ	18γ	30·1γ
1h.	28	21	37	35	58	37	22	38	39	38	25	15	29·6
2	35	21	32	32	65	39	22	31	35	34	25	14	28·9
3	23	20	37	32	54	36	25	32	39	39	27	14	28·3
4	28	28	30	33	57	36	28	27	37	32	30	21	29·1
5	29	25	33	36	49	36	30	24	32	43	33	23	29·6
6	28	28	32	35	40	37	26	23	27	28	32	20	26·5
7	29	28	28	32	32	25	23	17	18	25	31	20	22·5
8	23	26	14	26	16	20	17	9	11	14	29	17	15·3
9	12	21	7	18	0	13	7	2	3	1	20	10	6·3
10	10	16	2	9	2	1	0	0	0	0	18	0	1·6
11	3	7	0	1	3	0	2	1	2	2	16	1	0·0
Noon	3	3	1	0	18	6	2	6	7	0	14	5	2·2
13h.	5	0	9	8	22	16	7	13	12	2	7	9	6·0
14	7	7	9	13	34	27	10	14	13	8	5	11	10·0
15	7	10	13	19	44	32	18	19	20	18	1	13	14·6
16	6	11	25	19	40	45	20	24	25	24	0	14	17·9
17	1	21	23	23	54	41	27	25	26	24	12	16	21·2
18	0	20	22	27	58	43	34	25	23	26	15	18	22·7
19	5	29	34	27	55	46	39	26	20	25	11	18	24·7
20	5	26	26	27	48	37	38	25	25	30	14	17	23·3
21	15	24	36	27	45	36	37	26	33	38	17	18	26·2
22	8	20	35	27	48	40	28	31	22	37	11	15	23·6
23	18	18	37	27	48	47	24	33	26	27	19	14	25·0
Means	14·7	18·8	23·2	23·8	39·5	31·0	21·3	21·2	22·0	22·9	18·2	14·2	19·4

TABLE XII.—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.*)

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	4γ	5γ	10γ	18γ	19γ	16γ	21γ	16γ	15γ	9γ	4γ	1γ	10·8γ
1h.	1	4	10	17	18	15	20	16	14	8	3	2	10·0
2	0	3	10	17	18	15	18	16	14	7	3	3	9·6
3	0	4	9	17	17	16	19	16	12	6	3	3	9·5
4	2	5	9	19	19	18	21	18	13	6	2	3	10·6
5	3	6	10	19	21	20	21	20	15	6	3	3	11·6
6	7	7	12	21	20	20	21	21	17	7	4	3	12·6
7	5	6	14	21	19	21	20	20	16	8	4	3	12·4
8	7	6	12	17	15	16	15	16	15	7	4	4	10·5
9	2	5	8	11	8	9	13	9	7	5	2	5	6·3
10	1	2	3	5	2	3	6	3	2	1	0	5	2·1
11	1	0	1	0	0	0	0	0	0	0	2	4	0·0
Noon	2	1	0	1	5	4	4	2	2	3	4	4	2·0
13h.	5	3	1	7	12	9	9	6	7	6	9	1	5·6
14	7	7	10	15	17	15	16	13	13	10	10	1	10·5
15	8	9	15	20	25	22	21	19	18	15	10	0	14·5
16	11	10	18	23	31	29	25	23	20	17	10	1	17·5
17	11	11	19	24	33	32	27	24	20	17	9	1	18·3
18	12	10	18	24	33	32	28	22	21	16	10	1	18·2
19	13	10	17	23	31	29	26	21	21	15	10	2	17·5
20	12	10	16	22	29	25	24	20	19	15	9	2	16·2
21	10	9	15	21	26	22	22	20	18	15	9	2	15·1
22	7	8	13	20	25	19	20	19	17	13	8	1	13·5
23	6	6	11	22	22	17	18	18	12	11	6	1	11·8
Means	5·7	6·1	10·9	16·8	19·4	17·7	18·1	15·8	13·7	9·3	5·8	2·3	11·1

TABLE XIII.—DIURNAL RANGE of VERTICAL MAGNETIC FORCE, on each CIVIL DAY, as deduced from Table III.

(*The results are corrected for Temperature and expressed in C.G.S. units.*)

1924.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	9γ	11γ	11γ	19γ	22γ	36γ	22γ	36γ	28γ	23γ	—γ	—γ
2	9	8	15	22	28	30	25	25	25	23	—	—
3	28	11	19	31	25	32	34	33	31	22	—	—
4	13	6	14	25	30	40	25	31	31	25	—	—
5	8	16	34	24	65	26	27	31	32	26	28	—
6	11	16	34	36	30	35	24	29	41	—	13	1
7	12	22	23	40	41	28	29	28	53	—	—	15
8	11	13	20	30	37	36	33	23	46	—	—	14
9	52	8	26	28	26	31	51	20	23	—	—	7
10	30	16	20	22	32	142	35	27	33	—	—	9
11	18	18	16	33	27	61	33	24	21	—	—	10
12	27	7	16	21	39	—	21	23	31	—	—	21
13	21	13	24	18	37	—	20	28	19	—	—	—
14	14	60	18	27	22	21	21	20	17	—	—	—
15	14	55	22	27	34	36	—	24	25	—	11	—
16	14	15	23	24	34	31	29	28	34	—	10	—
17	10	11	18	19	28	31	33	35	26	—	16	—
18	9	10	28	19	34	58	32	41	23	—	11	—
19	12	13	19	31	32	67	20	18	26	—	—	—
20	10	36	16	34	47	64	32	27	19	—	10	—
21	14	19	26	32	47	33	25	27	24	—	13	18
22	27	21	27	26	130	29	18	26	17	—	20	9
23	34	21	28	25	65	22	29	17	16	—	7	13
24	22	15	21	30	37	26	20	28	41	—	—	11
25	11	15	26	23	37	31	29	28	18	28	—	10
26	19	17	21	40	32	31	28	19	20	15	—	14
27	14	12	26	28	31	36	48	21	31	—	—	14
28	8	12	20	31	80	20	28	—	24	22	—	10
29	108	16	28	28	26	31	20	—	26	—	—	10
30	106		36	25	29	20	30	31	21	—	—	7
31	15		27		37		26	24		21		24
Means	22·9	17·7	22·6	27·3	39·4	38·7	28·2	26·6	27·4	22·8	13·9	12·1

The mean of the twelve monthly values is 25·0 γ.

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

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

January 1, 12, 13, 14, 20.
February 14, 15, 18, 28, 29.
March 1, 14, 15, 17, 28.
April 4, 5, 11, 13, 30.
May 6, 7, 14, 18, 31.
June 3, 6, 7, 8, 14.
July 3, 4, 23, 30, 31.
August 11, 12, 20, 21, 25.
September 2, 11, 16, 17, 20.

1924.

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

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

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

January 10, 22, 23, 29, 30.
February 5, 6, 20, 21, 23.
March 7, 8, 20, 30, 31.
April 6, 7, 17, 25, 26.
May 21, 22, 23, 24, 28.
June 10, 11, 18, 19, 20.
July 9, 20, 25, 26, 27.
August 5, 17, 18, 30.
September 1, 7, 8, 24, 27.

1924.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December	For 9 months.
Midnight	18γ	6γ	5γ	16γ	7γ	7γ	17γ	21γ	16γ	—	—	—	9·8γ
1h.	1	5	4	14	7	4	16	19	13	—	—	—	6·5
2	0	5	3	17	3	0	16	18	10	—	—	—	5·3
3	5	3	2	17	0	2	18	14	0	—	—	—	4·1
4	10	3	2	17	0	3	19	19	6	—	—	—	6·1
5	14	4	5	16	1	11	17	22	12	—	—	—	8·6
6	16	5	8	18	5	13	18	24	14	—	—	—	10·8
7	17	5	9	17	9	15	15	25	14	—	—	—	11·3
8	17	4	7	14	5	14	10	20	12	—	—	—	8·7
9	17	2	5	7	2	10	6	11	8	—	—	—	4·9
10	15	1	3	3	2	2	1	6	5	—	—	—	1·5
11	16	0	1	0	5	0	0	0	2	—	—	—	0·0
Noon	17	4	0	1	15	4	3	6	1	—	—	—	3·0
13h.	21	9	4	10	24	14	9	10	7	—	—	—	9·3
14	24	14	9	17	32	27	19	15	14	—	—	—	16·3
15	26	19	14	24	41	44	26	23	18	—	—	—	23·4
16	31	18	17	24	51	58	29	29	20	—	—	—	28·1
17	33	19	18	28	56	60	32	31	23	—	—	—	30·6
18	37	17	18	27	53	59	35	32	29	—	—	—	31·4
19	46	14	16	25	49	51	33	29	30	—	—	—	29·9
20	41	10	16	24	39	39	30	28	24	—	—	—	25·2
21	34	7	15	20	32	31	26	27	16	—	—	—	20·4
22	27	5	11	22	27	25	23	26	13	—	—	—	17·2
23	20	5	7	21	18	21	19	25	16	—	—	—	14·2
Means	21·0	7·7	8·3	16·6	20·1	21·4	18·2	20·0	13·5	—	—	—	13·6

TABLE XVI.—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 IV, VIII and XII.

The coefficients, a, b, c, are given in units of 1γ (0·00001 C.G.S. units) for N.F. and V.F. and in minutes of arc ($1' = 5{\cdot}37\ \gamma$) 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′.	April	+ 0°. 4′.	July	+ 1°.21′.	Oct.	− 0°.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, 1924.	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 ..	− 1·38	− 0·03	+ 0·24	+ 0·65	− 0·23	− 0·07	+ 0·19	+ 0·07	1·38	268·8	0·69	20·3	0·22	253·1	0·22	69·8
February .	− 1·30	− 0·29	+ 0·58	+ 0·82	− 0·22	− 0·25	+ 0·10	+ 0·19	1·33	257·4	1·00	35·3	0·33	221·3	0·22	27·8
March	− 1·99	− 1·18	+ 0·93	+ 1·60	− 0·62	− 0·49	+ 0·35	+ 0·21	2·31	239·3	1·85	30·2	0·79	231·7	0·40	59·0
April	− 1·56	− 1·85	+ 1·29	+ 1·70	− 0·65	− 0·67	+ 0·27	+ 0·24	2·42	220·1	2·13	37·2	0·93	224·1	0·36	48·4
May	− 1·72	− 1·64	+ 1·26	+ 1·29	− 0·72	− 0·31	+ 0·15	− 0·02	2·38	226·4	1·80	44·3	0·79	246·7	0·13	97·6
June	− 1·71	− 2·61	+ 1·33	+ 1·93	− 0·51	− 0·32	+ 0·03	+ 0·03	3·12	213·2	2·34	34·6	0·60	237·9	0·04	45·0
July	− 1·61	− 2·74	+ 1·49	+ 1·68	− 0·71	− 0·29	+ 0·15	− 0·01	3·18	210·4	2·25	41·6	0·76	247·8	0·13	123·7
August ...	− 1·75	− 2·14	+ 1·79	+ 1·33	− 0·89	− 0·46	+ 0·08	+ 0·09	2·76	219·3	2·23	53·3	1·00	242·7	0·13	41·6
September	− 2·41	− 1·60	+ 1·36	+ 1·17	− 0·75	− 0·31	+ 0·36	+ 0·20	2·89	236·4	1·79	49·3	0·81	247·5	0·41	60·9
October ..	− 1·94	− 1·03	+ 0·43	+ 1·20	− 0·90	− 0·60	+ 0·46	+ 0·24	2·20	242·0	1·27	19·7	1·08	236·3	0·52	62·4
November.	− 1·41	− 0·57	+ 0·16	+ 0·92	− 0·50	− 0·08	+ 0·16	+ 0·10	1·52	248·0	0·94	9·9	0·51	260·9	0·22	9·1
December.	− 0·96	− 0·35	+ 0·26	+ 0·62	− 0·33	+ 0·07	+ 0·16	+ 0·09	1·02	250·0	0·67	22·8	0·33	282·0	0·22	60·6
For the Year	− 1·64	− 1·34	+ 0·92	+ 1·24	− 0·58	− 0·31	+ 0·21	+ 0·12	2·12	230·7	1·55	36·6	0·66	241·9	0·22	60·3
	NORTH FORCE.															
January ..	+ 2·1	+ 3·9	− 2·3	− 0·3	+ 1·2	− 0·4	− 0·3	+ 0·7	4·4	28·3	2·3	262·6	1·3	108·4	0·8	336·8
February..	+ 5·1	+ 1·9	− 4·1	− 2·0	+ 1·6	− 0·8	− 0·4	+ 1·1	5·4	69·6	4·5	244·0	1·8	116·6	1·2	340·0
March	+ 10·6	+ 2·1	− 4·8	− 1·1	+ 2·1	− 1·9	− 0·2	+ 1·0	10·8	78·8	4·9	257·1	2·8	132·1	1·0	348·7
April	+ 10·5	+ 0·2	− 6·4	+ 0·2	+ 3·0	− 1·2	− 0·1	+ 1·1	10·5	88·9	6·4	271·7	3·2	111·8	1·1	354·8
May	+ 11·7	− 2·3	− 6·3	+ 1·6	+ 0·6	− 0·7	+ 0·7	+ 0·7	11·9	101·1	6·5	284·2	0·9	139·4	1·0	45·0
June	+ 14·0	− 2·7	− 7·5	− 0·9	+ 1·8	− 0·3	0·0	− 0·4	14·3	100·9	7·6	263·2	1·8	99·5	0·4	180·0
July	+ 12·7	− 2·8	− 8·3	+ 1·1	+ 0·5	− 1·8	+ 0·5	+ 0·7	13·0	102·4	8·4	277·5	1·9	164·5	0·9	35·5
August ...	+ 12·8	− 2·7	− 5·5	+ 1·8	+ 0·6	− 1·1	+ 0·7	+ 0·8	13·1	101·9	5·8	288·1	1·3	151·4	1·0	41·2
September	+ 13·0	− 0·6	− 5·1	+ 2·0	+ 0·7	− 1·8	+ 0·4	+ 0·9	13·0	92·7	5·5	291·4	1·9	158·7	1·0	24·0
October ..	+ 11·6	+ 2·2	− 5·4	− 0·3	+ 1·9	− 2·0	+ 0·5	+ 1·5	11·8	79·3	5·4	266·8	2·8	136·5	1·6	18·4
November.	+ 4·0	+ 3·4	− 4·0	− 1·9	+ 1·1	− 1·1	+ 0·3	+ 0·6	5·3	49·6	4·4	244·6	1·6	135·0	0·7	26·6
December.	+ 2·2	+ 2·3	− 2·8	− 1·1	+ 1·2	− 1·7	− 0·1	+ 0·7	3·2	43·7	3·0	248·6	2·1	144·8	0·7	8·1
For the Year	+ 9·27	+ 0·31	− 5·24	− 0·21	+ 1·22	− 1·31	+ 0·08	+ 0·83	9·27	88·1	5·25	267·7	1·79	137·0	0·84	5·6
	VERTICAL FORCE.															
January ..	+ 0·6	− 4·4	− 2·8	− 1·9	+ 1·1	− 0·9	0·0	+ 0·7	4·4	172·2	3·4	235·8	1·4	129·3	0·7	0·0
February .	+ 1·3	− 2·6	− 2·7	− 0·8	+ 1·2	− 0·4	− 0·8	+ 0·4	2·9	153·4	2·8	253·5	1·3	108·4	0·9	296·6
March	+ 3·3	− 3·2	− 5·0	− 1·1	+ 2·7	+ 0·5	− 1·0	− 0·2	4·6	134·1	5·1	257·6	2·8	79·5	1·0	258·7
April	+ 5·9	− 2·3	− 6·2	− 0·4	+ 3·5	− 0·7	− 0·8	+ 0·1	6·3	111·3	6·2	266·3	3·6	101·3	0·8	321·3
May	+ 6·7	− 6·8	− 7·8	+ 0·2	+ 2·6	− 0·9	− 0·1	+ 0·4	9·6	135·4	7·8	271·5	2·8	109·1	0·4	346·0
June	+ 5·1	− 5·3	− 8·8	− 0·3	+ 2·4	+ 0·1	0·0	+ 0·6	7·4	136·1	8·8	268·0	2·4	87·6	0·6	0·0
July	+ 6·0	− 3·1	− 6·7	+ 0·2	+ 2·4	+ 0·2	− 0·7	+ 0·4	6·8	117·3	6·7	271·7	2·4	85·2	0·8	299·7
August ...	+ 5·6	− 2·0	− 6·6	− 0·1	+ 3·2	− 0·8	− 0·4	0·0	5·9	109·7	6·6	269·1	3·3	104·0	0·4	270·0
September.	+ 4·4	− 3·1	− 5·5	− 0·2	+ 2·6	− 0·6	− 1·0	+ 1·0	5·4	125·2	5·5	267·9	2·7	103·0	1·4	315·0
October ..	+ 2·8	− 5·2	− 3·0	− 0·3	+ 2·0	− 0·3	− 0·8	− 0·1	5·9	151·7	3·0	264·3	2·0	98·5	0·8	262·9
November.	+ 0·3	− 4·1	− 1·2	+ 0·2	+ 0·7	− 1·4	− 0·7	+ 0·7	4·1	175·8	1·2	279·5	1·6	153·4	1·0	315·0
December.	− 0·7	+ 1·3	+ 0·2	− 0·8	− 0·7	+ 0·4	− 0·1	− 0·2	1·5	331·7	0·8	166·0	0·8	299·7	0·3	206·6
For the Year	+ 3·34	− 3·41	− 4·69	− 0·43	+ 1·93	− 0·39	− 0·50	+ 0·28	4·77	135·6	4·70	264·8	1·90	101·4	0·57	299·3

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

Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
Jan. 1. 13. 0	13. 31·0	13. 59·0	Mar. 24. 12. 50	13. 33·9	13. 59·7	Apr. 30. 10. 15	13. 24·8	13. 58·3
3. 15. 49	29·4	59·5	25. 14. 50	32·8	59·6	11. 31	28·0	58·9
4. 11. 28	30·9	59·6	16. 15	29·1	59·3			
13. 2	30·9	59·2	26. 11. 5	27·1	59·2	May 1. 10. 18	24·6	58·3
8. 9. 23	28·7	59·4	12. 13	30·4	59·3	11. 37	27·7	57·9
11. 20	30·1	59·8	14. 24	32·2	59·4	2. 9. 59	24·3	58·3
9. 14. 17	31·0	59·4	27. 11. 40	29·6	59·1	11. 48	27·2	58·2
10. 9. 14	31·9	59·3	12. 40	32·9	59·3	3. 10. 15	23·3	58·2
11. 9. 34	28·9	59·1	14. 17	32·7	59·0	11. 32	26·0	57·8
10. 42	30·0	59·4	28. 11. 42	29·4	58·7	5. 14. 9	30·3	58·9
12. 59	30·0	59·2	14. 44	30·1	59·3	14. 31	29·8	59·0
15. 10. 15	30·2	59·0	16. 3	27·5	59·3	15. 19	27·3	58·7
13. 0	31·1	59·0	29. 10. 44	29·0	59·1	6. 10. 35	24·5	58·4
16. 10. 51	32·1	59·1	12. 32	32·1	59·2	11. 38	27·5	58·5
13. 0	32·6	59·8	31. 10. 3	26·9	59·1	7. 10. 12	22·5	58·2
17. 11. 21	32·5	59·3	12. 18	31·3	59·0	11. 11	25·0	58·2
18. 11. 39	31·2	59·0				8. 11. 12	27·2	58·8
13. 32	32·2	59·3				14. 21	30·3	58·5
21. 11. 37	29·5	59·4	Apr. 1. 9. 59	24·6	58·6	9. 8. 47	20·6	58·4
22. 11. 25	28·8	58·6	12. 16	29·9	58·9	9. 14	21·4	58·5
23. 12. 10	32·8	59·7	14. 49	30·0	59·1	9. 54	22·7	58·5
13. 0	34·5	59·4	2. 10. 22	24·9	58·6	10. 9. 10	21·5	58·2
25. 13. 11	30·9	59·3	12. 22	30·1	58·8	10. 21	23·5	58·5
26. 12. 17	31·2	59·6	3. 14. 17	31·0	58·7	11. 33	24·7	58·4
29. 10. 55	33·1	58·5	15. 59	28·2	58·9	12. 10. 59	26·4	58·5
31. 12. 11	30·7	59·5	4. 10. 18	25·4	58·6	14. 34	24·9	57·9
			11. 58	30·0	58·9	13. 9. 41	24·9	58·2
Feb. 5. 11. 25	29·5	58·7	5. 12. 24	33·0	58·7	11. 15	27·5	58·3
6. 16. 41	27·0	58·7	7. 10. 43	27·6	58·8	14. 9. 51	22·0	58·0
7. 11. 11	29·5	58·7	11. 0	28·7	58·7	11. 33	25·3	58·0
9. 9. 17	28·3	58·8	11. 40	31·7	59·1	15. 10. 39	24·9	58·2
11. 11. 13	29·8	58·8	12. 45	34·9	59·1	11. 59	27·5	58·3
12. 10. 38	30·6	59·0	8. 11. 17	30·1	59·2	16. 9. 32	21·2	58·1
13. 12. 28	30·7	59·1	12. 0	31·2	59·1	9. 59	22·2	58·1
14. 10. 17	27·7	58·7	12. 40	31·7	58·9	11. 33	25·7	58·1
13. 7	31·6	59·0	9. 10. 49	26·9	58·6	17. 10. 29	25·3	58·4
15. 10. 11	28·4	58·8	12. 32	32·4	59·9	11. 10	27·5	58·2
19. 11. 40	30·7	59·3	10. 10. 30	25·2	59·2	19. 14. 13	29·4	58·5
13. 10	31·0	59·3	11. 34	27·8	59·1	15. 10	27·9	58·7
22. 10. 42	28·3	58·9	12. 25	30·1	59·0	20. 10. 40	24·9	58·8
13. 0	31·5	58·9	11. 11. 15	26·9	59·7	12. 10	29·2	58·2
23. 12. 50	29·5	58·7	12. 16	30·4	59·1	21. 10. 22	27·0	58·3
25. 10. 42	30·1	59·0	12. 36	31·6	59·3	11. 40	28·9	58·7
26. 10. 50	29·5	58·8	12. 11. 10	26·9	58·8	15. 0	32·1	58·3
12. 35	29·9	58·8	12. 4	28·8	59·0	22. 10. 10	25·0	58·8
27. 10. 10	27·7	58·6	12. 31	29·3	59·2	12. 5	30·0	58·7
28. 11. 16	29·1	58·5	14. 9. 37	22·2	58·6	23. 10. 5	24·1	58·4
14. 57	28·8	58·8	11. 29	26·5	59·2	11. 54	26·9	58·3
29. 12. 0	30·9	58·8	15. 10. 30	22·4	58·2	24. 10. 35	24·0	58·3
13. 18	30·2	58·6	13. 20	29·2	59·2	11. 36	26·1	58·3
			16. 10. 11	25·2	58·4	26. 10. 14	21·2	58·0
Mar. 4. 11. 10	28·9	59·0	11. 45	28·4	58·7	11. 45	24·8	58·0
12. 40	29·9	58·9	17. 9. 15	22·9	58·7	27. 9. 45	21·5	58·2
6. 16. 0	32·5	59·1	11. 50	30·0	58·9	11. 34	27·3	58·0
7. 13. 20	34·4	59·4	22. 9. 47	22·5	59·1	28. 9. 34	24·4	58·2
8. 10. 51	27·1	59·1	11. 17	26·5	59·2	11. 10	27·0	58·2
10. 10. 51	28·5	59·0	23. 10. 0	24·2	59·0	29. 8. 27	20·0	58·1
11. 11. 25	30·9	59·6	10. 59	26·7	59·0	10. 25	24·4	58·2
12. 45	32·8	59·0	11. 25	27·7	59·2	30. 10. 40	25·9	58·7
17. 12. 10	30·2	58·9	24. 10. 6	22·0	58·8			
15. 52	27·6	58·7	12. 6	29·0	58·9	June 2. 10. 20	23·2	58·5
18. 11. 18	28·8	58·5	25. 11. 4	25·8	58·9	11. 25	26·2	58·3
13. 44	31·8	58·7	12. 17	28·3	59·3	4. 10. 27	23·7	58·5
19. 10. 18	27·6	59·4	26. 9. 46	25·5	59·2	11. 43	26·7	58·7
12. 8	33·6	59·3	10. 51	28·5	58·8	5. 10. 30	[24·4]	[14. 0·7]
12. 15	33·0	59·2	11. 17	29·9	59·0	6. 13. 50	28·7	13. 58·9
21. 11. 12	29·6	58·9	28. 10. 1	24·5	58·4	14. 58	27·3	58·8
13. 15	31·8	59·4	11. 35	30·1	[14. 0·1]	7. 9. 10	18·3	58·3
22. 10. 5	24·8	59·1	29. 10. 13	25·1	13. 58·9	10. 9. 25	24·2	58·4
24. 11. 30	31·2	59·2	11. 38	28·5	58·7	11. 8	28·9	58·7

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

Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1924.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
June 11. 11. 51	13. 27·7	13. 58·7	Aug. 1 11. 40	13. 26·9	13. 59·3	Oct. 9. 14. 23	13. 22·5	13. 59·0
12. 9. 35	22·3	58·3	2. 9. 59	19·6	59·1	11. 9. 38	16·7	57·7
11. 43	24·9	58·5	11. 9	24·1	58·4	12. 4	24·1	59·0
13. 9. 51	21·7	58·5	5. 9. 16	18·1	58·6	13. 10. 11	18·7	58·8
11. 51	24·4	58·2	11. 15	24·7	58·9	12. 10	24·1	59·0
14. 8. 45	18·5	58·4	6. 9. 9	19·6	58·7	15. 10. 57	21.1	58.9
10. 27	22·2	58·3	10. 55	20·9	58·6	17. 10. 13	18·2	58·9
16. 10. 9	20·2	58·4	7. 9. 59	19·8	58·7	12. 8	21·1	58·1
11. 50	27·1	58·4	11. 30	22·5	58·6	12. 40	22·8	58·7
17. 10. 27	22·8	58·1	8. 9. 41	17·4	58·8	20. 10. 44	19·3	59·4
19. 11. 14	22·5	58·5	11. 29	19·8	58·6	22. 10 13	19·0	58·7
20. 10. 9	22·8	58·8	9. 9. 35	20·2	58.6	12. 11	21·9	58·8
11. 35	25·1	58·8	10. 58	24·6	58·6	24. 11. 0	20·6	58·9
21. 9. 55	19·7	59·0	11. 11. 7	25·1	59·2	28. 11. 56	21·6	58·5
11. 47	26·6	58·5	12. 11. 16	25·3	59·1	13. 26	22·5	59·0
11. 55	27·1	58·4	15. 31	22·6	58·6	30. 14. 30	21·3	58·4
23. 11. 13	23·8	58·1	13. 14. 6	27·6	58·6	15. 47	20·2	58·2
13. 18	26·5	58·3	14. 12	27·8	59·0			
25. 9. 47	[20·8]	[59·7]	15. 10. 0	20·4	58·5	Nov. 1. 10. 17	19·5	59·3
27. 13. 19	26·3	58·5	11. 47	25·2	58·5	3. 12. 16	23·0	58·6
28. 8. 11	20·1	58·3	15. 27	23·2	58·9	12. 44	23·2	58·7
10. 9	21·6	58·4	16. 12. 8	26·8	59·3	4. 10. 40	20.9	58·9
30. 15. 32	27·7	58·9	19. 10. 32	22·8	58·7	12. 14	21·3	58·6
			12. 34	25·8	58·7	6 9. 58	18·8	58·4
July 1. 11. 20	24·4	58·4	21. 10. 52	22·5	58·8	12. 52	20.8	58.8
2. 9. 42	18·1	58·5	22. 9. 55	19·5	58·4	8. 10. 1	18·5	58·5
3. 10. 53	23·4	58·2	23. 9. 35	19·1	58·9	11. 57	20·9	58.6
11. 25	25·8	58·7	26. 10. 38	25·5	58·7	10. 10. 4	16·9	58·5
4. 9. 38	18·9	58·6	12. 8	27·6	58·8	15. 15	20.6	58·6
12. 2	28·9	58·6	27. 11. 12	25·6	58·9	12. 10. 45	18.9	58.5
5. 9. 15	17·7	58·4	28. 11. 14	24·0	58·8	12. 44	20·8	58.8
11. 30	25·0	58·8	29. 11. 46	27·0	58·7	14. 10. 20	18·4	58·9
7. 11. 55	26·4	58·5	30. 10. 44	24·2	58·9	12. 43	21.1	59·3
8. 9. 45	20·3	58·9				15. 11. 17	19.5	58.5
10. 45	22·8	58·6	Sept. 1. 10. 13	26·7	58·9	11. 47	20.7	58·7
9. 9. 46	19·2	58·8	2. 10. 36	23·5	58·5	17. 10. 18	18·6	59·0
10. 10. 51	20·7	58·6	12. 5	27·6	58·9	12. 9	20·5	58·9
14. 11. 37	23·6	58·8	3. 10. 28	23·4	58·5	19. 10. 42	19·7	59.0
12. 0	24·6	59·1	5. 13. 41	26·3	59·0	12. 37	21.7	58·9
15. 10. 5	18·4	58·6	8. 14. 20	24·2	59·1	21. 10. 16	18·7	57·7
13. 47	28·8	59·4	9. 11. 5	24·0	58·6	11. 52	20.9	58·9
15. 12	26·3	58·7	12. 10	26·0	58·9	25. 11. 7	18.8	59.0
16. 10. 46	23·2	58·8	10. 9. 38	20·4	58·6	26. 10. 42	18·8	58.5
11. 37	24·3	58·7	11. 9. 38	20·3	58·6	28. 10. 28	18·5	58.8
17. 8. 55	14·5	58·4	11. 33	25·2	58·9	11. 59	19·3	58.6
10. 20	19·4	58·6	12. 10. 5	21·2	58·7			
18. 10. 15	22·3	58·6	11. 50	25·3	58·4	Dec. 4. 15. 5	18.0	58.5
11. 39	26·2	58·7	15. 13. 43	26·1	58·8	5. 12. 59	19·8	58·8
19. 9. 43	20·2	59·0	15. 15	22·1	58·9	6. 9. 54	17·6	58·8
11. 9	24·9	58·5	16. 9. 28	18·8	58·7	11. 36	18·9	59·1
21. 10. 19	25·1	58·8	11. 39	26·8	58·8	9. 11. 50	20·6	59·1
13. 21	28·4	58·7	18. 8. 28	17.1	58.5	13. 34	20·1	59·1
22. 8. 53	19·1	58·5	10. 28	20·5	58·6	12. 10. 50	20·1	59·3
10. 20	20·3	58·5	19. 8. 47	16·6	58·6	13. 11. 4	18·7	59·0
23. 10. 21	22·1	58·4	10. 54	22·3	58·6	11. 10	18·2	59·2
24. 10. 5	21·3	58·5	22. 9. 57	18·3	58·7	16. 10. 52	18·3	59·1
12. 5	25·8	58·8	11. 47	23·3	58·4	11. 59	18·9	58·9
25. 11. 37	26·2	58·3	24. 10. 16	18·6	58·6	13. 29	19·1	58·6
26. 8. 55	19·8	58·6	12. 4	23·4	58·7	17. 10. 59	19·0	59·7
10. 31	27·8	58·8	26. 10. 14	20·1	58·8	18. 12. 28	19·6	58·8
28. 9. 55	19·7	58·7	12. 4	24·5	58·6	19. 11. 13	19·5	58·9
11. 27	24·7	58·9	29. 10. 45	22·7	58·9	13. 30	20·3	59·1
29. 10. 25	20·8	58·5	12. 42	24·5	58·7	22. 12. 12	18·5	58·9
11. 25	23·9	58·8	30. 10. 27	20·1	59·1	23. 10. 38	17·8	59·3
30. 10. 22	21·3	58·7	12. 18	24·2	59·2	12. 17	19·5	58·9
12. 0	28·3	59·0				24. 10. 53	18·6	59·0
31. 9. 50	19·8	58·7	Oct. 4. 9. 51	18·9	58·8	12. 19	19·0	59·0
11. 0	23·5	58·6	11. 53	26·0	59·0	30. 11. 23	17·2	58·9
			6. 10. 44	20·7	58·7	13. 6	18·2	58·8
Aug. 1. 10. 25	[23·5]	[59·8]	12. 51	24·0	58·8	31. 11. 38	17·6	59·2
			9. 11. 23	22·8	59·3	13. 36	17·4	58·8

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

Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.
d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+
Jan. 1. 12 0–13 0	409	851	Mar. 28. 15 24–16 9	429	870	May 8. 14 30–15 22	441	901
4. 12 10–13 2	417	856	29. 11 1–12 8	408	861	9. 9 10–9 59	431	894
8. 11 30–12 30	412	852	31. 10 23–11 25	376	857	10. 9 10–9 58	432	896
11. 12 1–12 55	438	866	Apr. 1. 10 18–11 50	392	857	12. 13 19–14 25	431	877
18. 12 9–13 27	403	838	1. 15 6–16 1	421	869	13. 9 53–10 49	411	880
22. 12 20–13 10	409	841	2. 10 49–11 53	408	870	14. 10 5–10 51	432	893
25. 11 32–12 51	418	865	2. 14 25–15 19	422	859	15. 10 50–11 41	418	887
30. 15 15–16 15	401	866	3. 14 31–15 32	428	868	16. 10 15–11 8	420	883
Feb. 1. 12 30–13 23	413	870	4. 10 33–11 31	410	871	17. 11 29–12 8	423	888
5. 11 55–13 0	426	860	5. 11 8–12 3	413	870	19. 14 25–15 20	427	882
8. 11 57–13 2	428	871	7. 10 55–11 49	422	863	20. 10 55–11 50	394	886
12. 11 25–12 7	425	867	8. 11 54–12 47	410	866	22. 10 50–12 0	359	897
15. 11 13–12 23	429	872	9. 11 15–12 6	412	874	23. 10 30–11 32	403	908
19. 12 8–13 5	421	865	10. 10 53–11 43	408	871	24. 10 55–11 45	393	897
22. 11 53–12 55	426	880	11. 11 32–12 22	404	865	26. 10 29–11 20	396	889
26. 11 35–12 40	427	873	12. 11 24–12 12	419	870	27. 10 6–10 57	399	882
29 12 11–13 12	433	876	14. 9 55–11 1	408	858	28. 9 46–10 43	377	891
Mar. 4. 11 38–12 32	423	871	15. 10 43–11 42	402	863	29. 8 51– 9 55	393	887
6. 11 10–12 45	433	870	16. 10 15–11 17	388	847	30. 10 37–11 48	426	902
7. 12 30–13 17	417	866	17. 9 27–10 19	408	864	June 2. 10 43–11 31	404	897
11. 11 58–12 51	410	856	23. 11 20–12 6	395	861	4. 10 47–11 48	401	895
14. 12 38–13 31	430	869	24. 10 46–11 59	419	877	6. 14 10–15 4	424	903
18. 12 32–13 40	418	865	25 11 23–12 10	403	869	10. 9 36–10 30	394	882
21. 11 34–12 32	415	875	26. 11 1–11 55	390	888	12. 9 53–10 43	406	890
24. 11 50–12 37	395	860	28. 10 17–11 15	411	868	13. 10 4–11 11	393	881
24. 14 25–16 0	440	884	29. 10 25–11 18	408	865	14. 8 55– 9 40	385	883
25. 10 23–11 31	382	867	30. 10 26–11 16	411	869	16. 10 43–11 40	402	894
25. 15 10–16 10	428	881	May 1. 10 27–11 14	408	866	20. 10 30–11 32	372	907
26. 11 25–12 16	395	871	2. 11 7–11 50	404	870	21. 11 5–11 50	407	903
26. 14 52–16 0	407	865	3. 10 27–11 16	420	865	23. 13 29–14 18	409	896
27. 12 0–12 48	417	882	5. 14 30–15 15	429	879	25. 11 25–12 6	406	893
27. 14 29–15 45	424	876	6. 10 54–11 45	410	888	27. 13 32–14 24	431	899
28. 10 24–11 20	406	868	7. 10 32–11 18	406	886	28. 8 30– 9 17	408	892

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

Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.	Greenwich Civil Time, 1924.	In C.G.S. Units. Value of observed Horizontal Force.	In C.G.S. Units. Deduced value of North Force Base-line.
d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+	d h m h m	·18000+	·17000+
July 1. 11 15–12 0	403	912	Aug. 8. 9 57–10 58	413	922	Oct. 15. 11 12–12 14	413	987
3. 9 50–10 40	394	914	9. 9 42–10 37	415	925	17. 10 26–11 56	404	990
4. 10 45–11 45	398	899	12. 13 51–15 17	460	945	20. 10 57–12 6	424	1010
5. 10 15–11 11	414	926	15. 13 46–15 18	448	940	22. 10 27–11 21	408	992
7. 10 22–11 43	389	902	19. 11 8–12 29	429	938	23. 10 36–11 35	403	1012
9. 13 50–14 47	435	916	22. 10 51–11 58	419	928	28. 12 7–13 15	426	1011
14. 10 33–11 45	430	916	26. 10 58–12 1	432	925	30. 14 58–15 45	427	1002
15. 14 14–15 20	426	902	30. 10 50–11 57	453	966	Nov. 1. 10 29–12 19	416	996
16. 10 44–11 45	413	915	Sept. 2. 10 57–12 1	407	935	4. 10 53–12 10	424	1005
17. 9 20–10 50	419	922	5. 14 0–15 12	437	938	6. 10 13–11 15	434	1001
18. 10 40–11 40	410	912	9. 11 9–12 4	424	941	8. 10 23–11 25	412	999
19. 10 30–11 15	417	929	11. 9 54–11 4	423	943	10. 10 18–11 26	405	993
21. 10 30–12 0	407	924	12. 10 16–11 26	415	947	12. 11 13–12 10	414	1000
22. 9 4–10 2	426	920	16. 9 40–11 13	405	936	14. 11 15–12 36	412	997
23. 8 18–9 7	425	925	18. 8 37–9 58	424	930	17. 11 5–12 5	411	994
24. 9 9–10 2	421	920	19. 9 23–10 38	410	940	19. 11 16–12 13	435	993
25. 8 44–9 39	442	926	23. 10 40–11 45	410	934	21. 10 58–11 49	412	991
26. 9 10–10 7	398	915	24. 10 25–11 36	398	936	28. 10 48–11 49	423	997
28. 10 18–11 11	429	921	26. 10 32–11 36	414	939	Dec. 4. 12 10–13 6	421	1002
29. 10 40–11 32	391	912	29. 10 57–11 57	438	942	6. 10 9–11 3	419	997
30. 10 53–11 50	416	925	30. 10 34–11 52	415	942	9. 12 2–13 26	428	1018
31. 10 12–11 0	404	923	Oct. 4. 10 3–11 50	415	1000	16. 11 7–12 59	441	1031
Aug. 1. 10 47–11 41	424	944	6. 11 40–12 49	418	989	19. 11 57–13 20	429	1018
2. 10 18–11 15	410	916	9. 11 39–12 59	418	993	23. 11 5–12 6	419	1022
5. 9 32–10 36	416	910	11. 10 19–11 49	416	995	24. 11 22–12 11	429	1030
6. 9 23–10 24	426	920	13. 10 32–11 36	402	993	30. 12 8–12 58	426	1026
7. 10 10–11 11	411	924	14. 11 31–12 25	412	997	31. 11 57–12 47	446	1028

NOTE.—From July 14 to November 28 the observations were made with Magnetometer Casella No. 181. (*See Introduction*).

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

Greenwich Civil Time, 1924.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1924.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1924.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.	Greenwich Civil Time, 1924.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.
d h	° ′	42000γ+	d h	° ′	42000γ+	d h	° ′	42000γ+	d h	° ′	42000γ+
Jan. 1. 11·8	66 52·3	654	Mar. 26. 12·9	66 52·8	723	May 24. 10·7	66 54·5	722	Aug. 1. 10·6	66 51·1	631
3. 12·5	66 52·4	654	26. 14·6	66 52·1	725	26. 11·6	66 54·4	785	2. 11·2	66 50·9	629
4. 11·9	66 52·1	649	27. 11·8	66 52·5	722	27. 11·2	66 51·4	709	5. 10·9	66 51·4	683
4. 15·5	66 52·1	644	28. 11·6	66 52·2	724	28. 11·0	66 55·0	750	6. 10·6	66 51·4	656
7. 12·7	66 52·3	649	28. 15·0	66 52·7	765	29. 10·3	66 53·4	732	7. 11·3	66 52·2	664
8. 13·0	66 51·0	641	29. 12·7	66 52·3	782				8. 11·2	66 52·0	666
9. 12·3	66 52·3	664	31. 11·9	66 53·7	757				9. 10·7	66 51·6	665
10. 12·8	66 53·3	735				June 2. 10·5	66 52·1	696	12. 11·5	66 50·6	666
11. 11·5	66 51·6	735				4. 10·6	66 53·1	739	15. 11·4	66 51·4	674
14. 12·5	66 51·9	704	Apr. 1. 12·1	66 52·1	740	5. 10·6	66 51·7	746	16. 11·3	66 50·6	644
16. 12·1	66 53·8	747	1. 16·2	66 52·2	763	6. 14·0	66 52·1	767	19. 10·7	66 53·3	695
17. 12·7	66 52·0	726	2. 12·1	66 52·4	769	10. 10·7	66 53·7	777	21. 11·9	66 52·7	708
18. 10·8	66 52·3	715	2. 16·5	66 52·2	780	11. 11·6	66 54·4	775	22. 10·5	66 51·5	668
19. 11·2	66 51·8	730	3. 15·7	66 51·4	758	12. 11·5	66 52·3	—	26. 10·8	66 50·6	636
21. 12·7	66 51·4	752	4. 11·7	66 51·9	750	13. 12·6	66 53·2	768	27. 11·3	66 49·9	665
22. 9·7	66 52·0	759	5. 12·2	66 51·9	770	14. 10·4	66 53·8	786	29. 11·9	66 51·1	631
22. 11·7	66 52·0	744	7. 12·2	66 50·3	744	16. 10·4	66 52·0	741			
23. 9·9	66 53·0	757	7. 16·3	66 51·6	767	19. 14·4	66 51·3	710			
23. 12·6	66 53·3	727	8. 11·4	66 52·1	752	21. 10·6	66 53·8	770			
24. 10·3	66 52·6	751	8. 15·6	66 51·2	740	23. 10·3	66 54·3	795	Sept. 2. 10·8	66 53·1	622
25. 12·1	66 53·1	787	9. 11·1	66 52·8	752	24. 10·6	66 53·4	795	3. 10·6	66 51·7	607
29. 11·4	66 53·4	804	9. 12·3	66 52·0	748	24. 11·3	66 52·5	738	5. 13·8	66 51·0	622
			10. 10·7	66 52·4	742	25. 10·0	66 52·6	754	9. 15·0	66 51·7	623
			11. 11·4	66 52·6	753	25. 11·2	66 53·5	797	10. 10·9	66 52·6	626
Feb. 1. 10·0	66 52·4	761	11. 11·8	66 52·3	757	30. 14·5	66 51·9	689	11. 11·4	66 51·4	632
1. 15·8	66 52·6	767	11. 12·5	66 51·6	748	30. 15·2	66 51·0	686	12. 11·6	66 51·0	630
2. 13·5	66 52·4	783	12. 11·3	66 52·5	765				16. 11·4	66 51·4	615
5. 11·6	66 50·9	767	12. 12·3	66 51·8	759				18. 10·2	66 49·9	593
6. 11·5	66 54·8	799	14. 11·3	66 52·7	771				19. 9·0	66 51·7	622
6. 12·4	66 52·4	741	15. 11·8	66 52·0	745	July 1. 10·3	66 52·3	702	22. 11·6	66 52·6	635
7. 11·6	66 52·6	756	16. 11·5	66 52·2	749	1. 10·9	66 52·9	725	24. 11·8	66 52·4	619
8. 11·0	66 52·4	753	17. 10·6	66 52·7	747	1. 13·8	66 52·1	724	26. 11·8	66 51·3	612
9. 9·5	66 52·5	765	23. 11·1	66 52·4	705	2. 10·1	66 51·9	693	29. 12·7	66 50·4	602
12. 11·2	66 52·2	771	23. 12·3	66 53·0	744	2. 10·7	66 52·3	713	30. 12·1	66 52·2	624
13. 10·9	66 53·3	774	24. 10·4	66 51·9	717	3. 9·0	66 53·1	710			
14. 15·6	66 52·1	775	25. 12·2	66 52·6	733	3. 10·9	66 52·4	713			
18. 15·7	66 52·2	781	26. 10·9	66 53·4	694	3. 11·4	66 52·4	709			
19. 11·8	66 52·5	777	26. 12·2	66 54·2	723	4. 10.2	66 53·3	716	Oct. 3. 15·2	66 50·7	645
21. 12·6	66 52·2	735	28. 11·4	66 52·4	749	5. 9·8	66 52·9	724	6. 11·2	66 51·9	666
22. 11·7	66 52·0	735	29. 11·4	66 51·4	716	7. 13·8	66 50·9	699	14. 10·8	66 52·1	780
26. 11·3	66 52·1	754	30. 11·4	66 51·5	735	8. 10·3	66 52·9	707	15. 10·5	66 51·3	1026
26. 15·4	66 52·0	765				9. 10·0	66 51·7	717	16. 11·0	66 51·7	746
			May 1. 11·4	66 51·6	738	9. 10·6	66 51·4	688	22. 11·7	66 51·8	664
Mar. 4. 11·4	66 52·9	769	2. 12·0	66 52·2	741	10. 11·5	66 52·3	666			
5. 11·5	66 53·2	784	3. 11·4	66 50·5	729	14. 11·9	66 51·1	694			
6. 16·3	66 55·2	787	5. 14·3	66 50·8	687	15. 12·1	66 49·2	—	Nov. 3. 12·5	66 52·0	805
7. 9·6	66 52·6	768	6. 10·7	66 52·0	672	15. 15·8	66 51·7	700	4. 11·6	66 51·9	805
11. 11·7	66 52·5	760	7. 10·3	66 52·1	705	16. 12·9	66 53·1	719	6. 11·7	66 50·6	802
12. 12·8	66 52·0	776	8. 11·4	66 52·3	733	17. 9·1	66 52·7	707	10. 11·8	66 52·1	793
14. 12·4	66 52·2	783	9. 9·0	66 50·9	720	18. 10·4	66 52·8	726	12. 12·6	66 51·4	746
18. 11·9	66 51·3	745	10. 10·2	66 51·8	727	19. 9·9	66 53·4	735	14. 11·0	66 51·0	831
19. 12·2	66 51·8	759	12. 14·4	66 50·8	725	19. 10·3	66 52·7	688	17. 10·6	66 50·9	855
19. 12·4	66 52·1	764	13. 11·0	66 50·6	704	21. 13·4	66 52·1	685	19. 10·9	66 50·6	893
19. 15·3	66 51·6	759	14. 11·4	66 51·4	721	22. 10·4	66 52·4	701	26. 11·0	66 51·7	858
20. 11·2	66 53·4	769	15. 11·5	66 51·2	711	23. 10·2	66 52·5	698			
21. 11·3	66 54·0	785	16. 11·3	66 51·1	715	24. 14·4	66 51·9	696			
21. 12·9	66 52·7	787	19. 15·5	66 50·8	716	25. 11·5	66 50·6	688			
21. 15·8	66 52·0	792	20. 12·0	66 52·6	728	26. 10·4	66 53·2	671	Dec. 6. 11·4	66 49·8	772
24. 11·7	66 53·4	754	21. 10·5	66 53.6	706	28. 10·1	66 50·3	627	9. 14·9	66 51·1	786
24. 16·4	66 51·6	733	21. 14·8	66 50·7	704	28. 11·3	66 50·8	665	22. 12·4	66 51·2	1023
25. 11·8	66 53·2	717	22. 10·4	66 57·4	715	29. 10·5	66 51·9	641	23. 10·8	66 52·6	1045
25. 14·9	66 53·6	777	23. 10·3	66 54·8	711	30. 10·5	66 52·3	664	24. 11·2	66 51·0	1011
26. 11·2	66 53·8	751	23. 11·7	66 54·1	723	30. 11·9	66 53·6	728	31. 11·8	66 50·3	1006
						31. 10·1	66 52·9	670			

TABLE XX.—ANNUAL SUMMARY OF THE MAGNETIC ELEMENTS.

Month. 1924.	Mean Value of						Monthly Mean Diurnal Range of			Sum of Hourly Deviations from Mean of		
	Declination West.	Horizontal Force. C. G. S.	Dip.	West Force. C. G. S.	North Force. C. G. S.	Vertical Force. C. G. S.	Declination.	North Force.	Vertical Force.	Declination.	North Force.	Vertical Force.
	° ′		° ′				′			′		
January	13. 28·6	·18417	66. 52·1	·04292	·17910	·43110	4·2	14γ	13γ	21·4	75γ	85γ
February ...	13. 28·1	·18427	66. 52·2	·04292	·17919	·43134	4·2	18	11	23·5	102	59
March	13. 27·1	·18428	66. 52·2	·04287	·17922	·43143	7·5	27	19	42·8	178	99
April	13. 25·6	·18427	66. 51·7	·04279	·17923	·43119	9·0	28	24	44·8	177	122
May	13. 24·2	·18423	66. 51·7	·04271	·17921	·43113	7·6	30	33	43·0	200	165
June	13. 22·9	·18424	66. 51·8	·04264	·17924	·43118	9·6	37	32	53·8	235	154
July	13. 21·8	·18426	66. 51·3	·04259	·17927	·43105	9·8	37	28	53·4	229	129
August	13. 21·1	·18435	66. 50·6	·04257	·17937	·43102	9·4	30	24	47·5	213	120
September ..	13. 20·0	·18424	66. 51·1	·04249	·17927	·43094	8·1	31	21	49·5	212	108
October	13. 19·0	·18429	66. 51·0	·04245	·17933	·43102	7·0	29	17	38·3	200	101
November...	13. 17·7	·18428	66. 51·3	·04238	·17934	·43109	4·4	18	10	27·0	95	74
December ..	13. 16·9	·18431	66. 50·8	·04234	·17938	·43098	3·4	15	5	18·3	63	28
For the year	13. 22·8	·18426	66. 51·6	·04264	·17926	·43112	7·0	26·2	19·8	38·6	164·9	103·7

NOTE.—The values for Dip and Vertical Force in October, November and December are derived from records on 22 days, 21 days and 21 days respectively. A few days have been included on which the record was incomplete, but as far as possible the effect of diurnal variation has been eliminated.

ROYAL OBSERVATORY, GREENWICH.

MAGNETIC DISTURBANCES.

1924.

MAGNETIC DISTURBANCES in DECLINATION, NORTH FORCE, and VERTICAL FORCE, recorded at the ROYAL OBSERVATORY, GREENWICH, in the Year 1924.

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

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

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

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

1924.
January

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

3^d 4^h to 16^h Continuous small oscillations in Dec. and N.F. persisting through the general movements of the traces. 11$\frac{1}{4}^h$ to 11$\frac{1}{2}^h$ Increase in Dec. (+ 3′). 12$\frac{1}{4}^h$ to 13^h Wave in N.F. (− 20). 13$\frac{1}{4}^h$ to 14$\frac{1}{2}^h$ Wave in Dec. (+ 3′). 15$\frac{3}{4}^h$ to 17^h Increase in Dec. (+ 4′). 18^h to 19^h Truncated wave in Dec. (− 4′). 19$\frac{1}{4}^h$ to 19$\frac{1}{2}^h$ Decrease in Dec. (− 4′). 19$\frac{1}{3}^h$ to 19$\frac{1}{2}^h$ Increase in N.F. (+ 20). 19$\frac{1}{2}^h$ to 21^h Two consecutive waves in N.F. (− 30, − 35). 20^h to 22$\frac{1}{2}^h$ Three consecutive waves in Dec. (− 8′, − 8′, − 7′), followed till 23^h by a rapid decrease (− 5′). 21$\frac{1}{4}^h$ to 22$\frac{3}{4}^h$ Two consecutive waves in N.F. (+ 30, + 50). 21$\frac{1}{2}^h$ to 23^h General decrease in V.F. (− 25).

4^d 0$\frac{1}{2}^h$ to 1^h Increase in Dec. (+ 3′).

5^d 1$\frac{1}{2}^h$ to 2$\frac{3}{4}^h$ Flattened wave in Dec. (+ 3′).

7^d 1$\frac{1}{4}^h$ to 2$\frac{1}{2}^h$ Double-crested wave in Dec. (+ 4′). 10^h to 10$\frac{1}{3}^h$ Increase in Dec. (+ 3′). 20$\frac{3}{4}^h$ to 22^h Wave in Dec., the ascent rather steep (− 5′), accompanied by a corresponding wave in N.F. (+ 30).

8^d 21$\frac{1}{4}^h$ to 22$\frac{1}{3}^h$ Flattened wave in Dec. (− 3′), followed till 23$\frac{3}{4}^h$ by an irregular wave (− 3′).

9^d 23$\frac{1}{2}^h$ to 10^d 1^h Wave in Dec. (− 3′).

10^d 8$\frac{1}{4}^h$ to 9$\frac{1}{2}^h$ Wave in Dec. (+ 4′). 12^h to 15^h Dec. trace disturbed by numerous small movements. 12^h to 17^h Steady increase in V.F. (+ 25). 12$\frac{1}{4}^h$ to 14^h Decrease in N.F. (− 40). 15$\frac{1}{2}^h$ to 17$\frac{1}{4}^h$ Serrated wave in Dec. (− 10′). 16$\frac{1}{4}^h$ to 17^h Wave in N.F. (− 30). 17$\frac{3}{3}^h$ to 18$\frac{1}{3}^h$ Increase in N.F. (+ 30). 19^h to 20$\frac{1}{3}^h$ Wave in N.F. (+ 20), with wave in Dec. (− 4′). 20$\frac{1}{3}^h$ to 20$\frac{3}{3}^h$ Increase in N.F. (+ 20), followed till 21$\frac{1}{2}^h$ by a double wave (− 20, + 30). 20$\frac{3}{3}^h$ to 22$\frac{1}{2}^h$ Wave in Dec. (− 14′), with steep ascent and oscillating decline.

11^d 1^h to 2$\frac{1}{4}^h$ Wave in Dec. (+ 4′). 21^h to 22$\frac{1}{2}^h$ Irregular decrease in Dec. (− 5′). 22^h to 23$\frac{1}{3}^h$ Wave in N.F. (+ 25).

15^d 19$\frac{1}{2}^h$ to 20$\frac{1}{2}^h$ Wave in Dec. (− 3′). 21$\frac{3}{4}^h$ to 22$\frac{1}{3}^h$ Wave in N.F. (− 20). 22$\frac{1}{2}^h$ to 23^h Increase in Dec. (+ 3′).

16^d 2$\frac{1}{2}^h$ to 3$\frac{1}{2}^h$ Wave in Dec. (+ 3′). 5$\frac{1}{2}^h$ to 6$\frac{1}{2}^h$ Wave in Dec. (− 3′), with wave in N.F. (+ 25). 16^d 18^h to 17^d 9$\frac{1}{4}^h$ No register of Dec. and N.F.

17^d 20^h to 22$\frac{1}{4}^h$ Double-crested wave in Dec. (− 8′). 19$\frac{1}{4}^h$ to 19$\frac{3}{3}^h$ Decrease in N.F. (− 20). 20$\frac{1}{4}^h$ to 21$\frac{1}{2}^h$ Two consecutive waves in N.F. (+ 15).

18^d 10^h to 11$\frac{1}{4}^h$ No register of Dec. and N.F. 23$\frac{1}{4}^h$ to 19^d 0$\frac{1}{2}^h$ Flattened wave in Dec. (− 4′). 23$\frac{1}{4}^h$ to 24^h Truncated wave in N.F. (+ 20).

19^d 4$\frac{1}{2}^h$ to 9$\frac{1}{4}^h$ No register of Dec. and N.F. 20$\frac{1}{2}^h$ to 22$\frac{3}{4}^h$ Slow wave in Dec. (− 3′).

22^d 0$\frac{3}{4}^h$ Rapid decrease in Dec. (− 3′). 2^h to 3$\frac{1}{2}^h$ Double wave in Dec. (+ 4′, − 6′). 2^h to 3$\frac{1}{4}^h$ Wave in N.F. (+ 20). 16$\frac{3}{4}^h$ to 17$\frac{1}{2}^h$ Decrease in N.F. (− 30), followed by a small increase, and then till 18$\frac{3}{4}^h$ by a further decrease (− 20). 18^h to 19^h Wave in Dec. (+ 5′). 18$\frac{3}{4}^h$ to 21^h Increase in N.F. (+ 60). 21$\frac{3}{3}^h$ to 22$\frac{1}{2}^h$ Wave in N.F. (+ 20).

1924.
January

23d 1h to 2½h Fluctuating decrease in Dec. (− 9′), followed immediately till 3¾h by an irregular wave (+ 10′). 1h to 3h General increase in N.F. (+ 55), followed till 4h by a rapid decrease (− 40). 3h to 4h Wave in V.F. (− 15). 3¾h to 4½h Irregular increase in Dec. (+ 5′). 6¼h to 6¾h Waves in Dec. (+ 4′) and N.F. (− 25). 7h to 7½h Decrease in N.F. (− 30). 13h to 13⅓h Wave in N.F. (− 30). 12½h to 13½h Wave in Dec. (+ 5′). 17h to 18h Irregular wave in N.F. (− 30). 17½h to 19h Wave in Dec. (− 13′). 20½h to 22¼h Three consecutive waves in N.F. (+ 30, + 50, + 20). 20¾h to 21h Wave in Dec. (− 6′). 21⅓h to 22h Wave in Dec. (+ 7′). 21½h to 22h Decrease in V.F. (− 15).

24d 1⅝h to 2¾h Wave in Dec. (+ 7′). 17h to 18¼h Wave in Dec. (+ 3′). 18½h to 20½h Two consecutive waves in Dec. (− 7′, − 8′) and in N.F. (+ 30, + 35). 22⅝h to 25d 0½h Two consecutive waves in Dec. (+ 4′). 22⅔h to 23¼h Truncated wave in N.F. (+ 20).

25d 0¾h to 3¼h Broad wave in N.F. (− 25). 1¼h to 2½h Irregular increase in Dec. (+ 7′). 3h to 3¾h Wave in Dec (+ 3′). 12h to 13½h Wave in N.F. (− 25). 17h to 17¼h Rapid decrease in Dec. (− 4′) slowly recovering till 18¾h.

26d 14h to 15h Wave in Dec. (− 5′). 14⅔h to 15½h Wave in N.F. (− 30). 17h to 17⅝h Truncated wave in Dec. (− 4′).

28d 18½h to 19h Wave in Dec. (− 5′).

29d 5h to 30d 5h. See Plate I.

30d 5h to 7h General increase in Dec. (+ 9′), followed till 8½h by a corresponding decrease. 7h Sudden increase in N.F. (+ 20). 19⅓h to 20½h Sharp wave in Dec. (− 7′). 19½h to 20½h Wave in N.F. (+ 35).

31d 2⅓h to 3⅓h Wave in Dec. (+ 3′). 19h to 20h Wave in Dec. (− 5′) with steep ascent. 20¼h to 21h Truncated wave in Dec. (− 3′). 20h to 20⅝h Wave in N.F. (− 20).

February

1d 0½h to 1¾h Truncated wave in Dec. (+ 3′).

2d 1¼h to 2½h Wave in Dec. (+ 4′).

3d 18h to 19h Wave in Dec. (− 3′).

5d 21½h to 6d 0½h Triple wave in N.F. (∓ 50, ± 50). 21½h to 22¼h Wave in Dec. (− 6′). 22¼h to 22½h Very rapid decrease in Dec. (− 12′). 23h to 6d 1h Irregular increase in Dec. (+ 10′). 21¾h to 24h Double wave in V.F. (± 15).

6d 3⅝h to 4½h Increase in N.F. (+ 20). 16¼h Rapid decrease in Dec. (− 3′). 17h to 18½h Increase in Dec. (+ 4′). 20½h to 21½h Wave in Dec. (− 5′). 20⅝h to 21h Increase in N.F. (+ 20), followed immediately till 22h by an equal decrease.

7d 14h to 15½h Wave in Dec. (− 3′). 15½h Rapid decrease in N.F. (− 25), steadily recovering till 17h. 20½h to 22h Double-crested wave in N.F. (+ 25). 20¾h to 22h Double wave in Dec. (+ 2′, − 6′).

8d 12h 10m to 12h 25m Temporary decrease in V.F. (− 15), probably of local and artificial origin. 23h to 23¾h Wave in N.F. (+ 20).

9d 19h 55m to 20h 20m Decrease in Dec. (− 3′). 20½h to 10d 9h No record of Dec. and N.F.

10d 19⅓h to 20h Decrease in Dec. (− 4′). 22¼h to 23⅓h Wave in N.F. (+ 30).

11d 1h to 2h Wave in N.F. (+ 40). 1h to 1½h Decrease in V.F. (− 15). 1h to 2¼h Double-crested wave in Dec. (+ 5′, + 4′).

12d 1½h to 2⅝h Wave in N.F. (+ 20). 2½h to 3½h Wave in Dec. (+ 3′).

16d 4h 20m Sudden small movement in all traces. 11⅝h to 12h Decrease in N.F. (− 20).

17d 2h to 2½h Wave in Dec. (+ 3′). 18h to 20h Serrated wave in Dec. (− 5′).

20d 2¾h to 3½h Wave in Dec. (+ 3′), followed immediately till 5h by a double wave (± 3′). 3⅜h to 4¼h Increase in N.F. (+ 35). 5h to 5½h Decrease in N.F. (− 20). 11h to 12h Decrease in N.F. (− 40). 10½h to 13h Oscillating increase in Dec. (+ 10′), partially running till 14h (− 6′). 12h to 17¼h General increase in V.F. (+ 40), diminishing again irregularly till 24h. 14h to 15½h Serrated wave in N.F. (+ 25). 15h to 15⅝h Serrated wave in Dec. (+ 4′). 15½h to 16¼h Truncated wave in N.F. (+ 25). 16½h to 20¼h Two consecutive waves in Dec. (− 20′, − 18′). 16½h to 19h Wave in N.F. (+ 75), the return having marked oscillation. 19h to 19½h Very rapid increase in N.F. (+ 60), with partial return till 20h (− 20). 22½h to 24h Serrated wave in N.F. (+ 40).

21d 16½h to 16⅝h Sharp wave in N.F. (+ 20). 17⅝h to 19⅓h Triple-crested wave in Dec. (− 8′, − 12′, − 7′). 17¾h to 19¼h Irregular wave in N.F. (+ 30).

1924.

February

22^d $1\frac{3}{8}^h$ to $3\frac{1}{2}^h$ Double wave in Dec. ($\mp$ 3′). $5\frac{1}{2}^h$ to 7^h Wave in N.F. (— 20). 14^h to $15\frac{1}{4}^h$ Decrease in Dec. (— 4′). $15\frac{1}{2}^h$ to $16\frac{1}{2}^h$ Wave in Dec. (— 4′). $15\frac{3}{8}^h$ to $16\frac{1}{8}^h$ Wave in N.F. (— 20). 18^h to 19^h Serrated Wave in Dec. (— 4′).

23^d $4\frac{1}{2}^h$ to $5\frac{3}{4}^h$ Increase in N.F. (+ 20), returning till $6\frac{1}{2}^h$. $9\frac{3}{4}^h$ to $10\frac{3}{8}^h$ Wave in N.F. (— 20). $10\frac{3}{8}^h$ to 11^h Increase in Dec. (+ 4′). $11\frac{1}{2}^h$ to 12^h Decrease in N.F. (— 20). 15^h to $15\frac{1}{2}^h$ Decrease in Dec. (— 5′). 15^h to $15\frac{3}{8}^h$ Wave in N.F. (— 20). $16\frac{1}{4}^h$ to 17^h Wave in N.F. (— 20). $16\frac{1}{2}^h$ to $17\frac{3}{4}^h$ Wave in Dec. (— 3′). $18\frac{1}{2}^h$ to $20\frac{1}{4}^h$ Two consecutive waves in Dec. (— 9′, — 6′), coalescing at $19\frac{1}{4}^h$. $18\frac{3}{8}^h$ to $20\frac{1}{2}^h$ Two consecutive waves in N.F. (+ 45), coalescing at $19\frac{1}{2}^h$. $20\frac{1}{8}^h$ to $21\frac{3}{8}^h$ Double-crested wave in Dec. (— 4′). $20\frac{1}{2}^h$ to 22^h Wave in N.F. (+ 35) with steep ascent.

24^d $14\frac{3}{8}^h$ to $16\frac{1}{2}^h$ Irregular decrease in Dec. (— 9′), partially recovering till 18^h (+ 5′). $15\frac{1}{2}^h$ to 17^h Truncated wave in N.F. (— 25).

25^d $7\frac{1}{2}^h$ to $9\frac{1}{8}^h$ Wave in Dec. (+ 4′). $13\frac{1}{8}^h$ to 15^h No register of Dec. and N.F. 22^h to $23\frac{1}{2}^h$ Wave in N.F. (+ 30). $22\frac{1}{2}^h$ to 24^h Double wave in Dec. (— 5′, + 3′).

26^d $0\frac{1}{4}^h$ to $0\frac{1}{2}^h$ Decrease in Dec. (— 3′). 20^h to 22^h Two consecutive waves in Dec. (— 5′, — 4′). 21^h to $21\frac{3}{8}^h$ Wave in N.F. (+ 20).

27^d 0^h to 1^h Irregular wave in Dec. (+ 3′).

March

2^d 16^h to 17^h Wave in N.F. (— 20). $19\frac{1}{2}^h$ to 23^h Wave in Dec. (— 8′).

3^d 1^h to 2^h Wave in Dec. (— 3′), followed till 3^h by a decrease (— 4′). 9^h to $10\frac{1}{4}^h$ Increase in Dec. (+ 5′). 14^h to 15^h Decrease in Dec. (— 5′).

4^d $20\frac{3}{4}^h$ to 22^h Wave in Dec. (— 4′). 21^h to 22^h Wave in N.F. (+ 25).

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

6^d $14\frac{1}{4}^h$ to $15\frac{1}{4}^h$ Decrease in N.F. (— 35). 15^h to $19\frac{1}{2}^h$ Irregular decrease in Dec. (— 13′). $19\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Increase in Dec. (+ 5′).

7^d 0^h to $2\frac{3}{8}^h$ Double-crested waves in Dec. (— 3′) and N.F. (+ 25). $19\frac{3}{4}^h$ to $21\frac{3}{8}^h$ Double-crested wave in Dec. (— 18′, — 11′). 20^h to $21\frac{1}{2}^h$ Wave in N.F. (+ 80). $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Decrease in V.F. (— 20), gradually recovering till 8^d 2^h. $22\frac{1}{2}^h$ to 24^h Two consecutive waves in N.F. (+ 70, + 50), coalescing at $23\frac{1}{4}^h$. $22\frac{1}{2}^h$ to 24^h Double wave in Dec. ($\pm$ 5′).

8^d $1\frac{3}{4}^h$ to $3\frac{1}{4}^h$ Wave in Dec. (+ 5′). $13\frac{1}{2}^h$ to $15\frac{1}{4}^h$ Two consecutive waves in N.F. (— 15, — 30). $14\frac{1}{8}^h$ to 15^h Decrease in Dec. (— 4′). 20^h to 23^h Wave in Dec. (— 7′). $21\frac{1}{4}^h$ to $22\frac{1}{4}^h$ Wave in N.F. (— 20). 22^h to 24^h Decrease in V.F. (— 15).

9^d $1\frac{1}{4}^h$ to $1\frac{3}{4}^h$ Increase in Dec. (+ 4′). $5\frac{1}{2}^h$ to 7^h Wave in N.F. (— 20). $6\frac{1}{2}^h$ to $7\frac{1}{2}^h$ Decrease in Dec. (— 5′). 9^h to 10^h Decrease in N.F. (— 30). $19\frac{3}{4}^h$ to $21\frac{1}{2}^h$ Double-crested wave in Dec. (— 5′). 20^h to $20\frac{1}{2}^h$ Wave in N.F. (+ 20). $23\frac{1}{8}^h$ to 10^d $0\frac{1}{2}^h$ Decrease in V.F. (— 20). 23^h to 10^d 1^h Double-crested wave in N.F. (+ 35, + 40). $23\frac{1}{4}^h$ to 24^h Wave in Dec. (— 4′).

10^d $1\frac{1}{8}^h$ to 2^h Increase in Dec. (+ 5′). $3\frac{1}{8}^h$ to $4\frac{1}{4}^h$ Increase in Dec. (+ 4′).

11^d $2\frac{1}{2}^h$ to $3\frac{1}{2}^h$ Wave in Dec. (+ 5′). $10\frac{1}{8}^h$ to $10\frac{3}{8}^h$ Increase in Dec. (+ 3′).

13^d $22\frac{1}{4}^h$ to $22\frac{3}{8}^h$ Decrease in Dec. (— 3′).

16^d 19^h to 20^h Increase in N.F. (+ 30).

18^d $18\frac{1}{4}^h$ to 20^h Wave in Dec. (— 6′).

19^d 20^h to $20\frac{3}{4}^h$ Decrease in Dec. (— 5′), returning irregularly till $22\frac{3}{8}^h$. $20\frac{1}{4}^h$ to 21^h Wave in N.F. (+ 25).

20^d $2\frac{3}{4}^h$ to 4^h Wave in Dec. (+ 7′) with very steep ascent. 3^h to 4^h Decrease in V.F. (— 15). 3^h to $4\frac{1}{2}^h$ Wave in N.F. (+ 25). $11\frac{1}{2}^h$ to $12\frac{1}{2}^h$ Wave in Dec. (+ 4′). 12^h to $13\frac{1}{2}^h$ Flattened wave in N.F. (— 20). $21\frac{3}{4}^h$ to 21^d $0\frac{1}{4}^h$ Three consecutive waves in N.F. (+ 20, + 40, + 15). $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Truncated wave in Dec. (— 6′). $22\frac{3}{8}^h$ to 24^h Truncated wave in Dec. (— 8′). $22\frac{1}{2}^h$ to $23\frac{3}{4}^h$ Wave in V.F. (— 15).

21^d $4\frac{1}{2}^h$ to $6\frac{1}{2}^h$ Wave in Dec. (+ 5′), with a wave in N.F. (— 20). 19^h to $20\frac{1}{8}^h$ Two consecutive waves in Dec. (— 3′, — 4′). 20^h to $20\frac{1}{2}^h$ Wave in N.F. (+ 25). $23\frac{3}{8}^h$ to 22^d $0\frac{1}{2}^h$ Wave in Dec. (+ 4′).

22^d 1^h to 2^h Decrease in N.F. (— 25). $4\frac{1}{2}^h$ to 5^h Decrease in Dec. (— 3′). 0^h to 2^h Wave in V.F. (— 15). 16^h to $17\frac{1}{4}^h$ Wave in Dec. (— 7′). 16^h to $16\frac{3}{4}^h$ Wave in N.F. (— 20). 21^h to 22^h Wave in Dec. (— 8′). 21^h to $22\frac{3}{4}^h$ Wave in N.F. (+ 45), with very steep ascent.

1924.

March

$23^d\ 7^h$ to $7\frac{1}{3}^h$ Decrease in Dec. (− 3′). 8^h to $9\frac{1}{2}^h$ Decrease in N.F. (− 40). $18\frac{3}{4}^h$ to 20^h Wave in N.F. (+ 40). $18\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Wave in Dec. (− 6′).

$27^d\ 2^h$ to 4^h Wave in Dec. (+ 4′).

$29^d\ 3^h\ 38^m$ Sudden movement in all traces. $4\frac{1}{2}^h$ to 6^h Wave in Dec. (+ 5′). $4\frac{1}{2}^h$ to $5\frac{1}{2}^h$ Wave in N.F. (− 20). 16^h to $16\frac{1}{2}^h$ Increase in N.F. (+ 20).

$30^d\ 13^h$ to $13\frac{1}{4}^h$ Sharp wave in Dec. (+ 3′). $14\frac{1}{2}^h$ to $14\frac{3}{4}^h$ Wave in Dec. (− 3′). 15^h to $15\frac{3}{4}^h$ Fluctuating decrease in Dec. (− 7′). $15\frac{3}{4}^h$ to $16\frac{1}{4}^h$ Increase in N.F. (+ 35). 16^h to 18^h Increase in V.F. (+ 20). 18^h to $18\frac{3}{4}^h$ Decrease in Dec. (− 6′). 18^h to $18\frac{3}{4}^h$ Domed wave in N.F. (− 20). 19^h to $19\frac{1}{2}^h$ Wave in N.F. (− 30). $20\frac{1}{4}^h$ to 22^h Wave in Dec. (− 17′), with only partial return (+ 11′). $20\frac{1}{2}^h$ to 23^h Wave in N.F. (+ 65), with steep ascent and oscillating return. $21\frac{1}{4}^h$ to $22\frac{1}{4}^h$ Decrease in V.F. (− 20). 22^h to 23^h Wave in Dec. (− 4′). 23^h to $31^d\ 1\frac{1}{2}^h$ Wave in Dec. (+ 9′), with a further wave superposed from $23\frac{1}{2}^h$ to $31^d\ 0\frac{1}{2}^h$ (+ 8′). 23^h to $31^d\ 0\frac{1}{2}^h$ Oscillating increase in N.F. (+ 45).

$31^d\ 0^h$ to $1\frac{1}{2}^h$ General decrease in V.F. (− 25). $0\frac{1}{2}^h$ to 3^h General decrease in N.F. (− 35). $1\frac{1}{2}^h$ to 3^h General increase in Dec. (+ 6′). 3^h to $4\frac{1}{3}^h$ Wave in N.F. (+ 30), accompanied by truncated wave in Dec. (− 4′). $3\frac{2}{3}^h$ to 7^h Increase in V.F. (+ 25).

April

$3^d\ 19\frac{1}{2}^h$ to $20\frac{1}{2}^h$ Decrease in N.F. (− 20).

$5^d\ 2\frac{1}{4}^h$ to $11\frac{2}{3}^h$ No register of Dec. and N.F.

$6^d\ 8^h\ 10^m$ Sudden movement in Dec. and N.F. $16\frac{3}{4}^h$ to 17^h Wave in N.F. (− 20). $16\frac{3}{4}^h$ to $17\frac{1}{4}^h$ Rapid decrease in Dec. (− 5′). 19^h to 20^h Wave in Dec. (− 4′). 19^h to $19\frac{1}{2}^h$ Increase in N.F. (+ 20).

$7^d\ 21\frac{1}{4}^h$ to $22\frac{1}{4}^h$ Oscillating decrease in Dec. (− 5′). $23\frac{1}{2}^h$ to $8^d\ 0\frac{1}{2}^h$ Wave in Dec. (− 3′).

$12^d\ 22\frac{1}{2}^h$ to $22\frac{3}{4}^h$ Increase in N.F. (+ 20). $22\frac{1}{2}^h$ to 24^h Irregular wave in Dec. (− 3′).

$15^d\ 4^h$ to $5\frac{1}{4}^h$ Wave in N.F. (+ 20). $4\frac{1}{2}^h$ to $5\frac{3}{4}^h$ Wave in Dec. (− 3′).

$17^d\ 20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in Dec. (− 4′).

$24^d\ 21^h\ 38^m$ Sudden movement in Dec. and N.F.

$25^d\ 0^h$ to 1^h Wave in Dec. (+ 5′). 0^h to $1\frac{1}{2}^h$ Wave in N.F. (+ 30). $0\frac{1}{2}^h$ to 3^h Wave in V.F. (− 15). $2\frac{2}{3}^h$ to 5^h Wave in Dec. (+ 7′). $8\frac{1}{3}^h$ to $8\frac{1}{2}^h$ Sharp wave in Dec. (+ 3′).

$26^d\ 6\frac{1}{2}^h$ to $6\frac{3}{4}^h$ Increase in Dec. (+ 3′). 7^h to 10^h Decrease in N.F. (− 50). 11^h to $11\frac{1}{3}^h$ Decrease in N.F. (− 25). $15\frac{1}{2}^h$ to 16^h Decrease in N.F. (− 25), returning irregularly till 18^h. 12^h to $15\frac{1}{2}^h$ Increase in V.F. (+ 30).

$29^d\ 2\frac{1}{2}^h$ to $3\frac{1}{4}^h$ Decrease in Dec. (− 4′). $21\frac{1}{4}^h$ to $23\frac{1}{4}^h$ Wave in N.F. (+ 30). $21\frac{2}{3}^h$ to 22^h Wave in Dec. (− 3′).

May

$9^d\ 14\frac{3}{4}^h$ to 16^h Wave in N.F. (− 20).

$12^d\ 14\frac{3}{4}^h$ to 16^h Wave in N.F. (− 20). $17\frac{1}{2}^h$ to 18^h Increase in N.F. (+ 25). 23^h to $13^d\ 1\frac{1}{4}^h$ Wave in N.F. (+ 30). $23\frac{2}{3}^h$ to 24^h Decrease in V.F. (− 15). $23\frac{1}{2}^h$ to $13^d\ 0\frac{1}{4}^h$ Rapid decrease in Dec. (− 7′), preceded by a short temporary increase (+ 3′).

$16^d\ 16\frac{1}{2}^h$ to $18\frac{1}{2}^h$ Irregular wave in N.F. (+ 40), followed immediately till $19\frac{1}{3}^h$ by a further wave (+ 20). $22\frac{3}{4}^h$ to $17^d\ 0\frac{2}{3}^h$ Wave in Dec. (− 4′).

$19^d\ 16\frac{2}{4}^h$ to 17^h Rapid decrease in N.F. (− 20).

$21^d\ 5^h$ to $23^d\ 5^h$. See Plate II.

$23^d\ 5\frac{1}{2}^h$ to $7\frac{1}{4}^h$ Decrease in N.F. (− 45). 7^h to $7\frac{1}{2}^h$ Increase in Dec. (+ 4′). 15^h to $24^d\ 3^h$ All traces in a state of continual oscillation. The principal movements only are noted. 14^h to 17^h General increase in V.F. (+ 40). 15^h to 16^h Wave in N.F. (+ 20). 16^h to 18^h Double wave in N.F. (− 40, + 50). $16\frac{1}{2}^h$ to $17\frac{1}{2}^h$ Wave in Dec. (− 6′). 18^h to $18\frac{3}{3}^h$ Sharp wave in N.F. (+ 40). $17\frac{1}{2}^h$ to $19\frac{1}{3}^h$ General decrease in Dec. (− 9′). $19\frac{1}{3}^h$ to 20^h Wave in Dec. (+ 5′). 20^h to 22^h Two consecutive waves in N.F. (− 20, − 30). $20\frac{3}{4}^h$ to $21\frac{3}{4}^h$ Wave in Dec. (+ 8′). 20^h to $24^d\ 2\frac{1}{2}^h$ Fluctuating decrease in V.F. (− 55), with a marked wave from 21^h to 22^h (− 20). $22\frac{3}{4}^h$ to $23\frac{3}{4}^h$ Double-crested wave in N.F. (− 30). $22\frac{3}{4}^h$ to $24^d\ 0\frac{3}{4}^h$ Two consecutive waves in Dec. (+ 5′, + 3′).

$24^d\ 0^h$ to $0\frac{1}{2}^h$ Decrease in N.F. (− 30). $1\frac{1}{3}^h$ to $2\frac{1}{2}^h$ Wave in Dec. (+ 4′), followed till $3\frac{1}{4}^h$ by an increase (+ 3′). $1\frac{3}{4}^h$ to 3^h Wave in N.F. (+ 25). $2\frac{1}{2}^h$ to 7^h General increase in V.F. (+ 35).

1924.

May

25d 3h to 4h Decrease in Dec. (− 6′).

28d 1½h to 2h Wave in Dec. (+ 3′). 2h to 3h Wave in N.F. (− 20). 2⅓h to 3h Rapid increase in Dec. (+ 9′), with partial return (− 3′). 3½h to 4½h Wave in N.F. (− 40). 4h to 6h Two consecutive waves in Dec. (+ 5′). 6¼h to 7¾h Wave in N.F. (− 25), followed till 8½h by a decrease (− 25). 7h to 8h Wave in Dec. (+ 3′). 16h to 16½h Rapid increase in N.F. (+ 25), followed immediately till 17h by a wave (− 40). 16½h to 16¾h Wave in Dec. (+ 5′). 17½h to 18h Wave in N.F. (− 20).

30d 17¼h to 18¼h Increase in N.F. (+ 25).

June

6d 6¾h to 7h Double wave in V.F. (∓ 25).

9d 14h 13m Sudden movement in Dec. and N.F. 17¼h to 18½h Wave in N.F. (+ 30). 19h to 21h Two consecutive waves in Dec. (− 3′). 22⅓h Sudden increase in N.F. (+ 20).

10d 0h to 2h Wave in N.F. (+ 40). 0h to 2½h Double wave in Dec. (± 5′). 0⅓h to 3h Wave in V.F. (− 20). 4h to 6h Truncated wave in Dec. (− 4′).

10d 6h to 11d 6h. See Plate I.

11d 6¼h to 8h Decrease in N.F. (− 25). 14⅔h to 15⅓h Wave in N.F. (− 20). 15½h to 22½h General increase in V.F. (+ 90), with numerous minor disturbances of the trace. The principal movements were: two consecutive waves from 15⅔h to 16¾h (+ 20, + 30), and a serrated irregular wave from 17h to 17¾h (+ 30). 22⅔h to 23½h Double wave in N.F. (+ 45, − 75), followed immediately till 12d 0¼h by a wave (− 45), only partially complete. 22¼h to 22¾h Serrated wave in Dec. (− 4′), followed immediately till 24h by two consecutive waves (− 14′, − 5′). 22¾h to 23¼h Wave in V.F. (− 20).

12d 10¼h to 13d 10¼h No register of V.F. 22½h to 23½h Wave in N.F. (+ 25).

13d 0¾h to 1¾h Wave in Dec. (+ 5′).

16d 12¼h to 13h Wave in N.F. (− 20). 13½h to 14h Sharp wave in N.F. (+ 20). 13h to 16h Rapid general increase in N.F. (+ 60).

18d 6h to 23h Dec. and N.F. traces continuously disturbed by minor movements. 13h to 18h Steady increase in V.F. (+ 60). 17½h to 18⅔h Wave in Dec. (− 8′). 17¼h to 18½h Double wave in N.F. (∓ 20). 18⅔h to 19h Wave in N.F. (− 35). 19h to 19¼h Wave in V.F. (+ 12). 20¼h to 21h Decrease in Dec. (− 5′). 19½h to 24h Irregular decrease in V.F. (− 20). 22⅔h to 23½h Wave in Dec. (− 3′). 22¼h to 19d 1h Wave in N.F. (+ 40).

19d 0⅓h to 1¾h Increase in Dec. (+ 5′). 13⅔h to 15h Oscillations in N.F., concluding from 14¼h to 15h with a triple wave (− 20, + 20, − 30). 14⅓h to 14⅔h Wave in Dec. (+ 3′). 15½h to 16¼h Accelerated increase in N.F. (+ 40). 17h to 17¾h Oscillations in N.F., followed till 18½h by a wave (− 45). 17¾h to 20½h Fluctuating decrease in Dec. (− 14′). 20½h to 22h Wave in Dec. (− 7′). 18h to 21½h Decrease in N.F. (− 60). 12h to 18½h Increase in V.F. (+ 65), followed till 24h by a decrease (− 45). 23h to 20d 1h Wave in N.F. (+ 70). 23h to 23½h Decrease in Dec. (− 6′), followed till 24h by a wave (+ 3′). 23¾h to 20d 2h Decrease in V.F. (− 35).

20d 0h to 3h Rapid increase in Dec. (+ 15′), with a wave superposed from 2½h to 3h (− 3′). 1h to 1¾h Double-crested wave in N.F. (− 20). 3h to 5h Wave in V.F. (− 25). 4h to 5½h Decrease in Dec. (− 7′).

21d 21½h to 23h Serrated wave in N.F. (+ 50). 21½h to 22⅔h Two consecutive waves in Dec. (− 3′), the second truncated. 23h to 22d 0½h Two consecutive waves in Dec. (− 3′). 23½h to 24h Decrease in N.F. (− 25). 22h to 23h Decrease in V.F. (− 20).

22d 2½h to 5½h Slow wave in Dec. (+ 4′). 2½h to 3½h Increase in N.F. (+ 20). 13h to 13⅔h Increase in N.F. (+ 20). 19½h to 20h Decrease in N.F. (− 20).

23d 0⅔h to 2½h Wave in Dec. (+ 8′). 1h to 4h Flattened wave in V.F. (− 15). 4h to 6½h Wave in N.F. (+ 25). 4h to 6h Wave in Dec. (+ 3′). 19½h to 21½h Wave in Dec. (− 4′). 19¾h to 21¼h Wave in N.F. (+ 25).

27d 4h 56m Sudden small temporary displacement of all traces lasting about one minute. Probably of artificial origin. 15h to 16h Wave in N.F. (− 30).

30d 9h to 11h Increase in Dec. (+ 8′), with decrease in N.F. (− 50). 22⅔h to July 1d 1h Wave in N.F. (+ 35). 22⅔h to 24h Decrease in Dec. (− 6′).

July

1d 1h to 1⅓h Increase in Dec. (+ 3′).

2d 10½h to 12⅓h Increase in Dec. (+ 10′).

6d 20⅓h to 21h Wave in N.F. (+ 20).

1924.

July

9d 5h 21m Sudden movement in Dec. and N.F., the former followed till 5½h by a sharp wave (+ 4′). 11¾h to 12¼h Wave in N.F. (— 20), followed till 14h by a domed wave (— 30). 15h to 17¼h Two consecutive waves in N.F. (+ 50, + 45), followed till 17⅞h by an increase (+ 30). 16h to 17h Wave in Dec. (+ 3′). 19½h to 23h Flattened wave in Dec. (— 5′), with an additional wave superposed from 20¼h to 21h (— 4′). 19h to 21h Double-crested wave in N.F. (+ 30). 23h to 10d 0⅛h Decrease in Dec. (— 4′). 13h to 17h Increase in V.F. (+ 50).

10d 5h to 5⅝h Decrease in Dec. (— 3′). 10¾h to 11⅛h Increase in Dec. (+ 4′). 23h to 24h Wave in Dec. (+ 3′).

11d 12h to 12¾h Increase in N.F. (+ 20).

15d 14½h to 16h Wave in N.F. (— 30). 21¾h to 23¼h Wave in Dec. (— 5′).

18d 0h to 1½h Double-crested wave in Dec. (— 4′, — 5′). 13h to 14½h Wave in N.F. (— 25). 21¾h to 23½h Wave in Dec. (— 4′).

20d 16h 35m Sudden increase in N.F. (+ 30), rapidly returning till 17¼h, and then followed till 18⅛h by a wave (+ 30). Small movements at 16h 35m also took place in Dec. and V.F. 21½h to 23½h Wave in Dec. (— 5′).

21d 3½h to 5h Wave in Dec. (+ 3′). 6h to 9h Rapid general decrease in N.F. (— 75). 12h to 12¾h Accelerated increase in Dec. (+ 3′).

25d 19⅓h to 20h Wave in Dec. (— 7′), the return incomplete (+ 4′). 19h to 20⅛h Wave in N.F. (+ 30).

26d 8½h to 9h Rapid decrease in N.F. (— 30). 8½h to 10h Rapid increase in Dec. (+ 10′).

26d 15¼h to 16h Increase in N.F. (+ 25). 17¾h to 19h Increase in N.F. (+ 50).

27d 1h Very rapid decrease in N.F. (— 20), and temporarily in Dec. (— 3′). 3¼h to 6½h Two consecutive waves in Dec. (— 5′). 20½h to 21⅛h Wave in N.F. (— 30). 21h to 21¾h Accelerated decrease in Dec. (— 9′), recovering irregularly till 24h, with a further wave intervening from 23h to 24h (— 5′). 22¼h to 22¾h Rapid decrease in N.F. (— 30). 22¾h to 23¼h Wave in N.F. (+ 20).

28d 1h to 4h Wave in Dec. (+ 5′).

30d 14h to 19h Several minor oscillations in N.F.

August

4d 1h Very rapid increase in N.F. (+ 20). 1¼h to 1⅝h Decrease in Dec. (— 3′). 12¾h to 13¾h Wave in N.F. (— 25). 12h to 13h Wave in Dec. (+ 3′). 22¾h to 23½h Decrease in Dec. (— 3′).

5d 0½h to 1½h Irregular wave in Dec. (+ 4′). 1h to 2½h Wave in N.F. (+ 30).

6d 0h to 0½h Wave in Dec. (+ 4′). 1h to 2h Fluctuating decrease in N.F. (— 20). 1⅝h to 3½h Wave in Dec. (+ 5′).

7d 16h to 17¼h Wave in N.F. (— 20). 23½h to 8d 0½h Decrease in N.F. (— 20). 22h to 23h Decrease in Dec. (— 3′).

8d 2½h to 4½h Wave in N.F. (— 20).

17d 5h to 6½h Wave in Dec. (— 3′). 16⅓h to 17h Wave in N.F. (+ 25). 18¾h to 19⅓h Wave in N.F. (+ 55). 19h to 20h Wave in Dec. (+ 5′). 19h to 20½h General decrease in Dec. (— 7′). 19h to 20h Double wave in V.F. (± 10). 22¾h to 23⅓h Decrease in Dec. (— 5′). 23h to 23⅓h Increase in N.F. (+ 20).

18d 0h to 1h Wave in N.F. (+ 25). 1¾h to 3½h Wave in Dec. (+ 13′), followed till 4½h by an increase (+ 4′). 2¼h to 2½h Rapid decrease in N.F. (— 30), followed till 4½h by a slightly truncated wave (+ 50). 2¾h to 4½h Wave in V.F. (— 20), with slow return.

19d 1½h to 3½h Wave in Dec. (+ 4′).

28d 3h to 29d 11½h No register of V.F.

29d 10½h to 11½h No register of Dec. and N.F. 18¾h to 20¼h Wave in Dec. (— 10′). 19h to 20h Wave in N.F. (+ 30). 22⅝h to 23½h Domed wave in Dec. (— 3′), followed till 24h by a rapid decrease (— 6′). 23h to 24h Double wave in N.F. (∓ 15). 23½h to 23¾h Decrease in V.F. (— 12).

30d 5h to 6¼h Wave in Dec. (+ 3′). 13¼h to 14h Wave in N.F. (+ 20).

31d 6½h to 7⅝h Decrease in N.F. (— 30). 7½h to 9h Wave in Dec. (+ 4′).

September

1d 1¼h to 2h Wave in Dec. (+ 3′). 5⅝h to 6h Decrease in N.F. (— 25). 5½h to 6¼h Increase in Dec. (+ 6′). 6⅓h to 7⅜h Wave in N.F. (— 25). 6¾h to 8½h Wave in Dec. (+ 6′). 9¼h to 9⅝h Decrease in N.F. (— 35). 9⅝h to 10½h Increase in Dec. (+ 6′). 17½h to 18h Wave in N.F. (— 20). 17½h to 18h Accelerated decrease in Dec. (— 6′). 20½h to 22h Truncated wave in Dec. (— 6′). 20½h to 22¾h Wave in N.F. (+ 40).

1924.

September

3d 22¾h to 23½h Wave in Dec. (− 3′), with corresponding wave in N.F. (+ 15).

4d 5h 46m Sudden small movements in Dec. and N.F. 12h to 14h Four distinct oscillations of small amplitude in Dec. and N.F.

5d 22½h to 6d 0⅛h Two consecutive waves in Dec. (− 4′, − 3′). 22¾h to 23¾h Oscillating increase in N.F. (+ 20). 23¾h to 6d 0⅜h Wave in N.F. (+ 20).

6d 1¼h to 2¼h Wave in Dec. (− 3′). 3h to 4¼h Wave in N.F. (− 20). 3½h to 5½h Two consecutive waves in Dec. (+ 4′, + 3′).

7d 8h to 8d 8h. See Plate III.

8d 10¼h to 10¾h Increase in Dec. (+ 4′). 20¼h to 21¼h Wave in N.F. (+ 40). 20h to 21h Wave in Dec. (− 4′). 23¾h to 9d 1¼h Wave in N.F. (+ 40), with sudden ascent.

9d 19¾h to 21h Wave in N.F. (+ 25), with wave in Dec. (− 4′). 21⅜h to 22½h Wave in Dec. (+ 3′).

10d 4h to 4½h Decrease in N.F. (− 20). 4⅓h to 5½h Wave in Dec. (+ 3′). 21½h to 22h Wave in N.F. (+ 20). 21h to 22h Wave in Dec. (− 3′).

12d 18⅓h to 20h Double wave in N.F. (± 20), followed immediately till 20¼h by a decrease (− 25). 21h to 21½h Wave in N.F. (+ 25). 20½h to 23h Irregular wave in Dec. (− 9′), followed till 23⅜h by a decrease (− 6′).

13d 21¾h to 23h Wave in Dec. (− 6′). 22h to 23½h Two consecutive waves in N.F. (+ 20).

19d 0½h to 2h Double wave in Dec. (± 3′).

22d 21h to 23½h Flattened wave in Dec. (− 3′).

23d 20h to 21h Two consecutive waves in N.F. (+ 20, + 25). 21h to 21½h Wave in N.F. (− 25). 21h to 21½h Decrease in Dec. (− 3′). 23½h to 23¾h Decrease in Dec. (− 3′).

24d 0h to 1h Wave in Dec. (+ 8′). 0¼h to 0⅜h Decrease in V.F. (− 20). 1h to 3h Double wave in Dec. (− 7′, + 6′). 1h to 4h Three consecutive oscillations in N.F. (± 25, ± 20, ± 15). 2½h to 5h Wave in V.F. (− 25). 3h to 3½h Increase in Dec. (+ 4′), followed immediately till 4⅓h by a wave (− 8′). 4½h to 4⅜h Decrease in Dec. (− 3′). 23½h to 24h Increase in Dec. (+ 3′).

25d 0h to 1½h Wave in N.F. (+ 30). 0⅓h to 1½h Wave in Dec. (− 4′). 20½h to 21h Wave in Dec. (− 3′). 21h to 21¾h Wave in N.F. (+ 25), with steep ascent. 23h to 26d 2h Two consecutive waves in Dec. (− 3′).

27d 2⅓h to 3¾h Wave in Dec. (+ 7′). 2¾h to 3½h Increase in N.F. (+ 25). 13½h to 14½h Wave in Dec. (+ 3′). 14h to 15¼h Wave in N.F. (− 20). 18h to 19½h Wave in N.F. (− 30). 18¼h to 19¾h Wave in Dec. (− 5′). 20h to 22½h Wave in N.F. (+ 75). 21h to 22h Wave in Dec. (− 7′). 20⅜h to 21h Truncated wave in V.F. (− 15), followed till 21¼h by a decrease (− 12).

28d 0h to 1½h Truncated wave in N.F. (+ 20). 0¼h to 1½h Flattened wave in Dec. (+ 3′). 15½h to 16⅛h Wave in Dec. (− 5′). 15¾h to 16h Increase in N.F. (+ 20). 20¾h to 22h Double-crested wave in N.F. (+ 30). 21¼h to 21¾h Wave in Dec. (− 3′).

October

1d 16h to 3d 12¼h No register of Dec. and N.F.

4d 23h to 5d 1½h Wave in Dec. (− 5′).

5d 0h to 0½h Decrease in N.F. (− 20).

6d 10¼h to 13d 17h No register of V.F., the instrument having been dismounted for experimental purposes.

6d 14¾h to 7d 12¾h No register of Dec.

7d 15⅛h to 17¼h No register of Dec. and N.F.

8d 22h to 22⅛h Decrease in Dec. (− 3′).

9d 20h to 21h Wave in Dec. (− 3′).

13d 15h to 16¾h No register of Dec. and N.F.

14d 12¼h to 13½h No register of Dec., N.F. and V.F.

15d 12h to 13⅜h No register of Dec. and N.F.

1924.
October

16d 8h to 9h Decrease in N.F. (− 20).

17d 0½h to 1½h Wave in N.F. (+ 20).

18d 3h to 4h Wave in Dec. (+ 6′). 3h to 5h Wave in N.F. (+ 20). 13¾h to 14¼h Rapid decrease in Dec. (− 6′). 14h to 15⅓h Increase in N.F. (+ 40).

20d 11h to 21d 11h No register of V.F. 21¾h to 23h Wave in N.F. (+ 30), followed till 23½h by an increase (+ 20). 21¾h to 23h Wave in Dec. (− 5′), with steep ascent.

23d 0h to 1h Wave in Dec. (+ 3′), the return continuing as a further wave till 3¼h (− 6′). 0h to 2h Wave in N.F. (+ 30). 0½h to 1h Decrease in V.F. (− 20). 3h to 4¾h General increase in Dec. (+ 6′), with a flattened wave superposed from 3⅓h to 4⅔h (− 4′). 4⅓h to 5⅓h Wave in N.F. (− 40). 5h to 5½h Decrease in V.F. (− 12). 4¾h to 5½h Wave in Dec. (+ 3′). 6h to 7½h General decrease in N.F. (− 45), with several oscillations between 6¾h and 7¼h. 6¾h to 7½h Several oscillations in Dec., followed till 7¾h by a rapid decrease (− 6′).

23d 12h to 24d 12h. See Plate III.

24d 21¾h to 23¼h Wave in Dec. (− 15′). 22h to 23h Wave in N.F. (+ 60).

25d 1½h to 5h Oscillating increase in Dec. (+ 15′). 4⅔h to 6½h Wave in N.F. (+ 30), followed immediately till 7h by an increase (+ 25). 5h to 7h Irregular decrease in Dec. (− 7′).

27d 10⅔h to 13¼h No register of Dec., N.F. and V.F. 20¾h to 22h Truncated wave in Dec. (− 8′), with wave in N.F. (+ 25). 23h to 28d 2h Flattened wave in Dec. (− 5′). 22¾h to 28d 0½h Flattened wave in N.F. (+ 20).

29d 11h to 12¾h No register of Dec., N.F. and V.F.

31d 21h to 23½h Wave in Dec. (− 6′).

November

1d 0¼h to 0½h Steep wave in Dec. (− 5′) and in N.F. (− 30), with increase in V.F. (+ 12). 21h to 22h Decrease in N.F. (− 35), followed till 2d 1h by a series of small oscillations. 21⅔h to 22⅔h Decrease in Dec. (− 7′), followed till 0½h by two consecutive truncated waves (+ 2′).

1d 13h to 3d 12h No register of V.F.

2d 0½h to 2½h Increase in Dec. (+ 8′). 23½h to 23¾h Increase in N.F. (+ 30), with irregular return till 3d 2¼h.

3d 0h to 0¾h Wave in Dec. (− 3′). 11h to 12¼h No register of Dec. and N.F. 15¾h to 16½h Increase in N.F. (+ 20).

6d 21h to 22⅛h Wave in Dec. (− 8′), with partial return (+ 5′). 21h to 22⅛h Wave in N.F. (+ 25). 23¼h to 7d 0½h Truncated wave in Dec. (+ 3′).

9d 21¼h to 22h Wave in N.F. (+ 25).

10d 12h to 13h No register of Dec. and N.F. 12h to 15h No register of V.F. 18½h to 20h Wave in Dec. (− 5′). 18½h to 19½h Wave in N.F. (+ 25).

11d 11h to 14h No register of V.F. 19½h to 20½h Wave in Dec. (− 3′). 21½h to 24h Four consecutive waves in N.F. (− 10). 22½h to 14d 1½h Irregular wave in Dec. (− 8′).

14d 0⅔h to 1⅔h Wave in N.F. (− 20).

15d 19½h to 20¼h Double wave in N.F. (+ 20, − 10). 19⅔h to 21h Wave in Dec. (− 5′).

19d 10h Very rapid increase in N.F. (+ 15). 13½h to 15h Rapid decrease in N.F. (− 75). 13¾h to 15⅛h Wave in Dec. (+ 9′). 13h to 17h Increase in V.F. (+ 25). 15h to 16¼h Wave in N.F. (+ 30), followed immediately till 18½h by an increase (+ 50). 21⅛h to 23h Wave in Dec. (− 5′). 23h to 20d 0½h Wave in Dec. (− 3′).

21d 19⅛h to 20⅛h Wave in Dec. (− 6′). 19½h to 20h Increase in N.F. (+ 25).

24d 15¼h to 16h No register of Dec. and N.F. 15¼h to 17h No register of V.F. 13⅓h to 14⅔h Wave in Dec. (− 5′). 14¾h to 15¼h Wave in Dec. (− 4′). Between 15¼h and 16h A general decrease in N.F. took place (− 65). 16h to 20½h A slow wave in Dec. (+ 15′), on which is superposed a series of oscillations. The principal of these are three consecutive waves from 16h to 18h (− 8′, − 5′, − 4′); a wave from 18½h to 19h (− 3′); a wave from 19¾h to 20½h (+ 7′). 16h to 18½h Four consecutive waves in N.F., the third double-crested (+ 25, + 25, + 25, + 20). 18¾h to 19h Decrease in N.F. (− 25). 19¾h to 20h Increase in N.F. (+ 20). 20h to 20½h Wave in N.F. (− 30). 23h to 23⅝h Double wave in Dec. (± 5′), followed immediately till 24h by a wave (− 7′), the return incomplete (+ 4′). 23h to 23⅝h Double-crested wave in N.F. (+ 65, + 50), followed immediately till 24h by an increase (+ 20). 23h to 23⅓h Decrease in V.F. (− 20). 23½h to 24h Wave in V.F. (− 12).

1924.
November $25^d\ 0\frac{1}{3}^h$ to 2^h Increase in Dec. (+ 7′).

$26^d\ 12^h$ to 13^h and $14\frac{2}{3}^h$ to $17\frac{3}{4}^h$ No register of Dec., N.F. and V.F. 21^h to 22^h Wave in Dec. (− 6′).

$27^d\ 11^h$ to 13^h and $15\frac{1}{3}^h$ to $16\frac{1}{2}^h$ No register of Dec., N.F. and V.F.

$28^d\ 11\frac{3}{4}^h$ to 14^h No register of Dec. and N.F. $11\frac{3}{4}^h$ to $29^d\ 11\frac{3}{4}^h$ No register of V.F. $16\frac{3}{4}^h$ to 17^h Wave in N.F. (+ 20).

December $3^d\ 1\frac{1}{2}^h$ to $2\frac{1}{2}^h$ Wave in Dec. (+ 3′).

$7^d\ 17^h$ to 19^h Increase in V.F. (+ 12). $17\frac{1}{2}^h$ to 19^h Wave in N.F. (− 30).

$8^d\ 3\frac{1}{2}^h$ to $4\frac{1}{2}^h$ Wave in Dec. (+ 3′).

$11^d\ 22^h\ 57^m$ Sudden movement in Dec. and N.F. 23^h to 24^h Double-crested wave in Dec. (− 3′). $23\frac{1}{2}^h$ to $12^d\ 0\frac{1}{2}^h$ Wave in N.F. (+ 30).

$12^d\ 0\frac{1}{4}^h$ to $2\frac{1}{4}^h$ Truncated wave in Dec. (− 5′). $0\frac{3}{4}^h$ to $1\frac{3}{4}^h$ Decrease in N.F. (− 25). 21^h to 22^h Slightly truncated wave in Dec. (− 11′), with similar wave in N.F. (+ 30). 22^h to $23\frac{1}{3}^h$ Wave in Dec. (− 4′). $23\frac{1}{2}^h$ to 24^h Wave in N.F. (+ 20).

$13^d\ 11\frac{1}{4}^h$ to 13^h No register of Dec., N.F. and V.F. $23\frac{1}{2}^h$ to $14^d\ 1\frac{1}{4}^h$ Double-crested wave in Dec. (− 3′, − 4′).

$15^d\ 12^h$ to 13^h and 15^h to 17^h No register of Dec., N.F. and V.F. $19\frac{1}{2}^h$ to $20\frac{1}{4}^h$ Decrease in Dec. (− 5′).

$17^d\ 22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Double-crested wave in Dec. (− 4′).

$18^d\ 13^h$ to $19^d\ 12^h$ No register of N.F. 15^h to 17^h No register of Dec. and V.F.

$19^d\ 13\frac{1}{4}^h$ to 14^h Decrease in Dec. (− 4′).

$20^d\ 1^h$ to $1\frac{3}{3}^h$ Wave in Dec. (+ 3′). $12\frac{1}{2}^h$ to $13\frac{1}{4}^h$ No register of Dec., N.F. and V.F. $18\frac{1}{2}^h$ to $19\frac{3}{4}^h$ Double-crested wave in Dec. (− 5′). $18\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Wave in N.F. (− 25). 22^h to 24^h Wave in Dec. (− 9′). $21\frac{3}{4}^h$ to $22\frac{1}{2}^h$ Wave in N.F. (− 20). 23^h to $21^d\ 1\frac{1}{2}^h$ Increase in V.F. (+ 15).

$21^d\ 3\frac{1}{2}^h$ to 5^h Wave in Dec. (+ 4′). 4^h to $4\frac{1}{3}^h$ Increase in N.F. (+ 25). 4^h to $5\frac{1}{2}^h$ Wave in V.F. (+ 12). $10\frac{1}{4}^h$ to 11^h Wave in Dec. (+ 5′). $12\frac{1}{2}^h$ to $13\frac{1}{2}^h$ Increase in N.F. (+ 30). 18^h to $18\frac{3}{3}^h$ Wave in Dec. (− 3′).

$23^d\ 1\frac{1}{2}^h$ to $2\frac{1}{2}^h$ Wave in Dec. (− 3′). $10\frac{1}{4}^h$ to $11\frac{1}{2}^h$ Wave in N.F. (− 25).

$30^d\ 4\frac{1}{2}^h$ to $9\frac{1}{2}^h$ No register of Dec. and N.F.

N.B.—During the months of October, November and December experiments were being made with the Vertical Force Variometer, and there were occasions on which, although a trace was recorded and variations were shown, quantitative measures were not considered sufficiently reliable to be retained in the daily results. These occasions have not in general been mentioned in the foregoing pages, it being intended that absence of results for any given hour shall be taken as due to this cause if it be not distinctly stated in these notes that no register was made.

EXPLANATION OF THE PLATES.

The magnetic motions figured on the Plates are those for days of disturbance selected by the International Committee—January $29^d\ 5^h$ to $30^d\ 5^h$; May $21^d\ 5^h$ to $23^d\ 5^h$; June $10^d\ 6^h$ to $11^d\ 6^h$; September $7^d\ 8^h$ to $8^d\ 8^h$ and October $23^d\ 12^h$ to $24^d\ 12^h$.

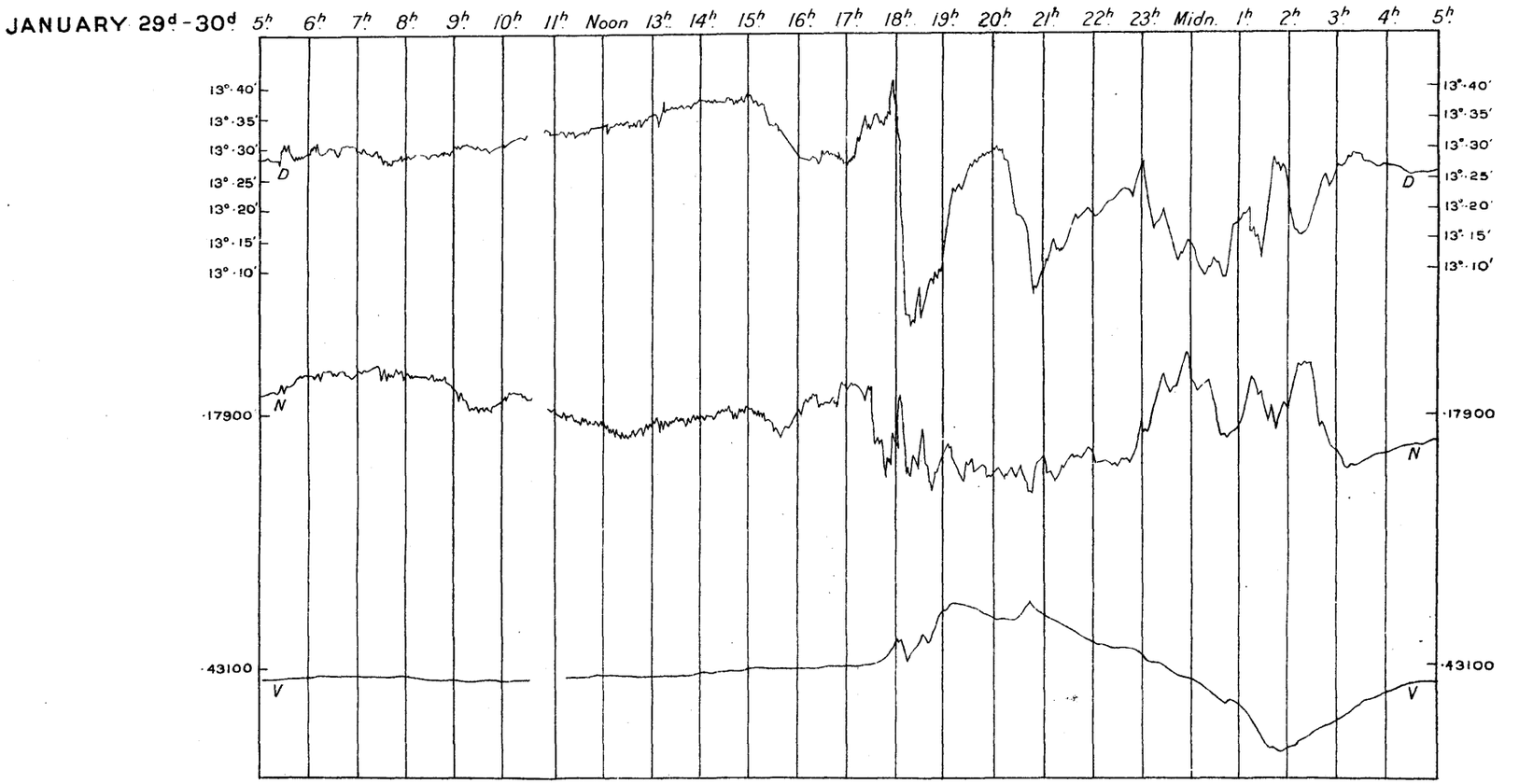
The time is Greenwich Civil Time (commencing at midnight and counting the hours from 0 to 24).

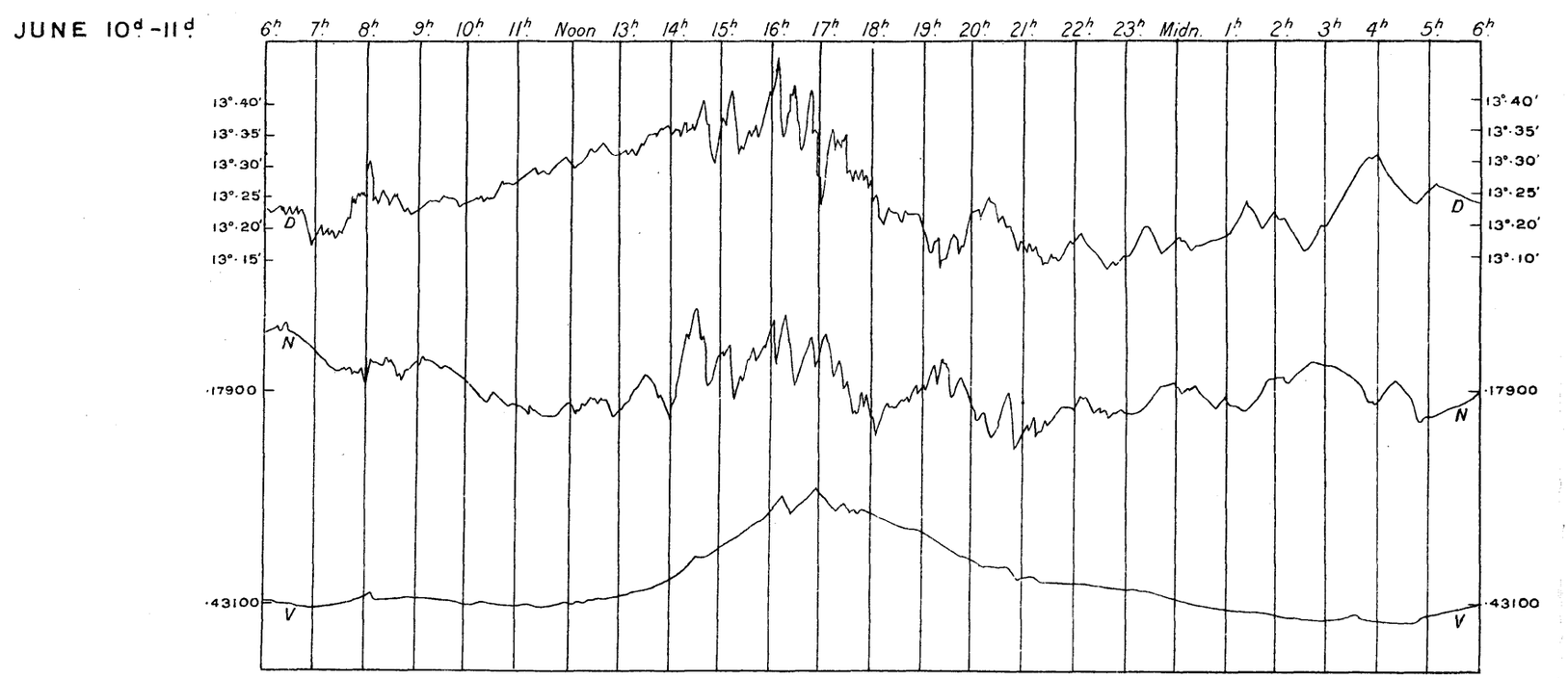
The magnetic declination, north force, and vertical force are indicated by the letters D, N and V, respectively. The declination (west) is expressed in arc; the unit for north and vertical force is γ (0·00001 C.G.S.), the corresponding scales being given on the side of each diagram.

Equal changes of amplitude in declination and north force correspond nearly to equal changes of absolute magnetic force, 0·001 of a C.G S. unit being represented by 0·71 in. = 17·7 mm. in the declination curve and by 0·66 in. = 16·4 mm. in the north force curve. In the case of the vertical force curve the scale is somewhat smaller and is non-uniform. The mean value for January 29–30, May 21–23, June 10–11 and September 7–8 is 0·42 in. = 10·6 mm.; that for October 23–24 is 0·59 in. = 15·0 mm.

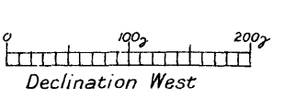
Upward motion indicates increase of declination, north force and vertical force.

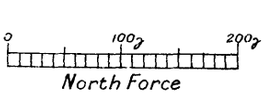
MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH IN THE YEAR 1924.

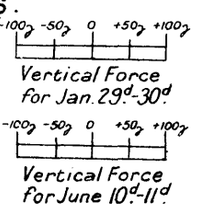




SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.







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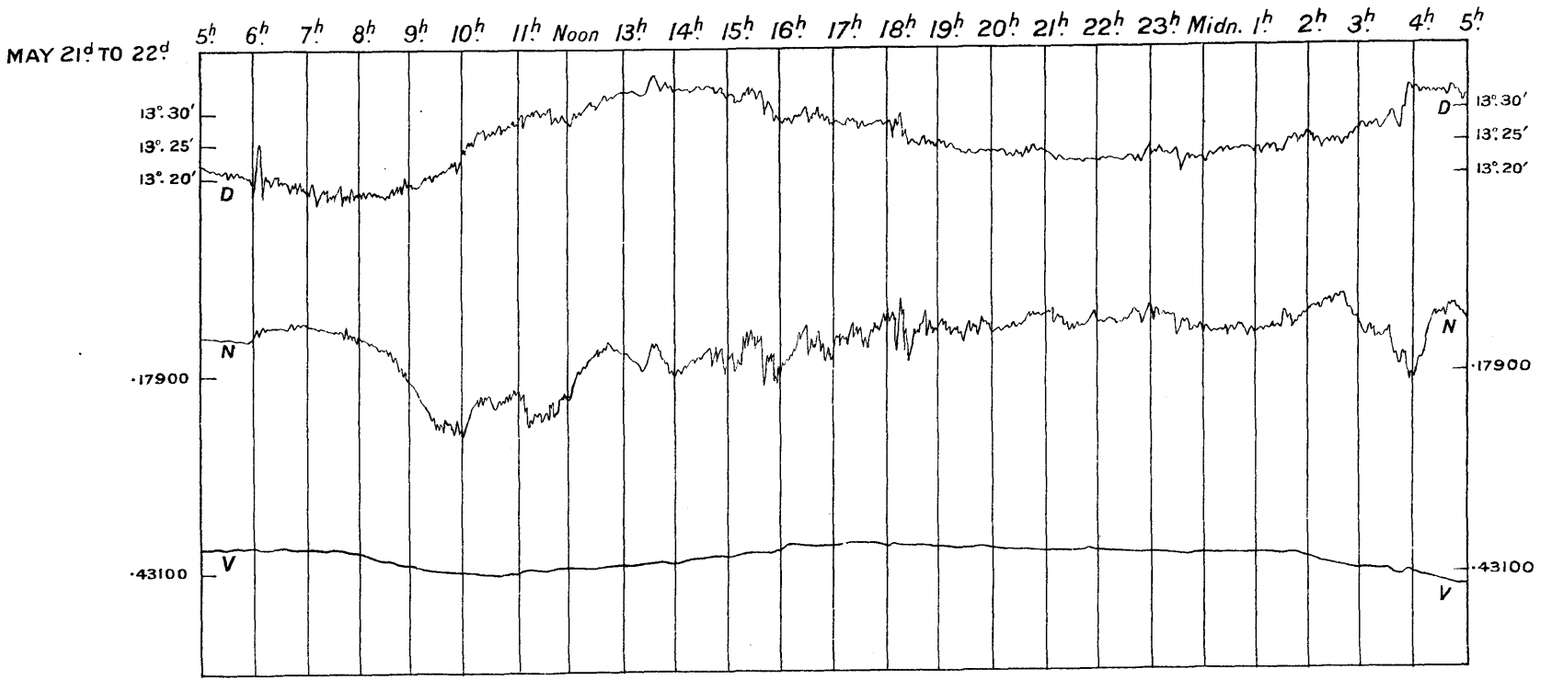
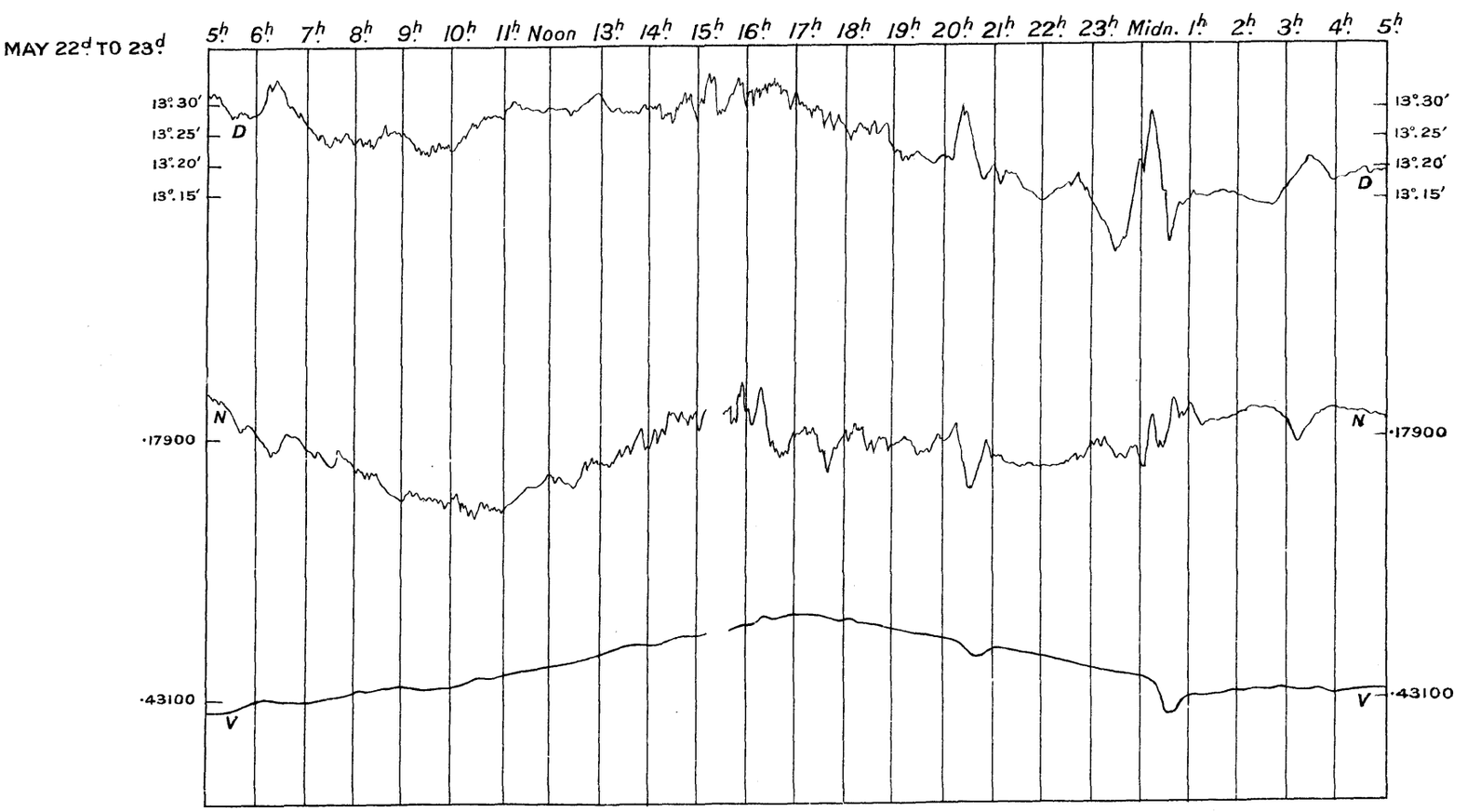
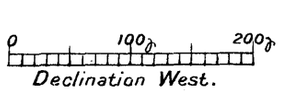
Malby & Sons, Lith.

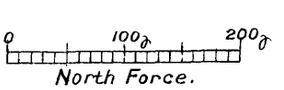
MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1924.

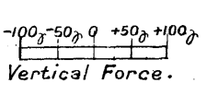




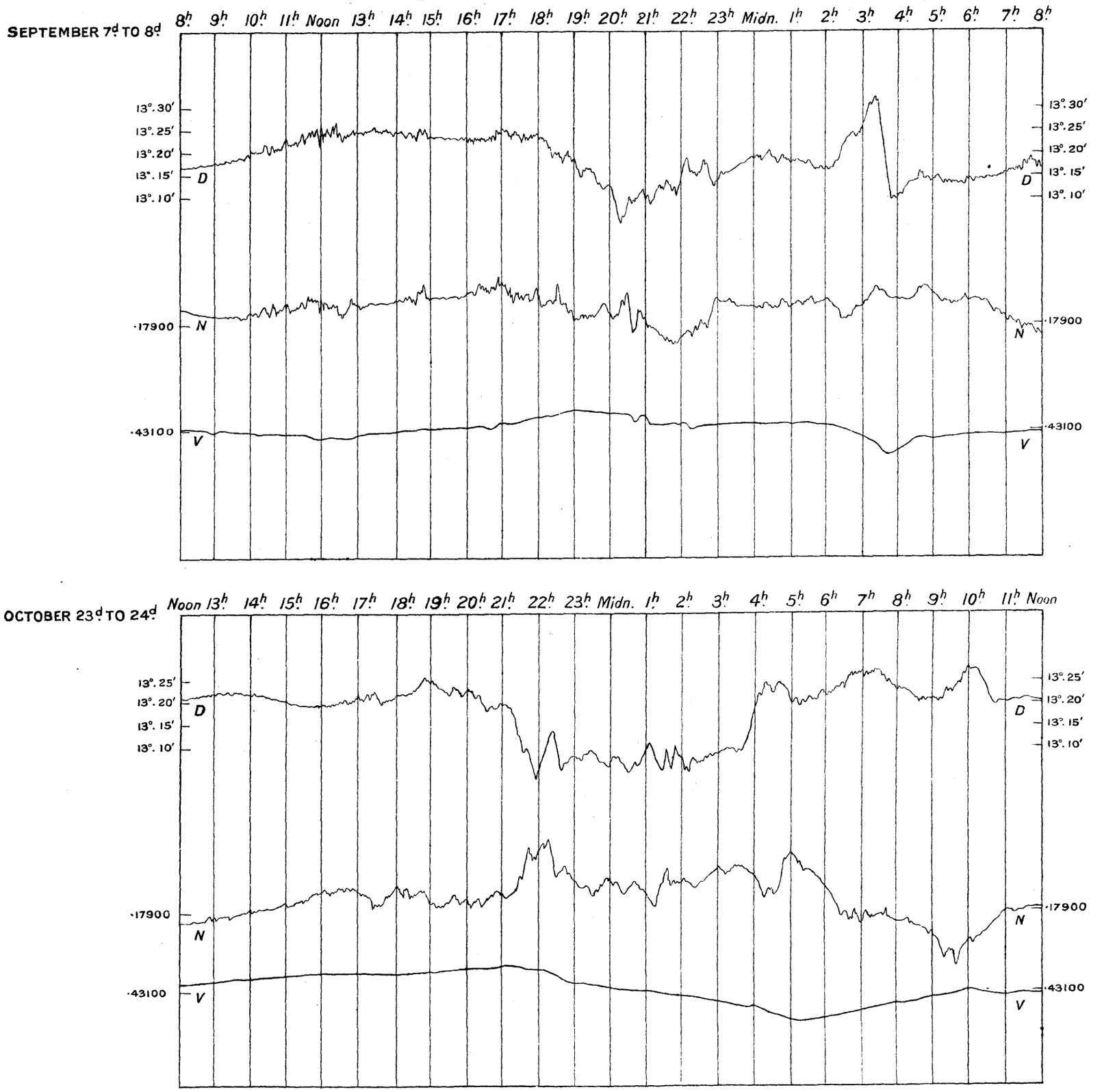
SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.



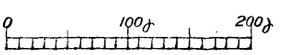




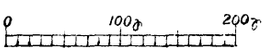
MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1924.



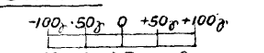
SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.



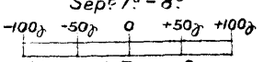
Declination West.



North Force.



Vertical Force for Sept 7d – 8d



Vertical Force for October 23d – 24d

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS

1924.

MONTH and DAY, 1924	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	.in.		hours.	hours.
Jan. 1	29·969	49·3	42·7	6·6	47·0	+ 8·4	46·1	45·1	1·9	4·3	0·6	94	48·8	40·5	43·0	0·077	mP	0·0	7·9
2	29·865	48·0	44·0	4·0	46·7	+ 8·3	45·2	43·6	3·1	4·5	0·2	90	54·3	40·9	43·0	0·026	wP, mP : sP, mP : mP	0·0	7·9
3	29·826	44·0	30·9	13·1	39·9	+ 1·6	38·4	36·5	3·4	7·7	1·2	88	49·2	25·3	43·0	0·000	mP : sP : sP	1·2	7·9
4	30·053	35·2	25·9	9·3	31·8	− 6·5	31·2	29·9	1·9	1·9	0·0	94	42·0	20·5	43·0	0·003	mP	0·0	7·9
5	30·137	37·4	26·3	11·1	30·7	− 7·5	29·5	26·2	4·5	5·2	0·0	82	42·7	19·2	43·0	0·001*	mP, wP : mP : mP	4·9	7·9
6	29·961	41·2	30·8	10·4	34·6	− 3·5	32·5	29·1	5·5	10·4	0·0	79	57·6	20·8	42·9	0·000	wP : wP, mP : mP, wP	6·4	8·0
7	29·649	38·5	27·4	11·1	32·3	− 5·7	31·2	28·8	3·5	6·8	0·0	86	56·7	16·0	42·7	0·003*	wP : mP	5·0	8·0
8	29·253	37·3	30·0	7·3	35·3	− 2·6	34·8	34·0	1·3	2·8	0·0	95	39·8	30·7	42·6	0·086	wP : wP, v : wP, wN	0·0	8·0
9	29·061	30·1	27·0	3·1	28·8	− 9·1	28·1	25·5	3·3	7·5	0·5	87	32·9	28·0	42·1	0·153	wN, wP : ..	0·0	8·0
10	29·172	40·6	29·6	11·0	36·1	− 1·8	35·0	33·4	2·7	5·0	0·5	90	43·8	28·9	41·9	0·281	.. : sP, vvN	0·0	8·1
11	29·464	45·8	35·1	10·7	40·3	+ 2·4	38·1	35·3	5·0	9·7	1·0	83	60·5	30·9	42·0	0·036	wP : mP : mP, wP	4·4	8·1
12	29·673	52·0	45·7	6·3	49·7	+11·8	46·7	43·5	6·2	9·5	3·9	80	57·8	37·5	41·9	0·000	wP : mP	0·0	8·1
13	29·521	47·9	43·0	4·9	45·9	+ 7·9	42·2	38·0	7·9	10·9	5·4	74	60·4	35·0	41·9	0·000	wP	1·6	8·2
14	29·476	48·8	44·5	4·3	47·2	+ 9·2	45·6	43·8	3·4	6·7	2·8	89	52·2	37·1	41·9	0·002	wP : mP	0·0	8·2
15	29·453	48·9	38·2	10·7	43·7	+ 5·6	41·9	39·8	3·9	8·7	1·4	86	72·0	30·2	42·0	0·005*	wP : wP, mP : mP	5·2	8·2
16	29·374	41·7	34·1	7·6	37·2	− 1·1	36·2	34·8	2·4	5·3	0·7	91	49·8	27·2	42·1	0·001*	wP, mP : mP	1·7	8·3
17	29·567	36·5	32·4	4·1	33·9	− 4·6	33·4	32·6	1·3	3·4	0·0	94	35·7	29·0	42·1	0·030	mP, wP : mP, v : mP, wP	0·0	8·3
18	29·558	51·4	36·0	15·4	46·6	+ 8·0	45·8	44·9	1·7	6·5	0·5	94	51·9	35·4	42·2	0·273	wP, vN : mP, vN : mP	0·0	8·4
19	29·354	49·8	42·8	7·0	47·0	+ 8·3	44·8	42·4	4·6	12·0	1·7	85	68·9	38·2	42·1	0·541	wP, v : v, mP	4·0	8·4
20	29·677	50·2	38·3	11·9	45·3	+ 6·5	43·0	40·4	4·9	10·0	1·1	83	63·7	28·1	42·2	0·043	vN, wP : mP : sP, mP	2·5	8·5
21	29·861	48·5	41·1	7·4	44·7	+ 5·9	44·0	43·2	1·5	2·7	0·6	94	57·9	29·9	42·2	0·513	mP : wP, wwP	0·0	8·5
22	29·766	48·4	43·7	4·7	45·9	+ 7·1	44·6	43·1	2·8	5·5	0·9	91	58·4	39·0	42·5	0·308	wwP : wP, mP : v, vN	0·0	8·5
23	29·909	45·0	40·1	4·9	42·3	+ 3·4	42·1	41·8	0·5	2·0	0·0	98	46·0	39·1	42·7	0·138	vvN : sP, mP : wP	0·0	8·6
24	29·972	46·3	39·1	7·2	42·9	+ 4·0	42·3	41·6	1·3	5·5	0·4	97	53·2	32·2	42·8	0·268	wP : mP, v : wN, vvN	0·0	8·6
25	30·221	47·4	33·6	13·8	42·1	+ 3·0	40·2	37·8	4·3	10·8	1·0	86	58·1	25·3	42·9	0·076	wP, mP : sP : sP	5·8	8·7
26	30·430	45·3	32·8	12·5	38·4	− 0·9	37·8	37·0	1·4	4·9	0·7	95	62·0	24·2	42·9	0·005	mP	3·4	8·7
27	30·337	46·5	36·8	9·7	42·2	+ 2·7	38·7	34·4	7·8	12·8	3·4	75	66·1	27·9	42·9	0·000	wP : mP : mP	5·8	8·8
28	30·313	46·9	35·1	11·8	41·2	+ 1·6	39·1	36·5	4·7	8·5	2·5	84	60·6	27·0	42·8	0·000	mP : mP : wP	3·5	8·8
29	30·187	44·8	37·5	7·3	40·8	+ 1·1	39·6	38·1	2·7	3·9	0·4	90	49·0	28·5	42·6	0·003	.. : .. : mP	0·0	8·9
30	30·153	43·7	41·0	2·7	42·1	+ 2·4	41·9	41·6	0·5	1·5	0·0	98	43·0	40·0	42·6	0·000	mP	0·0	8·9
31	30·154	45·1	41·2	3·9	43·3	+ 3·6	42·0	40·4	2·9	5·0	1·3	90	47·2	38·0	42·5	0·000	mP, sP : sP	0·0	9·0
Means	29·786	44·6	36·3	8·3	40·8	+ 2·2	39·4	37·5	3·3	6·5	1·1	88·5	53·0	30·7	42·5	Sum 2·872	..	1·8	8·3
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

*Rainfall (Column 16). The amount entered on January 5, 7, 15 and 16 are derived from dew or hoar frost.

The mean reading of the *Barometer* for the month was 29^{in}·786, being 0^{in}·008 *lower* than the average for the 65 years, 1841–1905.

Temperature of the Air.

The highest in the month was 52°·0 on January 12; the lowest in the month was 25°·9 on January 4; and the range was 26°·1.
The mean of all the highest daily readings in the month was 44°·6, being 1°·5 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 36°·3, being 2°·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 40°·8, being 2°·2 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Fraction of Total Exposure.	δ Ursae Minoris. Duration.	Fraction of Total Exposure.	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.		
Jan. 1	0·0	0·00	0·0	0·00	WSW : NW : NNW	NNW	1·4	0·12	283	10, r : 10, m.-r	10, s, n : 10, oc.-m.-r : 10
2	6·3	0·45	5·9	0·42	NW : WSW	SW : WSW	1·0	0·03	241	10 : 10, s	10 : 10, r, m.-r : 7
3	12·3	0·88	6·0	0·43	WSW : W	WNW : Calm	2·0	0·10	286	1 : 9 : 8, cu	p.-cl, cu : 0, m
4	8·0	0·57	7·4	0·53	Calm	Calm	0·0	0·00	76	0 : 0 : : 10, oc.-r, m	10 : 10 : 3, ho.-fr
5	7·0	0·50	6·4	0·46	Calm	Calm : SSW	0·0	0·00	128	5, ho.-fr : 9, ho.-fr : 1, ci	p.-cl, ci : 0 : 2, ho.-fr
6	14·0	1·00	14·0	1·00	SSW	SE	1·1	0·03	176	10, ho.-fr : 0, ho.-fr	0 : 0, ho.-fr
7	2·0	0·15	2·0	0·15	SE : Calm	ESE	0·4	0·01	143	0, ho.-fr : 0, ho.-fr	0 : 10
8	0·0	0·00	0·0	0·00	ESE	ESE	9·6	0·60	345	10 : 10, oc.-m.-r	10 : 10, slt.-m.-r, w : 10, sn, w
9	0·0	0·00	0·0	0·00	E : ENE	NE	7·5	0·80	473	10, sn, w : 10, sn, w : 10, oc.-slt.-sn,w	10 : 10
10	2·3	0·16	2·0	0·15	Calm : SW	Calm	0·9	0·01	146	10 : 10, sn, r, m.-r : 10,th.-cl,so.-has	10 : 10, r : 10, r
11	1·2	0·08	0·7	0·05	WSW	WSW : SW	7·5	0·42	412	10, r : 3 : p.-cl, cu.-s	7, th.-cl : 10 : 10, slt.-r, w
12	6·7	0·49	4·5	0·33	SW	SW : SSW	11·2	1·92	623	10, w : 10, w	10, w : 3
13	1·0	0·07	0·3	0·02	SSW	SSW	4·9	0·81	477	0 : 10, sh, w : 9, s, n	9 : 9
14	12·2	0·90	11·7	0·87	SSW : SW	SSW	2·0	0·25	313	10 : 10, oc,-m.-r	10 : p.-cl, p.-lu.-ha
15	11·7	0·86	11·2	0·82	SSW : SSE	SSE : SE : Calm	1·9	0·14	246	1, d : 3, ci	8, ci.-cu, cu.-s : p.-cl : p.-cl, th.-cl
16	5·4	0·40	4·4	0·32	ESE	E	0·8	0·06	226	1, d : 3, th.-cl : p.-cl. ci	8, th.-cl : 8, th.-cl : p.-cl
17	0·0	0·00	0·0	0·00	E	E : SE	2·0	0·13	252	10, r : 10 : 10, slt.-r	10, slt.-r, m.-r : 10, m
18	0·0	0·00	0·0	0·00	SSE : SW	SW : WSW	3·0	0·19	320	10 : 10, r : 10, s, r	10, s, r : 10
19	4·9	0·38	4·1	0·31	SW : WSW	WSW	12·0	0·73	516	10, fq.-r : 10, fq.-r : 8, cu, sh, w	9, r, l, hl, w : p.-cl : 9, r, w
20	5·3	0·40	5·3	0·40	WSW	WNW : WSW	3·2	0·23	367	10, r : 10, r, m.-r : 9, cu, ci.-s	8 : 2 : p.-cl, slt.-ho.-ir
21	0·0	0·00	0·0	0·00	SW : SSW : SSE	SSE : S	1·5	0·07	223	10 : 10, oc.-m.-r	10, n, r : 10, r
22	0·0	0·00	0·0	0·00	SSE : SE	Calm	0·5	0·02	159	10, oc.-m.-r : 10, m.-r	10 : 10, r : 10, r
23	0·0	0·00	0·0	0·00	Calm : NNE	E : Calm	0·3	0·00	118	10, r : 10, r, m.-r : 10, m	10, m.-r.-sh : 10 : 10
24	0·0	0·00	0·0	0·00	Calm : SSW	SW : SSW	0·5	0·02	178	10 : 9, cu.-s, n	10, s, r : 10, r
25	9·6	0·72	6·7	0·51	NNW	NNW : Calm	0·6	0·02	198	10, r : p.-cl : 6, th.-cl	9, th.-cl : th.-cl, slt.-f : 0, m, ho.-fr
26	1·8	0·14	0·5	0·04	WSW	WSW : SW	1·0	0·03	245	0, ho -fr : 10, slt.-f : 10, slt. f	p.-cl, ci.-cu : 3 : p.-cl
27	10·5	0·82	8·1	0·64	SW : WSW : NW	NW : WNW	2·8	0·24	364	10 : 10 : 1, h	1, cu, h : 0, ho.-fr
28	4·3	0·34	0·7	0·05	W : N	N : NNW	1·6	0·09	263	1, ho.-fr : th.-cl. : p.-cl, th.-cl	7 : 9 : 1
29	0·0	0·00	0·0	0·00	NNW : WSW	WSW	0·2	0·00	184	10 : 10 : 10, m.-r	10, s, n : 10 : p.-cl
30	0·0	0·00	0·0	0·00	W : Calm	Calm	0·2	0·00	114	10 : 10, m : 10, f, glm	10, m : 10, m
31	2·3	0·18	1·3	0·10	Calm	SW : WSW	0·2	0·00	163	10, m : 10, m	10 : 10
Means	..	..	..	..	..	..	..	0·23	266		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 39°·4, being 2°·2 *higher* than
The mean *Temperature of the Dew Point* for the month was 37°·5, being 2°·0 *higher* than
The mean *Degree of Humidity* for the month was 88·5, being 0·5 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·225, being 0in·019 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·6, being 0gr·2 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 551 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 7·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·214. The maximum daily amount of *Sunshine* was 6·4 hours on January 6.

The highest reading of the *Solar Radiation Thermometer* was 72°·0 on January 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 16°·0 on January 7.

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

The *Greatest Pressure of the Wind* in the month was 12·0 lbs. on the square foot on January 19. The mean daily *Horizontal Movement of the Air* for the month was 266 miles; the greatest daily value was 623 miles on January 12; and the least daily value was 76 miles on January 4.

Rain (0in·005 or over) fell on 17 days in the month, amounting to 2in·872, as measured by gauge No. 6 partly sunk below the ground; being 0in·991 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Feb. 1	30·285	44·0	35·5	8·5	41·0	+ 1·4	37·7	33·5	7·5	12·7	1·6	75	64·0	27·7	42·7	0·007	sP : sP	5·4	9·1
2	30·295	48·9	33·6	15·3	41·0	+ 1·5	38·5	35·3	5·7	9·2	2·6	80	66·0	26·2	42·8	0·000	.. : mP	2·1	9·1
3	30·245	48·8	37·1	11·7	42·9	+ 3·4	39·9	36·3	6·6	10·0	2·7	78	65·0	30·2	42·5	0·000	wP : mP : mP	2·0	9·2
4	30·157	47·3	37·3	10·0	43·1	+ 3·6	40·3	36·9	6·2	8·8	3·7	79	61·3	29·5	42·8	0·000	wP, mP : sP : sP, mP	0·9	9·2
5	29·889	47·1	39·2	7·9	43·6	+ 4·0	40·9	37·7	5·9	8·9	2·1	79	47·2	31·5	42·4	0·000	mP : sP, mP	0·0	9·3
6	29·790	50·5	46·1	4·4	47·9	+ 8·3	45·8	43·5	4·4	7·4	1·5	86	62·4	41·1	42·7	0·179	wP, vN : mP : mP	0·0	9·4
7	29·845	46·8	40·5	6·3	44·1	+ 4·6	39·9	35·0	9·1	13·3	5·6	70	53·6	29·6	42·6	0·000	mP, sP : sP, mP	0·0	9·4
8	29·600	45·0	39·0	6·0	41·6	+ 2·3	38·3	34·2	7·4	9·7	4·4	76	55·0	29·6	42·7	0·000	mP, wP : mP : mP	0·0	9·4
9	29·020	47·1	38·0	9·1	42·3	+ 3·2	40·7	38·8	3·5	6·4	1·5	88	53·9	30·1	42·8	0·091	wP : wwP, wwN : mP	0·0	9·5
10	28·951	43·3	38·2	5·1	41·6	+ 2·7	41·3	40·9	0·7	2·6	0·2	98	48·0	31·4	42·7	0·002	mP : sP, mP : wP	0·0	9·6
11	29·115	38·2	35·3	2·9	36·7	− 2·1	35·2	33·1	3·6	5·3	0·2	87	42·0	33·8	42·7	0·000	wP, mP : mP	0·0	9·6
12	29·302	43·0	35·1	7·9	38·2	− 0·6	37·6	36·8	1·4	5·0	0·4	95	44·2	34·7	42·7	0·005	wP, wwN : wwP : wwP	0·0	9·7
13	29·413	40·9	30·4	10·5	34·4	− 4·6	33·3	31·4	3·0	11·3	2·3	88	38·7	28·8	42·8	0·006	wN : .. : ..	0·0	9·8
14	29·960	35·0	27·8	7·2	31·9	− 7·4	30·9	28·7	3·2	11·5	1·6	87	63·0	20·4	42·6	0·000	..	0·9	9·8
15	30·125	35·0	21·2	13·8	29·3	−10·1	28·0	23·6	5·7	5·0	0·4	78	54·9	14·0	42·3	0·014	..	0·4	9·9
16	30·298	39·9	28·6	11·3	33·7	− 5·8	31·1	26·4	7·3	13·1	1·4	74	83·7	20·7	42·2	0·000	.. : wP, mP	6·4	10·0
17	30·361	38·3	24·7	13·6	30·5	− 9·1	29·1	25·1	5·4	8·9	0·0	79	78·0	16·8	42·0	0·000	..	1·2	10·0
18	29·945	41·0	29·7	11·3	34·8	− 4·7	33·1	30·4	4·4	7·7	0·7	83	55·6	22·3	41·9	0·081	.. : mP, sP	0·0	10·1
19	29·899	38·7	32·2	6·5	35·1	− 4·4	33·1	29·9	5·2	7·3	3·4	80	53·9	28·7	41·7	0·004	..	0·2	10·1
20	30·088	35·3	31·9	3·4	34·3	− 5·2	32·2	28·6	5·7	7·8	3·8	79	40·0	28·4	41·4	0·000	..	0·0	10·2
21	30·045	41·4	26·1	15·3	33·9	− 5·7	32·4	29·8	4·1	10·0	1·7	84	44·0	19·8	41·2	0·000	.. : sP, mP	0·0	10·3
22	30·092	40·3	35·0	5·3	37·8	− 1·9	35·1	31·4	6·4	10·2	3·1	78	51·7	28·1	41·1	0·032	mP : sP	0·0	10·3
23	30·219	42·1	33·1	9·0	36·9	− 2·9	34·3	30·6	6·3	13·6	3·0	78	69·0	28·3	41·0	0·000	.. : sP, mP	0·9	10·4
24	29·934	44·0	34·6	9·4	38·6	− 1·4	36·6	33·9	4·7	8·0	1·5	84	62·5	28·5	41·0	0·046	wP : v, mP	0·2	10·5
25	29·769	39·9	31·5	8·4	36·4	− 3·7	34·4	31·5	4·9	8·4	3·5	83	51·0	26·9	40·9	0·013	wP, mP : sP : mP	0·0	10·5
26	30·037	37·2	28·9	8·3	31·6	− 8·6	30·0	26·2	5·4	11·7	1·3	80	77·7	21·9	40·9	0·000	wP, mP : sP, mP : mP	2·8	10·6
27	30·045	34·1	29·2	4·9	31·3	− 9·0	29·6	25·3	6·0	13·4	0·0	77	60·0	27·1	40·9	0·089	wP, mP : sP : mP, v	0·2	10·6
28	29·863	37·2	28·3	8·9	32·8	− 7·5	31·7	29·5	3·3	9·8	0·0	88	80·6	21·6	40·8	0·000	mP, sP : sP	4·7	10·7
29	29·457	46·0	25·9	20·1	35·8	− 4·6	33·5	30·0	5·8	12·5	0·6	79	79·5	18·2	40·9	0·093	mP, wP : wP : sP, mP	0·3	10·8
Means	29·864	41·9	32·9	9·0	37·3	− 2·2	35·3	32·2	5·1	9·3	1·9	81·7	58·8	26·7	42·0	Sum 0·662	...	1·0	9·9
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

The mean reading of the *Barometer* for the month was 29^{in}·864, being 0^{in}·062 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 50°·5 on February 6; the lowest in the month was 21°·2 on February 15; and the range was 29°·3.

The mean of all the highest daily readings in the month was 41°·9, being 3°·3 *lower* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 32°·9, being 1°·3 *lower* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 9°·0, being 2°·0 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 37°·3, being 2°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Fraction of Total Exposure.	δ Ursae Minoris. Duration.	Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Feb. 1	12·0	0·94	0·0	0·00	NW : N	N : NW : WSW	1·0	0·06	249	10, sh : 2 : p.-cl, cu	p.-cl, ci.-cu : p.-cl, th.-cl : 0, h
2	8·6	0·67	8·4	0·66	WSW	WNW : W	2·0	0·18	385	0, ho.-fr : 0, ho.-fr : p.-cl, th.-cl	8, cu : 7 : p.-cl
3	7·0	0·55	6·5	0·51	W	NW	2·0	0·11	316	1 : 1 : p.-cl	7 : 10
4	10·8	0·84	7·9	0·62	W	WNW	1·9	0·19	386	1 : 1 : 9, n, slt.-sh	10, n, slt.-sh : 1
5	0·0	0·00	0·0	0·00	WNW : W	W : NW	4·5	0·51	539	3 : 9 : 10, s, n	10, w : 10, w
6	1·8	0·14	1·5	0·12	NW : NNW	NNW : NW	2·5	0·46	464	10, r, m.-r, sl, w : 10, m.-r, r, w	10, cu, n : 10
7	0·0	0·00	0·0	0·00	NW : WNW	Calm	1·5	0·05	214	10 : v.-cl : 10	10, n : 10
8	8·0	0·62	7·7	0·60	Calm : SSE	SSE	1·5	0·09	203	10 : 10 : 10, oc.-m.-r	10, cu.-n, s : 2 : 0
9	2·6	0·21	1·5	0·12	SE : SSE	SSW : SW	7·0	0·59	387	7 : 9 : 10, fq.-slt.-r, w	10, r, w : 10 : v.-cl
10	0·0	0·00	0·0	0·00	Calm	Calm : E	0·2	0·01	160	10, m : 10, m	10, m : 10 : 10
11	0·0	0·00	0·0	0·00	E : ENE	Calm	0·1	0·00	151	10 : 10, s, n	10, s, n : 10
12	0·0	0·00	0·0	0·00	Calm : E	E	2·0	0·07	216	10 : 10	10, m.-r : 10, m.-r : 10
13	0·0	0·00	0·0	0·00	E	E : ENE	10·0	1·89	659	10, shs, w : 10, w	10, w, oc.-slt.-sn : 10, w
14	10·6	0·87	10·3	0·84	ENE : NE	NE : Calm	6·3	0·68	414	10, w : 10, w	10, n : 10 : 0, ho.-fr
15	2·1	0·17	1·1	0·09	Calm : WSW	WSW : Calm	0·3	0·01	141	0, ho.-fr : 0, ho.-fr : p.-cl	10, sn : 10, m
16	8·3	0·69	8·3	0·69	Calm : ESE	E : ENE	1·8	0·08	205	9 : 9 : 3, cu, n	p.-cl : 3 : 2
17	4·9	0·35	2·0	0·16	ENE : Calm	Calm	0·1	0·00	116	10 : 0 : 10, m, slt.-sn.-sh	7, cu : 2, m : 10, m, lu.-ha, ho.-fr
18	3·0	0·25	1·9	0·16	SW : WSW	W : NW : NNE	3·1	0·20	315	9, lu.-ha, ho.-fr : 1 : 10, m.-r	10, r : 8 : 9
19	0·0	0·00	0·0	0·00	N : NNE	NE	4·2	0·37	404	10, oc.-sn : 10, s	10, sn, w : 10, oc.-slt.-shs : 10
20	6·4	0·53	5·3	0·44	NE : ENE	ENE : NE	0·9	0·02	235	10 : 10, n	10, n : 10
21	1·5	0·13	1·4	0·12	Calm	Calm : NNE	1·6	0·02	75	1, h, ho.-fr : 1, ho.-fr : 10, m	10, m : 10, m : 10
22	5·5	0·46	4·6	0·38	NNE	NNE	4·4	0·29	340	10, slt.-sh : 10, slt.-sn, sh	10, hl : 10 : 10
23	0·0	0·00	0·0	0·00	NNE : N	N	2·1	0·31	344	7 : 9, sn.-sh	7 : 10 : 9
24	1·6	0·14	1·0	0·09	WNW : W	W : NW : N	4·1	0·37	380	10 : 10, oc.-m.-r	10, r : 10, sh
25	..	..	..	..	N : NNE	NNE : NE	4·9	0·51	480	10, shs : 10, slt.-sh	10, r, sl : 8
26	0·8	0·07	0·8	0·07	NE : NNE	NE	2·4	0·21	399	10 : 3 : 8	9, sn : 10, w
27	0·8	0·07	0·7	0·06	NE	Calm : W : NW	2·0	0·05	268	10 : 10 : 9	p.-cl, h : 10, sn.-sh : 10, sn
28	9·5	0·84	8·3	0·74	N	N : NW	4·2	0·27	391	10, sn.-sh : 10 : 7, sn.-sh	8, sn.-shs : 0
29	0·7	0·06	0·4	0·03	WSW	WSW : WNW	9·0	0·84	553	0 : v.-cl : 10, n, w	10, n, r, w : 10, w : 10, w
Means	..	..	..	..	..	..	..	0·29	324		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 35°·3, being 2°·4 *lower* than
The mean *Temperature of the Dew Point* for the month was 32°·2, being 3°·2 *lower* than
The mean *Degree of Humidity* for the month was 81·7, being 3·8 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·182, being 0in·025 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·1, being 0grs·3 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 557 grains, being 4 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8·5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·100. The maximum daily amount of *Sunshine* was 6·4 hours on February 16.

The highest reading of the *Solar Radiation Thermometer* was 83°·7 on February 16; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·0 on February 15.

The *Proportions of Wind* referred to the cardinal points were N. 9, E. 5, S. 3, W. 8. Four days were calm.

The *Greatest Pressure of the Wind* in the month was 10·0 lbs. on the square foot on February 13. The mean daily *Horizontal Movement of the Air* for the month was 324 miles; the greatest daily value was 659 miles on February 13; and the least daily value was 75 miles on February 21.

Rain (0in·005 or over) fell on 12 days in the month, amounting to 0in·662 as measured by gauge No. 6 partly sunk below the ground; being 0in·818 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Mar. 1	29·150	43·0	33·7	9·3	37·2	− 3·2	32·2	25·2	12·0	16·4	7·3	61	87·0	27·0	40·7	0·000	mP : sP, mP : mP, sP	7·0	10·8
2	29·034	44·7	32·0	12·7	35·6	− 4·8	32·8	28·5	7·1	18·3	1·3	75	90·6	25·4	40·4	0·025	mP, wP : wP : v, mP	3·8	10·9
3	29·207	44·1	31·5	12·6	35·8	− 4·7	33·4	29·7	6·1	14·5	0·4	78	85·0	25·0	40·3	0·113	v, mP : sP, mP : sP, mP	5·3	11·0
4	29·514	46·4	30·2	16·2	37·2	− 3·5	33·7	28·8	8·4	16·0	2·3	72	94·4	20·0	40·4	0·000	wP, mP : mP, sP : sP	7·1	11·1
5	29·768	49·7	25·1	24·6	36·7	− 4·2	33·2	28·2	8·5	16·0	0·6	71	98·0	14·5	40·5	0·000	sP : mP : mP	9·6	11·1
6	30·022	47·0	33·2	13·8	38·9	− 2·1	37·5	35·6	3·3	9·2	1·7	89	79·0	25·2	40·3	0·075	v, mP : sP, mP : mP, wP	1·4	11·2
7	30·298	44·6	30·8	13·8	35·8	− 5·2	34·7	33·0	2·8	8·3	1·4	90	92·5	25·0	40·5	0·000	wP	4·9	11·2
8	30·207	50·6	28·6	22·0	37·5	− 3·6	33·7	28·4	9·1	20·7	2·8	70	97·5	17·5	40·6	0·000	wP : mP	7·6	11·3
9	30·064	53·9	29·2	24·7	39·4	− 1·6	34·7	28·6	10·8	22·8	2·8	65	102·7	14·1	40·7	0·000	wP : wP : mP	10·1	11·4
10	30·022	50·2	25·1	25·1	36·0	− 4·9	33·1	28·7	7·3	14·4	0·0	75	99·1	10·0	40·6	0·000	wP : mP	9·8	11·4
11	30·119	55·9	27·3	28·6	39·3	− 1·7	36·0	31·6	7·7	17·6	0·4	75	98·8	17·1	40·5	0·001*	mP	8·0	11·5
12	30·201	54·3	30·4	23·9	40·3	− 0·8	37·4	33·7	6·6	15·6	0·6	77	95·0	16·1	40·4	0·001*	wP : mP : mP	9·3	11·6
13	30·158	49·3	31·3	18·0	39·0	− 2·3	35·0	29·7	9·3	15·8	2·5	70	98·3	20·6	40·5	0·000	wP : mP : mP, wP	9·8	11·6
14	30·123	51·0	29·7	21·3	38·3	− 3·2	34·0	28·2	10·1	22·5	1·8	66	99·6	19·9	40·5	0·000	wP : mP : mP	9·7	11·7
15	29·967	55·6	25·2	30·4	40·1	− 1·6	35·8	30·2	9·9	21·1	0·6	67	74·1	15·5	40·4	0·000	wP : sP, mP	1·9	11·8
16	29·823	57·0	33·9	23·1	44·0	+ 2·1	38·9	32·9	11·1	17·7	5·8	64	86·0	20·7	40·5	0·000	wP : mP : wP	0·9	11·8
17	29·911	48·6	30·1	18·5	38·0	− 4·0	33·8	28·1	9·9	19·1	1·7	67	89·4	16·8	40·4	0·000	wP, mP : sP : sP, wP	4·5	11·9
18	29·864	45·6	29·6	16·0	37·4	− 4·6	33·2	27·3	10·1	17·9	5·2	67	83·4	16·1	40·5	0·000	mP : sP : mP, wP	4·2	12·0
19	29·681	52·6	26·1	26·5	38·8	− 3·1	34·2	28·1	10·7	20·8	2·6	65	107·0	14·0	40·7	0·000	wP : wP : sP, mP	9·1	12·0
20	29·606	43·8	32·5	11·3	36·4	− 5·5	33·2	28·5	7·9	12·3	2·4	73	96·9	18·7	40·5	0·000	wP	7·2	12·1
21	29·474	47·0	37·0	10·0	40·6	− 1·3	38·1	34·9	5·7	9·5	1·9	81	88·2	24·0	40·6	0·003	wP : wP, mP : wP	0·1	12·2
22	29·519	58·0	39·3	18·7	48·7	+ 6·7	45·9	42·9	5·8	15·2	1·5	81	105·8	27·7	40·7	0·006	wP : mP, wP	2·6	12·2
23	29·141	58·7	46·9	11·8	50·8	+ 8·6	49·2	47·5	3·3	7·9	1·4	89	98·0	41·4	41·1	0·198	wP : wP, mP : mP, wP	1·1	12·3
24	29·126	58·9	43·2	15·7	51·1	+ 8·7	48·7	46·2	4·9	11·3	1·1	84	96·5	30·9	41·0	0·017	wP : mP : mP	1·9	12·4
25	29·102	56·4	43·0	13·4	48·5	+ 5·8	47·3	46·0	2·5	6·7	1·1	92	85·1	30·6	41·2	0·215	mP, wP : mP : mP, v	0·0	12·4
26	29·194	46·7	38·4	8·3	41·5	− 1·5	40·9	40·3	1·2	2·9	1·1	95	53·3	37·9	41·5	0·025	v, wP : mP : mP	0·0	12·5
27	29·410	40·8	35·1	5·7	37·7	− 5·6	35·7	33·0	4·7	8·7	2·0	84	52·7	34·6	41·8	0·000	mP : sP : sP, mP	0·0	12·6
28	29·534	42·1	34·6	7·5	38·2	− 5·5	35·1	30·9	7·3	11·9	3·9	75	58·2	27·8	41·3	0·000	mP : mP, wP : wP, mP	0·0	12·6
29	29·700	45·9	32·7	13·2	37·8	− 6·3	33·8	28·3	9·5	15·8	5·5	69	98·9	25·1	42·0	0·000	wP, mP : mP, wP : wP	2·7	12·7
30	29·981	46·1	32·1	14·0	37·6	− 6·9	34·0	29·0	8·6	15·4	2·7	71	98·9	21·1	42·0	0·000	wP : wP : wP, mP	6·9	12·8
31	30·069	45·1	31·5	13·6	38·2	− 6·7	34·5	29·5	8·7	14·6	4·3	70	81·2	20·8	41·9	0·000	mP : sP : sP, mP	0·6	12·8
Means	29·709	49·5	32·6	16·9	39·8	− 2·1	36·6	32·3	7·4	14·7	2·3	75·1	89·4	22·6	40·8	Sum 0·679	...	4·7	11·8
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

*Rainfall (Column 16). The amounts entered on March 11 and 12 are derived from frost.

The mean reading of the *Barometer* for the month was 29^{in}·709, being 0^{in}·037 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·9 on March 24; the lowest in the month was 25°·1 on March 5 and 10; and the range was 33°·8.

The mean of all the highest daily readings in the month was 49°·5, being 0°·3 *lower* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 32°·6, being 2°·5 *lower* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 16°·9, being 2°·2 *greater* than the average for the 65 years, 1841–1905.

The mean for the month was 39°·8, being 2°·1 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Mar. 1	0·0	0·00	0·0	0·00	W	WNW : Calm	6·6	0·83	525	10, w : 2, cu, w	p.-cl, w : 10 : 10
2	4·0	0·37	3·3	0·30	SSW : SW : W	WSW : SW : SSW	3·2	0·16	297	10, sn.-sh : 10, sn.-sh : v.-cl, w	9, w : 9, r, sn : 1
3	4·3	0·40	3·8	0·35	Calm : WNW : W	WSW : SW	2·2	0·16	327	10, sn : 10, sn : 8, cu	p.-cl, cu : 9, r : 9
4	9·7	0·90	7·8	0·73	WSW : W	WSW : WNW	2·1	0·13	312	9 : 9 : p.-cl	p.-cl : 2 : 1, m
5	3·8	0·35	3·5	0·33	SW : SSW	SSW : SSE	1·8	0·05	198	0, ho.-fr : 1, ho.-fr : p.-cl, cu	6, cu : 1 : 6
6	0·0	0·00	0·0	0·00	Calm : NE	NE : E	0·7	0·02	170	10, r : 10 : 10	8 : 9 : 10
7	2·8	0·27	2·5	0·25	E : Calm	SE : ESE	0·3	0·01	147	10 : 10	3, ci.-s : 1 : 8
8	10·3	1·00	10·3	1·00	Calm	SSW : SSE	1·5	0·05	166	10, slt.-ho.-fr : 10 : 1	1 : 0, ho.-fr
9	10·3	1·00	10·3	1·00	S	SSE : Calm	0·8	0·04	177	0, ho.-fr : 1, ci.-cu	2, th.-cl : 1 : 0, ho.-fr
10	6·0	0·58	5·8	0·57	Calm	ESE	1·3	0·04	173	0, m, ho.-fr : 0, m, ho.-fr	0 : 0, ho.-fr
11	10·3	1·00	10·3	1·00	Calm	ESE	1·1	0·05	175	f, ho.-fr : f, ho.-fr : 0, m	0 : 0, ho.-fr
12	10·3	1·00	10·3	1·00	ESE	ESE	3·3	0·10	218	0, ho.-fr : 0	0 : 0
13	10·3	1·00	10·3	1·00	ESE	E	2·2	0·18	316	0, ho.-fr : 0	0 : 0, d
14	8·7	0·85	8·3	0·81	E	E	1·4	0·09	233	0, ho.-fr : 0, ho.-fr : 1	3, ci.-s : 3, lu.-ha : 1, ho.-fr
15	0·0	0·00	0·0	0·00	Calm	Calm : WSW	0·1	0·00	109	0,h,lu.-ha,ho.-fr : 1, h, m, ho.-fr : p.-cl, p.-so.-ha	10, m : p.-cl, m : 10
16	9·5	0·98	9·5	0·98	WSW	NNE : NE	1·9	0·10	256	10 : 9, s, m, h	10 : 9 : 1, ho.-fr
17	1·5	0·15	1·0	0·10	NNE	N : Calm	0·3	0·01	166	1, ho.-fr : 1, ho.-fr : 7, th.-cl, so.-ha	8 : 8 : 9
18	6·0	0·62	5·5	0·56	Calm	Calm : SW	0·2	0·01	119	9, ho.-fr : 2, h	3, h : 10, th.-cl : 10, th.-cl
19	9·3	0·95	8·6	0·88	Calm : WSW	WSW : Calm : E	1·0	0·03	170	5,th.-cl,h,ho.-fr : 0, h : 0	1, h, m : 0, m, ho.-fr
20	3·4	0·35	2·8	0·29	E	E	4·7	0·54	417	0 : 9 : 6,ci.-cu,w	7, th.-cl : 7 : 6
21	3·2	0·32	1·6	0·16	E	Calm : WSW	3·3	0·07	225	10, m.-r.-sh : 10	10, m : 10, m : v.-cl, m, sh
22	1·3	0·14	1·0	0·10	SSW	SW : SSW	3·8	0·14	295	10, sh : 10, slt.-shs	p.-cl, cu : p.-cl : 9
23	1·0	0·11	0·8	0·08	SSE : SSW	SW	5·6	0·35	368	10, r : 10, r	9, w : 10, fq.-r
24	5·3	0·56	5·0	0·52	SW : WSW	WSW : SW	3·6	0·33	396	10 : 10, r : 10, fq.-slt.-r	9 : 7 : p.-cl, th. cl
25	0·0	0·00	0·0	0·00	Calm : NE	Calm : ENE	0·3	0·00	138	10 : 10, r, m.-r	10, r : 10 : 10
26	0·0	0·00	0·0	0·00	E	E : ENE	1·8	0·16	313	10, sh : 10, m : 10	10 : 10 : 10, m.-r
27	0·0	0·00	0·0	0·00	ENE	ENE	2·5	0·30	417	10 : 10	10 : 10 : 10, oc.-m.-r
28	2·9	0·31	2·0	0·22	ENE : E	E : ENE	6·2	0·57	460	10 : 10, w	10, w : 7 : 9
29	8·7	0·96	8·1	0·90	NE	E : NE	5·0	0·49	469	10 : 2 : 10, n, w	8, w : p.-cl, w : 1
30	6·1	0·68	6·0	0·67	NE : ENE	NE : ENE	6·0	0·45	428	1, ho.-fr : 1, ho.-fr : 9	9, s.-cu : 0, ho.-fr
31	3·1	0·35	3·1	0·34	NE	NE	2·2	0·14	304	10 : 10, n	9, cu : 9
Means	..	..	..	..	..	..	..	0·18	274		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 36°·6, being 2°·8 *lower* than
The mean *Temperature of the Dew Point* for the month was 32°·3, being 4°·0 *lower* than
The mean *Degree of Humidity* for the month was 75·1, being 5·4 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·183, being 0in·031 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·1, being 0grs·4 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 553 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 5·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·401. The maximum daily amount of *Sunshine* was 10·1 hours on March 9.

The highest reading of the *Solar Radiation Thermometer* was 107°·0 on March 19; and the lowest reading of the *Terrestrial Radiation Thermometer* was 10°·0 on March 10.

The *Proportions of Wind* referred to the cardinal points were N. 3, E. 11, S. 6, W. 6. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 6·6 lbs. on the square foot on March 1. The mean daily *Horizontal Movement of the Air* for the month was 274 miles; the greatest daily value was 525 miles on March 1; and the least daily value was 109 miles on March 15.

Rain (0in·005 or over) fell on 8 days in the month, amounting to 0in·679 as measured by gauge No. 6 partly sunk below the ground; being 0in·841 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY 1924.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Apr. 1	30·014	48·0	33·2	14·8	39·3	− 6·0	35·7	30·9	8·4	17·4	1·8	73	94·0	23·8	41·9	0·019	mP : sP : sP, mP	2·5	12·9
2	30·003	45·0	31·0	14·0	37·0	− 8·7	33·7	29·0	8·0	14·5	1·7	73	90·0	22·0	41·9	0·000	mP : sP, mP	3·0	13·0
3	29·959	45·6	33·0	12·6	37·5	− 8·5	33·1	27·0	10·5	17·7	4·2	66	105·0	22·3	41·9	0·000	wP, mP : sP : sP, mP	2·5	13·0
4	29·987	44·2	35·0	9·2	38·5	− 7·7	36·3	33·3	5·2	8·5	1·7	82	59·2	31·2	41·5	0·010	wP : mP, wP : wP, mP	0·0	13·1
5	30·023	53·6	34·6	19·0	41·2	− 5·1	37·2	32·2	9·0	20·2	1·0	70	108·8	25·7	41·8	0·000	wP : mP, wP : wP	8·5	13·1
6	29·923	49·4	31·8	17·6	38·9	− 7·4	36·9	34·2	4·7	10·6	0·0	85	100·5	17·0	41·7	0·000	wP	4·4	13·2
7	29·760	59·8	35·9	23·9	47·2	+ 0·9	42·0	36·2	11·0	19·7	2·2	66	107·7	22·4	41·9	0·000	wP : mP, sP : mP	6·2	13·3
8	29·497	56·0	38·0	18·0	46·8	+ 0·7	42·0	36·6	10·2	17·6	3·7	68	105·0	26·0	41·9	0·000	wP, mP : sP	1·0	13·3
9	29·380	47·8	33·0	14·8	38·4	− 7·6	36·0	32·8	5·6	12·4	0·8	81	81·4	20·0	41·9	0·138	mP, vv : sP, v : v, mP	1·7	13·4
10	29·347	44·8	27·6	17·2	36·1	− 9·8	34·9	33·1	3·0	9·2	0·0	89	90·5	14·0	42·0	0·149	mP : v : v, mP	0·4	13·5
11	29·466	42·1	32·5	9·6	36·7	− 9·1	36·0	35·0	1·7	4·6	0·0	94	57·0	25·8	42·0	0·149	mP : wP, mP : mP, sP	0·0	13·5
12	29·221	47·8	32·5	15·3	38·6	− 7·3	37·1	35·1	3·5	7·0	1·3	88	93·7	25·8	42·0	0·321	wP : vv, mP	1·5	13·6
13	29·477	53·3	33·6	19·7	41·5	− 4·6	38·9	35·7	5·8	17·2	0·9	81	98·9	28·0	42·0	0·192	mP : wP, vN	4·0	13·7
14	29·318	58·0	42·9	15·1	49·6	+ 3·2	47·1	44·4	5·2	13·2	0·6	83	99·9	36·1	42·1	0·150	wP : wP : mP	3·1	13·7
15	29·524	52·9	36·5	16·4	44·2	− 2·6	40·8	36·8	7·4	19·9	0·7	75	87·2	25·9	42·1	0·139	wP, mP : mP, sP : mP	1·5	13·8
16	29·815	55·0	31·1	23·9	43·4	− 3·8	38·8	33·3	10·1	18·0	0·2	67	94·9	24·0	42·3	0·001*	mP, sP : sP	3·1	13·8
17	30·075	55·5	35·9	19·6	46·0	− 1·6	40·2	33·6	12·4	20·6	3·4	62	100·0	25·9	42·6	0·000	. . : mP, sP : mP, wP	9·2	13·9
18	30·262	62·0	35·1	26·9	49·5	+ 1·5	43·1	36·3	13·2	20·6	2·0	60	114·5	21·1	42·7	0·000	wP : wP : wP, mP	10·8	14·0
19	30·325	67·0	44·9	22·1	55·2	+ 6·9	47·1	39·3	15·9	22·3	9·0	56	112·0	35·8	42·9	0·000	wP : mP : mP	6·3	14·1
20	30·291	69·6	47·7	21·9	57·2	+ 8·7	49·5	42·5	14·7	24·5	7·4	58	104·0	38·0	43·0	0·000	wP, mP : mP, wP : wP	2·6	14·1
21	30·080	75·6	46·0	29·6	58·8	+10·1	52·7	47·4	11·4	19·5	4·7	66	130·2	38·4	43·3	0·000	wP, mP : mP, wP	11·3	14·2
22	29·758	63·6	44·3	19·3	51·3	+ 2·6	47·5	43·6	7·7	13·9	3·3	76	117·1	40·8	43·8	0·000	wP : mP : mP, wP	1·1	14·2
23	29·622	51·3	40·6	10·7	44·9	− 3·7	42·6	39·9	5·0	9·2	2·3	83	89·3	39·7	44·0	0·003	wP : wP : wP, v	0·0	14·3
24	29·583	61·5	42·9	18·6	52·3	+ 3·7	48·7	45·0	7·3	13·6	1·7	77	105·9	35·0	44·3	0·028	wP : mP : mP	0·5	14·3
25	29·554	64·1	50·5	13·6	55·2	+ 6·6	51·8	48·6	6·6	14·1	2·2	79	110·4	39·8	44·8	0·022	wP : wN, wP : mP, wP	4·0	14·4
26	29·342	57·6	47·2	10·4	51·3	+ 2·7	49·5	47·7	3·6	8·9	2·1	88	83·0	38·0	44·8	0·349	wP : v, wP : mP, vN	1·7	14·5
27	29·350	55·0	44·2	10·8	48·3	− 0·4	45·4	42·2	6·1	14·0	1·9	80	102·1	37·0	45·0	0·282	wP : wP, vN : wP, vN	3·2	14·5
28	29·344	59·2	44·5	14·7	51·0	+ 2·2	47·3	43·4	7·6	12·2	2·4	76	111·9	37·5	45·2	0·156	wP, v : mP, wP : mP, wP	3·4	14·6
29	29·373	60·8	46·2	14·6	51·2	+ 2·2	47·3	43·3	7·9	17·9	1·1	75	116·2	42·2	45·4	0·202	wP, mP : sP, mP : v, mP	2·6	14·6
30	29·324	56·5	48·7	7·8	50·6	+ 1·5	49·0	47·3	3·3	6·4	1·2	89	99·0	47·4	45·5	0·703	wP, mP : mP, vv : v, mP	0·8	14·7
Means	29·700	55·4	38·7	16·7	45·9	− 1·4	42·3	38·2	7·7	14·8	2·2	75·5	99·0	30·2	42·9	Sum 3·013	..	3·4	13·8
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

* Rainfall (Column 16). The aomunt entered on April 16 is derived from frost.

The mean reading of the *Barometer* for the month was 29^{in}·700, being 0^{in}·048 *lower* than the average for the 65 years, 1841–1905.

Temperature of the Air.

The highest in the month was 75°·6 on April 21; the lowest in the month was 27°·6 on April 10; and the range was 48°·0.

The mean of all the highest daily readings in the month was 55°·4, being 1°·8 *lower* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 38°·7, being 0°·3 *lower* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 16°·7, being 1°·5 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 45°·9, being 1°·4 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	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.		
Apr. 1	9·0	1·00	9·0	1·00	NNE	NE	4·5	0·32	390	10, shs, slt.-sn,-sl : 10, r, hl	8, cu, w : 0, w
2	0·3	0·04	0·3	0·04	NE	NE	5·5	0·54	544	0, w : 7, w : 9, slt.-sn, w	9, oc.-slt.-sn, w : 9, w : 10, w
3	0·0	0·00	0·0	0·00	NE : ENE	ENE : NE	5·2	0·42	487	10 : 1 : 9, w	10, w : 10
4	1·3	0·15	0·6	0·05	NE	E : NE	1·8	0·16	323	10, sh : 10 : 10, m.-r	10, slt.-r : 10 : 9
5	6·1	0·71	5·9	0·70	NE : E	ENE : ESE	1·7	0·10	273	10 : 10 : p.-cl	1 : 1 : 0, ho.-fr
6	2·6	0·30	2·5	0·29	Calm : NE	Calm	0·4	0·00	135	7, ho.-fr : 10, f, m : 10, m	3 : 0 : p.-cl
7	6·8	0·80	6·7	0·79	Calm : WSW	WNW : W	1·2	0·06	267	10 : 10 : 0, m, h	3, th.-cl : p.-cl, th.-cl : 0
8	4·9	0·58	4·8	0·56	W : WNW	NW : WNW	1·4	0·09	291	9 : 9	9 : 9 : 3
9	7·8	0·92	7·3	0·85	Calm	NW : W : WSW	1·6	0·08	232	10, r, sn : 8, slt.-sl	8 : p.-cl : 1, ho.-fr
10	0·6	0·07	0·0	0·00	SW : SSE	SSE : Calm	1·0	0·02	143	0, ho.-fr : 7 : 10, r, sl	10, r, t, hl : 10 : 10, t
11	3·2	0·37	0·0	0·00	Calm : NE	Calm	0·1	0·00	136	10, slt.-m.-r : 10, r, sn	10, r, m.-r : 10, m.-r : p.-cl
12	6·5	0·81	5·2	0·65	W	WNW : NW	2·8	0·20	393	10, r, sn : 10, fq.-slt.-r : 10, fq.-r	10, shs, t : 10, shs : p.-cl
13	0·0	0·00	0·0	0·00	NW : WNW	W : WSW : SSW	2·9	0·16	333	p.-cl, slt.-ho.-fr : 0, h : 3, ci.-cu, h	9, th.-cl, h, so.-ha : 10, r : 10, r
14	1·0	0·12	0·6	0·07	WSW	WSW : W : NW	8·0	0·99	500	10, r : 10, r, w : 10, m.-r, w	8, ci.-s, w : p.-cl, w : 9
15	7·9	0·99	7·9	0·99	Calm : ENE	NE : Calm	0·9	0·05	207	10, r : 10, r	9, cu.-s : 8 : 0
16	4·0	0·50	3·8	0·47	Calm : N	NNW : Calm	1·4	0·05	187	p.-cl, ho.-fr : 8, th.-cl, h, so.-ha	7, cu : 7, ci.-cu : 8, th.-cl
17	8·0	1·00	8·0	1·00	Calm	Calm : SSW	0·2	0·02	139	9 : 2 : 1, h	1, h : 1
18	5·2	0·65	3·8	0·47	SSW : SW	W	2·2	0·17	308	0, slt.-ho.-fr : 1	2 : p.-cl : 10, th.-cl, lu.-ha
19	3·9	0·52	2·5	0·33	W : WNW	WNW : W	2·0	0·20	363	8, lu.-ha : p.-cl : 7, h, th.-cl	10, th.-cl, fq.-so.-ha : p.-cl, th.-cl, d
20	5·0	0·67	4·4	0·59	WSW : WNW	N : NNW	0·7	0·01	179	10 : 10 : 7, ci.-cu, m, h	9, h : 1
21	0·4	0·06	0·0	0·00	NNW : W	N : E	1·3	0·09	227	p.-cl : 1 : p.-cl, th.-cl	7 : v.-cl : 10
22	0·0	0·00	0·0	0·00	Calm : NW	NW : NNE : ENE	1·7	0·06	191	10 : 9, cu.-s, ci	10 : 10
23	0·5	0·07	0·0	0·00	ESE	ESE : Calm	0·7	0·07	222	10 : 10, s, n	10 : 10 : 10, slt.-r
24	0·2	0·03	0·2	0·03	Calm : WSW	WSW	1·9	0·23	320	10 : 10	10 : 9, th.-cl : 10, r, m.-r
25	4·7	0·62	4·3	0·58	SW	WSW : SW : SSW	5·0	0·39	351	10, m.-r : 10 : 10, slt.-r, w	8, cu.-n, w : 8 : p.-cl
26	0·0	0·00	0·0	0·00	SSW : SSE	SW	6·0	0·23	328	p.-cl : 10, slt.-r, r	10, hy.-r, t, l : p.-cl : 10, r
27	4·4	0·63	4·3	0·61	WSW : SSW	SSW : SW : WSW	16·1	1·16	601	10, sh : 8 : 10, r	10, r, w : 10, r, w : 1, w
28	3·1	0·44	2·6	0·37	SW : W	WSW	4·8	0·81	537	10, r, w : 10, r : 9, w	9, oc.-slt.-shs, w : 9, sh, w : 7, w
29	0·5	0·07	0·2	0·03	WSW : WNW	WSW	2·1	0·19	309	9, r, w : 9 : 7, cu.-s, cu	9 : 10, r : 10, r, m.-r
30	0·0	0·00	0·0	0·00	W : WSW	WSW : NW : N	3·6	0·27	393	10 : 9 : 10, r	10, r : 10, r
Means	..	..	..	..	..	..	..	0·24	310		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 42°·3, being 1°·6 *lower* than
The mean *Temperature of the Dew Point* for the month was 38°·2, being 1°·9 *lower* than
The mean *Degree of Humidity* for the month was 75·5, being 0·3 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·231, being 0in·017 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·7, being 0grs·2 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 544 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 7·2.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·244. The maximum daily amount of *Sunshine* was 11·3 hours on April 21.

The highest reading of the *Solar Radiation Thermometer* was 130°·2 on April 21; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·0 on April 10.

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

The *Greatest Pressure of the Wind* in the month was 16·1 lbs. on the square foot on April 27. The mean daily *Horizontal Movement of the Air* for the month was 310 miles; the greatest daily value was 601 miles on April 27; and the least daily value was 135 miles on April 6.

Rain (0in·005 or over) fell on 16 days in the month, amounting to 3in·013 as measured by gauge No. 6 partly sunk below the ground; being 1in·447 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
May 1	29·590	57·7	44·7	13·0	49·2	− 0·1	47·5	45·6	3·6	6·6	1·3	88	84·0	35·6	45·9	0·065	wP : vP, sP	0·0	14·8
2	29·524	64·6	42·1	22·5	51·4	+ 1·9	47·7	43·9	7·5	19·2	0·9	76	126·1	32·5	46·0	0·010	mP, wP : mP : mP	6·2	14·8
3	29·476	62·3	46·0	16·3	52·2	+ 2·4	48·2	44·1	8·1	13·7	2·5	74	111·6	39·9	46·2	0·116	wP, mP : mP : mP, v	2·6	14·9
4	29·747	57·8	41·9	15·9	48·2	− 1·8	44·5	40·5	7·7	16·5	1·9	75	114·8	33·6	46·3	0·018	mP	7·2	15·0
5	29·732	56·0	36·1	19·9	46·1	− 4·2	41·1	35·4	10·7	18·0	3·0	67	116·9	29·0	46·5	0·000	mP : mP, sP : sP, mP	11·2	15·0
6	29·692	59·0	36·8	22·2	47·9	− 2·6	43·5	38·7	9·2	17·8	2·8	71	122·0	27·4	46·8	0·000	wP, mP : mP : sP, mP	5·7	15·1
7	29·472	60·1	40·4	19·7	48·8	− 1·9	43·9	38·6	10·2	17·3	4·9	68	128·5	28·6	46·8	0·000	wP, mP : mP : vP, mP	5·9	15·1
8	29·590	56·9	39·2	17·7	46·4	− 4·6	42·3	37·7	8·7	16·3	4·6	72	116·9	31·1	46·9	0·051	wP, mP : mP, v	4·7	15·2
9	29·940	63·5	41·1	22·4	50·9	− 0·3	45·1	39·1	11·8	22·4	5·2	64	126·2	31·5	47·0	0·000	mP, sP : sP, mP : mP, wP	9·0	15·2
10	29·861	62·0	48·2	13·8	52·0	+ 0·5	50·5	49·0	3·0	10·6	0·8	89	132·9	41·8	47·0	0·273	wP : wP : wP, vN	1·0	15·3
11	29·709	64·6	48·0	16·6	52·6	+ 0·8	49·1	45·6	7·0	16·1	1·7	78	125·3	45·6	47·0	0·087	wP	5·3	15·3
12	29·720	63·8	48·3	15·5	53·5	+ 1·4	51·0	48·5	5·0	12·0	0·4	83	111·2	47·6	47·2	0·056	wP : sP, mP : mP, wP	0·6	15·4
13	29·843	63·7	49·0	14·7	55·9	+ 3·5	53·8	51·9	4·0	9·2	0·4	87	105·8	36·3	47·5	0·000	wP : mP	1·7	15·4
14	29·854	76·3	49·4	26·9	61·1	+ 8·5	57·6	54·6	6·5	19·5	0·8	80	131·0	37·0	47·9	0·306	wP, v : wP : v, mP	8·4	15·5
15	29·920	73·8	48·3	25·5	58·9	+ 6·1	52·6	47·0	11·9	25·0	2·6	65	134·0	38·0	48·1	0·000	wP : sP, wP : mP	6·2	15·5
16	29·991	65·1	46·4	18·7	55·1	+ 2·1	48·7	42·6	12·5	19·5	2·3	63	134·2	35·9	48·4	0·000	wP : mP : mP	10·6	15·6
17	30·069	67·4	38·7	28·7	54·9	+ 1·8	48·1	41·6	13·3	22·7	1·1	61	135·2	28·0	48·8	0·000	wP	11·8	15·6
18	29·765	68·9	51·3	17·6	57·4	+ 4·1	53·2	49·4	8·0	17·0	2·9	74	130·0	48·0	49·0	0·146	vN, wP : wP, v : v, wP	3·4	15·7
19	29·572	79·3	54·3	25·0	63·8	+10·3	59·7	56·3	7·5	17·7	0·4	77	134·0	43·7	49·3	0·245	v, sN : mP, wP : mP, wwP	7·9	15·7
20	29·631	69·3	52·1	17·2	60·0	+ 6·2	57·4	55·1	4·9	12·9	0·0	84	122·2	39·3	49·6	0·032	wwP : wP : v, wP	5·3	15·8
21	29·660	75·4	50·9	24·5	63·8	+ 9·6	58·6	54·2	9·6	19·5	0·8	72	135·5	40·3	49·9	0·004	wP, mP : wP : wP	5·6	15·8
22	29·732	67·8	53·6	14·2	60·2	+ 5·6	56·7	53·7	6·5	12·9	1·7	79	118·4	47·5	50·1	0·005	wP : wP : wwP	1·4	15·9
23	29·681	64·1	49·0	15·1	55·9	+ 1·0	52·0	48·3	7·6	13·2	2·4	77	130·1	45·1	50·4	0·101	wwP, wP : wP, wwP : wwP	5·0	15·9
24	29·373	58·8	47·0	11·8	51·2	− 4·1	48·8	46·3	4·9	11·5	1·3	84	115·3	42·1	50·7	0·180	wP : v, wP : wP	3·6	15·9
25	29·411	63·3	48·2	15·1	54·1	− 1·4	50·5	47·0	7·1	14·5	3·3	76	126·1	38·5	51·0	0·145	wwP : vN, wP : v, mP	6·5	16·0
26	29·675	67·2	44·7	22·5	55·4	− 0·4	50·0	44·9	10·5	19·0	1·5	68	130·0	34·8	51·0	0·000	wP, mP : mP : mP, wP	10·0	16·0
27	29·908	68·8	45·2	23·6	56·1	+ 0·1	51·5	47·2	8·9	16·1	0·4	72	138·2	32·5	51·1	0·000	wP	11·2	16·1
28	29·906	72·1	42·8	29·3	58·4	+ 2·2	51·7	45·7	12·7	21·0	0·0	63	149·6	30·3	51·2	0·000	wP, mP : wP : wP	13·9	16·1
29	29·653	73·7	50·7	23·0	60·8	+ 4·4	56·3	52·4	8·4	15·6	1·4	74	143·6	39·1	51·4	0·247	wP : wP : wP, vv	8·8	16·1
30	29·709	75·1	53·5	21·6	62·2	+ 5·5	57·8	54·1	8·1	16·3	1·0	75	139·6	47·0	51·6	0·000	wP : mP, wP : mP, wP	10·1	16·2
31	29·668	70·2	56·4	13·8	62·2	+ 5·1	59·4	57·0	5·2	10·3	0·6	83	122·8	47·2	51·8	0·233	v, wP : v, wP : wP, vv	1·1	16·2
Means	29·712	66·1	46·6	19·5	55·1	+ 2·0	50·9	47·0	8·1	16·1	1·8	74·8	125·5	37·9	48·7	Sum 2·320	..	6·2	15·6
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

The mean reading of the *Barometer* for the month was 29^{in}·712, being 0^{in}·082 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 79°·3 on May 19; the lowest in the month was 36°·1 on May 5; and the range was 43°·2.

The mean of all the highest daily readings in the month was 66°·1, being 2°·2 *higher* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 46°·6, being 2°·9 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 19°·5, being 0°·7 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 55°·1, being 2°·0 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.		hours.				lbs.	lbs.	miles.		
May 1	6·3	0·91	5·2	0·75	N : Calm	Calm : WSW	1·3	0·02	116	10 : 10, oc.-m.-r : 10, r	10,oc.-r,glm : 10 : 3
2	1·3	0·18	0·8	0·12	WSW : SW	WSW	3·0	0·17	299	p.-cl : 8, oc.-r : 8	8 : 8 : 10
3	0·0	0·00	0·0	0·00	WSW:WNW:NW	NW : W : N	2·1	0·09	258	10, sh : 9	9 : 10, t : 10, r
4	5·5	0·85	5·4	0·83	NNW : WNW	WSW : SW	1·2	0·05	226	10 : 2 : p.-cl, slt.-sh	9, oc.-slt.-r : 10, sh : p.-cl, oc.-r
5	6·0	0·92	5·9	0·91	W : WSW : WNW	WNW : W	8·4	0·37	441	0 : 1 : 6	v.-cl, slt.-sh, p.-so.-ha, w : 0
6	0·8	0·12	0·7	0·11	W : WSW	SW : Calm	2·4	0·12	246	2 : 7, th.-cl : 9, cu.-s	9, oc.-p.-so.-ha : 10
7	6·3	0·97	6·3	0·97	Calm : W	WSW	3·1	0·21	329	7 : 6 : 10	9, slt.-sh : v.-cl : 3
8	2·6	0·41	2·5	0·38	WSW	WSW : WNW	4·2	0·62	459	0 : 8, sh, w : 9, slt.-r, w	9, r, w : 9
9	2·0	0·30	1·0	0·16	WNW : NW	WSW : SW	1·3	0·20	310	7 : 1 : 1	5 : 8 : 7
10	0·0	0·00	0·0	0·00	SSW : SW	SW	3·6	0·25	336	10, oc.-m.-r, sh : 9, oc.-m.-r	10, oc.-r, r : 10, r
11	0·0	0·00	0·0	0·00	WSW	SW : SSE	2·5	0·31	334	10, r : 10 : 6	9 : 10 : 10, fq.-r
12	0·0	0·00	0·0	0·00	SSE : SW : NNW	SW : SSW	1·0	0·06	208	10, oc.-slt.-r : 9, n	10 : 10, r, m.-r
13	2·5	0·41	1·2	0·21	SSW	SSW	3·5	0·23	281	10, oc.-m.-r : 10, oc.-slt.-r	10 : 9 : 7, lu.-ha
14	3·5	0·58	1·7	0·28	Calm : SW	SW : WSW	2·0	0·08	219	10, t.-sm, r : 3	8, sh : 7, th.-cl, lu.-ha, l
15	2·8	0·46	2·5	0·42	WSW : Calm	WSW : NW : W	0·5	0·02	163	5 : 9 : 8, cu.-s	7, cu.-s : 8 : 8
16	6·0	1·00	6·0	1·00	W : WNW	W : NW	2·6	0·22	337	3 : 5 : 4, cu	4, cu : 1
17	0·3	0·05	0·0	0·00	Calm	E	1·5	0·10	176	0 : 1 : 4, p.-so.-ha	p.-cl : 10
18	1·3	0·23	0·9	0·17	E : ENE	ENE	2·9	0·17	258	10, slt.-r : 10, s : 7	6, r, t.-sm : 10 : 6, l, sh
19	5·5	1·00	5·5	1·00	Calm : SSW	SSW : Calm	0·9	0·06	157	10, t.-sm, r : p.-cl : 10	10 : 8, th.-cl : 3, h, d
20	5·5	1·00	5·5	1·00	Calm : ENE	E : SE : SSE	2·0	0·13	185	0 : 9, d, m : 10, th.-cl, m	9, so.-ha, th.-cl : 9, so.-ha, r : 2
21	1·6	0·28	1·5	0·27	SSE	S : SSW	1·4	0·11	200	0 : 5, th.-cl : 4	10, slt.-sh : 10 : 10, slt.-r, l
22	2·5	0·45	2·2	0·40	SSW : SW	SW	3·3	0·27	297	10,m.-r.-sh : 10, sh : 10, so.-ha	10 : 9, slt.-sh
23	1·1	0·20	0·3	0·05	SW	SW : SSW	5·9	0·47	380	v.-cl : 7	10, oc.-shs, w : 10, sh, r
24	1·1	0·22	0·7	0·14	SW : SSE	SW : WSW	6·7	0·35	345	8 : 10 : 9, r, w, sh	10, r, w : 7, cu : 10, slt.-r, sh
25	4·3	0·87	3·8	0·75	SW	WSW : SW	3·6	0·28	326	10 : 8 : 9, r, t	v.-cl.-r,slt.-r : v.-cl, oc.-slt.-r : 3, slt.-r
26	4·5	0·91	4·2	0·84	SW : WSW	WSW : SW	1·0	0·06	238	0 : 0 : 7	8 : v.-cl : 1
27	5·0	1·00	5·0	1·00	SW	SW : SSW	1·3	0·10	226	p.-cl, d : 1 : 7	8 : 1 : 0, d
28	5·0	0·99	4·9	0·98	Calm	E	1·7	0·06	126	0, d : 0 : 3	1, cu : 0 : 1, d
29	1·4	0·29	1·4	0·29	Calm : ENE	E : SW	3·5	0·12	225	v,-cl, d : p.-cl : p.-cl, cu.-s	8, cu.-s, n : 10, hy.-r, t.-sm : 9, r, l, t
30	2·0	0·40	1·3	0·25	SW : WSW	WSW : Calm	1·3	0·18	268	10 : 9 : 8, ci, cu	7, cu : 8 : 3
31	0·0	0·00	0·0	0·00	Calm : ESE	ESE : Calm	1·0	0·05	162	10, t, l, r : 10 : 9, t, r	10, r : 10, r, oc.-t : 10, r
Means	..	..	..	..	..	..	..	0·18	262		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 50°·9, being 1°·9 *higher* than
The mean *Temperature of the Dew Point* for the month was 47°·0, being 2°·0 *higher* than
The mean *Degree of Humidity* for the month was 74·8, being 0·6 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·323, being 0in·024 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·7, being 0grs·3 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 536 grains, being 2 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·398. The maximum daily amount of *Sunshine* was 13·9 hours on May 28.

The highest reading of the *Solar Radiation Thermometer* was 149°·6 on May 28; and the lowest reading of the *Terrestrial Radiation Thermometer* was 27°·4 on May 6.

The *Proportions of Wind* referred to the cardinal points were N. 2, E. 3, S. 9, W. 12. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 8·4 lbs. on the square foot on May 5. The mean daily *Horizontal Movement of the Air* for the month was 262 miles; the greatest daily value was 459 miles on May 8; and the least daily value was 116 miles on May 1.

Rain (0in·005 or over) fell on 18 days in the month, amounting to 2in·320 as measured by gauge No. 6 partly sunk below the ground; being 0in·405 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
June 1	29·633	67·1	49·5	17·6	57·3	− 0·1	54·1	51·2	6·1	13·8	0·9	80	128·7	48·4	52·0	0·548	v, wwP : wP, v : wP, wwN	7·2	16·2
2	29·860	62·3	46·3	16·0	52·3	− 5·5	50·3	48·3	4·0	10·0	1·0	86	108·3	42·2	52·1	0·337	wP, v : mP, vN : v, wP	1·9	16·3
3	29·945	64·5	43·7	20·8	53·1	− 5·0	49·2	45·3	7·8	16·9	1·2	75	126·0	35·9	52·4	0·018	wwP, wP : wP : wP, wwP	6·3	16·3
4	29·773	61·2	51·3	9·9	53·8	− 4·5	52·1	50·4	3·4	9·1	1·0	88	98·5	49·2	52·6	0·490	wwP	0·1	16·3
5	29·857	63·0	44·4	18·6	53·7	− 4·7	50·4	47·2	6·5	12·3	1·2	78	127·5	34·0	52·7	0·008	wwP : wwP, wP : wP, wwP	6·1	16·4
6	29·977	69·8	41·6	28·2	56·4	− 1·9	51·2	46·4	10·0	17·8	1·5	69	132·1	31·4	52·9	0·000	wwP, wP : wP, wwP	5·9	16·4
7	29·870	74·7	53·2	21·5	62·0	+ 3·8	57·7	54·0	8·0	15·1	1·6	76	140·9	49·0	53·0	0·367	wwP : wP : wP, v	1·5	16·4
8	29·766	67·5	53·4	14·1	58·4	+ 0·3	54·2	50·4	8·0	16·0	0·8	75	131·4	46·8	53·0	0·118	wwP : wP, v : wP	6·8	16·4
9	29·829	67·3	52·6	14·7	58·3	+ 0·3	53·9	50·0	8·3	14·4	4·5	74	112·7	46·3	53·1	0·007	wwP, wP : wP, wwP	1·5	16·4
10	29·773	68·6	52·4	16·2	58·8	+ 0·7	54·3	50·3	8·5	15·7	1·0	74	133·1	46·9	53·6	0·038	wwP, wP : wP, wwP	4·3	16·5
11	29·440	65·7	53·6	12·1	57·1	− 1·1	54·1	51·3	5·8	13·5	2·4	81	117·8	48·8	53·5	0·096	wwP : wP : mP, wwP	4·3	16·5
12	29·335	67·3	51·9	15·4	56·8	− 1·6	54·7	52·8	4·0	9·3	0·8	86	144·6	46·2	53·7	0·324	wwP : vv, vP : vv, wP	2·8	16·5
13	29·814	56·8	45·9	10·9	51·7	− 6·8	49·0	46·3	5·4	12·5	1·8	82	96·2	41·9	53·6	0·007	wwP : wwP, mP : mP, wP	2·4	16·5
14	30·101	60·2	44·7	15·5	49·8	− 8·9	45·6	41·2	8·6	14·1	2·1	73	124·7	32·7	53·8	0·000	wP, mP : mP : wP, wwP	6·1	16·5
15	30·014	73·6	43·0	30·6	58·2	− 0·6	53·3	48·9	9·3	22·6	0·4	71	139·6	30·1	53·9	0·000	wwP : wP : wP	10·9	16·5
16	29·857	74·3	50·0	24·3	63·2	+ 4·3	57·0	51·8	11·4	21·9	0·8	66	145·8	38·5	54·0	0·000	wP	10·8	16·5
17	29·639	76·9	53·7	23·2	65·6	+ 6·6	60·0	55·4	10·2	19·2	1·8	70	134·9	49·0	54·0	0·000	wP	4·9	16·6
18	29·699	74·2	53·4	20·8	64·1	+ 4·9	57·7	52·4	11·7	20·0	2·7	65	132·7	38·6	54·0	0·087	wP : wP : wP, wN	8·3	16·6
19	29·735	73·5	50·6	22·9	61·6	+ 2·1	56·1	51·4	10·2	20·2	0·8	69	135·8	35·2	54·2	0·000	wwP, wP : wP, wwP	12·7	16·6
20	29·854	71·9	51·1	20·8	58·6	− 1·3	54·2	50·2	8·4	17·5	1·0	74	120·8	36·3	54·5	0·232	wwP : mP : v, wwP	1·0	16·6
21	29·928	73·8	46·6	27·2	60·4	+ 0·1	53·5	47·5	12·9	22·7	1·4	62	135·2	32·3	54·9	0·000	wwP, mP : mP, wP : wP	12·7	16·6
22	29·981	71·0	50·3	20·7	60·2	− 0·4	54·7	49·9	10·3	20·4	0·8	69	123·6	37·8	55·0	0·000	wP	6·2	16·6
23	30·044	77·5	47·2	30·3	62·0	+ 1·1	55·7	50·3	11·7	20·8	0·0	66	130·4	35·0	55·0	0·000	wP, mP : mP, wP : wP	8·9	16·6
24	30·046	78·8	51·0	27·8	65·5	+ 4·3	59·6	54·8	10·7	19·5	2·6	69	133·0	38·4	55·0	0·000	wwP, wP : wP : wP	9·1	16·6
25	30·111	80·6	58·9	21·7	68·4	+ 7·0	62·6	58·1	10·3	19·1	2·4	69	140·5	48·7	55·1	0·000	wwP : wP : wP	11·4	16·5
26	30·042	81·7	57·4	24·3	68·5	+ 7·0	62·2	57·3	11·2	21·1	0·8	67	148·6	45·4	55·4	0·000	wP	14·0	16·5
27	29·874	74·9	56·3	18·6	62·6	+ 1·0	57·4	53·0	9·6	16·0	1·5	71	142·3	47·1	55·5	0·063	wwP, v : wP : mP, wP	4·5	16·5
28	29·896	66·2	50·4	15·8	58·6	− 3·0	51·9	45·9	12·7	18·2	5·9	63	112·0	42·9	55·7	0·000	wwP, wP : wP	4·5	16·5
29	29·759	70·9	54·1	16·8	60·8	− 0·8	54·8	49·6	11·2	17·2	5·1	67	143·0	47·6	56·0	0·000	wwP	8·2	16·5
30	29·745	70·6	52·3	18·3	60·1	− 1·4	54·0	48·6	11·5	19·8	3·9	66	130·4	43·1	56·0	0·000	wwP, wP : wP : wP	5·6	16·5
Means	29·840	70·2	50·4	19·9	59·3	− 0·1	54·5	50·3	8·9	16·9	1·8	72·7	129·0	41·5	54·0	Sum 2·740	..	6·4	16·5
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk of the civil day named to dawn of the following day.

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

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

The mean reading of the *Barometer* for the month was 29^{in}·840, being 0^{in}·025 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 81°·7 on June 26; the lowest in the month was 41°·6 on June 6; and the range was 40°·1.

The mean of all the highest daily readings in the month was 70°·2, being 0°·5 *lower* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 50°·4, being 0°·5 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 19°·9, being 0°·9 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 59°·3, being 0°·1 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	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.		
June 1	0·0	0·00	0·0	0·00	SW	SW : WSW : Calm	5·1	0·84	455	10, hy.-r, r, w : 7, w : 9, sh, w	8, sh : 9 : 10, r
2	0·5	0·11	0·2	0·04	Calm	Calm : NNE	14·0	0·03	138	10, r : 10, r : 10, fq.-r	9, slt.-r : 10, r, t.-sm : 10, oc.-slt. r, m
3	0·0	0·00	0·0	0·00	Calm	WSW	1·0	0·03	159	10 : 10 : 7	9 : 10, r, oc.-m.-r
4	0·0	0·00	0·0	0·00	WSW	SSW : SSE : E	1·0	0·01	166	10 : 10 : 10, r	10, r : 10, r
5	3·6	0·75	3·0	0·64	ENE : NE	ESE : SSE	1·3	0·12	232	10, r : 10 : 9	9, cu, n : 3, th.-cl, p.-so.-ha : 1
6	0·0	0·00	0·0	0·00	Calm : SSW	SSW	1·2	0·06	148	v.-cl : 10 : 6, p.-so.-ha	8, ci.-s : 10, m.-r.-shs
7	0·0	0·00	0·0	0·00	Calm	SSW : SSE : SW	1·2	0·02	128	10, slt.-sh : 9 : 7, cu	8, slt.-sh : : 10, r
8	2·1	0·47	2·0	0·43	SW : W	W : WSW	5·7	0·45	422	10, fq.-r : 7	8, fq.-shs, sq, w : 5, sh : p.-cl
9	0·0	0·00	0·0	0·00	WSW : W	WSW : SW	2·1	0·22	314	10 : 9 : 8	10 : 10 : 9, r
10	0·0	0·00	0·0	0·00	SW	SW : SSW	2·8	0·30	336	10, r : 10 : 8,ci.-cu,so.-ha	9, sh, slt.-r : 10 : 10, shs
11	1·3	0·28	1·0	0·22	SSW	SSW : SW	3·5	0·40	352	10, slt.-shs : 10, fq.-r	10, fq.-r : 3 : 9, slt.-shs
12	0·0	0·00	0·0	0·00	SSW	Calm : N	1·0	0·05	174	9, r : 10, shs : 10, fq.-r, oc.-t	9, h, fq.-slt.-r, t: 10,fq.-r,oc.-t : 10, r
13	0·5	0·11	0·4	0·09	N	NNE	4·5	0·63	420	10, slt.-r : 10 : 10,s,n,oc.-slt.-r	10 : 10
14	4·3	0·96	3·9	0·87	N	Calm : SSE	1·5	0·08	215	10 : 10, cu.-s, ci	0, h : 0, h
15	4·0	0·88	3·9	0·86	Calm : WSW	WSW : W	0·7	0·03	192	6, th.-cl : 9 : 1, h	2, cu.-s : 2
16	0·8	0·18	0·4	0·09	Calm	SE : ESE	0·7	0·02	139	p.-cl : p.-cl, cu, h, so.-ha	7, fq.-so.-has : 7, th.-cl : 9, lu.-ha
17	2·5	0·56	2·3	0·51	E	E : SE : SW	1·4	0·08	214	v.-cl : 9, th.-cl : 10,ci.-s,fq.-so.-has	9, ci : 8, s, l
18	0·0	0·00	0·0	0·00	SSW	SSW	1·7	0·08	205	7, lu.-ha : 7 : 9, ci.-s	7, ci : 6 : 9, r
19	2·6	0·58	2·6	0·58	Calm : SW	SW : Calm	1·5	0·07	190	10 : 6 : 7, cu	p.-cl : p.-cl : 1
20	4·5	1·00	4·5	1·00	Calm	Calm : W	1·2	0·01	112	10, slt.-sh : 10, s	9, cu.-s, h : 9, r : 2
21	2·5	0·55	2·3	0·52	W : WSW	SW : Calm	1·5	0·03	194	1 : 1	p.-cl, cu : p.-cl : v.-cl, l
22	4·5	1·00	4·4	0·98	Calm : N	NNW : Calm	0·8	0·03	134	3, h : 9, h : 7, ci, cu, h	8, ci, cu : 8 : 1
23	4·5	1·00	4·5	1·00	Calm	SW : WSW	1·0	0·04	148	1 : 0 : p.-cl	7, h : 9 : 1
24	2·8	0·63	2·7	0·60	SW	WSW : WNW	1·3	0·07	212	1 : 1 : v.-cl, cu.-s	8, cu.-s, n : 7 : 1
25	4·5	1·00	4·5	1·00	SW : WSW	WSW : WNW : W	0·9	0·03	190	v.-cl : 2	7 : 1
26	2·4	0·53	2·4	0·53	WSW : SW	SSW : SW	1·3	0·09	216	1 : 1, cu	1 : 1
27	1·8	0·40	1·5	0·33	SW : W : WNW	NNW:WNW:NNE	2·4	0·15	286	10 : 10 : 8	10 : 10, so.-ha : 10, r
28	1·1	0·25	0·9	0·21	NNE : N : NW	W : WSW	2·2	0·18	307	1 : 3 : 9, s, n	10 : 10
29	0·1	0·03	0·1	0·03	WSW	WSW : SW	4·8	0·63	426	v.-cl : 9 : 8, cu	v.-cl, cu : p.-cl : 9
30	4·5	1·00	4·5	1·00	WSW : W	W : N	2·5	0·25	364	10 : 8 : 9	8, n, cu : 8 : 1, s
Means	..	..	..	..	..	..	..	0·17	240		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 54°·5, being 0°·4 *lower* than
The mean *Temperature of the Dew Point* for the month was 50°·3, being 0°·6 *lower* than
The mean *Degree of Humidity* for the month was 72·7, being 0·9 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·365, being 0in·008 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs·1, being 0grs·1 *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 7·0.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·386. The maximum daily amount of *Sunshine* was 14·0 hours on June 26.

The highest reading of the *Solar Radiation Thermometer* was 148°·6 on June 26; and the lowest reading of the *Terrestrial Radiation Thermometer* was 30°·1 on June 15.

The *Proportions of Wind* referred to the cardinal points were N. 4, E. 2, S. 8, W. 10. Six days were calm.

The *Greatest Pressure of the Wind* in the month was 14·0 lbs. on the square foot on June 2. The mean daily *Horizontal Movement of the Air* for the month was 240 miles; the greatest daily value was 455 miles on June 1; and the least daily value was 112 miles on June 20.

Rain (0in·005 or over) fell on 15 days in the month, amounting to 2in·740 as measured by gauge No. 6 partly sunk below the ground; being 0in·702 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
July 1	29·819	71·4	44·0	27·4	57·7	− 3·8	50·4	43·8	13·9	21·6	3·2	60	136·2	31·5	56·0	0·000	wP	11·2	16·5
2	29·471	72·9	53·4	19·5	60·0	− 1·6	55·4	51·4	8·6	19·2	2·4	73	142·6	44·7	56·0	0·065	wwP : wP, wwP	5·6	16·5
3	29·269	67·8	53·6	14·2	59·1	− 2·7	55·6	52·5	6·6	13·4	1·9	79	125·6	48·2	56·0	0·031	wwP	2·9	16·5
4	29·462	70·4	51·4	19·0	59·6	− 2·5	54·1	49·2	10·4	18·4	4·8	69	143·9	45·2	56·0	0·000	wP	10·9	16·4
5	29·644	70·0	51·3	18·7	59·4	− 2·9	53·8	48·8	10·6	19·0	4·0	68	133·3	43·2	56·0	0·026	wP	12·1	16·4
6	29·717	72·0	52·9	19·1	60·7	− 1·7	54·5	49·1	11·6	20·6	3·6	66	137·2	44·4	56·1	0·000	wP	10·8	16·4
7	29·844	72·8	51·2	21·6	61·1	− 1·3	56·5	52·5	8·6	15·9	2·4	74	145·1	42·2	56·1	0·000	wP	5·0	16·4
8	29·883	78·9	54·7	24·2	64·5	+ 2·1	58·6	53·7	10·8	21·4	1·7	68	151·0	47·3	56·2	0·000	wP	11·9	16·3
9	29·835	78·8	53·7	25·1	64·7	+ 2·3	58·6	53·5	11·2	22·1	1·7	67	133·4	44·7	56·2	0·000	wP, wwP : wP : wP, wwP	3·8	16·3
10	29·992	80·2	52·8	27·4	65·9	+ 3·4	60·0	55·2	10·7	22·1	1·0	69	148·5	41·0	56·4	0·000	wwP, wP : wP	13·2	16·3
11	29·993	83·0	54·8	28·2	68·2	+ 5·5	61·4	56·1	12·1	27·0	1·4	65	151·6	45·0	56·5	0·000	wP	12·2	16·2
12	29·790	88·8	55·9	32·9	74·0	+11·1	65·3	58·9	15·1	29·0	0·6	59	148·0	42·0	56·8	0·000	wP	14·3	16·2
13	29·865	76·8	56·6	20·2	65·5	+ 2·4	58·7	53·2	12·3	29·7	5·1	64	143·2	46·5	56·9	0·002	wP	9·7	16·2
14	30·125	79·2	50·7	28·5	64·8	+ 1·5	56·8	50·2	14·6	25·2	1·4	59	151·0	37·1	57·0	0·000	wP	15·0	16·1
15	29·933	81·1	49·4	31·7	65·9	+ 2·5	57·4	50·5	15·4	27·0	2·3	57	150·0	36·7	57·1	0·000	wwP, wP : wP	13·8	16·1
16	29·680	79·4	55·3	24·1	65·2	+ 1·8	58·5	53·1	12·1	25·0	5·7	65	141·9	43·6	57·0	0·000	wP	6·1	16·1
17	29·613	68·2	52·1	16·1	57·8	− 5·6	53·6	49·8	8·0	16·1	0·0	75	129·2	47·1	57·1	1·038	wP : wP : vN, wwP	4·4	16·1
18	29·654	70·2	49·9	20·3	58·9	− 4·4	53·4	48·5	10·4	18·5	1·2	68	136·6	45·2	57·1	0·007	wwP : wP : mP, wP	5·2	16·0
19	29·760	74·0	52·2	21·8	61·1	− 2·1	55·1	49·9	11·2	19·8	3·0	67	141·7	38·4	57·2	0·005	wP	7·0	16·0
20	29·810	78·1	47·6	30·5	61·9	− 1·3	56·3	51·5	10·4	19·4	0·6	69	148·9	34·9	57·1	0·000	wP	9·7	15·9
21	29·695	70·4	52·8	17·6	62·3	− 0·9	59·8	57·9	4·4	12·0	1·0	85	115·2	41·0	57·0	0·313	wwP : v, wP : wP	3·6	15·9
22	29·658	74·4	50·5	23·9	59·8	− 3·3	56·8	54·2	5·6	17·6	0·2	83	138·0	39·3	57·2	0·035	wP : wP, v : wP	4·9	15·8
23	29·709	71·7	52·7	19·0	61·4	− 1·6	56·9	53·0	8·4	15·3	0·6	75	116·9	41·1	57·2	0·000	wP	1·7	15·8
24	29·729	67·8	54·7	13·1	59·7	− 3·2	53·7	48·4	11·3	18·5	4·5	67	135·7	46·3	57·2	0·032	wP : mP, wP : wP	8·1	15·7
25	29·796	67·6	52·2	15·4	57·5	− 5·2	52·9	48·7	8·8	18·5	0·4	72	128·9	44·1	57·0	0·087	wP	5·4	15·7
26	29·780	68·2	49·0	19·2	55·8	− 6·7	53·8	51·9	3·9	13·0	0·0	88	123·0	37·7	57·0	0·557	v, wwP : mP, v : mP, wP	3·4	15·7
27	29·859	72·7	47·1	25·6	57·9	− 4·5	53·1	48·8	9·1	20·2	0·0	74	137·0	34·9	57·0	0·012	wP	8·4	15·6
28	29·442	60·2	52·7	7·5	57·1	− 5·2	56·3	55·6	1·5	2·5	0·2	94	75·3	46·3	57·0	0·649	wP	0·0	15·6
29	29·295	73·1	47·7	25·4	57·8	− 4·5	56·1	54·6	3·2	13·0	0·0	89	136·2	36·4	57·0	1·338	wP : v, wP	4·3	15·5
30	29·538	73·2	49·4	23·8	61·0	− 1·3	57·9	55·2	5·8	14·8	0·0	82	120·5	39·4	57·0	0·008	wP : wP : v, wP	2·8	15·5
31	29·765	73·2	53·2	20·0	62·3	+ 0·1	57·9	54·2	8·1	16·2	2·6	75	135·6	47·1	57·0	0·000	wP	6·0	15·4
Means	29·723	73·8	51·8	22·0	61·6	− 1·1	56·4	52·1	9·5	19·1	1·9	71·8	135·5	42·0	56·7	Sum 4·205	..	7·5	16·0
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

The mean reading of the *Barometer* for the month was 29in·723, being 0in·076 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 88°·8 on July 12; the lowest in the month was 44°·0 on July 1; and the range was 44°·8.
The mean of all the highest daily readings in the month was 73°·8, being 0°·4 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 51°·8, being 1°·5 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 22°·0, being 1°·1 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 61°·6, being 1°·1 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
July 1	0·0	0·00	0·0	0·00	Calm	SW : WSW	1·5	0·05	153	1 : 1 : p.-cl	p.-cl : p.-cl : 9
2	0·0	0·00	0·0	0·00	SSW : SW	WSW	4·2	0·42	351	10, r : 9	9 : 9
3	4·2	0·94	4·0	0·89	WSW : SW	SW : WSW	15·9	0·98	468	10, shs : 9 : 9, slt.-r	10, th.-r : 7, w : p.-cl, w
4	4·5	1·00	4·5	1·00	WSW	SW	4·4	0·70	421	2, w : 3 : 8, slt.-sh	9, cu, n : 9 : 3
5	0·4	0·09	0·3	0·06	SW : WSW	SW	3·6	0·52	379	1 : 1 : 8, hy.-sh	7 : 8
6	4·7	0·98	4·6	0·97	SW : WSW : W	W : WSW	4·3	0·67	452	7, shs : 7 : 8, w	p.-cl, w : v.-cl : 0
7	2·2	0·46	2·1	0·44	SW : WSW	WSW	3·3	0·31	364	3 : 10 : 10, n, oc.-m.-r	8, cu.-s, n : 2
8	0·5	0·11	0·4	0·07	W	WSW : Calm	2·3	0·13	225	v.-cl : 7 : 3, cu, ci	5 : 8, th.-cl
9	4·8	1·00	4·8	1·00	Calm	W : Calm	0·7	..	118	9, h : 10, n, h	8, h : 8 : 1, d, m
10	4·8	1·00	4·8	1·00	SW : WSW	WSW : SW	2·1	..	238	p.-cl : p.-cl, ci, cu	3, ci.-s : 1
11	4·8	1·00	4·8	1·00	WSW : Calm	Calm : S	1·1	..	141	1 : 9, th.-cl : 1	1, h : 1, d
12	4·3	0·83	3·7	0·70	Calm : S	SSW	2·5	..	221	0 : 0	1 : 1 : p.-cl
13	5·3	1·00	5·3	1·00	W : WSW	W : WSW	7·8	..	448	8 : 8, cu.-s, n, w	6, cu,sh,w : 1, w : 0
14	5·3	1·00	5·3	1·00	SW : Calm	SSW	1·8	..	184	0 : 0 : 2, ci, h	2, h : 1, h : 0
15	4·2	0·80	4·2	0·80	Calm : SSW	SSW : S	1·3	..	177	0 : 2, th.-cl	6, ci, cu : 0
16	3·9	0·73	3·3	0·62	S : Calm : W	W	2·9	..	300	5, slt.-sh : 10	6 : p.-cl : p.-cl
17	0·0	0·00	0·0	0·00	WSW : SW	SW : E : N	9·7	..	289	v.-cl : v.-cl : 9	10, slt.-r : 10, hy.-r : 10, hy.-r, w
18	1·1	0·22	0·5	0·10	NNW : W : WNW	WNW: NW: WSW	4·6	..	389	8, w : 6 : 9, cu.-s, n	9, cu.-s, n : 9, sh : 8
19	5·5	1·00	5·5	1·00	WSW : W	WNW : WSW	2·2	0·13	266	9, shs : 8, cu, n, sh	7, sh : 7, cu : 1
20	1·3	0·24	1·0	0·18	Calm	ESE : E	1·2	0·05	141	0 : 0 : 8, cu.-n	8, cu, ci : 8, ci, cu
21	5·2	0·94	4·8	0·87	E	E : Calm	1·0	0·04	178	10, r : 10, fq.-r, r	9, r : 5, cu.-s : 3
22	5·3	0·95	3·7	0·66	Calm : NNE	Calm : WSW	1·5	0·01	134	7 : 7, slt.-r : 6, cu, n	9, tq.-slt.-r, t : 7, slt.-r : 1
23	0·0	0·00	0·0	0·00	SW : W	W : WSW	3·1	0·23	327	p.-cl, h : 10 : 10, s	10 : 8 : 9, cu.-n
24	4·9	0·89	4·6	0·83	WSW: NW: WNW	WNW	5·2	0·60	473	10, sh : 3 : 9, cu.-n, w	9, cu, s, n, shs, w: 9, w : 0
25	0·0	0·00	0·0	0·00	W : WNW	W : Calm	2·4	0·18	276	3 : 3 : 8, cu, ci	10, s, n, r : 10, r
26	5·8	0·97	2·7	0·45	NNE : N : NNW	NNW : Calm	2·6	0·06	175	10, r : 10 : 10, hy.-sh	9,oc.-slt.-shs,t,l,r: 6, slt.-r, m, h : 1, h
27	0·0	0·00	0·0	0·00	Calm: WNW: NNW	W : WSW : SW	1·2	0·05	168	1 : 3, th.-cl : 8, cu	7 : 10 : 10, m.-r, r
28	6·0	1·00	5·9	0·98	Calm : S	S : Calm	2·8	0·20	249	10, r : 10, r	10, r : 10, r : 1, slt r
29	..	..	..	..	Calm	Calm	1·0	0·01	101	1 : 9, sh : 9, cu.-s, sh	10, sh, t, l, hy.-r : p.-cl : 2, m
30	4·0	0·67	3·5	0·59	Calm	W : WSW	1·3	0·03	127	0, m, tk.-m : 6, m, h	9, h : p.-cl, sh, oc.-t: 7
31	5·0	0·83	4·5	0·76	WSW	WSW : SW	1·9	0·10	258	p.-cl : 5 : 8, cu.-s, n	8 : 10, slt.-sh : v.-cl
Means	..	..	..	..	..	..	..	0·26	264		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 56°·4, being 1°·5 *lower* than
The mean *Temperature of the Dew Point* for the month was 52°·1, being 1°·7 *lower* than
The mean *Degree of Humidity* for the month was 71·8, being 1·0 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·389, being 0in·026 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs.·3, being 0grs.·3 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 527 grains, being equal to
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·5.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·470. The maximum daily amount of *Sunshine* was 15·0 hours on July 14.
The highest reading of the *Solar Radiation Thermometer* was 151°·6 on July 11; and the lowest reading of the *Terrestrial Radiation Thermometer* was 31°·5 on July 1.
The *Proportions of Wind* referred to the cardinal points were N. 2, E. 1, S. 7, W. 14. Seven days were calm.
The *Greatest Pressure of the Wind* in the month was 15·9 lbs. on the square foot on July 3. The mean daily *Horizontal Movement of the Air* for the month was 264 miles; the greatest daily value was 473 miles on July 24; and the least daily value was 101 miles on July 29.
Rain (0in·005 or over) fell on 15 days in the month, amounting to 4in·205 as measured by gauge No. 6 partly sunk below the ground; being 1in·806 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY 1924.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Aug. 1	29·798	70·2	53·2	17·0	60·7	— 1·5	57·3	54·4	6·3	13·6	0·4	80	125·0	43·6	57·0	0·000	wP	1·4	15·4
2	29·679	68·6	56·3	12·3	60·9	— 1·2	57·0	53·7	7·2	15·5	2·5	78	132·8	50·0	57·0	0·117	wwP : mP, v : wP, wwP	4·3	15·3
3	29·783	69·6	52·5	17·1	58·8	— 3·3	55·5	52·5	6·3	15·3	0·0	80	121·9	46·0	57·1	0·216	wwP : wP : wwP	5·2	15·2
4	29·692	67·0	56·9	10·1	61·3	— 0·8	57·9	55·0	6·3	13·4	0·4	80	111·9	56·5	57·0	0·000	..	2·8	15·2
5	29·739	79·9	57·2	22·7	65·9	+ 3·8	62·4	59·5	6·4	15·2	2·2	81	151·3	49·8	57·2	0·000	.. : wP	4·8	15·2
6	29·867	74·8	53·7	21·1	61·4	— 0·8	57·9	54·9	6·5	18·4	1·1	80	137·1	46·2	57·2	0·174	wwP : wP : wP	5·4	15·1
7	29·967	68·0	52·0	16·0	58·2	— 4·0	53·3	48·9	9·3	20·3	2·0	71	125·3	46·9	57·2	0·107	wwP : wP : wP	4·6	15·0
8	30·197	69·5	48·5	21·0	58·5	— 3·8	53·2	48·5	10·0	20·7	2·0	69	134·0	41·5	57·4	0·000	wP	6·0	15·0
9	30·239	73·9	45·9	28·0	59·6	— 2·7	54·3	49·6	10·0	20·1	0·4	70	137·2	36·8	57·5	0·000	wP	9·1	14·9
10	30·051	74·3	47·1	27·2	59·9	— 2·4	55·4	51·4	8·5	19·4	0·4	74	141·0	37·8	57·5	0·000	wwP	12·1	14·9
11	29·704	79·0	51·0	28·0	64·3	+ 1·9	58·5	53·7	10·6	20·1	0·6	68	146·4	42·2	57·6	0·000	wwP : wP	10·0	14·8
12	29·508	72·0	53·6	18·4	60·7	— 1·8	57·2	54·2	6·5	14·9	1·0	80	129·2	43·2	57·3	0·001*	wP	5·2	14·7
13	29·548	73·0	50·5	22·5	60·9	— 1·6	57·9	55·3	5·6	13·6	0·6	83	147·1	39·9	57·4	0·081	wP : wP, v : wP	7·7	14·7
14	29·645	72·7	52·8	19·9	60·8	— 1·7	57·5	54·7	6·1	18·5	0·2	81	134·0	43·1	57·8	0·002	wP	8·1	14·6
15	29·708	70·5	52·1	18·4	59·3	— 3·1	54·6	50·4	8·9	19·9	2·5	72	136·2	45·0	57·8	0·004	wP	10·2	14·6
16	29·523	70·6	49·2	21·4	59·5	— 2·8	55·0	51·0	8·5	17·9	1·3	74	137·1	40·8	57·8	0·000	wP	9·7	14·5
17	29·257	70·2	50·9	19·3	58·2	— 3·9	55·1	52·3	5·9	15·9	1·4	81	131·3	44·1	57·9	0·126	wP : wP : wP, v	5·6	14·5
18	29·292	66·0	51·3	14·7	56·0	— 5·9	52·9	50·0	6·0	13·4	2·6	80	122·6	43·0	57·8	0·061	wP : wP, v : v, wP	4·7	14·4
19	29·377	67·7	48·2	19·5	55·8	— 5·9	52·0	48·4	7·4	15·7	1·9	77	132·9	40·1	57·8	0·088	wP : wP, v : mP	8·7	14·3
20	29·339	67·7	45·6	22·1	54·9	— 6·6	51·5	48·2	6·7	15·6	1·3	78	129·1	37·0	57·8	0·025	wP : wP : v, wP	7·7	14·3
21	29·401	65·8	50·3	15·5	56·5	— 4·8	52·8	49·4	7·1	16·3	2·7	77	128·0	44·3	57·7	0·019	wwP : wP, v : wP	7·6	14·2
22	29·466	68·9	51·2	17·7	56·9	— 4·2	54·2	51·7	5·2	15·4	0·4	83	131·8	45·8	57·6	0·159	wwP : wP, vP : v, wP	6·6	14·1
23	29·515	70·2	51·2	19·0	56·7	— 4·2	53·7	50·9	5·8	14·4	0·8	81	135·0	45·7	57·4	0·008	wP : wP, v : wP	5·7	14·1
24	29·774	59·9	50·8	9·1	54·1	— 6·7	52·0	49·9	4·2	6·9	2·4	85	79·8	44·3	57·2	0·132	wP : wP, v : v, wP	0·2	14·0
25	29·970	63·6	50·5	13·1	55·8	— 4·9	52·4	49·2	6·6	13·3	1·6	79	93·4	43·3	57·2	0·002	wP, mP : mP : wP	0·3	14·0
26	29·897	65·5	52·3	13·2	56·8	— 3·9	53·1	49·7	7·1	15·3	0·8	77	97·0	42·8	57·2	0·000	wP : wP : mP, wP	0·0	13·9
27	29·779	62·8	48·7	14·1	54·5	— 6·1	50·1	45·9	8·6	14·3	2·2	72	116·2	39·6	57·2	0·000	wP : mP, wP	4·6	13·8
28	29·801	67·9	45·6	22·3	55·6	— 4·8	52·9	50·4	5·2	12·0	1·1	83	118·3	35·0	57·1	0·008	wP : wP : wwP	0·7	13·8
29	29·551	70·0	55·1	14·9	59·4	— 0·9	56·7	54·3	5·1	13·4	0·4	84	125·2	52·2	57·0	0·124	wwP : wP, wwP	1·5	13·7
30	29·513	70·4	56·1	14·3	61·0	+ 0·9	59·0	57·3	3·7	8·8	0·6	88	116·0	53·0	57·1	0·356	wwP : wP	2·4	13·7
31	29·536	71·9	54·8	17·1	61·3	+ 1·4	59·4	57·8	3·5	9·7	0·8	89	117·8	49·1	57·0	0·111	wwP : vN, wwP	2·6	13·6
Means	29·681	69·7	51·5	18·3	58·8	— 2·8	55·2	52·0	6·8	15·4	1·2	78·5	126·5	44·1	57·4	Sum 1·921	..	5·3	14·5
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named, to dawn of the following day.

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

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

*Rainfall (Column 16). The amount entered on August 12 is derived from dew.

The mean reading of the *Barometer* for the month was 29in·681, being 0in·102 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 79°·9 on August 5; the lowest in the month was 45°·6 on August 20 and 28; and the range was 34°·3.
The mean of all the highest daily readings in the month was 69°·7, being 3°·0 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 51°·5, being 1°·5 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 18°·3, being 1°·4 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 58°·8, being 2°·8 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	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	1·5	0·26	1·1	0·18	SW	SW	1·8	0·11	219	0, d : 9 :9,ci,cu,n,so.-ha	10, s, n : 10, oc.-shs
2	3·5	0·54	3·3	0·51	SW : W	WNW : W	3·8	0·23	340	9, sh : 10, r : 9, cu, n, t, sh	9, shs : 9, shs : 7
3	0·0	0·00	0·0	0·00	W : WNW	W : SW	3·5	0·15	312	2 : p.-cl : 9, s, n, so.-ha	10, r : 10, r, sh : 10, r
4	0·0	0·00	0·0	0·00	WSW : NW	W : SW	2·0	0·11	269	10, slt.-sh : 10 : 9, s, n	10 : 10
5	6·3	0·97	6·3	0·97	SW : WSW	WSW : W	5·4	0·29	398	10 : 9, n, w	9, n, w : p.-cl, slt.-shs, w : 1, d
6	0·0	0·00	0·0	0·00	WSW	SW : N	1·4	0·04	168	p.-cl : 10 : 7, cu	5, cu : 10, r : 10, r
7	4·9	0·75	4·5	0·68	N	N : NNW	3·4	0·25	320	10, r : 10, r : 8	5 : p.-cl : 1
8	4·7	0·73	4·5	0·69	N : Calm	Calm	1·1	0·04	125	p.-cl : 2 : 4, cu	7 : 5 : p.-cl
9	6·5	0·95	6·2	0·89	Calm	Calm : SSW	0·4	0·03	106	0 : 2	7, cu, h : 5, h : 1, h, d
10	5·2	0·75	4·9	0·70	Calm	SE : ESE	0·6	0·07	127	0 : 3 : 4, cu, ci	6, cu, ci.-s, so.-ha : 8, th.-cl, so.-ha : 8, th. cl, lu.-ha, d
11	6·1	0·87	5·4	0·77	Calm	SSW : SW	1·4	0·07	158	0, h : 6 : 6, cu.-s	6, ci, cu : 8, ci.-s, cu
12	6·9	0·99	6·8	0·97	SW : WSW	WSW : SW	2·0	0·11	226	8 : 9 : 9, cu, n	9, cu : 3, d
13	3·5	0·50	2·9	0·41	SW : S : SSW	Calm : SW	1·5	0·04	164	1 : 8 : 7, cu, n, hy.-sh	9, shs, t, l : 6 : 6
14	2·5	0·36	1·9	0·27	SW : WSW	SW	2·3	0·17	269	2 : 1 : 8, th.-cl	8, p.-so.-ha : 10, oc.-slt.-r : 10, r, m.-r
15	1·5	0·21	1·4	0·20	WSW : W	W : WSW : SW	2·5	0·20	314	9 : 3 : p.-cl	6 : 8, oc.-slt.-r
16	1·7	0·22	1·4	0·18	SW : SSW	SSW : SW	1·6	0·15	229	7 : 1 : 6, cu	8 : 7 : 9, r
17	2·6	0·35	2·3	0·30	WSW : SW : S	SSW : SW	7·0	0·37	361	9 : 10, r, slt.-r	7, sh : v.-cl, slt.-sh : 9, r
18	6·9	0·92	6·9	0·92	WSW : W	Var. : WSW	5·9	0·38	479	9 : 9, r	8, fq.-slt. r, t, l : 8, r, oc.-t, l : 1
19	7·5	1·00	7·5	1·00	WSW	W : Var. : SW	8·4	0·20	287	3, d : 7, th.-cl : 7, cu, t	8,slt.-t.-sm,hy.-sh: 6, slt.-sh : 0
20	3·2	0·42	2·1	0·28	SW	SW : WSW	2·0	0·15	238	0 : 8 : 7, ci.-cu	6, slt.-sh : 9, oc.-slt.-shs
21	5·8	0·78	4·4	0·59	WSW : SW	SW	3·2	0·43	385	7 : 5, th.-cl : p.-cl, cu	8, oc.-r : p.-cl : 8
22	4·0	0·53	3·9	0·52	SW	SW	2·8	0·24	284	6 : 5	9, t.-sms : 10, r, t, l : 3
23	3·2	0·42	2·9	0·39	SW : WSW	WSW : W : WNW	2·0	0·17	247	8 : 9 : 9, slt.-sh	8, shs : 9 : 9
24	0·0	0·00	0·0	0·00	WNW : WSW : W	W : WNW	2·7	0·28	346	8 : 10, r, slt.-r	10, shs : 10, sh : 10
25	2·9	0·39	2·5	0·34	W : WNW	W : WSW	1·9	0·12	277	10 : 10, s, n	10 : 10, slt.-r : 7, cu, s
26	1·9	0·26	1·0	0·13	WSW : Calm	W : WSW	0·3	0·00	153	10 : 10	10, slt.-sh : 10 : 9, m, h, slt.-sh
27	5·8	0·78	5·7	0·77	W : NNW	NNW : W	2·0	0·13	239	9 : 8, cu, n	10, slt.-sh : 9, slt.-sh : 3
28	0·0	0·00	0·0	0·00	Calm : SW	SW	1·9	0·11	219	1 : 10 : 9, cu.-s	10 : 10, oc.-m.-r, r
29	0·3	0·03	0·1	0·01	SW	WSW : SW	2·6	0·21	289	10, r : 10, r, m.-r : 9, oc.-slt.-r	9 : 10, r, m.-r
30	0·6	0·07	0·5	0·06	SW : WSW	WSW	1·5	0·13	276	10, r, m.-r : 10	9, r : 10, r
31	6·5	0·77	6·5	0·77	WSW : SW	SW : WSW	1·6	0·12	288	10, fq.-slt.-r : 10, oc.-slt.-r	10, r : p.-cl : 0
Means	..	..	..	..	..	..	..	0·16	262		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 55°·2, being 2°·3 *lower* than
The mean *Temperature of the Dew Point* for the month was 52°·0, being 2°·0 *lower* than
The mean *Degree of Humidity* for the month was 78·5, being 2·2 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·388, being 0in·030 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs·3, being 0grs·3 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 529 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 7·7.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·368. The maximum daily amount of *Sunshine* was 12·1 hours on August 10.
The highest reading of the *Solar Radiation Thermometer* was 151°·3 on August 5; and the lowest reading of the *Terrestrial Radiation Thermometer* was 35°·0 on August 28.
The *Proportions of Wind* referred to the cardinal points were N. 2, E. 0, S. 8, W. 17. Four days were calm.
The *Greatest Pressure of the Wind* in the month was 8·4 lbs. on the square foot on August 19. The mean daily *Horizontal Movement of the Air* for the month was 262 miles; the greatest daily value was 479 miles on August 18; and the least daily value was 106 miles on August 9.
Rain (0in·005 or over) fell on 17 days in the month, amounting to 1in·921 as measured by gauge No. 6 partly sunk below the ground; being 0in·423 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Sept. 1	29·742	67·2	54·0	13·2	59·3	− 0·5	56·1	53·2	6·1	10·7	2·0	81	110·8	48·6	57·1	0·000	.. : mP	1·3	13·5
2	29·954	65·1	55·3	9·8	59·9	+ 0·2	56·3	53·1	6·8	10·8	2·5	79	89·8	48·8	57·2	0·000	wP, mP : mP : mP, wP	0·1	13·5
3	29·999	66·6	54·3	12·3	59·5	− 0·1	56·4	53·7	5·8	12·0	2·5	82	113·5	47·1	57·2	0·067	wP	2·4	13·4
4	29·893	62·4	55·7	6·7	58·1	− 1·4	56·6	55·2	2·9	6·0	1·0	90	84·8	51·8	57·2	0·204	wP	0·0	13·4
5	29·721	67·2	52·6	14·6	58·6	− 0·8	56·4	54·4	4·2	11·2	0·4	86	88·0	43·4	57·2	0·000	.. : wP, ..	0·2	13·3
6	29·607	70·1	48·9	21·2	59·5	+ 0·3	56·9	54·6	4·9	12·5	0·4	85	127·3	39·4	57·3	0·001	.. : wP	5·2	13·2
7	29·435	69·9	59·8	10·1	63·4	+ 4·4	61·5	59·9	3·5	8·0	2·4	89	103·0	52·9	57·3	0·077	wP	0·4	13·1
8	29·448	71·7	57·2	14·5	62·8	+ 4·0	58·9	55·6	7·2	17·3	1·5	77	134·5	50·0	57·4	0·010	v, wP : wP : ..	10·8	13·1
9	29·339	66·7	50·7	16·0	58·7	+ 0·1	55·4	52·4	6·3	12·0	2·2	80	117·7	46·0	57·4	0·134	wP : wP : v, wP	5·7	13·0
10	29·738	59·9	46·7	13·2	52·0	− 6·4	47·0	41·9	10·1	16·9	5·9	69	103·2	34·4	57·4	0·000	wP	7·2	13·0
11	29·636	67·1	45·1	22·0	57·3	− 0·8	53·9	50·8	6·5	12·9	2·3	79	111·0	35·9	57·4	0·009	wP	3·7	12·9
12	29·663	66·3	55·4	10·9	59·9	+ 1·9	57·0	54·5	5·4	11·8	2·4	83	111·8	49·2	57·3	0·022	wP	1·7	12·8
13	29·678	67·6	59·5	8·1	62·5	+ 4·7	59·3	56·6	5·9	10·3	1·3	81	99·0	55·3	57·3	0·026	.. : wP : wP	2·6	12·7
14	29·791	67·2	50·4	16·8	58·3	+ 0·6	53·8	49·8	8·5	16·6	1·4	73	120·3	42·6	57·1	0·470	wP, wN : wP : wP	8·8	12·7
15	29·944	67·3	49·2	18·1	56·1	− 1·5	51·9	47·9	8·2	14·8	2·1	74	121·4	42·0	57·3	0·016	wP	1·6	12·6
16	29·751	66·6	54·0	12·6	59·3	+ 1·8	56·0	53·1	6·2	13·8	2·3	80	114·0	49·6	57·3	0·093	wP	3·6	12·6
17	29·722	66·2	58·2	8·0	61·1	+ 3·9	59·0	57·2	3·9	5·7	1·7	87	94·9	55·1	57·2	0·040	wP	0·1	12·5
18	29·926	67·9	49·2	18·7	57·5	+ 0·6	52·7	48·3	9·2	15·8	3·8	72	121·4	40·3	57·2	0·000	wP : wP : mP, wP	9·3	12·4
19	29·853	67·1	45·0	22·1	56·0	− 0·5	52·1	48·4	7·6	15·0	0·8	76	119·8	35·0	57·2	0·001	wP	3·6	12·4
20	29·440	67·5	59·3	8·2	62·3	+ 6·1	59·5	57·1	5·2	10·9	2·0	84	102·2	55·4	57·2	0·036	wP	0·4	12·3
21	29·485	65·8	53·0	12·8	57·3	+ 1·4	52·2	47·5	9·8	17·6	2·4	70	115·0	45·4	57·2	0·039	wP	8·2	12·3
22	29·468	62·8	45·8	17·0	53·9	− 1·7	50·2	46·6	7·3	16·0	1·4	76	117·0	38·6	57·1	0·122	wP, vN : wP, mP : mP, wP	8·4	12·2
23	29·360	59·1	47·5	11·6	53·0	− 2·4	49·9	46·8	6·2	12·6	2·6	79	78·9	39·9	57·0	0·148	wP : wP, mP : mP, wP	1·9	12·1
24	29·452	62·2	44·4	17·8	52·6	− 2·7	48·2	43·8	8·8	18·7	1·9	72	118·8	34·4	57·0	0·000	wP : mP, wP	10·7	12·0
25	29·487	57·2	42·9	14·3	50·9	− 4·3	49·6	48·3	2·6	10·2	0·6	91	73·2	33·8	56·9	0·443	wP : v, wP	0·1	12·0
26	29·575	56·2	51·8	4·4	53·6	− 1·6	52·7	51·8	1·8	3·2	1·0	94	75·8	49·2	56·7	0·402	wP : wP, v : v, ..	0·0	11·9
27	29·932	64·0	41·7	23·3	54·4	− 0·7	51·5	48·7	5·7	13·0	0·0	81	109·1	31·9	56·4	0·007	.. : wP, ..	5·9	11·9
28	30·103	63·6	38·7	24·9	50·2	− 4·7	48·2	46·1	4·1	13·7	0·0	86	107·8	30·0	56·3	0·000	.. : wP : ..	7·1	11·8
29	29·739	63·8	50·9	12·9	56·6	+ 1·9	53·4	50·4	6·2	13·2	1·2	80	114·3	43·7	56·3	0·001*	.. : wP	6·7	11·7
30	29·365	65·9	53·9	12·0	57·6	+ 3·2	56·0	54·6	3·0	9·6	0·4	89	100·2	47·2	56·1	0·734	wP : wP : vN, wP	1·2	11·6
																Sum			
Means	29·675	65·3	51·0	14·2	57·4	+ 0·2	54·3	51·4	6·0	12·4	1·7	80·8	106·6	43·9	57·1	3·102	..	4·0	12·6
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

*Rainfall (Column 16). The amount entered on September 29 is derived from dew.

The mean reading of the *Barometer* for the month was $29^{in}\cdot675$, being $0^{in}\cdot136$ *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 71°·7 on September 8; the lowest in the month was 38°·7 on September 28; and the range was 33°·0.

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

The mean of all the lowest daily readings in the month was 51°·0, being 1°·9 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 14°·2, being 4°·0 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 57°·4, being 0°·2 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	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.		
Sept. 1	1·3	0·15	1·1	0·14	WSW	W	1·8	0·18	346	3 : 10 : 10, s, n	9, n : 8, cu : 9
2	2·3	0·27	2·3	0·27	WNW : NNW	N : NNE	1·1	0·08	224	10 : 10, cu.-n	10, cu.-n : 9 : 2
3	0·4	0·05	0·4	0·05	NNE : NE	NE	2·7	0·28	342	9 : 10 : 9, s, n	10 : 10, r : 10
4	1·7	0·20	1·4	0·16	NE	NE	2·0	0·10	249	10 : 10 r, : 10, oc.-slt.-r	10, fq.-r : 10 : 10
5	6·7	0·79	6·1	0·72	Calm	Calm	0·1	0·00	68	9 : 10, m	10, h : 6 : 1, m
6	1·8	0·20	1·6	0·18	Calm : ESE	ESE : SE	0·8	0·04	137	1 : 10 : 9,ci,ci.-cu	7, slt.-sh : 9
7	1·7	0·19	1·4	0·16	SE : Calm	SE : S	1·2	0·07	177	10, slt.-sh : 10, n : 10, n, r	10, s, n, slt.-r: 9, slt.-r, hy.-sh : 10, s
8	5·0	0·56	4·4	0·49	SSW : SW	SW : SSW	3·8	0·33	318	9, t.-sm, r : 8 : 6, cu, n	p.-cl, w : 3 : 9, slt.-sh
9	2·8	0·31	2·6	0·28	SSW : SW	W : WNW	7·5	0·50	436	8 : 8, sh : 9,cu.-s,n,sh,hy.-sh	8, shs, t, l : 8, r : 9
10	4·6	0·51	4·5	0·50	WNW: NW:NNW	NW : SW	2·2	0·18	324	10 : 10, slt.-sh : 8, cu	7, cu : p.-cl : 8, d, slt.-m
11	6·1	0·68	4·7	0·52	SSW : SW	WSW : SW	3·1	0·19	327	8 : 10 : 9, slt.-r	9, shs : p.-cl, n : 2
12	1·6	0·17	1·5	0·16	SSW	SSW	4·4	0·39	362	7 : 10, cu.-s, n:10,s,n,hy.-sh,slt.-sh	10, cu.-n : 10, slt.-shs : 10, fq.-m.-r, r
13	1·0	0·11	0·7	0·08	SSW : SW	SW : SSW	4·8	0·48	363	10, r : 9, r : 9, slt.-shs	10, n : 9
14	9·5	1·00	9·5	1·00	SSW : NW : W	W : WSW	2·4	0·20	332	10, r : 10, r : 4, ci, cu	3 : 1 : 1, h, d
15	0·0	0·00	0·0	0·00	WSW : SW	SW	2·8	0·30	338	p.-cl, th.-cl : 9, cu.-s, n	9, n : 10 : 10, slt.-r, r
16	0·0	0·00	0·0	0·00	SW : WSW	WSW : SW	4·1	0·57	419	10, r : 8, cu, n : 9, s, n	10 : 10, oc.-shs, w
17	2·2	0·23	2·1	0·22	SW	SW : WSW	5·1	1·00	472	10, w : 10, s, n : 10	10 : 10, fq.-slt.-r, hy.-sh
18	5·3	0·56	4·8	0·50	WSW	WSW : SW	2·8	0·21	313	8 : 1 : 3, cu	4, cu, n : 1, h
19	1·6	0·17	0·9	0·10	Calm	SE : SSE	0·2	0·01	129	8, th.-cl, lu.-ha : 9 : 9, s, n, so.-ha	10, s, n : 9 : 9, slt.-sh
20	6·0	0·60	5·7	0·57	SW	SSW : SW	7·7	0·94	471	9 : 10 : 10, n	10, n, fq.-slt.-r : 10,fq.-m.-r,w: 9, r, w
21	0·8	0·08	0·5	0·05	SW : WSW	SW : SSW	8·0	1·06	448	1 : 6, th.-cl,w: 8,th.-cl,w	8, ci, cu : 9, cu, ci.-s : 10,slt.-m.-r,r
22	6·8	0·68	6·8	0·68	SSW : WSW	W : SW : SSW	9·2	0·51	386	10, r : 9, r : 8, cu, cu.-n, w	v.-cl, sh, w : 1 : 1, d
23	10·0	1·00	9·9	0·99	SSW	SSW : SW	3·9	0·27	341	9 : 10, r : 10, r, fq.-slt.-r	9, cu.-s, r : 1 : 0
24	9·1	0·91	8·6	0·86	SW : WSW	SW : SSW	3·1	0·29	365	0 : 2, cu : 2, cu	3 : 1, d
25	0·6	0·06	0·3	0·03	SSE : SE	SE : ESE	3·5	0·16	244	1 : 10 : 10, s, n, r	10, oc.-slt.-r : 10, r : 10, r
26	0·3	0·03	0·2	0·02	E : NE	N	1·8	0·11	259	10, slt.-sh : 10, r, hy.-r	10, r : 10, r
27	8·3	0·77	7·6	0·71	N	N : Calm	4·4	0·34	307	10, r : 10 : 9, cu	6 : 0, m
28	6·0	0·55	3·5	0·33	Calm	SSW : S	1·6	0·06	156	0, m, f : 0, f	2, cu : 0, h, d
29	4·1	0·38	3·0	0·28	S : SSW	S	4·8	0·33	296	1, h, d : 10 : 6, cu	2 : p.-cl : 7
30	0·0	0·00	0·0	0·00	S : SSW	S : Calm	1·7	0·08	180	10, r : 10, slt.-sh : 9,oc.-slt.-r	10, r : 10, r, hy.-r : 10, r, hy.-r
Means	..	..	..	..	..	..	..	0·31	304		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 54°·3, being 0°·2 *higher* than
The mean *Temperature of the Dew Point* for the month was 51°·4, being 0°·2 *higher* than
The mean *Degree of Humidity* for the month was 80·8, being 0·6 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·379, being 0in·002 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs·3, being 0grs·1 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 531 grains, being 2 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·315. The maximum daily amount of *Sunshine* was 10·8 hours on September 8.

The highest reading of the *Solar Radiation Thermometer* was 134°·5 on September 8; and the lowest reading of the *Terrestrial Radiation Thermometer* was 30°·0 on September 28.

The *Proportions of Wind* referred to the cardinal points were N. 4, E. 3, S. 11, W. 9. Three days were calm.

The *Greatest Pressure of the Wind* in the month was 9·2 lbs. on the square foot on September 22. The mean daily *Horizontal Movement of the Air* for the month was 304 miles; the greatest daily value was 472 miles on September 17; and the least daily value was 68 miles on September 5.

Rain (0in·005 or over) fell on 20 days in the month, amounting to 3in·102 as measured by gauge No. 6 partly sunk below the ground; being 0in·954 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Oct. 1	29·531	54·7	46·8	7·9	51·4	— 2·7	51·0	50·6	0·8	1·8	0·0	97	64·0	35·6	56·0	0·000	wP	0·0	11·6
2	29·614	59·1	41·5	17·6	49·4	— 4·3	47·7	45·9	3·5	10·6	0·0	89	91·0	32·5	56·0	0·000	wP	2·3	11·5
3	29·535	61·9	40·6	21·3	50·8	— 2·5	48·3	45·7	5·1	13·3	0·0	83	112·4	31·0	56·0	0·000	wP : wP : wP, ..	5·3	11·5
4	29·628	59·0	46·1	12·9	51·4	— 1·6	50·0	48·6	2·8	8·3	0·6	90	79·6	35·0	55·8	0·005	.. : wP	0·0	11·4
5	29·426	57·5	46·7	10·8	51·4	— 1·4	50·0	48·6	2·8	6·6	0·6	90	73·7	42·0	55·5	0·172	wP : v, wP : wP	0·1	11·3
6	29·508	58·9	43·1	15·8	51·7	— 0·8	49·0	46·3	5·4	10·1	2·5	82	105·8	36·0	55·4	0·292	v, wP : mP, wP : wP, v	6·0	11·3
7	29·596	60·8	46·1	14·7	51·3	— 1·0	48·6	45·8	5·5	13·9	0·8	82	104·6	39·9	55·2	0·254	wP : wP : wP, v	3·3	11·2
8	29·504	58·1	46·7	11·4	52·3	+ 0·3	50·5	48·7	3·6	9·1	0·4	88	79·0	38·1	55·1	0·178	wwP : wP, wN : wP	2·0	11·1
9	29·847	60·7	48·9	11·8	53·8	+ 2·2	50·9	47·9	5·9	15·7	1·2	81	107·0	42·5	55·1	0·025	wwP : wP : wP	5·2	11·1
10	29·811	64·3	54·9	9·4	58·4	+ 7·1	55·3	52·5	5·9	10·7	3·7	81	101·0	48·2	55·0	0·000	wP	5·5	11·0
11	29·813	60·5	53·7	6·8	56·9	+ 6·0	55·2	53·7	3·2	4·6	2·5	89	77·2	42·2	55·0	0·004	wP	0·0	10·9
12	29·996	68·7	51·0	17·7	58·0	+ 7·4	56·0	54·2	3·8	11·9	0·4	87	109·6	42·6	55·0	0·000	wP : wP : ..	5·0	10·9
13	30·140	68·7	47·1	21·6	56·2	+ 5·9	54·0	51·9	4·3	14·7	0·0	86	105·5	37·1	55·0	0·003*	.. : wP	7·9	10·8
14	30·246	65·6	49·4	16·2	55·2	+ 5·1	53·9	52·6	2·6	8·7	0·0	91	96·6	38·5	55·0	0·007*	.. : wP	5·1	10·7
15	30·196	56·5	52·3	4·2	53·9	+ 4·0	52·3	50·7	3·2	6·5	0·4	90	67·4	50·6	55·0	0·000	wP	0·0	10·7
16	30·097	55·6	50·0	5·6	52·2	+ 2·4	49·0	45·7	6·5	9·0	1·6	79	69·8	47·3	55·0	0·000	wP	0·0	10·6
17	30·120	56·1	42·6	13·5	51·0	+ 1·4	48·3	45·5	5·5	9·0	1·9	82	71·4	30·6	55·0	0·000	wP	0·0	10·6
18	30·046	59·8	35·9	23·9	45·9	— 3·4	43·4	40·6	5·3	14·3	0·0	82	92·8	24·9	55·0	0·000	wP : mP : mP, wP	5·4	10·5
19	29·682	56·6	47·1	9·5	51·2	+ 2·1	49·9	48·6	2·6	5·2	1·2	91	73·0	41·9	54·8	0·125	.. : .. : wP	0·0	10·4
20	29·636	57·0	46·2	10·8	51·4	+ 2·6	49·8	48·2	3·2	6·8	0·8	89	70·0	38·8	54·7	0·000	mP : mP : mP, wP	0·0	10·4
21	29·619	55·3	46·3	9·0	51·2	+ 2·6	50·9	50·6	0·6	3·0	0·0	98	59·2	38·3	54·4	0·663	wP : wwP : wN, wP	0·0	10·3
22	29·820	55·1	41·1	14·0	48·2	— 0·1	45·6	42·8	5·4	11·7	0·4	82	64·3	35·3	54·2	0·005	wP	0·4	10·2
23	30·227	54·2	33·1	21·1	43·7	— 4·4	40·6	37·0	6·7	13·5	0·8	77	92·0	20·6	54·1	0·000	wP	6·8	10·2
24	29·988	50·0	33·1	16·9	41·9	— 6·0	39·0	35·4	6·5	12·4	0·0	79	86·4	20·6	54·0	0·000	.. : wP : wwP	7·8	10·1
25	29·658	47·6	35·1	12·5	42·8	— 4·9	41·0	38·8	4·0	6·8	0·4	86	53·2	23·8	53·7	0·000	wwP : wP : wP	0·0	10·0
26	29·440	54·1	41·3	12·8	48·3	+ 0·7	47·7	47·1	1·2	2·8	0·0	96	70·0	31·2	53·2	0·128	wP	0·0	10·0
27	29·455	58·1	49·1	9·0	52·4	+ 4·9	50·3	48·2	4·2	10·6	0·6	86	89·4	45·5	53·0	0·069	wP : wP : v, wP	2·6	9·9
28	29·561	61·9	51·2	10·7	55·2	+ 7·8	52·7	50·3	4·9	11·1	1·8	84	90·6	45·1	53·0	0·099	wP : mP : mP, wP	3·8	9·9
29	29·533	63·0	52·1	10·9	56·1	+ 8·8	54·7	53·4	2·7	6·6	1·4	91	91·0	45·9	53·0	0·442	wP	0·8	9·8
30	29·346	57·9	47·2	10·7	52·2	+ 5·0	50·1	48·0	4·2	6·9	0·8	86	81·5	43·1	52·9	0·480	wP : wP, v : wP	2·2	9·8
31	29·395	53·9	48·6	5·3	51·3	+ 4·2	49·6	47·9	3·4	5·9	0·8	88	71·7	43·6	52·9	0·316	wP : mP : mP, wP	0·1	9·7
Means	29·742	58·4	45·6	12·8	51·5	+ 1·5	49·5	47·5	4·0	9·1	0·8	86·5	83·9	37·7	54·6	Sum 3·267	..	2·5	10·6
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

* Rainfall (Column 16). The amounts entered on October 13 and 14 are derived from dew.

The mean reading of the *Barometer* for the month was $29^{in}\cdot742$, being $0^{in}\cdot021$ *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 68°·7 on October 12 and 13; the lowest in the month was 33°·1 on October 23 and 24; and the range was 35°·6.

The mean of all the highest daily readings in the month was 58°·4, being 0°·9 *higher* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 45°·6, being 2°·4 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 12°·8, being 1°·5 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 51°·5, being 1°·5 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Oct. 1	8·3	0·78	8·0	0·74	Calm : SW	Calm : SSW	0·2	0·00	127	10, m	10, m, oc.-glm : 2, m : 9, f, m, d
2	4·6	0·43	4·2	0·39	SSW : Calm	Calm : S	0·1	0·00	114	1, h, hy.-d : 2 : 10, s	3, h : 9 : 10
3	5·8	0·54	4·6	0·43	Calm	Calm : E	0·5	0·00	94	3, d : 1, th.-cl, m : 8, th.-cl, m	9, th.-cl, so.-ha : 7, th.-cl : 7
4	0·4	0·02	0·2	0·01	Calm	Calm	0·3	0·01	100	6 : 5, m : 10, r	10, r : 10 : 10
5	3·4	0·32	3·2	0·29	Calm	SW	5·2	0·11	175	10, sh, r : 10, r, slt.-m : 10, r, m, f	10,hy.-sh,r,f,glm : 10, r : 10, r
6	5·2	0·47	4·9	0·44	WSW : SW	SW	8·0	0·56	446	7, r : 0 : 8	8, shs : 10, fq.-r : 10, r
7	0·0	0·00	0·0	0·00	WSW	SW : Calm	2·0	0·13	261	3, r : 2 : 8, s, n, so.-ha	10 : 10, r
8	5·3	0·48	4·9	0·44	ESE : SW	NW : W : WSW	7·0	0·25	316	10, m.-r, r : 9, r : 9, oc.-slt.-r, w	10, r, w : v.-cl : p.-cl, d
9	0·7	0·07	0·5	0·04	SW : WSW	W : SW	3·0	0·22	339	10, r : 9 : 8, cu	9, n, oc.-slt.-r : 10
10	3·5	0·32	3·5	0·32	SW	SW : SSW	4·4	0·36	351	10, slt.-sh : p.-cl : 5, ci, cu	9, cu.-s, n : 10
11	4·1	0·36	4·0	0·35	SW : SSW	SSW	1·7	0·12	237	6 : 10 : 10, fq.-m.-r	10, m.-r : 10 : 7
12	11·4	0·99	3·2	0·28	SSW	Calm	0·2	0·01	143	v.-cl : v.-cl	5 : 1 : 0, h
13	3·8	0·33	3·8	0·33	Calm	ESE : Calm	0·1	0·00	112	0, m, d : 0, f, m, h	0 : 0 : 5, m, f, d
14	1·1	0·09	0·9	0·08	Calm	E	1·3	0·06	161	10, f, hy.-d : 10, f : 7, f, m	0, m : 0, m : 10, slt.-m.-r
15	0·0	0·00	0·0	0·00	E : ENE	ENE	1·4	0·10	229	10, m.-r : 10 : 10, s, n	10, s, n : 10 : 10, oc.-slt. m.-r
16	0·0	0·00	0·0	0·00	Calm	Calm : W : NW	0·4	0·00	107	10 : 10	10 : 10
17	10·1	0·88	10·0	0·87	N : Calm	NNE : Calm	0·4	0·03	143	10 : 10, n	9, cu : 7
18	2·2	0·18	1·7	0·14	Calm	S : SSW	0·3	0·00	120	0 : 0, m, f : 0, f	1 : 3 : 10
19	7·4	0·62	7·1	0·59	SSW	SW : WSW	2·2	0·10	254	10, slt.-r : 10, slt.-r	10, oc.-slt.-r : 10, slt.-sh : 9, slt.-r, sh
20	2·2	0·21	1·3	0·11	WSW	WSW : Calm	1·0	0·05	233	0 : 3 : 10, cu.-s, n	10, cu.-s, n : 10
21	0·0	0·00	0·0	0·00	Calm : ESE	ESE : Calm	1·7	0·09	191	9 : 10, r, m.-r	10, m.-r : 10, hy.-r : 10, sh
22	11·5	0·96	11·1	0·92	NNE	N	7·5	0·84	459	10, slt.-r : 10, w : 10, w	8, cu, n : 1
23	12·0	1·00	12·0	1·00	N : NE	ENE	1·2	0·10	201	1, slt.-ho.-fr : 0, h, m : p.-cl, cu	9 : 1 : 0
24	6·5	0·54	6·0	0·50	Calm : E	ENE : E	3·2	0·30	256	0, ho.-fr : 0 : 1, cu	1 : 8
25	3·8	0·31	3·3	0·27	Calm	Calm : SE	0·8	0·00	120	5 : 10 : 10	10 : 10 : 3, d
26	0·0	0·00	0·0	0·00	ESE : ENE	ENE : Calm : SW	2·3	0·07	180	7, d : 10, r, m : 10, oc.-m.-r, m	10, r, m.-r, m : 10, r, m : 10, r, m
27	5·0	0·41	4·5	0·37	SW	SSW : SW	4·6	0·34	342	10 : 10 : 8, cu.-s	10, r : 9, r, w : 9, w
28	7·6	0·62	7·4	0·61	SW	SW	2·7	0·40	404	10, r : 7 : 8, cu, n	8,cu,hy.-sh,p.-so.-ha : v.-cl : 8
29	3·3	0·27	3·1	0·25	SW	SSW : S	3·1	0·24	327	1 : 10, sh : 10, fq.-slt.-r	10, fq.-slt.-r : 10, r
30	7·8	0·63	7·2	0·58	WSW : SW	SW	22·4	0·66	511	3 : v.-cl : 10, r, sq, hl, w	9,t,l,hy.-sq,hl,w : p.-cl, w : p.-cl. w
31	2·8	0·23	2·6	0·21	SW : Calm : W	SW	2·0	0·14	261	9, r, m : 10, r, glm	10, n : 10, r : 10, r
Means	..	..	..	..	..	..	..	0·17	236		
Number of Column for Reference.	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 49°·5, being 1°·6 *higher* than
The mean *Temperature of the Dew Point* for the month was 47°·5, being 1°·8 *higher* than
The mean *Degree of Humidity* for the month was 86·5, being 1·5 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·329, being 0in·022 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·7, being 0grs·2 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 538 grains, being 2 grains *less* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·9.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·236. The maximum daily amount of *Sunshine* was 7·9 hours on October 13.

The highest reading of the *Solar Radiation Thermometer* was 112°·4 on October 3; and the lowest reading of the *Terrestrial Radiation Thermometer* was 20°·6 on October 23 and 24.

The *Proportions of Wind* referred to the cardinal points were N. 2, E. 5, S. 8, W. 7. Nine days were calm.

The *Greatest Pressure of the Wind* in the month was 22·4 lbs. on the square foot on October 30. The mean daily *Horizontal Movement of the Air* for the month was 236 miles; the greatest daily value was 511 miles on October 30; and the least daily value was 94 miles on October 3.

Rain (0in·005 or over) fell on 16 days in the month, amounting to 3in·267, as measured by gauge No. 6 partly sunk below the ground; being 0in·485 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	BAROMETER.	TEMPERATURE.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	TEMPERATURE.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth, 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Nov. 1	29·433	60·0	47·1	12·9	53·3	+ 6·3	52·2	51·1	2·2	5·2	0·2	92	61·0	40·2	52·9	0·346	wP	0·0	9·6
2	29·369	59·0	51·0	8·0	55·1	+ 8·3	50·8	46·7	8·4	11·5	3·0	74	74·4	45·0	52·8	0·000	wP	0·6	9·6
3	29·624	51·6	38·1	13·5	46·1	− 0·5	43·4	40·3	5·8	8·8	1·3	81	64·5	29·4	52·8	0·000	wP	1·8	9·5
4	30·037	45·4	32·4	13·0	38·3	− 8·1	35·8	32·5	5·8	9·2	3·7	80	72·4	23·7	52·6	0·000	wP	6·2	9·4
5	30·087	46·0	26·0	20·0	36·5	− 9·6	34·7	32·1	4·4	5·2	0·0	85	45·7	17·6	52·2	0·000	wP : .. : .., wP	0·1	9·4
6	30·206	53·4	41·6	11·8	46·8	+ 1·0	44·3	41·5	5·3	12·3	1·1	83	87·9	31·2	52·0	0·000	wP : mP, wP	4·8	9·3
7	30·235	51·8	42·9	8·9	48·0	+ 2·6	44·9	41·5	6·5	9·6	2·6	78	69·3	37·3	51·9	0·000	wP, mP : mP : mP	0·3	9·3
8	30·052	50·8	45·3	5·5	48·5	+ 3·5	45·7	42·7	5·8	7·8	2·6	81	67·2	42·4	51·6	0·000	wP : mP, wP : wP	0·5	9·2
9	29·765	50·7	36·9	13·8	43·7	− 0·9	42·2	40·4	3·3	7·8	1·1	88	83·0	28·1	51·3	0·000	wP	6·1	9·2
10	29·733	57·0	40·5	16·5	46·1	+ 1·8	45·0	43·8	2·3	8·4	0·0	92	83·0	29·3	51·1	0·000	wP : wP : ..	5·0	9·1
11	29·954	56·6	40·7	15·9	49·4	+ 5·4	48·0	46·5	2·9	6·7	0·2	90	91·0	30·2	51·0	0·190	.. : wP, v	2·4	9·0
12	30·113	51·0	47·9	3·1	49·3	+ 5·6	49·0	48·7	0·6	2·1	0·4	98	51·6	47·1	51·0	0·864	v, vN : v : v, wP	0·0	9·0
13	30·111	48·1	44·7	3·4	46·6	+ 3·1	45·3	43·9	2·7	5·3	1·1	91	51·0	40·8	50·9	0·145	sN, wP : wP : wP	0·0	8·9
14	29·998	49·2	45·2	4·0	46·7	+ 3·4	45·7	44·6	2·1	3·4	0·8	93	54·6	42·7	50·9	0·029	wP	0·0	8·9
15	29·982	45·2	35·0	10·2	41·8	− 1·3	39·7	37·1	4·7	7·4	2·0	85	57·6	24·5	50·7	0·000	wP	0·3	8·8
16	30·229	45·9	33·1	12·8	38·7	− 4·1	36·9	34·5	4·2	5·6	1·1	86	61·2	21·6	50·6	0·000	wP : wwP	3·4	8·8
17	30·366	40·1	28·2	11·9	36·3	− 6·3	34·5	31·9	4·4	7·1	0·0	84	64·5	17·2	50·4	0·000	wwP : wP	2·9	8·7
18	30·319	45·8	25·2	20·6	33·5	− 8·9	33·0	32·1	1·4	2·0	0·0	94	46·0	17·0	50·0	0·020	..	0·0	8·7
19	30·365	47·1	32·5	14·6	43·1	+ 0·8	42·3	41·3	1·8	5·5	0·3	94	52·0	26·9	50·0	0·000	mP	0·0	8·6
20	30·341	51·4	38·1	13·3	46·0	+ 3·8	44·5	42·8	3·2	6·4	0·7	89	57·4	27·9	49·6	0·013	mP	0·0	8·6
21	30·341	48·9	44·3	4·6	46·4	+ 4·3	42·8	38·8	7·6	9·2	4·5	75	54·0	37·9	49·5	0·000	mP	0·0	8·5
22	30·143	52·2	45·1	7·1	48·9	+ 6·8	44·8	40·5	8·4	10·1	5·7	72	62·8	39·5	49·3	0·000	wP : mP : wP	0·0	8·5
23	29·928	55·3	48·7	6·6	51·7	+ 9·7	48·1	44·5	7·2	8·8	5·9	76	72·0	46·4	49·3	0·000	wP	0·1	8·5
24	29·688	48·7	42·0	6·7	44·0	+ 2·0	42·0	39·6	4·4	7·7	2·4	84	50·9	35·2	49·1	0·000	wwP : wP : wP, wwP	0·0	8·4
25	29·521	52·0	43·4	8·6	47·9	+ 6·0	46·9	45·8	2·1	3·7	1·3	93	66·0	40·4	49·2	0·135	wN, wwP : wP : wP, v	0·1	8·4
26	29·196	52·7	47·1	5·6	50·4	+ 8·6	48·9	47·3	3·1	4·8	1·9	90	61·0	43·0	49·2	0·212	wP : w P : v, wP	0·0	8·3
27	29·177	50·6	37·8	12·8	46·9	+ 5·2	44·5	41·8	5·1	8·9	2·3	83	59·0	29·5	49·6	0·372	..	0·3	8·3
28	29·489	47·3	37·8	9·5	40·8	− 0·7	39·6	38·1	2·7	4·0	0·5	90	64·8	28·0	49·1	0·126	wP : vN, wP : wP	0·3	8·2
29	29·480	53·7	47·3	6·4	50·8	+ 9·6	49·1	47·3	3·5	5·0	1·7	88	64·7	41·6	49·2	0·152	.. : wP	1·3	8·2
30	29·477	55·0	48·1	6·9	50·9	+ 9·9	49·0	47·0	3·9	7·7	1·4	87	68·0	41·6	49·1	0·544	.. : v, wP	0·8	8·1
Means	29·892	50·8	40·5	10·3	45·7	+ 2·2	43·8	41·6	4·2	6·9	1·7	85·9	63·9	33·4	50·6	Sum 3·148	..	1·2	8·8
Number of Column for Reference.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

The mean reading of the *Barometer* for the month was 29^{in}·892, being 0^{in}·134 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 60°·0 on November 1; the lowest in the month was 25°·2 on November 18; and the range was 34°·8.

The mean of all the highest daily readings in the month was 50°·8, being 1°·8 *higher* than the average for the 65 years, 1841–1905.

The mean of all the lowest daily readings in the month was 40°·5, being 2°·6 *higher* than the average for the 65 years, 1841–1905.

The mean of the daily ranges was 10°·3, being 0°·8 *less* than the average for the 65 years, 1841–1905.

The mean for the month was 45°·7, being 2°·2 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursæ Minoris. Duration.	δ Ursæ Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure on the Square Foot. Greatest.	Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Nov. 1	2·0	0·16	1·6	0·13	WSW : SW	SSW : SW	7·0	0·42	362	9 : 1 : 10, n	10, r : 10, r, w : 10, r, w
2	5·7	0·45	5·1	0·41	SW	SW : SSW	8·0	1·57	666	10, w : 6, w : 9, w	10, w : 10, n, w : 10, m.-r, w
3	..	..	..	..	SSW : Calm	N	2·6	0·14	254	p.-cl, w : 1, h : p.-cl, cu, h	9, th.-cl, h : 2 : 0
4	12·8	1·00	12·8	1·00	N	NNE	1·0	0·04	200	0, ho.-fr : 0 : 2	1, cu : 0, h
5	2·8	0·22	1·0	0·08	Calm	Calm	0·1	0·00	99	0, ho.-fr : 0, m, ho.-fr : 0, m, f	10, f, m : 10, m, f : 3, f, m
6	4·3	0·34	3·7	0·29	NNE	NE	2·5	0·20	326	10 : 10 : 1, cu	2, fr.-cu : 10 : 10
7	1·5	0·12	1·1	0·08	NE : NNE	NE : ENE	2·9	0·29	355	9 : 9 : 10, n	10 : 10
8	6·3	0·49	6·2	0·48	E	E	3·6	0·42	342	10 : 10	10 : 10
9	0·0	0·00	0·0	0·00	E : SE	SE	0·8	0·07	176	v.-cl : 1, ci.-s : 1, ci.-s	3, h : 10 : 10
10	7·6	0·59	6·7	0·52	SE : E	Calm	0·8	0·03	146	10 : 10 : 1, ci.-s, h	2, cu.-s : 2, f : 1, f, lu.-ha
11	0·0	0·00	0·0	0·00	Calm	SSW : S	1·0	0·07	156	0, f : 0, f, m, d : p.-cl	10, n : 10, r
12	0·0	0·00	0·0	0·00	Calm : N	N : NNE	2·0	0·20	274	10, r : 10, r	10, r : 10, r
13	0·0	0·00	0·0	0·00	NE : ENE	E	2·1	0·15	249	10, r : 10, r : 10, oc.-slt.-r	10 : 10
14	0·0	0·00	0·0	0·00	E : ESE	E : ESE	0·5	0·05	174	10 : 10	10, r : 10, slt.-sh : 10, slt.-sh
15	9·5	0·73	3·0	0·20	ESE : E	ENE : E	0·8	0·10	216	10 : 10, th.-cl	10 : 10 : 1
16	5·1	0·42	0·1	0·01	NE	NNE : NE	1·4	0·13	279	1, th.-cl, ho.-fr : 1 : 6, h	8 : 9 : 10
17	4·4	0·34	2·8	0·21	NE : ENE	E : Calm	1·5	0·10	204	10 : 9, cu	6, cu, d : 2, f
18	0·7	0·05	0·0	0·00	Calm	SW	0·1	0·00	108	f, ho.-fr : f : f	10, m : 10, f, slt.-r : 10, f
19	1·2	0·09	0·0	0·00	N	NW : SW	0·2	0·03	153	10 : 9 : 10, m	10, m : f, ho.-fr
20	0·8	0·06	0·8	0·06	SW : NNW	NW : W : SW	0·6	0·05	185	10, f : 10, f, slt.-r : 10, f	10, cu.-s, m : 9 : 10, m
21	1·3	0·10	0·6	0·05	SW : SSW	SSW	1·3	0·10	260	10, m : 10, m	10, m : 10
22	1·0	0·08	0·3	0·02	SSW	SSW	3·2	0·38	473	10 : 10	10 : 9 : 9
23	0·0	0·00	0·0	0·00	SSW	SSW	2·5	0·34	395	10 : 10	9 : 10 : 10
24	0·7	0·05	0·3	0·02	S	S : SE	1·1	0·12	216	10 : 10	9,cu,ci,so.-ha,d : 9 : 10, slt.-r
25	..	..	..	..	E : ESE	E : ESE	1·5	0·11	195	10, r, m.-r : 10 : 9, n	7,cu.-s,cu,d: 9 : 10, sh, m.-r
26	4·0	0·30	3·4	0·26	ESE	ESE : SE : SSE	7·8	0·25	292	10, r : 10, s, n	10, oc.-m.-r : 10, r : v.-cl, r, w
27	7·2	0·54	6·0	0·45	SSE : SSW	SSW	22·0	1·43	594	v.-cl, r, w : 10, r, st.-w : 10, r, st.-w	10, r, w, p.-so.-ha: 2 : 7, th.-cl
28	2·6	0·20	2·1	0·16	Calm	Calm : SE	2·0	0·04	152	10, th.-cl : 10 : 10, r	9 : v.-cl : 10, r
29	8·3	0·63	8·2	0·62	S	SSE	3·3	0·33	369	10, r : 8 : 9, slt.-sh	9 : 10, r : 8
30	8·2	0·62	7·8	0·59	S : SSE	S	6·5	0·53	402	v.-cl : 8 : 10, slt.-r	10, hy.-r : 9, fq.-shs : 7, r, slt.-r
Means	..	..	..	..	..	..	..	0·26	276		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 43°·8, being 1°·9 *higher* than
The mean *Temperature of the Dew Point* for the month was 41°·6, being 1°·6 *higher* than
The mean *Degree of Humidity* for the month was 85·9, being 1·4 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·263, being 0in·016 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·0, being 0grs·2 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 548 grains, being equal to
} 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 7·6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·141. The maximum daily amount of *Sunshine* was 6·2 hours on November 4.

The highest reading of the *Solar Radiation Thermometer* was 91°·0 on November 11; and the lowest reading of the *Terrestrial Radiation Thermometer* was 17°·0 on November 18.

The *Proportions of Wind* referred to the cardinal points were N. 5, E. 8, S. 9, W. 4. Four days were calm.

The *Greatest Pressure of the Wind* in the month was 22·0 lbs. on the square foot on November 27. The mean daily *Horizontal Movement of the Air* for the month was 276 miles; the greatest daily value was 666 miles on November 2; and the least daily value was 99 miles on November 5.

Rain (0in·005 or over) fell on 13 days in the month, amounting to 3in·148 as measured by gauge No. 6 partly sunk below the ground; being 0in·928 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground.	Electricity.	Daily Duration of Sunshine.	Sun above Horizon.
		Of the Air.					Of Evaporation.	Of the Dew Point.					Of Radiation.		Of the Earth, 4 ft. below the Surface of the Soil.				
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest.	Lowest.	Daily Range.	Mean of 24 Hourly Values.	Excess above Average of 65 Years.	Mean of 24 Hourly Values.	Deduced Mean Daily Value.	Mean.	Greatest.	Least.		Highest in Sun's Rays.	Lowest on the Grass.					
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.		hours.	hours.
Dec. 1	29·414	55·6	45·3	10·3	49·3	+ 8·4	47·7	46·0	3·3	9·2	1·9	89	87·0	35·2	49·1	0·009	wP	4·5	8·1
2	29·059	50·9	44·0	6·9	47·1	+ 6·2	46·6	46·1	1·0	4·6	0·6	97	65·0	37·4	49·0	0·157	wP : vN, wP : wP	0·0	8·1
3	29·232	48·4	43·9	4·5	47·0	+ 5·9	45·4	43·6	3·4	4·8	0·9	89	50·7	37·0	49·0	0·000	wP : wP, mP : mP	0·0	8·1
4	29·589	50·1	40·2	9·9	46·0	+ 4·7	44·7	43·2	2·8	4·6	1·1	91	52·8	29·1	49·0	0·079	wP : wP : wwP	0·0	8·0
5	29·645	55·4	48·3	7·1	51·9	+10·4	48·9	45·9	6·0	9·6	2·0	80	87·0	39·1	49·0	0·028	wwP, wP : wP : wP	5·2	8·0
6	30·086	51·8	38·4	13·4	46·2	+ 4·7	43·5	40·4	5·8	10·2	1·8	81	61·8	28·2	49·0	0·037	v, wP : wP : wP	5·0	8·0
7	30·279	50·1	36·2	13·9	42·9	+ 1·6	41·4	39·6	3·3	6·8	0·5	88	72·9	26·7	49·0	0·003*	wP	2·8	8·0
8	30·132	45·9	38·2	7·7	42·0	+ 1·0	40·3	38·2	3·8	7·7	2·0	87	52·3	30·1	48·8	0·002*	wP	0·0	7·9
9	30·149	46·9	30·2	16·7	39·9	− 0·7	38·6	36·9	3·0	5·9	0·0	90	79·0	24·0	48·8	0·002*	wP : wP, mP	1·4	7·9
10	30·213	35·6	29·2	6·4	32·2	− 8·2	32·2	32·2	0·0	1·5	0·0	100	39·8	31·5	48·2	0·005*	..	0·0	7·9
11	30·146	33·9	29·0	4·9	31·5	− 8·7	31·3	30·8	0·7	1·5	0·0	97	36·6	31·1	48·0	0·000	..	0·0	7·9
12	30·176	38·9	33·9	5·0	36·9	− 3·4	35·8	34·3	2·6	3·8	0·3	91	46·0	35·1	47·9	0·000	..	0·0	7·8
13	29·937	42·1	35·5	6·6	37·8	− 2·7	36·4	34·5	3·3	4·8	1·4	88	53·1	34·6	47·5	0·147	..	0·0	7·8
14	29·713	45·0	36·8	8·2	41·2	+ 0·5	39·8	38·0	3·2	5·8	0·9	89	56·9	27·5	47·3	0·000	wP : wP, mP : mP	4·0	7·8
15	29·579	47·4	32·7	14·7	41·6	+ 0·8	40·6	39·4	2·2	4·7	0·7	93	49·0	25·0	47·1	0·171	mP : mP, wP : ..	0·0	7·8
16	29·548	50·2	44·4	5·8	47·5	+ 6·8	47·0	46·4	1·1	2·7	0·6	96	65·0	39·9	47·1	0·122	wP : wP, v : wP	0·0	7·8
17	30·066	44·4	37·5	6·9	40·8	+ 0·4	40·3	39·7	1·1	2·0	0·0	96	48·0	29·6	47·0	0·000	wP : wP : wwP	0·0	7·8
18	30·082	49·0	42·0	7·0	46·4	+ 6·4	44·8	43·0	3·4	6·4	0·7	89	59·0	37·4	47·0	0·002*	wP	0·5	7·8
19	30·159	51·9	46·3	5·6	49·3	+ 9·8	48·0	46·6	2·7	4·6	0·6	91	57·2	39·8	47·0	0·000	..	0·0	7·8
20	30·337	50·1	37·7	12·4	44·8	+ 5·8	43·7	42·5	2·3	4·8	0·0	92	75·5	27·5	47·0	0·000	.. : wP	3·7	7·8
21	30·269	44·0	38·1	5·9	41·9	+ 3·2	40·6	39·0	2·9	5·1	0·9	90	44·0	37·4	47·0	0·003	wP	0·0	7·8
22	30·075	42·3	36·6	5·7	38·4	− 0·0	37·0	35·1	3·3	4·5	1·6	88	55·6	29·0	46·9	0·000	wP	1·5	7·8
23	29·805	51·4	42·3	9·1	47·3	+ 9·1	45·2	42·9	4·4	12·2	1·3	86	59·0	35·3	46·9	0·466	wwP	0·6	7·8
24	29·707	52·8	46·5	6·3	49·8	+11·6	47·3	44·6	5·2	8·3	2·7	83	74·3	39·0	46·9	0·160	wwP : wP : wwP, v	1·2	7·8
25	29·734	50·8	45·7	5·1	47·6	+ 9·2	45·7	43·6	4·0	6·6	2·8	87	64·8	36·8	46·9	0·080	v, wwP : wP : wP	1·7	7·8
26	29·585	50·2	44·1	6·1	46·7	+ 8·1	44·0	40·9	5·8	10·1	2·8	81	69·8	36·3	46·8	0·000	wP	1·4	7·8
27	29·191	50·3	45·6	4·7	47·6	+ 8·8	45·8	43·8	3·8	7·8	1·9	88	50·2	40·7	46·9	0·693	..	0·0	7·8
28	29·218	47·1	36·8	10·3	42·8	+ 3·9	40·3	37·3	5·5	9·9	2·4	82	72·0	30·1	46·9	0·077	.. : .. : wP	4·3	7·8
29	29·760	47·4	35·1	12·3	40·7	+ 1·7	38·7	36·2	4·5	7·8	3·1	85	65·9	28·2	46·7	0·002*	wP : wP : wP, wwP	5·3	7·8
30	29·440	50·7	37·8	12·9	46·7	+ 7·8	45·2	43·6	3·1	6·3	0·8	90	53·0	30·2	46·7	0·418	..	0·0	7·8
31	29·515	45·4	36·4	9·0	40·1	+ 1·4	37·8	34·8	5·3	9·5	3·0	82	75·0	29·7	46·3	0·078	.. : mP, wP	1·8	7·8
Means	29·801	47·6	39·2	8·4	43·6	+ 3·7	42·1	40·3	3·3	6·3	1·3	88·9	60·6	32·9	47·6	Sum 2·741	..	1·4	7·9
Number of Column for Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

The results apply to the civil day, except Columns 20 to 23 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named to dawn of the following day.

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

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

*Rainfall (Column 16). The amounts entered on December 7, 8, 9, 10, 18 and 29 are derived from fog, frost, or dew.

The mean reading of the *Barometer* for the month was 29^{in}·801, being 0^{in}·016 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°·6 on December 1; the lowest in the month was 29°·0 on December 11; and the range was 26°·6.
The mean of all the highest daily readings in the month was 47°·6, being 3°·4 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 39°·2, being 4°·2 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 8°·4, being 0°·8 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 43°·6, being 3°·7 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1924.	Record of the Night Sky. Polaris. Duration.	Polaris. Fraction of Total Exposure.	δ Ursae Minoris. Duration.	δ Ursae Minoris. Fraction of Total Exposure.	Wind as Deduced from Self-Registering Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Dec. 1	1·5	0·11	1·2	0·09	SSE	SE : Calm	2·0	0·08	219	1, sh : 1 : p.-cl, cu.-s	2 : 9, slt.-d, m : 8, d
2	0·0	0·00	0·0	0·00	Calm	Calm	0·2	0·00	100	9 : 10 : 10, s, r	10,p.-so.-ha : 10, slt.-sh : 10, slt.-m
3	1·8	0·14	1·2	0·09	Calm : NW	WNW : WSW	0·6	0·03	185	10, m, h : 10, m : 10,oc.-slt.-m.-r,m	10, n : 10 : 10, oc.slt.-m.-r
4	2·2	0·16	1·8	0·14	WSW : Calm : SE	SSE	5·3	0·34	301	6 : 6 : 10	10, r : 10, r, m.-r, w
5	10·2	0·77	10·0	0·75	S : SW	SSW	4·7	0·82	535	10, slt.-r,w : 3, w : 2, cu, w	1, cu : 0 : 2
6	13·1	0·95	12·9	0·94	SSW : SW	WSW : SW	4·0	0·26	374	8, sh : 2 : 1	1 : 1
7	11·7	0·85	11·0	0·80	S	S : SSE	1·3	0·06	249	1, ho.-fr : 1 : p.-cl	8 : 5 : 8
8	6·2	0·45	4·5	0·33	SSE	SE : ESE	1·1	0·06	223	8, hy.-d : p.-cl : 10, s, n	10 : 9 : 8, lu.-ha
9	5·6	0·41	4·2	0·31	SSE : Calm	Calm	0·8	0·01	115	9, slt.-ho.-fr : 9 : p -cl, m	1, m : 0, m, ho.-fr : 0,ho.-fr,m,f
10	0·0	0·00	0·0	0·00	Calm	Calm	0·0	0·00	51	tk.-f : tk.-f	tk.-f : tk, f
11	0·0	0·00	0·0	0·00	Calm	Calm	0·0	0·00	71	tk.-f : tk.-f	tk.-f : tk.-f : f, m
12	0·0	0·00	0·0	0·00	Calm : SW	SW	0·1	0·00	146	10, f, m : 10, slt.-m : 10, slt.-m	10 : 10
13	3·1	0·22	3·0	0·22	SW : SSW	SSW : S	1·7	0·13	287	10 : 10	10 : 10, r
14	12·5	0·91	12·4	0·90	SW	SW	0·8	0·07	279	8 : 1 : 0, h	1, th.-cl, h : 0
15	0·3	0·02	0·1	0·01	SSW : S	S : SSW	3·9	0·27	343	0, slt.-ho.-fr : 7, sh : 10, fq.-r	10, r : 10, r
16	1·1	0·08	0·4	0·03	S	Calm : N	1·3	0·04	172	10, fq.-r : 10, oc.-slt.-r : 10, s, n, shs	9, shs : 8, slt.-shs : 10
17	10·5	0·76	9·8	0·71	Calm	SSW	0·3	0·01	159	10 : 10, m : 10, f, m	2, m : 8, m : p.-cl, th.-cl
18	2·8	0·21	2·2	0·16	SSW	SSW	2·1	0·19	329	1, lu.-ha, d : 7 : 6, cu	9, cu : 9 : 8
19	2·0	0·14	1·6	0·11	SSW	SSW	1·5	0·13	283	9 : 9, slt.-sh : 10,s,n,fq.-slt.-m.-r	10, fq.-slt.-m.-r : 10, fq.-slt.-m.-r : 10, slt.-m.-r
20	1·7	0·12	1·3	0·09	SSW	Calm	0·3	0·00	142	10 : 2 : 1	1, slt.-h : 2 : 10
21	0·0	0·00	0·0	0·00	Calm	Calm	0·2	0·00	89	10 : 10, m.-r	10, n : 10
22	10·7	0·76	9·4	0·67	S : SSW	SSW	1·6	0·10	235	10 : 10	1, d : 0, ho.-fr, h
23	4·3	0·31	2·9	0·21	SSW : S	SSW	8·0	0·79	505	9, w : 8, w : 9, r, w	10, s, n, r, w : 10, r : 10, r
24	7·6	0·54	4·2	0·30	SW : SSW	SSW	11·5	0·68	516	8, : 8, r.-sq : 7, sh	10 : v.-cl : 9, r
25	12·7	0·91	10·5	0·75	SSW	SSW : S	2·7	0·30	369	10, r : v.-cl, sh : p.-cl, cu, ci.-s	p.-cl : v.-cl : 8
26	6·3	0·45	5·9	0·42	SSE : SSW	SSW	4·1	0·54	440	1 : 2 : 9, oc.-slt.-m.-r	5, cu.-s : 1 : 1
27	5·0	0·37	4·6	0·33	SSW	SSW : SW	14·0	1·93	695	9, st.-w : 10, r, st.-w : 10, r, st.-w	10, r, st.-w : 10, r : 6
28	11·5	0·84	10·8	0·78	SW	SW	3·2	0·28	386	p.-cl : 2, sh : 1	p.-cl : 2 : 1
29	3·2	0·24	2·6	0·19	SW : WSW	SW : SSW	6 8	0·20	359	1, ho.-fr : 1, ho.-fr : 1, h	1, ci.-s, h : th.-cl, tk.-h : 9, cu, w
30	11·1	0·81	10·9	0·80	SSW	SSW : WSW : SW	12·3	1·76	652	10,slt.-r,w,st.-w : 10,r,slt.-r,st.-w : 10, slt.-r, st.-w	10, r, hy.-r, st.-w : 0
31	6·5	0·47	5·5	0·40	SSW	SW	19·5	0·50	474	0 : 7, w, sh	6, hy.-sq, hl, w : 0 : v.-cl
Means	..	...	..	..	..	..	..	0·31	299		
Number of Column for Reference	20	21	22	23	24	25	26	27	28	29	30

The mean *Temperature of Evaporation* for the month was 42·°1, being 3°·6 *higher* than
The mean *Temperature of the Dew Point* for the month was 40°·3, being 3°·6 *higher* than
The mean *Degree of Humidity* for the month was 88·9, being 0·3 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·250, being 0in·032 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·9, being 0grs·3 *greater* than
The mean *Weight of a Cubic foot of Air* for the month was 548 grains, being 4 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 6·8.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·184. The maximum daily amount of *Sunshine* was 5·3 hours on December 29.

The highest reading of the *Solar Radiation Thermometer* was 87°·0 on December 1 and 5; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°·0 on December 9.

The *Proportion of Wind* referred to the cardinal points were N. 0, E. 2, S. 16, W. 7. Six days were calm.

The *Greatest Pressure of the Wind* in the month was 19·5 lbs. on the square foot on December 31. The mean daily *Horizontal Movement of the Air* for the month was 299 miles; the greatest daily value was 695 miles on December 27; and the least daily value was 51 miles on December 10.

Rain (0in·005 or over) fell on 16 days in the month, amounting to 2in·741 as measured by gauge No. 6 partly sunk below the ground; being 0in·914 *greater* than the average fall for the 65 years, 1841–1905.

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

MAXIMA.		MINIMA.		MAXIMA.		MINIMA.		MAXIMA.		MINIMA.	
Greenwich Civil Time, 1924.	Reading.	Greenwich Civil Time, 1924.	Reading.	Greenwich Civil Time, 1924.	Reading.	Greenwich Civil Time, 1924.	Reading.	Greenwich Civil Time, 1924.	Reading.	Greenwich Civil Time, 1924.	Reading.
January.		January.		May.		May.		September.		September.	
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
		2. 21. 0	29·756	1. 22. 0	29·645	3. 4. 0	29·428	18. 23. 30	30·014	20. 22. 40	29·283
5. 10. 0	30·159	9. 6. 0	28·954	4. 12. 5	29·801	7. 9. 0	29·440	21. 12. 0	29·574	22. 7. 0	29·353
11. 18. 30	29·668	12. 5. 0	29·579	9. 21. 0	30·010	12. 3. 30	29·565	22. 20. 40	29·619	24. 0. 20	29·301
12. 18. 0	29·745	14. 0. 0	29·432	13. 21. 0	29·931	14. 10. 0	29·821	24. 21. 0	29·561	25. 15. 0	29·448
14. 21. 0	29·520	16. 13. 0	29·360	17. 7. 0	30·139	19. 4. 30	29·526	28. 8. 30	30·166	30. 16. 30	29·297
17. 20. 5	29·696	19. 8. 0	29·309	22. 13. 0	29·752	24. 13. 0	29·217				
21. 1. 0	29·886	22. 16. 10	29·721	27. 21. 0	29·965	29. 18. 0	29·550				
23. 22. 0	30·031	24. 21. 5	29·917	30. 22. 0	29·764			October.		October.	
26. 9. 50	30·466	27. 3. 30	30·256					1. 22. 30	29·676	3. 14. 0	29·524
27. 21. 10	30·401	30. 3. 0	30·132					4. 12. 20	29·672	5. 22. 0	29·339
				June.		June.		6. 9. 0	29·611	6. 23. 10	29·406
						1. 0. 0	29·519	7. 11. 0	29·676	8. 9. 0	29·241
February.		February.		3. 7. 5	29·994	4. 20. 0	29·704	9. 14. 0	29·902	11. 3. 0	29·676
2. 0. 5	30·375	6. 3. 0	29·738	6. 8. 0	30·007	8. 4. 0	29·710	14. 11. 0	30·276	16. 16. 0	30·068
7. 0. 0	29·880	9. 13. 0	28·854	9. 8. 20	29·853	12. 4. 0	29·278	17. 22. 0	30·171	19. 23. 0	29·576
9. 23. 0	28·992	10. 15. 0	28·913	14. 10. 40	30·132	17. 19. 0	29·544	20. 21. 0	29·707	22. 1. 0	29·460
12. 7. 0	29·348	12. 22. 30	29·235	25. 9. 0	30·136	27. 17. 0	29·833	23. 10. 0	30·274	26. 15. 30	29·361
15. 4. 0	30·172	15. 20. 20	30·076	28. 11. 0	29·930	30. 3. 0	29·686	27. 8. 0	29·509	27. 18. 0	29·394
17. 0. 30	30·440	18. 15. 0	29·845					29. 4. 30	29·664	29. 22. 40	29·250
20. 11. 0	30·123	21. 15. 35	30·002					30. 7. 0	29·384	31. 7. 0	29·299
23. 11. 5	30·267	25. 4. 40	29·694	July.		July.					
27. 1. 40	30·155	28. 1. 0	29·803	1. 4. 40	29·882	3. 18. 20	29·080				
28. 20. 40	29·908			8. 7. 30	29·938	9. 5. 0	29·770	November.		November.	
				11. 7. 0	30·029	12. 18. 0	29·665	1. 11. 0	29·569	1. 21. 0	29·300
				14. 10. 0	30·168	16. 16. 0	29·648	4. 21. 0	30·137	5. 16. 0	30·038
March.		March.		17. 5. 0	29·744	17. 22. 0	29·313	7. 0. 0	30·280	10. 4. 0	29·687
		3. 3. 0	28·862	20. 9. 0	29·839	22. 17. 0	29·621	12. 21. 0	30·141	15. 5. 0	29·934
7. 11. 0	30·335	10. 5. 0	30·003	25. 10. 0	29·829	26. 2. 0	29·660	17. 10. 0	30·385	18. 16. 0	30·288
12. 10. 0	30·230	16. 13. 20	29·761	26. 22. 0	29·911	29. 4. 0	29·247	19. 11. 0	30·404	27. 4. 10	28·920
17. 9. 0	29·945	21. 13. 0	29·442	31. 22. 0	29·852			28. 10. 0	29·504	29. 2. 0	29·391
22. 0. 0	29·546	23. 23. 40	29·033					29. 11. 0	29·546	30. 12. 55	29·403
23. 21. 0	29·169	25. 6. 0	29·068								
31. 9. 0	30·086			August.		August.					
						2. 7. 0	29·621	December.		December.	
				3. 11. 0	29·818	4. 3. 0	29·606	1. 0. 0	29·536	2. 16. 0	28·976
April.		April.		9. 9. 10	30·273	12. 16. 10	29·478	4. 10. 0	29·663	5. 3. 40	29·420
		3. 15. 50	29·916	15. 13. 0	29·740	17. 23. 0	29·112	7. 0. 0	30·328	9. 1. 0	30·088
5. 8. 30	30·067	9. 11. 5	29·349	18. 22. 0	29·414	20. 18. 0	29·309	10. 9. 0	30·240	11. 18. 0	30·124
9. 23. 30	29·440	10. 15. 0	29·288	25. 13. 0	30·004	27. 6. 0	29·752	12. 11. 0	30·202	14. 2. 0	29·620
11. 19. 30	29·544	12. 13. 20	29·123	28. 9. 0	29·863	30. 15. 0	29·492	15. 1. 40	29·798	16. 0. 0	29·348
13. 12. 0	29·554	14. 13. 30	29·252					17. 21. 0	30·127	18. 16. 0	30·051
19. 22. 30	30·348	26. 17. 40	29·250	September.		September.		20. 10. 40	30·371	24. 4. 35	29·638
27. 7. 0	29·490	27. 16. 40	29·150	2. 23. 50	30·040	9. 11. 20	29·202	25. 19. 0	29·760	27. 15. 0	29·012
28. 0. 50	29·433	28. 8. 30	29·294	10. 16. 0	29·782	11. 16. 0	29·591	29. 17. 0	29·870	30. 14. 30	29·249
29. 10. 10	29·424	30. 18. 0	29·279	15. 8. 20	30·022	17. 3. 0	29·697	31. 2. 0	29·561	31. 12. 0	29·408

The readings in the above table are accurate, but the times are occasionally liable to uncertainty, as the barometer will sometimes remain at its extreme reading without sensible change for a considerable interval of time. In such cases the time given is the middle of the stationary period.

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

The height of the barometer cistern above mean sea level is 152 feet; no correction has been applied to the readings to reduce to sea level.

HIGHEST and LOWEST READINGS of the BAROMETER in each Month for the YEAR 1924.

	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.....	30·466	30·440	30·335	30·348	30·139	30·136	30·168	30·273	30·166	30·276	30·404	30·371
Lowest	28·954	28·854	28·862	29·123	29·217	29·278	29·080	29·112	29·202	29·241	28·920	28·976
Range	1·512	1·586	1·473	1·225	0·922	0·858	1·088	1·161	0·964	1·035	1·484	1·395

The highest reading in the year was $30^{in.}\cdot466$ on January 26. The lowest reading in the year was $28^{in.}\cdot854$ on February 9. The range of reading in the year was $1^{in.}\cdot612$.

MONTHLY RESULTS of METEOROLOGICAL ELEMENTS for the YEAR 1924.

MONTH, 1924.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR. Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean of the Daily Ranges.	Monthly Mean.	Excess of Mean above the Average of 65 Years.	Mean Temperature of Evaporation.	Mean Temperature of the Dew Point.	Mean Degree of Humidity. (Saturation = 100.)
	in.	°	°	°	°	°	°	°	°	°	°	
January	29·786	52·0	25·9	26·1	44·6	36·3	8·3	40·8	+ 2·2	39·4	37·5	88·5
February	29·864	50·5	21·2	29·3	41·9	32·9	9·0	37·3	— 2·2	35·3	32·2	81·7
March	29·709	58·9	25·1	33·8	49·5	32·6	16·9	39·8	— 2·1	36·6	32·3	75·1
April	29·700	75·6	27·6	48·0	55·4	38·7	16·7	45·9	— 1·4	42·3	38·2	75·5
May	29·712	79·3	36·1	43·2	66·1	46·6	19·5	55·1	+ 2·0	50·9	47·0	74·8
June	29·840	81·7	41·6	40·1	70·2	50·4	19·9	59·3	— 0·1	54·5	50·3	72·7
July	29·723	88·8	44·0	44·8	73·8	51·8	22·0	61·6	— 1·1	56·4	52·1	71·8
August	29·681	79·9	45·6	34·3	69·7	51·5	18·3	58·8	— 2·8	55·2	52·0	78·5
September	29·675	71·7	38·7	33·0	65·3	51·0	14·2	57·4	+ 0·2	54·3	51·4	80·8
October	29·742	68·7	33·1	35·6	58·4	45·6	12·8	51·5	+ 1·5	49·5	47·5	86·5
November	29·892	60·0	25·2	34·8	50·8	40·5	10·3	45·7	+ 2·2	43·8	41·6	85·9
December	29·801	55·6	29·0	26·6	47·6	39·2	8·4	43·6	+ 3·7	42·1	40·3	88·9
Means	29·760	Highest 88·8	Lowest 21·2	Annual Range 67·6	57·8	43·1	14·7	49·7	+ 0·2	46·7	43·5	80·0

MONTH, 1924.	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 4 feet below the surface of the soil.	Mean Amount of Cloud (0-10).	RAIN. Number of Rainy Days (0·005 in. or over).	Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground.	WIND. From Osler's Anemometer. Number of Hours of Prevalence of each Wind referred to different Points of Azimuth. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Number of Calm or nearly Calm Hours.	Mean Daily Pressure on the Square Foot.	From Robinson's Anemometer. Mean Daily Horizontal Movement of the Air.
	in.	grs.	grs.	°			in.	h	h	h	h	h	h	h	h		lbs.	miles.
January	0·225	2·6	551	42·5	7·4	17	2·872	33	18	77	61	84	193	89	60	129	0·23	266
February	0·182	2·1	557	42·0	8·5	12	0·662	118	121	77	26	14	52	108	78	102	0·29	324
March	0·183	2·1	553	40·8	5·4	8	0·679	21	114	170	65	47	123	67	10	127	0·18	274
April	0·231	2·7	544	42·9	7·2	16	3·013	43	125	43	27	19	150	146	72	95	0·24	310
May	0·323	3·7	536	48·7	7·6	18	2·320	12	13	59	33	57	280	132	47	111	0·18	262
June	0·365	4·1	532	54·0	7·0	15	2·740	63	31	31	25	42	239	123	23	143	0·17	240
July	0·389	4·3	527	56·7	6·5	15	4·205	14	8	26	12	55	227	198	46	158	0·26	264
August	0·388	4·3	529	57·4	7·7	17	1·921	34	3	4	8	20	357	184	36	98	0·16	262
September	0·379	4·3	531	57·1	7·5	20	3·102	44	53	20	50	95	277	83	22	76	0·31	304
October	0·329	3·7	538	54·6	7·9	16	3·267	29	38	84	30	56	246	46	7	208	0·17	236
November	0·263	3·0	548	50·6	7·6	13	3·148	69	90	122	79	120	115	12	15	98	0·26	276
December	0·250	2·9	548	47·6	6·8	16	2·741	4	4	9	60	208	279	22	9	149	0·31	299
Sums	..	..	..	..	..	183	30·670	484	618	722	476	817	2538	1210	425	1494	..	..
Means	0·292	3·3	541	49·6	7·3	..	..	..	..	..	..	..	..	..	..	..	0·23	276

The greatest recorded pressure of the wind on the square foot in the year was 22·4 lbs., on October 30.
The greatest recorded daily horizontal movement of the air in the year was 695 miles, on December 27.
The least recorded daily horizontal movement of the air in the year was 51 miles, on December 10.

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

Hour, Greenwich Civil Time.	1924. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	29·735	29·894	29·702	29·726	29·715	29·840	29·725	29·690	29·679	29·733	29·895	29·807	29·762
1h	29·781	29·891	29·700	29·721	29·712	29·837	29·723	29·686	29·674	29·732	29·888	29·800	29·762
2	29·780	29·886	29·694	29·715	29·709	29·834	29·721	29·684	29·667	29·730	29·887	29·799	29·759
3	29·778	29·880	29·687	29·712	29·706	29·830	29·722	29·680	29·663	29·728	29·882	29·793	29·755
4	29·774	29·876	29·685	29·707	29·704	29·831	29·725	29·677	29·659	29·728	29·878	29·787	29·753
5	29·770	29·875	29·686	29·707	29·707	29·836	29·730	29·679	29·659	29·732	29·879	29·785	29·754
6	29·769	29·869	29·692	29·710	29·713	29·841	29·734	29·682	29·667	29·735	29·884	29·788	29·757
7	29·774	29·869	29·700	29·714	29·719	29·846	29·740	29·686	29·674	29·748	29·893	29·792	29·763
8	29·784	29·872	29·707	29·714	29·720	29·850	29·741	29·689	29·680	29·752	29·903	29·801	29·768
9	29·794	29·874	29·715	29·714	29·719	29·849	29·741	29·690	29·687	29·756	29·908	29·808	29·771
10	29·800	29·874	29·720	29·711	29·719	29·849	29·739	29·689	29·687	29·759	29·910	29·814	29·773
11	29·802	29·868	29·722	29·706	29·716	29·847	29·735	29·686	29·686	29·758	29·906	29·811	29·770
Noon	29·793	29·860	29·719	29·699	29·713	29·843	29·730	29·684	29·684	29·755	29·896	29·800	29·765
13h	29·786	29·850	29·713	29·691	29·712	29·840	29·726	29·679	29·681	29·749	29·890	29·790	29·759
14	29·782	29·842	29·710	29·681	29·708	29·836	29·720	29·675	29·676	29·744	29·884	29·788	29·754
15	29·784	29·835	29·704	29·673	29·706	29·831	29·713	29·671	29·671	29·741	29·880	29·790	29·750
16	29·786	29·836	29·703	29·669	29·705	29·828	29·708	29·668	29·670	29·739	29·881	29·795	29·749
17	29·787	29·840	29·708	29·668	29·703	29·826	29·702	29·668	29·669	29·741	29·886	29·801	29·750
18	29·789	29·850	29·715	29·673	29·703	29·830	29·702	29·669	29·671	29·745	29·892	29·809	29·754
19	29·791	29·855	29·722	29·682	29·706	29·834	29·705	29·675	29·678	29·745	29·894	29·813	29·758
20	29·793	29·858	29·729	29·694	29·715	29·841	29·710	29·684	29·682	29·745	29·896	29·814	29·763
21	29·795	29·860	29·732	29·701	29·721	29·850	29·719	29·687	29·682	29·743	29·897	29·814	29·767
22	29·794	29·860	29·733	29·704	29·720	29·855	29·724	29·686	29·679	29·740	29·899	29·814	29·767
23	29·793	29·860	29·730	29·706	29·722	29·854	29·725	29·685	29·676	29·736	29·901	29·814	29·767
24	29·789	29·860	29·730	29·706	29·717	29·751	29·725	29·683	29·669	29·734	29·900	29·808	29·764
Means 0h.–23h.	29·786	29·864	29·709	29·700	29·712	29·840	29·723	29·681	29·675	29·742	29·892	29·801	29·760
Means 1h.–24h.	29·786	29·863	29·711	29·699	29·712	29·840	29·723	29·681	29·674	29·743	29·893	29·802	29·761
Number of Days Employed	31	29	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.	1924. January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	39·6	36·6	36·2	42·0	49·8	54·2	55·4	54·6	54·4	49·5	44·7	42·8	46·6
1h	39·4	36·1	36·0	41·5	49·3	53·4	54·6	54·0	54·0	49·1	44·6	43·1	46·3
2	39·2	35·8	35·6	41·3	48·9	52·7	54·0	53·3	53·9	48·8	44·5	43·0	45·9
3	39·2	35·5	35·2	40·8	48·3	51·9	53·4	52·8	53·5	48·5	44·1	42·8	45·5
4	39·0	35·3	34·6	40·2	47·8	51·6	53·0	52·5	53·7	48·0	43·7	42·4	45·2
5	39·2	35·1	34·4	40·2	48·2	52·1	53·5	52·6	54·0	47·8	43·8	42·5	45·3
6	39·5	34·8	34·5	40·8	49·9	54·0	55·8	53·7	54·2	47·9	43·7	42·7	46·0
7	39·7	34·8	35·0	42·4	52·3	56·4	58·7	56·3	55·1	48·4	43·9	42·8	47·2
8	39·8	35·2	36·7	44·6	55·0	58·8	61·4	58·9	56·9	49·8	44·0	42·6	48·6
9	40·4	36·4	39·5	46·9	57·1	60·8	63·6	60·9	58·5	51·6	45·1	43·2	50·3
10	41·3	37·7	42·1	48·5	58·8	62·5	65·5	62·8	60·3	53·4	46·3	44·2	52·0
11	42·3	38·8	44·1	49·7	60·7	64·1	67·0	64·6	61·5	54·4	47·6	45·3	53·3
Noon	43·2	39·8	45·7	50·6	61·3	65·2	68·6	65·4	61·9	55·0	48·2	45·8	54·2
13h	43·7	40·1	46·7	51·6	62·5	65·8	69·7	65·7	62·4	55·9	48·4	46·3	54·9
14	43·8	40·2	47·3	52·6	62·7	66·7	70·1	66·1	62·4	56·0	48·6	45·9	55·2
15	43·3	40·3	47·5	52·8	62·4	66·7	69·6	64·9	62·2	55·7	48·1	45·3	54·9
16	42·3	39·9	46·4	51·8	61·1	66·1	68·7	64·1	61·5	55·0	47·4	44·3	54·0
17	41·7	39·1	44·4	51·2	60·0	65·3	68·0	62·8	60·1	53·6	46·8	43·8	53·1
18	41·2	38·6	42·2	49·2	58·6	63·6	66·5	61·4	58·5	52·6	46·5	43·3	51·9
19	40·8	38·0	40·2	47·3	56·5	61·7	64·4	59·5	57·2	52·1	45·9	43·2	50·6
20	40·7	37·5	38·9	45·5	54·5	59·7	61·9	57·8	56·2	51·5	45·6	43·1	49·4
21	40·4	37·3	37·9	44·4	52·9	57·5	59·7	56·6	55·6	51·0	45·5	43·0	48·5
22	40·1	37·1	37·0	43·5	51·7	56·2	58·0	55·9	55·0	50·5	45·1	42·9	47·8
23	39·8	36·9	36·5	42·9	50·9	55·0	56·7	55·1	54·7	50·0	44·9	42·9	47·2
24	39·5	36·4	36·2	42·5	50·2	54·0	55·5	54·5	54·4	49·3	44·6	42·5	46·6
Means 0h.–23h.	40·8	37·4	39·8	45·9	55·1	59·3	61·6	58·8	57·4	51·5	45·7	43·6	49·7
Means 1h.–24h.	40·8	37·3	39·8	45·9	55·1	59·2	61·6	58·8	57·4	51·5	45·7	43·6	49·7
Number of Days Employed	31	29	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.	1924. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	38·5	34·8	34·4	39·8	48·0	52·3	53·2	53·2	52·7	48·3	43·2	41·6	45·0
1h	38·4	34·5	34·2	39·3	47·5	51·7	52·7	52·8	52·3	48·1	43·1	41·7	44·7
2	38·2	34·2	33·9	39·1	47·3	51·1	52·3	52·2	52·2	47·7	42·8	41·7	44·4
3	38·1	34·0	33·6	38·9	46·9	50·5	51·8	51·7	51·9	47·3	42·5	41·5	44·1
4	37·9	33·8	33·0	38·6	46·5	50·1	51·4	51·4	52·0	46·8	42·2	41·2	43·7
5	38·1	33·4	32·8	38·5	46·8	50·5	51·9	51·5	52·4	46·7	42·3	41·1	43·8
6	38·3	33·4	32·9	38·9	48·1	51·7	53·5	52·4	52·7	46·8	42·3	41·4	44·4
7	38·5	33·5	33·4	40·1	49·7	53·2	55·3	54·1	53·3	47·3	42·4	41·3	45·2
8	38·7	33·9	34·9	41·7	51·1	54·4	56·6	55·6	54·4	48·4	42·6	41·2	46·1
9	39·3	34·7	36·7	43·2	52·3	55·4	57·6	56·6	55·3	49·8	43·3	41·8	47·2
10	39·9	35·8	38·3	44·0	53·3	56·4	58·4	57·4	56·1	51·0	44·2	42·6	48·1
11	40·4	36·6	39·5	44·6	54·1	56·9	59·1	58·1	56·6	51·5	45·1	43·3	48·8
Noon	41·0	36·9	40·5	45·0	54·2	57·5	59·8	58·5	56·5	51·6	45·5	43·6	49·2
13h	41·2	37·0	40·8	45·4	54·7	57·9	60·2	58·6	56·8	52·1	45·5	43·7	49·5
14	41·4	37·2	41·1	46·2	54·8	58·4	60·5	58·6	56·9	52·0	45·7	43·6	49·7
15	41·1	37·4	40·8	46·4	54·7	58·0	60·4	58·0	56·6	52·0	45·5	43·2	49·5
16	40·6	37·1	40·3	45·8	54·0	57·8	60·1	57·9	56·2	51·7	45·1	42·6	49·1
17	40·2	36·6	39·3	45·6	53·6	57·6	59·7	57·3	55·4	51·2	44·8	42·4	48·6
18	39·9	36·3	38·0	44·5	53·0	56·6	58·9	56·6	55·0	50·7	44·5	42·0	48·0
19	39·6	36·0	37·1	43·3	52·1	55·9	58·1	55·6	54·4	50·4	44·0	41·9	47·4
20	39·4	35·5	36·3	42·4	51·0	54·9	57·0	54·8	53·8	50·0	43·7	41·9	46·7
21	39·3	35·4	35·7	41·7	50·3	54·1	56·0	54·4	53·5	49·6	43·7	41·8	46·3
22	39·0	35·1	35·2	41·0	49·5	53·3	55·2	54·1	53·3	49·1	43·5	41·5	45·8
23	38·7	34·8	34·8	40·5	48·7	52·6	54·4	53·8	53·0	48·6	43·4	41·6	45·4
24	38·5	34·5	34·5	40·2	48·4	51·9	53·5	53·1	52·7	48·2	43·1	41·3	45·0
Means. 0h.–23h.	39·4	35·3	36·6	42·3	50·9	54·5	56·4	55·2	54·3	49·5	43·8	42·1	46·7
Means. 1h.–24h.	39·4	35·3	36·6	42·3	50·9	54·5	56·4	55·2	54·3	49·5	43·8	42·1	46·7
Number of Days employed	31	29	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.	1924. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	37·1	32·2	31·7	37·1	46·1	50·4	51·6	51·8	51·0	47·0	41·5	40·2	43·1
1h	37·1	32·1	31·5	36·6	45·6	50·0	50·9	51·6	50·6	47·0	41·4	40·0	42·9
2	36·9	31·8	31·3	36·4	45·5	49·5	50·6	51·1	50·3	46·5	40·8	40·1	42·6
3	36·7	31·7	31·1	36·5	45·4	49·1	50·2	50·6	50·4	46·0	40·6	39·9	42·4
4	36·5	31·5	30·4	36·5	45·1	48·6	49·8	50·3	50·3	45·5	40·4	39·8	42·1
5	36·7	30·7	30·1	36·3	45·3	48·9	50·3	50·4	50·8	45·5	40·5	39·4	42·1
6	36·7	31·1	30·2	36·5	46·1	49·4	51·3	51·1	51·2	45·6	40·6	39·8	42·5
7	36·9	31·4	30·8	37·3	47·1	50·2	52·2	52·0	51·6	46·1	40·6	39·5	43·0
8	37·3	31·9	31·3	38·3	47·4	50·4	52·5	52·6	52·1	46·9	40·9	39·5	43·4
9	37·9	32·2	33·1	39·0	47·9	50·7	52·6	52·9	52·4	48·0	41·2	40·1	44·0
10	38·1	33·2	33·7	39·1	48·4	51·2	52·6	52·8	52·5	48·6	41·8	40·7	44·4
11	38·1	33·6	34·1	39·2	48·3	50·9	52·8	52·7	52·4	48·7	42·3	41·0	44·5
Noon	38·4	33·2	34·6	39·2	48·0	51·2	52·9	52·9	51·9	48·3	42·5	41·1	44·5
13h	38·3	33·0	34·2	39·1	48·0	51·6	52·9	52·8	52·0	48·5	42·3	40·7	44·5
14	38·6	33·3	34·2	39·8	48·1	51·7	53·1	52·5	52·2	48·2	42·6	41·0	44·6
15	38·5	33·7	33·4	40·0	48·1	51·0	53·3	52·3	51·8	48·5	42·6	40·8	44·5
16	38·6	33·5	33·4	39·7	47·8	50·4	53·4	52·7	51·7	48·5	42·6	40·6	44·4
17	38·3	33·3	33·3	39·8	47·9	51·2	53·2	52·6	51·3	48·9	42·6	40·7	44·4
18	38·2	33·2	32·9	39·5	48·0	50·8	52·8	52·5	51·9	48·8	42·3	40·4	44·3
19	38·1	33·3	33·1	38·8	48·0	51·0	52·9	52·1	51·8	48·7	41·8	40·4	44·2
20	37·8	32·8	32·8	38·8	47·7	50·7	52·8	52·2	51·5	48·5	41·5	40·5	44·0
21	37·9	32·8	32·7	38·5	47·6	51·0	52·7	52·4	51·5	48·2	41·6	40·4	43·9
22	37·6	32·3	32·7	38·1	47·3	50·6	52·7	52·4	51·7	47·6	41·6	39·8	43·7
23	37·3	31·8	32·3	37·7	46·4	50·3	52·3	52·5	51·3	47·1	41·7	40·0	43·4
24	37·2	31·7	32·0	37·4	46·5	49·8	51·6	51·7	51·0	47·0	41·4	39·9	43·1
Means. 0h.–23h.	37·7	32·5	32·5	38·2	47·1	50·4	52·2	52·1	51·5	47·5	41·6	40·3	43·6
Means. 1h.–24h.	37·7	32·5	32·5	38·3	47·1	50·4	52·2	52·1	51·5	47·5	41·6	40·3	43·6

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.	1924. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
Midnight	91	85	84	84	87	86	86	90	89	92	89	90	88
1h	92	86	84	83	88	89	87	92	88	93	89	89	88
2	92	86	84	83	89	89	88	92	88	92	87	90	88
3	91	86	84	86	90	90	89	93	89	92	87	90	89
4	91	86	84	87	91	90	89	93	88	92	88	90	89
5	91	83	84	87	90	89	89	93	89	92	88	89	89
6	90	86	84	86	87	84	86	91	90	92	89	90	88
7	90	87	84	83	83	80	79	86	88	92	88	88	86
8	91	87	85	78	76	74	73	80	84	90	89	89	83
9	91	85	78	75	71	69	68	75	80	88	87	89	80
10	89	84	73	70	69	67	63	70	75	84	85	88	76
11	86	83	67	67	64	62	60	65	73	81	83	85	73
Noon	83	78	66	65	62	60	57	64	70	79	81	84	71
13h	81	75	62	63	59	59	55	63	69	77	80	82	69
14	82	76	60	63	58	59	55	62	70	75	80	84	69
15	83	77	58	63	59	58	56	63	69	78	82	85	69
16	87	78	61	64	62	59	58	66	70	79	84	87	71
17	89	80	65	65	64	60	59	70	72	84	86	89	74
18	90	82	71	69	68	63	62	73	78	87	86	90	77
19	90	83	76	73	73	69	66	77	82	88	86	90	79
20	90	84	80	78	77	72	73	82	85	89	86	91	82
21	91	84	82	79	83	79	79	86	87	90	87	90	85
22	91	83	85	81	85	82	82	88	89	90	88	89	86
23	91	83	86	82	86	85	85	91	88	90	89	90	87
24	92	84	85	83	88	85	87	90	89	92	89	90	88
Means. 0h–23h	89	83	76	76	76	74	73	79	81	87	86	88	81
Means. 1h–24h	89	83	76	76	76	74	73	79	81	87	86	88	81

TOTAL AMOUNT of SUNSHINE registered in each HOUR of the DAY in each MONTH as derived from the RECORDS of the CAMPBELL-STOKES SELF-REGISTERING INSTRUMENT for the YEAR 1924.

Month, 1924.	Registered Duration of Sunshine in the Hour ending 5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	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.
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		°
January	..	..	..	..	1·1	8·2	9·2	10·4	10·7	10·7	4·9	0·2	..	..	..	..	55·4	258·3	0·214	18
February	..	..	..	..	2·4	5·3	4·3	5·3	4·6	3·8	2·0	0·9	..	..	..	..	28·6	287·1	0·100	26
March	..	..	1·9	9·6	11·6	15·9	16·3	16·1	16.0	16·0	19·8	15·4	8·2	0·3	..	..	147·1	366·9	0·401	37
April	..	1·7	5·0	7·2	9·9	9·1	8·2	8·4	9·9	9·7	10·3	8·8	8·7	4·0	..	..	100·9	414·3	0·244	48
May	0·2	10·3	14·7	17·0	16·6	16·4	18·3	16·4	16·9	16.6	13·7	11·3	11·0	8·1	4·3	0·1	191·9	482·1	0·398	57
June	2·1	7·3	11·8	13·1	16·0	15·3	16·6	14·7	13·7	15·7	16·3	15·4	13·9	9·5	8·6	0·9	190·9	494·4	0·386	62
July	3·8	14·6	14·7	17·6	17·3	16·6	15·1	16·8	16·6	19·6	19·6	16·7	14·5	16·0	11·4	2·5	233·4	497·1	0·470	60
August	0·2	5·7	11·5	14·2	14·3	15·0	15·7	15·9	14·0	15·1	13·4	10·9	8·7	7·2	3·7	..	165·5	449·5	0·368	52
September ...	..	..	2·2	7·2	9·9	11·2	14·0	12·9	12·1	12·5	11·8	11·7	9·9	3·5	..	..	118·9	377·9	0·315	41
October	..	..	0·5	2·5	5·7	8·6	9·0	10·1	10·3	10·8	8·8	9·1	2·2	..	..	..	77·6	329·4	0·236	30
November ..	..	..	..	..	1·1	6·1	8·2	6·2	6·7	5·4	3·3	0·3	..	..	..	..	37·3	265·0	0·141	20
December ...	..	..	..	..	1·1	5·9	9·6	8·3	9·7	7·2	2·9	0·2	..	..	..	..	44·9	243·9	0·184	16
For the Year	6·3	39·6	62·3	88·4	107·0	133·6	144·5	141·5	141·2	143·1	126·8	100·9	77·1	48·6	28·0	3·5	1392·4	4465·9	0·321	..

The hours are reckoned from "apparent" midnight.

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE in the YEAR 1924.

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

JANUARY.

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

FEBRUARY.

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

MARCH.

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

APRIL.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	48·0	34·7	40·2	41·2	46·7	36·8	38·0	38·5	38·9	32·7
2	45·0	31·0	40·7	42·2	42·4	36·2	36·8	36·0	36·7	32·9
3	45·6	33·0	36·9	40·8	42·4	36·0	33·1	34·5	35·2	32·8
4	44·2	35·0	37·9	39·6	44·1	38·5	36·4	37·5	40·2	35·8
5	53·6	34·6	40·9	50·2	51·3	37·4	37·1	41·9	43·3	35·4
6	49·4	31·8	35·7	41·2	47·8	37·9	35·2	38·8	42·6	36·8
7	59·8	34·5	46·7	56·2	58·6	48·4	42·9	47·6	48·5	42·6
8	56·0	39·6	49·7	54·6	52·9	44·6	45·8	46·7	44·8	40·7
9	47·8	33·0	40·8	40·3	46·5	35·6	39·0	36·8	41·0	33·9
10	44·8	27·6	40·5	37·7	43·3	37·5	37·0	37·2	41·2	36·8
11	42·1	33·2	36·2	38·6	38·5	34·8	35·5	37·8	37·7	34·4
12	47·8	32·5	41·4	38·9	44·1	39·0	39·8	37·9	41·3	37·8
13	53·3	33·6	41·6	47·6	50·8	41·8	39·2	42·8	42·9	41·1
14	58·0	41·7	49·3	51·3	57·2	48·2	48·0	49·2	52·0	44·7
15	52·9	39·3	41·3	47·9	51·6	39·3	39·9	42·2	44·4	38·7
16	55·0	31·1	43·8	51·0	52·3	42·1	40·6	43·7	43·8	38·3
17	55·5	35·9	48·5	53·6	54·5	43·1	41·6	43·9	43·3	39·8
18	62·0	35·1	52·0	58·0	61·2	52·8	44·6	47·5	49·5	45·7
19	67·0	44·9	57·1	64·2	64·7	53·9	47·6	51·5	52·9	48·2
20	69·6	47·7	56·6	63·8	67·1	57·4	47·6	50·7	56·3	52·6
21	75·6	47·1	62·6	69·6	74·2	47·4	54·9	59·8	62·0	45·1
22	63·6	44·3	51·0	59·8	59·1	50·5	47·7	52·6	51·8	47·2
23	51·3	40·6	43·2	47·6	48·6	44·8	41·1	43·8	44·9	43·1
24	61·5	42·9	53·8	58·1	56·2	52·2	50·8	51·3	50·8	50·3
25	64·1	50·5	55·6	58·1	61·4	53·7	52·8	53·5	54·0	50·7
26	57·6	47·2	55·8	51·8	52·4	48·6	52·7	50·7	49·8	48·0
27	55·0	44·3	52·9	47·6	49·7	45·8	46·6	46·0	48·7	41·9
28	59·2	44·2	51·8	55·0	57·9	51·1	48·2	49·1	52·3	47·8
29	60·8	46·6	52·4	57·0	58·1	46·6	46·5	48·9	51·3	46·1
30	56·5	46·2	51·6	53·6	49·6	50·6	48·8	51·6	48·7	49·8
Means	55·4	38·8	46·9	50·6	52·8	44·4	43·2	45·0	46·4	41·7

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 Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	57·7	46·0	46·5	54·6	53·6	48·4	46·4	52·0	50·5	47·1
2	64·6	42·1	49·7	58·8	62·6	49·1	47·1	52·0	54·5	47·4
3	62·3	47·5	51·2	56·6	59·6	49·4	47·4	50·3	51·4	47·1
4	57·8	42·5	50·3	50·8	52·6	45·9	44·7	45·7	46·3	43·9
5	56·0	36·1	49·3	51·8	54·2	44·7	43·4	43·5	45·6	40·9
6	59·0	36·8	51·0	53·7	55·8	47·6	45·4	47·9	49·5	43·8
7	60·1	40·4	52·5	53·6	54·7	45·6	47·9	46·8	47·1	40·8
8	56·9	39·2	47·3	53·6	52·1	46·1	42·9	47·8	44·7	42·5
9	63·5	41·1	50·6	57·7	58·9	49·9	44·0	47·7	48·2	46·2
10	62·0	48·2	54·5	57·4	52·5	50·0	52·0	53·0	51·3	49·6
11	64·6	48·0	53·6	59·6	59·4	49·8	48·7	52·0	51·9	48·9
12	63·8	48·4	55·3	56·5	59·8	50·6	52·0	52·1	53·5	48·9
13	63·7	48·3	56·7	59·4	61·6	51·7	54·7	55·7	57·1	50·8
14	76·3	49·0	69·1	74·4	71·2	55·2	63·4	64·3	61·8	54·3
15	73·8	48·3	60·0	68·5	69·6	58·0	53·0	57·2	57·3	51·0
16	65·1	46·4	55·6	61·4	62·0	54·1	48·5	50·8	52·1	47·5
17	67·4	38·7	60·7	64·2	65·3	53·9	52·7	51·6	53·9	48·6
18	68·9	51·3	57·2	65·6	64·1	57·2	53·7	58·4	54·5	53·8
19	79·3	54·3	64·7	71·6	76·6	58·9	60·9	63·6	66·2	57·8
20	69·3	52·1	64·5	68·6	66·3	58·5	59·8	62·2	61·5	56·8
21	75·4	50·9	70·0	72·6	70·8	62·4	62·7	63·7	62·0	60·1
22	67·8	57·1	61·1	65·7	65·1	56·9	56·3	58·9	58·8	54·8
23	64·1	52·6	59·7	58·2	59·6	53·0	53·7	52·2	53·8	51·5
24	58·8	47·0	50·0	53·0	53·3	52·1	49·3	50·2	48·8	49·8
25	63·3	50·3	54·6	55·7	61·7	50·5	50·7	51·0	52·7	48·8
26	67·2	44·7	56·7	59·4	66·4	55·7	51·8	51·5	55·7	51·7
27	68·8	45·2	60·4	62·7	63·5	53·9	53·6	55·2	56·0	51·4
28	72·1	42·8	64·8	69·7	69·6	56·2	57·8	58·8	58·7	52·3
29	73·7	50·7	67·5	71·1	68·3	55·0	61·2	62·4	60·4	54·2
30	75·1	53·5	59·3	68·9	74·7	62·2	55·0	60·2	64·8	59·8
31	70·2	56·4	67·2	63·7	69·6	58·7	61·6	61·8	64·4	58·3
Means	66·1	47·0	57·1	61·3	62·4	52·9	52·3	54·2	54·7	50·3

JUNE.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	67·1	52·2	59·0	63·0	63·2	53·1	54·6	57·3	57·3	50·9
2	62·3	46·3	51·8	55·6	60·4	52·6	48·7	53·0	56·5	52·3
3	64·5	43·7	54·5	61·0	61·1	53·2	48·0	52·5	52·8	52·4
4	61·2	51·3	57·8	56·2	55·5	52·2	53·8	54·4	53·6	51·7
5	63·0	48·5	53·6	58·0	59·8	48·5	50·6	52·6	53·4	46·0
6	69·8	41·6	59·4	64·7	66·6	58·4	52·6	55·9	57·3	54·1
7	74·7	53·2	63·1	72·7	68·2	62·3	57·7	63·8	61·8	58·1
8	67·5	54·2	59·7	62·6	64·1	56·6	54·1	53·9	55·4	52·0
9	67·3	52·6	60·0	60·6	64·5	57·2	55·4	54·3	56·3	53·8
10	68·6	52·4	61·4	66·4	62·6	56·6	55·8	58·8	56·8	52·8
11	65·7	54·3	54·9	59·3	58·6	55·0	52·6	56·2	56·0	52·7
12	67·3	51·9	61·2	59·1	60·4	54·9	56·9	56·9	57·1	53·9
13	56·8	48·1	53·1	51·2	53·1	48·4	52·1	48·6	48·1	44·0
14	60·2	44·7	47·5	53·1	57·1	48·5	43·4	47·0	50·0	46·7
15	73·6	43·0	55·9	68·5	73·4	58·1	53·0	59·5	60·4	55·9
16	74·3	50·0	68·7	73·2	72·1	59·4	61·5	61·7	60·8	55·7
17	76·9	53·7	65·9	69·8	74·7	67·6	60·1	62·6	64·8	61·7
18	74·2	53·4	66·0	69·8	72·7	61·5	58·5	60·0	61·3	56·8
19	73·5	52·3	64·4	66·5	71·8	57·1	59·0	57·7	60·4	53·1
20	71·9	50·6	60·8	66·8	68·5	55·1	55·8	57·0	58·0	54·2
21	73·8	46·6	63·3	70·0	72·1	58·9	54·4	58·1	58·8	54·2
22	71·0	50·3	63·6	69·0	66·6	57·2	56·8	58·7	55·7	55·6
23	77·5	47·2	66·1	70·6	72·1	63·2	58·0	59·4	60·1	58·0
24	78·8	51·0	67·0	73·1	76·6	66·5	60·5	64·3	64·9	61·8
25	80·6	58·9	69·5	75·7	75·7	67·6	63·8	66·8	65·2	61·8
26	81·7	57·4	71·4	78·7	78·8	64·0	64·5	67·4	66·5	60·0
27	74·9	56·3	65·5	66·6	72·0	57·3	58·9	60·1	62·8	53·5
28	66·2	50·4	60·7	63·1	63·7	58·4	53·0	53·9	54·1	52·3
29	70·9	54·1	59·6	67·1	67·1	58·2	53·4	57·8	58·0	55·0
30	70·6	55·2	60·1	63·4	66·7	56·6	53·9	55·5	57·3	50·8
Means	70·2	50·8	60·8	65·2	66·7	57·5	55·4	57·5	58·0	54·1

JULY.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	71·4	44·0	62·2	66·4	67·8	54·6	52·8	55·0	55·9	48·7
2	72·9	53·4	59·8	67·6	67·9	57·7	58·0	60·0	59·3	54·7
3	67·8	55·3	58·6	65·5	59·7	57·5	56·5	58·5	58·7	53·8
4	70·4	51·4	60·8	67·6	66·0	58·2	53·9	57·2	58·6	55·6
5	70·0	51·3	65·0	65·3	65·5	55·6	56·0	56·5	56·3	53·6
6	72·0	52·9	61·7	66·2	70·7	57·5	54·7	56·0	59·2	53·4
7	72·8	51·2	61·6	66·2	69·8	60·2	56·3	59·5	60·5	56·6
8	78·9	54·7	64·8	71·8	77·5	60·7	58·7	62·2	63·9	57·1
9	78·8	53·7	61·3	72·2	77·2	64·6	57·9	61·2	63·9	61·7
10	80·2	52·8	72·4	77·2	77·6	60·9	62·6	65·9	65·3	58·0
11	83·0	54·8	67·9	79·7	82·0	65·3	62·4	66·7	65·8	61·8
12	88·8	55·9	79·9	85·6	86·5	74·2	68·5	70·6	70·2	66·7
13	76·8	59·4	68·1	71·7	72·3	61·8	59·8	61·9	61·5	55·0
14	79·2	50·7	68·0	72·9	78·0	61·9	59·1	59·2	62·2	56·0
15	81·1	49·4	72·4	75·1	78·1	63·0	57·8	61·3	64·2	58·0
16	79·4	55·3	66·5	70·2	76·7	63·6	59·8	63·8	63·0	57·0
17	68·2	52·9	63·5	62·0	60·8	54·5	55·1	53·2	55·0	54·3
18	70·2	49·9	58·2	64·0	70·1	59·8	53·4	55·7	58·8	54·1
19	74·0	53·5	61·7	68·0	69·6	59·6	56·4	58·8	57·8	55·0
20	78·1	47·6	65·3	70·5	74·6	61·2	59·5	61·0	62·9	57·3
21	70·4	57·6	62·5	64·6	69·0	58·6	61·3	62·4	64·0	56·0
22	74·4	50·5	64·3	70·5	61·2	57·2	58·8	61·2	60·0	55·6
23	71·7	52·7	62·5	66·8	68·7	60·8	58·3	59·6	60·8	56·9
24	67·8	55·1	59·6	63·8	62·9	58·9	52·7	55·0	55·8	51·7
25	67·6	52·2	61·5	65·8	60·5	53·9	52·7	56·4	54·9	53·7
26	68·2	51·0	58·5	59·1	61·3	51·0	54·8	57·2	54·7	51·0
27	72·7	47·1	58·9	64·5	67·0	58·3	53·9	54·8	56·9	53·8
28	60·2	54·3	57·7	59·0	58·0	57·4	57·3	58·0	57·4	56·6
29	73·1	47·7	62·6	67·6	60·5	55·7	59·1	60·8	58·6	55·6
30	73·2	49·4	58·4	68·6	69·0	64·4	57·8	62·2	63·2	59·4
31	73·2	53·2	64·1	71·2	72·5	61·4	59·0	62·9	63·6	58·4
Means	73·8	52·3	63·6	68·6	69·6	59·7	57·6	59·8	60·4	56·0

AUGUST.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	70·2	53·2	63·5	68·5	66·6	58·7	58·7	61·1	59·9	56·6
2	68·6	57·0	63·2	65·8	66·3	57·9	59·0	58·5	59·8	55·0
3	69·6	52·5	64·8	67·6	61·0	54·9	58·0	59·2	57·0	54·4
4	67·0	54·5	62·1	64·6	64·6	60·5	55·7	57·8	59·1	58·9
5	79·9	60·1	67·8	72·5	71·4	62·5	64·4	66·7	66·2	59·1
6	74·8	53·7	60·4	66·6	71·5	57·4	58·0	61·7	61·3	56·8
7	68·0	52·0	56·1	61·8	67·3	57·6	53·3	54·3	56·2	52·4
8	69·5	48·5	60·2	67·6	66·1	54·3	55·1	57·6	55·3	52·6
9	73·9	45·9	65·2	70·6	68·9	57·6	58·1	60·3	59·8	53·8
10	74·3	47·1	63·6	70·6	70·5	57·7	58·4	61·8	61·4	55·3
11	79·0	51·0	68·6	76·6	75·8	61·4	61·8	65·2	64·5	57·8
12	72·0	54·2	62·6	67·2	68·0	57·4	58·5	59·8	60·7	54·8
13	73·0	50·5	65·9	69·0	62·5	59·9	60·9	65·2	58·9	58·7
14	72·7	52·8	63·6	69·5	67·6	59·6	58·9	60·8	59·1	58·5
15	70·5	52·1	60·9	63·9	65·0	56·0	55·3	54·6	56·5	53·1
16	70·6	49·2	64·6	67·4	65·6	56·6	57·8	58·2	57·1	54·6
17	70·2	50·9	55·4	65·7	68·8	56·8	54·5	61·6	60·2	53·2
18	66·0	53·4	57·8	61·0	59·0	53·8	53·2	55·4	53·5	51·7
19	67·7	48·2	57·9	64·4	62·9	52·3	54·2	56·2	54·8	50·0
20	67·7	45·6	58·3	60·5	64·1	53·6	53·5	54·4	56·3	51·5
21	65·8	50·3	61·4	62·0	59·6	55·4	54·9	54·6	55·9	53·1
22	68·9	51·2	60·7	66·9	56·4	51·3	56·3	59·2	54·9	51·0
23	70·2	51·2	55·6	61·0	62·6	57·0	53·4	55·8	55·9	54·3
24	59·9	50·8	53·2	56·5	58·0	52·9	51·8	53·3	53·8	51·8
25	63·6	50·5	57·4	59·1	61·7	54·2	52·8	53·0	54·3	53·0
26	65·5	52·3	57·7	60·8	60·3	53·8	53·6	54·6	53·4	51·7
27	62·8	48·7	56·0	57·2	59·8	52·0	50·6	50·4	52·2	49·6
28	67·9	45·6	58·7	63·9	62·3	57·3	54·0	57·3	56·9	55·6
29	70·0	55·1	59·7	64·8	67·1	56·4	58·0	60·2	59·0	55·2
30	70·4	56·0	60·1	66·7	67·1	59·7	58·8	62·3	62·3	58·9
31	71·9	57·2	63·4	65·6	64·4	57·8	61·7	62·2	62·9	54·7
Means	69·8	51·7	60·9	65·4	64·9	56·6	56·6	58·5	58·0	54·4

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

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

SEPTEMBER.

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

OCTOBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	54·7	47·0	52·6	51·1	52·6	48·6	52·1	50·8	51·6	48·5
2	59·1	41·5	49·6	54·1	58·1	48·6	49·2	50·3	52·3	47·6
3	61·9	40·6	50·5	59·0	59·3	48·1	49·3	52·2	53·8	47·8
4	59·0	46·1	55·1	53·6	56·0	48·4	53·5	51·2	51·3	48·3
5	57·5	46·7	51·1	54·3	57·0	50·7	50·4	52·6	52·8	50·0
6	58·9	43·1	50·9	56·2	57·0	54·8	46·1	51·8	53·5	52·5
7	60·8	46·1	50·4	54·5	56·2	49·7	46·9	49·4	49·3	49·5
8	58·1	47·1	56·0	50·6	52·8	47·1	53·0	48·8	49·9	45·3
9	60·7	46·7	53·2	56·6	57·1	55·6	51·0	49·7	51·6	53·6
10	64·3	54·9	60·2	61·1	62·5	57·5	55·8	55·8	57·8	55·4
11	60·5	53·7	57·4	58·7	58·1	57·2	55·8	56·9	56·7	54·8
12	68·7	53·1	58·5	62·7	67·4	55·1	56·3	58·5	61·7	54·1
13	68·7	47·1	54·4	67·5	67·1	53·2	54·3	61·3	60·1	53·0
14	65·6	49·4	52·6	59·1	65·5	53·6	52·6	57·0	60·5	53·0
15	56·5	52·3	55·0	55·7	54·3	53·1	52·4	53·4	51·5	51·8
16	55·6	50·0	51·3	53·3	54·1	51·4	48·1	49·8	49·9	47·5
17	56·1	47·5	51·8	54·6	55·6	47·8	48·9	51·7	51·7	46·0
18	59·8	35·9	40·9	55·8	56·2	46·9	40·8	49·8	49·4	45·5
19	55·7	45·6	49·5	52·0	54·1	55·7	48·5	51·0	52·9	54·6
20	57·0	46·2	51·6	55·4	55·7	51·0	50·3	52·1	52·2	50·0
21	55·3	46·3	50·9	51·1	51·6	55·3	50·4	50·4	51·4	54·9
22	55·3	43·1	47·6	49·6	50·1	43·3	45·1	45·6	44·7	41·0
23	54·2	35·2	42·9	53·1	50·8	41·4	40·9	47·8	44·9	38·5
24	50·0	33·1	43·6	49·7	48·1	44·2	42·4	44·0	42·9	40·3
25	47·6	35·1	42·4	45·6	46·8	46·4	40·8	43·7	45·3	45·0
26	54·1	40·3	47·6	51·8	52·6	50·4	47·1	50·8	51·9	50·3
27	58·1	49·1	52·6	57·4	53·5	52·9	49·9	51·6	51·3	50·9
28	61·9	51·2	56·8	59·9	56·6	55·6	54·1	55·0	54·0	54·2
29	63·0	52·1	58·0	58·4	58·3	54·7	56·1	57·0	55·9	54·3
30	57·9	47·2	55·1	50·9	50·1	51·1	52·5	49·5	48·3	48·6
31	53·9	48·6	49·6	53·0	52·7	50·7	49·5	50·4	50·6	49·9
Means	58·4	45·9	51·6	55·0	55·7	51·0	49·8	51·6	52·0	49·6

NOVEMBER.

Days of the Month.	Dry Bulb Thermometers, 4 ft. above the Ground.						Wet Bulb Thermometers, 4 ft. above the Ground.			
	Maximum.	Minimum.	9h	Noon.	15h	21h	9h	Noon.	15h	21h
d	°	°	°	°	°	°	°	°	°	°
1	59·2	47·1	50·9	53·5	52·1	59·0	49·4	51·1	51·8	57·7
2	60·0	52·1	55·1	56·2	56·1	52·6	50·8	50·8	50·8	48·7
3	52·6	41·3	44·8	50·4	49·0	41·7	42·9	46·9	45·4	38·3
4	45·4	32·7	36·2	43·6	43·6	38·0	33·7	39·4	39·8	35·8
5	46·0	26·9	30·6	38·2	45·8	41·6	29·7	35·7	43·0	40·3
6	53·4	40·3	45·6	51·7	50·1	47·8	43·7	47·9	45·3	45·9
7	51·8	42·9	47·8	51·4	50·6	48·4	44·8	47·2	45·8	45·5
8	50·8	47·2	49·0	50·1	49·1	47·4	45·6	46·7	46·2	46·0
9	50·7	36·9	42·6	48·6	46·7	43·6	40·9	45·8	44·4	42·5
10	57·0	40·5	42·5	53·6	53·5	43·3	42·2	49·5	51·0	42·9
11	56·6	40·7	50·6	55·6	52·7	50·0	50·0	52·3	49·9	49·1
12	51·0	47·9	48·5	48·6	49·6	48·2	48·1	48·1	49·0	47·6
13	48·2	45·7	46·6	47·2	47·3	45·7	45·5	45·5	45·0	44·0
14	49·2	44·7	47·3	48·6	47·6	46·4	46·7	47·8	46·8	44·9
15	46·4	39·1	41·5	42·2	40·8	39·1	39·8	39·2	37·8	37·0
16	45·9	33·1	38·5	43·5	44·9	38·3	37·6	41·3	42·7	36·1
17	40·1	30·4	38·1	39·6	38·6	32·3	35·8	36·8	36·1	31·0
18	41·7	25·2	29·8	32·3	36·6	41·7	29·8	32·1	35·7	41·2
19	47·1	37·5	42·7	46·0	45·8	38·8	42·3	44·5	43·9	38·1
20	51·4	32·5	45·8	50·6	50·7	47·1	45·6	48·3	47·8	44·8
21	48·9	44·3	45·2	48·3	48·1	46·5	42·0	43·8	44·8	42·4
22	52·2	44·7	49·2	51·4	51·5	49·4	45·0	46·4	46·8	45·4
23	55·3	49·1	51·7	54·3	54·6	50·1	48·3	50·2	50·4	47·0
24	50·3	42·0	42·2	42·4	42·9	43·3	39·8	39·8	40·8	42·0
25	52·0	42·2	46·7	49·2	51·2	51·7	45·7	48·0	49·6	50·9
26	52·7	47·1	50·3	51·0	50·5	47·5	48·8	48·8	48·8	46·0
27	50·6	42·1	49·8	48·6	49·0	42·2	45·8	47·0	46·6	40·1
28	43·4	37·8	40·9	42·5	41·9	43·4	40·3	40·8	40·6	42·5
29	53·7	43·4	51·8	53·2	51·5	49·4	50·5	50·8	49·6	48·2
30	55·0	48·1	51·6	54·2	52·0	50·2	49·3	51·2	49·6	49·4
Means	50·6	40·8	45·1	48·2	48·1	45·5	43·3	45·5	45·5	43·7

DECEMBER.

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

AMOUNT of RAIN COLLECTED in each MONTH of the YEAR 1924.

Gauges partly sunk in the ground in the Magnetic Pavilion Enclosure. — Gauge Number.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Sums.	Height of Receiving Surface. Above the Ground.	Above Mean Sea Level.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
6	2·872	0·662	0·679	3·013	2·320	2·740	4·205	1·921	3·102	3·267	3·148	2·741	30·670	0 5	149 6
8	2·835	0·656	0·671	3·039	2·324	2·769	4·274	1·894	3·066	3·299	3·148	2·740	30·715	1 0	150 1
Number of Rainy Days (0·005in. or over). ..	17	12	8	16	18	15	15	17	20	16	13	16	183	..	..

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

Hour ending,	1924. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Mean for the Year.
h	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.
1	10·0	11·9	9·6	11·1	9·0	8·7	9·4	8·9	11·5	9·1	10·4	11·1	10·1
2	10·2	12·1	10·0	11·1	8·5	8·2	9·6	8·7	11·2	9·1	10·3	11·3	10·0
3	10·8	12·8	10·3	11·7	8·7	9·1	9·4	8·9	11·9	9·8	11·8	12·4	10·6
4	10·9	12·1	9·8	11·4	9·0	8·7	8·3	8·7	11·4	9·5	10·6	12·3	10·2
5	10·9	12·0	9·6	11·0	8·5	8·7	8·7	9·2	11·4	8·8	11·0	12·7	10·2
6	10·8	11·8	10·1	11·4	8·9	8·7	8·7	9·0	11·1	9·0	10·6	12·5	10·2
7	10·7	12·2	10·8	11·7	9·5	9·1	9·3	9·5	11·5	8·3	10·2	12·5	10·4
8	10·3	12·4	9·8	11·4	10·3	9·4	9·6	9·7	11·6	7·6	10·2	12·8	10·4
9	11·3	13·5	11·4	12·4	11·5	10·6	10·7	11·2	13·6	8·1	11·2	12·9	11·5
10	11·9	13·2	12·7	13·1	12·1	11·2	10·9	12·2	14·4	9·4	12·0	12·9	12·2
11	12·6	14·4	13·3	13·9	12·5	11·2	11·2	12·4	14·6	10·3	11·8	13·0	12·6
Noon	12·0	15·0	13·4	14·6	12·7	11·6	12·4	12·9	14·7	10·6	12·7	13·2	13·0
13h	12·1	15·2	13·0	14·0	13·1	11·1	12·5	14·0	15·6	11·4	12·8	13·9	13·2
14	12·0	15·6	13·8	15·0	13·8	11·9	13·9	13·9	16·0	12·2	12·8	14·3	13·8
15	11·7	14·6	13·7	15·0	13·8	11·2	13·6	13·8	15·2	11·3	11·9	13·4	13·3
16	11·3	15·5	14·8	16·5	14·7	11·9	13·7	13·6	14·8	11·2	12·0	12·8	13·6
17	10·7	15·1	13·5	15·9	13·3	11·2	12·7	12·6	14·0	10·1	12·0	11·9	12·8
18	11·2	13·9	12·4	15·9	12·6	11·3	12·8	12·5	12·4	9·9	12·4	11·6	12·4
19	11·5	13·7	12·2	14·1	12·2	10·8	13·6	11·6	11·6	10·4	12·7	12·3	12·2
20	11·2	13·3	11·1	12·8	10·9	9·7	12·1	10·2	11·0	10·1	11·7	11·4	11·3
21	10·5	13·1	10·6	12·4	9·4	8·6	10·5	10·0	11·1	9·7	11·6	11·5	10·8
22	11·0	14·2	9·8	12·3	9·1	9·6	10·9	10·3	11·8	10·2	11·6	13·1	11·2
23	10·7	13·4	8·8	11·1	8·8	8·8	9·7	8·7	11·2	9·8	10·7	12·0	10·3
Midnight	10·0	12·9	9·2	10·6	9·2	8·3	9·9	8·9	10·7	10·0	10·7	11·6	10·2
Means	11·1	13·5	11·4	12·9	10·9	10·0	11·0	10·9	12·7	9·8	11·5	12·5	11·5
Greatest Hourly Measures (1)	38	36	33	38	30	30	33	30	34	30	40	40	..
Greatest Hourly Measures (2)	29	28	26	29	24	24	26	24	27	24	31	31	..

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

MONTHLY MEAN VALUES of the ATMOSPHERIC POTENTIAL GRADIENT for every HOUR of the DAY.

Potential expressed in volts per metre above earth's surface.

Month. 1924.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean
	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.	v.
January...	225	208	195	190	195	190	207	238	292	315	312	308	305	305	320	303	307	300	303	305	305	292	268	235	268	
February	250	218	197	175	173	198	217	265	325	343	362	328	345	355	365	348	362	378	375	377	350	295	300	293	300	
March ...	213	197	170	167	168	177	198	250	305	318	310	320	317	318	307	310	315	323	335	322	308	300	273	227	269	
April ...	208	190	167	173	185	195	238	270	350	337	315	328	315	305	327	330	323	330	327	320	300	285	268	240	276	
May ...	178	157	146	158	171	181	219	281	296	275	249	252	197	224	240	235	269	283	282	290	261	234	221	191	229	
June ...	99	85	75	75	82	99	139	187	218	238	211	204	201	194	207	218	241	241	214	201	190	167	139	112	168	
July ...	119	99	92	99	95	109	139	177	197	187	184	177	167	177	180	180	177	177	173	177	173	156	146	133	154	
August ...	139	119	109	119	129	156	184	211	228	228	218	197	214	184	184	197	204	204	207	194	167	167	153	153	178	
September	126	112	99	88	88	82	112	143	153	156	163	160	177	177	173	190	194	204	204	180	170	160	146	126	149	
October...	129	119	116	122	122	136	143	160	167	173	180	187	177	184	177	190	173	184	177	170	163	156	146	129	158	
November	173	150	136	133	143	153	163	201	218	207	211	241	235	241	238	231	224	218	221	221	201	197	194	180	197	
December	153	146	139	136	139	156	146	159	153	160	173	194	184	190	204	214	207	201	197	187	177	167	163	153	171	
Mean ...	168	150	137	136	141	153	175	212	242	245	241	241	236	238	243	246	250	254	251	245	230	215	201	181	210	