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RESULTS OF THE MAGNETICAL & METEOROLOGICAL OBSERVATIONS

MADE AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR

1925

UNDER THE DIRECTION OF

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ASTRONOMER ROYAL.

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INDEX.

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INDEX.

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS IN TABULAR ARRANGEMENT:—

INDEX

ERRATUM: RESULTS OF MAGNETICAL OBSERVATIONS IN 1915.

Page E 9. TABLE XV.—Mean Diurnal Inequality for the Year. For 53·2 read 26·6.

GREENWICH MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1925.

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 1925, the staff employed in the Magnetical and Meteorological Department of the Royal Observatory consisted of William Moody Witchell, Superintendent; W. Stevens, G. F. Wells, H. F. Finch, and three computers. The computers employed during the year were :—L. C. Burridge, D. Oliver and Miss E. W. Clack.

The establishment of a new magnetic observing station at Abinger, Surrey, in the previous year necessitated additional staff. In March, 1924, Mr. W. Stevens was transferred from the Time Department with a view to becoming resident observer and assistant-in-charge at the new station. He took up these duties on September 1, 1924. At the same time Mr. H. F. Finch, who had been appointed to the permanent staff in March, was transferred to Abinger to assist Mr. Stevens.

§ 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 Magnetograph House, which was completed in 1914, reference should be made to the Greenwich Observations for 1915.

The 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* 1925.

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 xxii).

§ 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 1925 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 $-6''\cdot9$. 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 1925.

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.

Twelve observations of the moment of inertia of the deflecting magnet were made in the year. The mean observed value of log K was 2·44588 (C.G.S. units) at 0° C., and this value has been used in the reductions.

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 are 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 3·11γ, 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 $223{\cdot}2\gamma$ and $134{\cdot}8\gamma$ in the mean of 1925, 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 1925 was $3{\cdot}50\gamma$ per mm.

The base-line value of the instrument is determined by means of the absolute horizontal force observations together with the absolute and photographic declination determinations. The base line is steadily changing, owing to the gradual diminution of the moment of the magnet system. The mean daily rate of change of base-line value during 1925 was $0{\cdot}22\gamma$. 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 2γ. More recent comparisons of the mean change in base-line which occurs when changing the temperature at which the room is maintained in different seasons of the year, gives a value of 3γ per 1° C. When necessary the observations were corrected for temperature according to this latter 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.

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—

$$3239A\left[1-0{\cdot}0129\frac{x^2-\frac{1}{2}\rho^2}{R^2}-1{\cdot}782\,\frac{x^4-3x^2\rho^2+\frac{3}{8}\rho^4}{R^4}\;.\;.\;.\right]$$

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

In 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 uniform across the sheet. The variation in force is computed from the scale value observations as a quadratic function of the ordinate. The average value is $3{\cdot}2_\gamma$ 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.

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 300γ 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.

Following the principle thus defined, no days in the year 1925 are classed as days of great disturbance. Days of lesser disturbance in conformity with the list issued by the International Committee from De Bilt observatory, Holland, are May 4; June 24-25; August 22-23; September 1-2, 14-15, 21; October 21-22, 23-24; November 9. When two days are mentioned together, it is to be understood that the reference is usually to a series of 24 consecutive hours comprising parts of two consecutive civil days.

From the commencement on July 12 of the operation of electric train service on the section of the Southern Railway passing through Catford, continuous small disturbance of all traces, but especially of the vertical force trace, appeared during the working hours.

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 ot 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. In principle the days of disturbance are those selected by the International Committee, the limits of the trace being determined in consultation with the Director of Val Joyeux observatory.

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
		0·1773	68 24·6	1903	16 19·1	0·1852	67 1·2
1861	21 5·5						
		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	1925	13 9·9	0·1841	66 51·4

* 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. THE NEW MAGNETIC STATION AT ABINGER, NEAR DORKING, SURREY.

In anticipation of the approaching electrification of the south-eastern suburban section of the Southern Railway, several of the tracks of which pass within a mile of the Observatory, steps were taken in 1923 to establish a magnetic observing and recording station capable of being maintained in frequent contact with Greenwich, yet unlikely to be affected by electric traction then or in the future. Alternative sites were investigated and considered, the choice finally resting on a site on the northern slope of Leith Hill, in the county of Surrey. No railway track approaches, or is likely to approach, the spot nearer than $2\frac{1}{2}$ miles, and electrification of the lines in the neighbourhood is not contemplated at present. The distance on a straight line from the Royal Observatory is about 26 miles in a direction a little south of south-west. The geographical position is Latitude 51°11′·1 N., Longitude 0° 23′·2 W.; and the height above sea level is approximately 800 feet.

The buildings were erected and equipped during 1924. Absolute observations were commenced regularly early in April of that year, but continuous recording did not begin till December.

The buildings, equipment and general arrangement of the instruments are closely copied from those at Greenwich, except that the recording house is due east of the observing pavilion and is oriented at right angles to the direction adopted at Greenwich. The effect of this variation is that the relative orientation of the recording instruments from one another has been similarly altered, so that, for example, the horizontal force variometer is east of the declination variometer instead of north as at Greenwich; also the needles of the vertical force variometer point east-west instead of north-south.

A small power-house with storage battery and alternating generator for the supply of electric current required in lighting and heating is situated about 125 yards south of the pavilions.

It should be mentioned that in order to dispense with the necessity of continuously running an alternator in circuit with the storage battery, the illuminating lamps for the recording drums, and also the hourly-signal lamps are lit by *direct* current, special care being taken with the return circuit. Alternating current for heating the chamber or for general illumination is supplied as required, the alternating generator being started and stopped automatically by the thermostat at the same time as the heating circuit is switched in and out. Very considerable saving in running cost is effected by this device.

THE INSTRUMENTS AT ABINGER.

DECLINATION MAGNET FOR ABSOLUTE DETERMINATIONS.—A hollow cylindrical magnet with scale and collimating lens (by Messrs. Elliott Brothers) is used

in conjunction with a telescope (by E. R. Watts & Co.) mounted independently on the same pier. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to 1″ of arc. There are two azimuth marks, situated approximately 80 yards from the telescope, north and south, fixed in each case to the stem of a large tree. Frequent determinations of the azimuth of these marks are made by means of observations of Polaris, and the values are found to be substantially constant.

In observing Polaris, both direct and reflected view of the star is taken during each observation. Reflection is obtained from the surface of mercury contained in a shallow copper dish, error of level of the telescope being entirely eliminated by this means.

The magnet is suspended by tungsten wire, of diameter 0·02 mm. Frequent reversals are made to eliminate the collimation error of the magnet from the results and the position of torsional zero of the suspension wire is also frequently checked. 90° of torsion deflects the magnet about 3′ of arc.

ABSOLUTE HORIZONTAL FORCE INSTRUMENT.—A Kew-pattern unifilar magnetometer by Messrs. C. F. Casella & Co. (No. 181) is in use to determine absolute horizontal force.

Deflection observations are made at three distances, namely, 22·5 cms., 30 cms. and 40 cms. ; and at least six observations are taken each week. 37 observations of the moment of inertia of the collimator magnet were made during the year 1925. The mean observed value of log. K was 2·42573 until February 16. After removal of rust from the magnet the value was reduced to 2·42491 (C.G.S. units). These values have been used in the reductions.

ABSOLUTE INCLINATION INSTRUMENT.—An Earth Inductor by The Cambridge Instrument Co., of closely similar design to that at Greenwich (*q.v.*) is used to determine magnetic inclination. At least twelve observations are made each week.

THE DECLINATION VARIOMETER.—The magnet is a single short needle of chromium steel, 10 mm. long and 0·4 mm. in diameter. The mirror for reflecting a beam of light on to the recording drum is of platinised quartz, $2\frac{1}{2}$ mm. square, and is fastened by shellac to a small piece of stout aluminium foil. The foil is shaped above the mirror to form two small V hooks, by which it is hung on to the magnet. Rough adjustment is obtained by bending the foil ; and for fine adjustment recourse is made to the illuminating lamp, which has sliding attachment to a vertical wooden pillar capable of being fixed in any desired position in the room. A small mica damping vane is fixed to the foil below the mirror, and the needle is rendered aperiodic by adjusting brass damping plates on either side of the vane. The original phosphor-bronze suspension filament was found to exert a torsional couple approximately equal to ·094 of the magnetic couple produced by the earth's field in small deviations

from the mean position. Correction for the effect of this was incorporated in the adopted scale value. Subsequently a very fine quartz filament ·003 mm. in diameter was introduced in place of the phosphor-bronze, and the displacement produced by revolving the torsion head 360° was thereby reduced to a fraction of a minute of arc.

The general details of the recording mechanism correspond closely to those of the Greenwich instrument. The focussing lens is mounted in the side of the magnet chamber of the variometer, and a plane glass window admits light through the brass covering-cylinder. A base-line mirror similar to the magnet-mirror is mounted within the magnet chamber on a small brass prism resting on a shelf fixed to the back plate of the chamber in such a position that it is at the same height as the magnet mirror and about one centimetre to the right. Adjustment is obtained by two point-ended screws passing through the back plate and forming two of the supports of a three point system. The distance of the mirrors from the recording cylinder is such that the geometric scale value at the centre of the photographic sheet is 0′·610 per mm. As the beam is not normal to the drum, however, the scale value varies from 0′·605 at the top of the sheet to 0′·615 at the bottom. The corresponding mean value in magnetic force would be $3{\cdot}30_{\gamma}$ per mm. at the present time.

THE HORIZONTAL FORCE VARIOMETER.—In setting up this variometer the decision was taken to revert to the former Greenwich practice of recording horizontal force instead of the north component (recorded since 1915). The general construction of the instrument is in all respects similar to that of the declination variometer. The suspension filament is of quartz ·012 mm. diameter. The needle is adjusted to a position at right angles to the magnetic meridian by means of the torsion head in the following manner. Orientation marks have been drawn on the western wall of the room subtending successive degrees of azimuth at the centre of the variometer pier. An ordinary magnetometer distance-bar placed beneath the base of the variometer is by this means easily set at right angles to the magnetic meridian, and upon it is placed, about 25 cms. from the variometer, the usual carrier with a magnet mounted in position. A relatively strong magnetic field is thus imposed at right angles to that of the earth, and the torsion head is adjusted until the needle of the variometer is negligibly disturbed by the removal of the imposed field. The magnet is then transferred to the opposite side of the variometer, and the experiment is repeated. Any error due to imperfect correspondence of the centre of the distance-bar with the point of suspension of the variometer needle is eliminated by setting the torsion head to the mean position.

The scale value of the variometer is determined from the deflections produced electro-magnetically by passing measured current through a Helmholtz coil of 50 cms.

radius which envelopes the instrument. The factor for the coil is determined absolutely, by using the coil in the same manner (with the same circuit and ammeter) to deflect the needle of the declination variometer. The strength of the field necessary to produce the observed deflection is then computed, the horizontal force at the time being known.

The mean scale value for the year is 2·58γ per mm.

THE VERTICAL FORCE VARIOMETER.—This instrument is similar in general plan to that at Greenwich, but by an ingenious arrangement the length of the frame carrying the horizontal quartz fibre which suspends the magnet system is defined by quartz tubes.

The metal rods composing the sides of the frame pass through these tubes, and the ends of the frame are held, firmly compressing the ends of the tubes, by stiff springs. Alteration in temperature does not, by this means, give rise to a change in tension of the suspension thread, which different co-efficients of expansion would otherwise produce. The instrument was carefully adjusted at Greenwich for elimination of other temperature effects, in the manner explained in the detailed description given in the *Philosophical Magazine* (1904).

The degree of sensitivity to which the variometer has been adjusted is rather high and seems to be gradually increasing. The scale value is obtained as at Greenwich by electro-magnetic deflections. The radius of the coil used in these experiments is 30·15 cms. The mean scale value adopted in 1925 is 0·85γ per mm. It is sensibly uniform over the range allowed by the photographic sheet.

The general plan of working at Abinger is similar to that adopted at Greenwich for many years. It is found possible, however, to increase the number of absolute observations very considerably, and smoother base-line values are to be anticipated from this circumstance.

Following the tabulated Greenwich results, similar tables are given of the results of observations at Abinger during 1925, beginning, for each element, with the month in which a full connected series was first obtained. Plates showing the individual movements of the Abinger traces on the selected disturbed days are also given, but it has been considered unnecessary to repeat the descriptive notes on account of the close correspondence of movements at the two observatories.

§ 7. *Meteorological Instruments at Greenwich.*

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

$0^{in.}{\cdot}002$, 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 $0^{in.}{\cdot}05$, subdivided by vernier to $0^{in.}{\cdot}002$. 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°F. 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, in effect, 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, until broken on July 5, was Negretti and Zambra, No. 165157. After this date the thermometer, No. K2254, was substituted. 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.

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 106) are given according to both formulæ, and the least hourly measures omitted.

RAIN GAUGES.—During the year 1925 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 106 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

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

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. The most satisfactory suspension is found to be fine copper fuse-wire, with which both a steady zero and suitable sensitivity are obtained.

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 smoke-fuse 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.

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 35 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 this 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 pairs of concentric circles are photographically imprinted 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.

§ 8. *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 101 and E 102) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pages E 100 and E 101).

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 99 and E 106 is formed from the records of this gauge. In this numeration only those days are counted on which the fall amounted to or exceeded $0^{in.}\cdot 005$.

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 106 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 74 to E 97, and in the abstract table, page E 99, 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 regards 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,
August 30, 1926.

ROYAL OBSERVATORY, GREENWICH

Results of Magnetical Observations

1925

GREENWICH
MAGNETIC AND METEOROLOGICAL RESULTS 1925

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	16·0	16·2	16·8	16·5	16·4	16·0	16·0	16·0	16·8	17·5	19·0	20·0	19·8	19·7	18·3	17·8	17·3	16·8	16·3	16·0	15·3	14·8	15·2	15·5	16·9
2	15·7	16·0	16·0	16·3	16·2	16·0	15·8	15·4	15·0	15·8	17·0	18·6	19·3	18·4	17·5	17·0	17·0	16·8	16·5	16·0	15·8	15·6	15·8	15·8	16·5
3	16·0	16·3	16·6	16·2	16·6	16·2	16·4	16·0	16·0	16·5	17·0	18·0	19·8	19·3	18·0	17·3	17·0	16·8	16·3	16·0	15·2	15·4	15·0	16·0	16·7
4*	16·5	16·8	17·0	17·0	16·8	16·6	16·2	15·7	15·0	15·5	16·8	17·2	18·0	17·8	17·5	17·0	17·0	16·8	16·5	16·0	15·4	15·4	15·5	15·8	16·5
5	16·8	16·2	15·8	16·8	16·5	17·8	16·5	16·8	15·8	16·0	16·2	17·5	20·2	20·3	20·0	19·2	18·0	17·0	16·7	16·0	15·6	15·3	15·6	16·0	17·0
6	16·5	16·8	16·8	16·5	16·4	16·3	16·0	15·5	15·3	16·0	16·6	17·0	18·4	18·5	17·6	17·3	17·2	16·5	16·4	16·0	15·8	15·4	15·7	16·5	16·5
7	16·0	17·0	16·8	16·7	16·2	16·0	16·0	15·6	15·5	16·0	16·8	17·7	18·8	18·8	17·8	17·0	17·2	16·8	16·2	15·7	14·8	15·0	15·8	16·0	16·5
8	16·3	16·4	16·6	17·2	16·4	16·0	15·8	15·4	15·0	15·5	16·0	16·8	18·5	18·8	17·8	17·0	16·8	16·6	16·0	15·8	15·6	15·4	15·3	15·7	16·4
9	16·0	16·5	16·8	16·8	16·5	16·0	16·0	15·4	15·0	16·0	17·0	17·7	18·3	18·4	17·5	17·0	16·6	16·3	15·8	15·6	15·0	15·0	15·6	15·7	16·4
10*	16·2	16·5	16·6	16·6	16·4	16·0	15·4	15·0	14·3	14·8	16·0	17·4	18·4	18·7	17·6	16·6	16·6	16·0	15·4	15·3	15·2	15·0	15·0	15·5	16·1
11*	16·0	16·3	16·5	16·5	16·4	15·8	15·4	15·0	14·6	15·0	16·7	17·3	18·0	17·8	17·0	16·7	16·6	16·0	16·0	15·5	15·3	15·2	15·3	15·6	16·1
12	15·8	16·0	16·2	16·3	16·2	15·8	15·4	15·0	14·6	15·0	16·0	17·3	19·0	19·0	17·7	17·0	17·0	16·7	16·2	15·8	15·3	15·2	15·0	15·2	16·2
13	15·5	15·8	16·3	16·0	15·8	16·0	15·8	15·0	14·7	16·0	17·0	19·0	19·7	19·8	19·0	19·6	18·2	17·3	16·6	16·0	15·4	15·0	13·4	13·6	16·5
14	14·4	15·8	16·3	16·0	16·0	15·8	15·3	15·5	15·0	15·6	16·6	18·0	19·6	19·5	17·6	16·5	16·6	16·6	16·3	16·0	15·2	15·1	15·0	15·0	16·2
15	15·0	16·0	16·3	16·3	16·4	16·0	15·8	15·0	14·5	15·0	16·8	18·0	19·3	19·2	17·8	16·7	16·8	16·8	16·4	16·0	15·5	15·3	15·4	15·4	16·3
16**	16·0	16·0	16·2	16·2	16·3	16·2	15·7	15·0	14·8	15·5	16·7	17·5	19·0	19·3	18·4	17·7	18·3	17·8	18·3	16·0	6·4	8·8	12·0	16·0	15·9
17**	16·0	16·6	18·0	15·2	18·3	15·8	11·8	13·2	13·8	15·0	15·2	16·4	16·8	18·8	18·4	17·4	17·6	18·5	17·4	17·2	16·5	14·7	12·4	13·5	16·0
18	13·0	13·8	14·0	15·0	16·0	15·3	15·0	14·8	14·0	14·3	15·5	17·6	19·0	19·8	19·7	18·6	15·0	18·0	17·0	16·6	9·3	12·4	12·2	13·7	15·4
19**	14·6	13·8	14·0	14·0	14·6	14·5	15·2	15·0	14·0	15·0	16·5	18·0	19·2	19·2	19·8	14·7	16·5	16·8	15·6	11·3	9·0	4·5	1·5	4·5	13·8
20**	7·0	13·0	12·6	15·7	17·1	17·0	18·0	19·4	17·2	15·6	16·2	16·8	18·0	18·8	17·7	16·6	16·0	16·0	16·6	14·0	15·5	15·2	15·3	15·8	15·9
21	16·2	16·2	17·0	18·0	16·0	15·7	16·0	16·2	15·0	16·5	17·4	18·0	19·3	19·2	18·2	17·8	17·0	16·6	16·0	11·5	15·0	14·8	14·2	15·6	17·2
22	16·0	16·1	16·6	16·5	16·8	16·0	15·3	15·0	14·0	14·3	15·8	16·4	18·0	18·3	17·5	16·3	16·6	16·6	16·0	15·7	15·4	15·3	15·5	15·8	16·1
23**	16·2	16·6	16·8	17·0	16·4	15·2	15·2	14·8	14·2	14·3	15·4	17·8	19·0	19·6	18·5	18·3	19·6	17·5	16·8	16·2	16·0	11·0	9·7	13·2	16·1
24	15·0	17·5	16·6	16·2	16·2	16·7	15·8	16·2	15·6	15·2	15·2	16·0	(19·4)	(21·2)	(18·9)	(18·9)	(17·2)	(15·0)	(15·1)	(15·6)	14·6	15·0	15·2	15·7	(16·5)
25*	16·2	16·8	16·8	16·5	16·3	15·8	15·5	14·5	13·2	13·0	15·0	15·8	16·7	17·5	17·0	16·2	15·6	15·8	15·4	15·2	15·0	14·8	14·8	15·2	15·6
26	15·5	16·2	16·6	16·4	16·2	15.6	15·0	14·8	14·2	14·0	14·3	(15·0)	17·5	17·8	18·0	18·3	18·0	17·6	16·4	15·6	15·5	15·2	15·2	15·4	16·0
27	15·7	16·0	16·0	16·5	16·5	15·8	15·5	15·0	14·2	14·5	16·0	(16·5)	17·0	18·3	19·0	18·3	17·0	16·5	16·4	16·3	15·8	15·5	14·8	14·0	16·1
28*	14·4	14·8	15·0	15·6	16·0	15·2	15·0	15·4	15·0	14·2	14·2	14·4	(16·4)	17·5	18·3	18·0	17·0	16·5	16·0	15·5	15·0	14·8	15·0	15·0	15·6
29	15·3	15·8	16·0	16·0	16·0	16·0	15·7	15·2	14·0	13·2	14·0	15·4	17·2	19·0	19·0	18·0	17·2	16·4	16·0	15·6	15·0	15·0	14·8	15·0	15·9
30	15·2	15·3	15·6	16·4	16·4	16·3	16·5	15·8	14·5	14·5	15·6	17·0	17·3	18·0	18·3	17·6	16·6	16·2	16·2	16·0	16·0	15·0	14·0	15·2	16·1
31	15·6	15·6	16·0	16·5	16·3	16·2	16·2	15·7	15·2	14·2	15·0	16·0	17·0	18·0	18·2	17·7	17·0	16·2	16·0	15·8	15·5	15·2	15·0	15·2	16·0
Mean	15·4	16·0	16·2	16·3	16·3	16·0	15·7	15·4	14·8	15·1	16·1	17·2	18·4	18·8	18·2	17·4	17·0	16·7	16·3	15·5	14·7	14·4	14·2	14·9	16·1
Mean*	15·9	16·2	16·4	16·4	16·4	15·9	15·5	15·1	14·4	14·5	15·7	16·4	17·5	17·9	17·5	17·1	16·6	16·2	15·9	15·5	15·2	15·0	15·1	15·4	16·0
Mean**	14·0	15·2	15·5	15·6	16·5	15·7	15·2	15·5	14·8	15·1	16·0	17·3	18·4	19·1	18·6	16·9	17·6	17·3	16·9	14·9	12·7	10·8	10·2	12·6	15·5
February.										13° + Tabular Quantities.															Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	15·6	15·6	15·8	15·8	16·0	16·0	15·8	15·7	15·2	14·8	14·8	15·5	17·3	19·0	18·8	17·8	17·0	16·4	16·0	16·0	15·5	14·0	13·8	13·7	15·9
2	15·2	15·2	15·3	15·7	16·0	15·8	15·3	15·0	14·5	14·0	15·0	15·8	18·0	18·4	18·2	17·2	16·2	15·8	15·8	15·8	15·3	14·8	14·8	15·0	15·8
3*	15·2	15·3	15·8	15·8	15·5	15·2	14·8	14·6	14·2	14·4	15·6	15·6	17·0	17·6	17·7	17·0	16·0	15·6	15·2	15·2	15·2	14·8	14·8	13·8	15·5
4*	15·0	15·7	15·4	15·7	15·0	15·2	15·0	14·8	13·8	13·8	15·8	18·0	18·8	18·8	18·2	16·8	15·8	15·8	15·3	15·6	15·2	15·0	15·0	15·4	15·8
5	15·7	15·8	15·6	15·7	15·4	15·2	15·0	14·5	13·3	13·3	15·2	17·5	17·8	18·6	18·0	17·8	16·8	16·3	16·0	15·5	15·2	15·0	14·8	15·0	15·8
6	15·0	15·0	16·5	16·4	15·0	14·2	14·2	13·8	13·0	13·8	15·8	17·8	18·6	19·0	18·2	17·0	16·0	15·0	14·2	15·0	15·0	14·8	15·0	15·0	15·6
7	15·0	15·6	15·6	15·5	15·4	15·0	14·6	14·2	13·8	13·3	14·8	16·0	18·0	18·8	19·0	17·7	16·2	16·0	15·5	14·8	13·7	14·8	14·7	15·0	15·5
8**	15·2	15·4	15·8	15·8	15·7	16·0	14·8	14·0	13·2	12·7	13·8	15·9	17·9	18·6	17·9	16·9	17·3	16·8	15·5	14·7	12·3	10·8	7·9	3·7	14·5
9**	1·5	6·0	8·0	8·5	10·0	15·9	20·6	20·5	17·8	14·5	14·3	17·5	17·5	18·7	19·4	17·6	16·5	16·6	16·7	15·5	11·8	13·4	14·1	13·8	14·4
10	13·6	13·1	13·9	14·5	14·8	14·5	14·0	13·8	13·2	12·7	13·6	16·2	18·6	19·6	19·0	17·3	15·9	15·5	15·9	15·6	14·6	14·1	12·3	12·1	14·9
11	12·1	13·7	14·3	15·2	14·7	14·5	14·4	13·9	12·0	12·6	14·5	15·9	16·7	19·1	19·5	17·5	16·5	16·4	16·7	16·2	15·8	14·5	14·4	13·9	15·2
12	14·5	13·5	13·6	13·9	14·5	14·4	14·7	14·1	13·6	13·7	14·6	17·4	19·3	19·2	19·7	18·7	18·3	18·0	16·5	13·5	12·1	14·2	13·8	13·9	15·4
13	14·1	14·0	14·6	14·6	14·7	14·4	14·5	14·0	13·6	14·4	15·5	17·3	19·5	20·1	19·4	17·7	17·0	16·7	16·6	16·3	14·5	12·3	14·2	14·1	15·6
14	13·6	13·5	13·5	13·9	13·8	13·6	13·9	14·2	13·6	13·5	15·2	17·3	18·4	19·0	17·6	16·7	17·2	16·8	17·3	16·4	13·5	13·8	14·1	14·5	15·2
15	14·5	14·4	14·3	14·7	14·9	15·0	14·5	14·2	13·7	13·5	15·1	17·3	18·7	18·7	18·3	17·6	16·9	16·6	16·3	15·7	14·2	13·7	14·1	14·3	15·5
16	14·5	14·5	14·5	14·5	14·5	14·3	14·1	13·8	13·5	13·5	13·9	17·0	18·3	19·0	18·5	17·9	16·3	17·5	16·7	15·7	13·9	10·5	11·0	12·0	15·0
17	13·3	14·5	14·8	14·3	14·0	13·7	14·3	13·5	13·3	13·5	15·3	17·8	20·3	20·5	20·6	20·3	20·1	19·7	17·8	15·5	13·9	13·0	11·0	10·7	15·7
18	11·5	13·9	14·5	15·0	14·7	14·3	14·3	14·3	13·5	13·3	14·3	15·3	17·2	18·5	19·1	18·1	16·9	16·3	15·5	15·5	15·1	13·8	14·3	14·3	15·1
19	14·5	14·5	14·3	13·9	14·2	14·5	14·5	14·1	13·5	13·2	14·5	16·5	19·2	20·3	21·5	20·9	19·5	19·3	19·5	16·5	14·5	12·5	10·9	8·7	15·6
20	8·7	9·5	9·6	9·0	12·5	16·2	14·9	15·3	14·8	15·5	16·8	16·8	17·7	18·3	17·8	16·8	15·5	15·7	15·5	15·3	15·2	15·2	14·7	15·0	14·7
21*	15·5	15·7	15·5	15·3	15·1	14·7	14·7	14·5	13·9	13·8	15·1	17·0	18·5	18·5	18·3	17·0	16·1	15·5	15·3	14·9	14·7	14·7	14·8	15·1	15·6
22*	15·5	15·3	14·9	15·3	14·5	14·5	14·5	14·3	13·8	13·7	15·1	16·5	18·3	18·9	18·5	17·3	16·5	15·7	15·3	14·8	14·5	14·7	14·8	15·2	15·5
23*	15·5	15·5	15·7	15·7	15·3	14·9	14·5	13·9	13·0	13·0	14·1	16·5	18·5	18·5	18·3	16·5	15·5	15·5	15·3	15·0	14·5	14·5	14·8	14·9	15·4
24**	15·3	15·5	15·7	15·7	15·5	15·1	14·7	14·0	12·8	13·0	14·7	16·7	18·5	19·1	18·5	17·1	16·5	17·5	17·5	16·7	13·8	14·1	11·7	12·5	15·5
25**	14·3	13·8	16·3	14·1	13·7	13·3	14·5	16·5	17·5	17·7	19·2	20·5	20·5	20·2	19·5	17·5	16·0	15·5	15·0	14·5	14·5	13·7	14·3	14·5	16·1
26	14·8	15·5	15·5	15·5	15·2	14·7	14·3	13·7	13·1	13·3	14·5	15·9	17·5	17·9	17·5	16·3	15·7	15·5	15·5	15·3	14·8	14·5	14·5	14·5	15·2
27	14·7	15·0	15·3	15·1	15·0	14·8	14·5	14·0	13·5	14·1	15·5	17·5	18·5	18·5	18·1	17·3	16·5	15·7	15·5	14·8	14·7	14·5	14·5	14·3	15·5
28**	14·5	15·0	15·3	15·3	13·1	13·0	13·1	13·7	12·5	12·5	14·0	16·3	18·5	19·0	19·3	18·7	17·5	16·3	15·5	15·5	15·8	14·9	14·1	12·7	15·3
Mean	13·9	14·3	14·6	14·7	14·6	14·8	14·8	14·5	13·8	13·8	15·0	16·8	18·3	18·9	18·7	17·6	16·7	16·4	16·1	15·4	14·4	14·0	13·7	13·5	15·4
Mean*	15·3	15·5	15·5	15·6	15·1	14·9	14·7	14·4	13·7	13·7	15·1	16·7	18·2	18·5	18·2	16·9	16·0	15·6	15·3	15·1	14·8	14·7	14·8	14·9	15·6
Mean**	12·2	13·1	14·2	13·9	13·6	14·7	15·5	15·7	14·8	14·1	15·2	17·4	18·7	19·2	19·0	17·7	16·9	16·6	16·1	15·5	13·7	13·5	12·5	11·5	15·2

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

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

May. 13° + Tabular Quantities.

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

June. 13° + Tabular Quantities.

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

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

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

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

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

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

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	938	934	932	932	932	934	936	936	934	932	929	929	927	934	932	927	929	932	936	936	936	936	932	932	933
2	931	932	932	932	936	934	938	936	931	925	918	917	925	929	929	931	932	934	934	936	936	938	936	936	931
3	932	932	934	936	938	943	946	950	943	939	931	922	918	922	924	922	925	929	931	932	932	932	932	929	932
4*	929	929	931	934	936	938	939	936	934	931	929	925	925	923	925	926	930	933	933	930	928	930	933	933	931
5	933	935	933	933	933	937	958	947	940	933	923	918	912	909	909	911	919	926	926	930	928	933	933	930	929
6	930	930	933	935	937	937	937	937	935	932	928	923	918	923	926	926	926	930	933	933	933	933	937	940	931
7	935	937	937	937	937	940	944	942	937	930	923	919	924	929	931	931	929	931	931	931	941	934	933	931	933
8	931	933	931	931	934	938	940	941	938	933	931	924	920	931	936	938	938	938	934	934	936	934	933	934	934
9	934	934	936	938	940	941	941	941	941	936	931	927	929	931	933	934	936	936	938	938	940	940	938	938	936
10*	938	938	938	938	940	941	941	945	943	938	931	927	927	933	933	933	934	936	938	940	938	940	940	938	937
11*	938	938	938	938	940	941	941	941	938	927	920	917	924	929	934	934	934	936	938	938	938	936	934	934	934
12	934	938	936	938	938	941	941	941	938	927	920	917	918	923	932	939	939	939	939	941	941	939	939	939	935
13	939	937	935	939	942	948	949	953	951	929	918	916	921	921	928	913	920	927	934	934	934	932	932	928	933
14	928	928	928	932	934	935	937	935	930	921	914	907	914	923	934	935	934	932	934	935	935	935	932	934	929
15	925	925	925	918	918	921	914	902	904	907	906	900	914	922	935	936	931	933	933	936	936	936	935	933	923
16**	933	933	933	933	933	936	940	940	935	926	924	922	926	936	943	943	943	942	942	938	931	912	915	924	933
17**	926	929	956	954	950	954	924	926	922	917	912	912	915	915	919	919	922	922	914	922	922	933	924	919	926
18	919	922	926	931	924	922	924	926	926	921	915	908	907	908	914	917	921	926	929	929	943	919	926	917	922
19**	926	942	929	929	928	928	929	929	926	922	917	919	925	925	909	885	885	874	878	874	880	881	895	899	910
20**	927	927	927	920	920	923	906	904	906	909	908	902	895	902	913	916	909	909	916	929	923	923	925	923	915
21	920	920	920	923	930	934	934	941	934	927	916	909	909	909	915	925	923	927	923	934	930	930	930	925	925
22	923	923	925	927	929	934	932	930	930	927	927	920	918	920	923	925	927	927	930	932	932	932	932	930	927
23**	930	930	930	930	934	936	937	941	932	925	920	920	914	914	921	916	903	928	932	932	928	916	926	928	926
24	923	921	931	931	937	926	930	921	921	914	910	907	907	902	917	921	924	924	926	921	928	928	928	926	922
25*	924	926	928	928	930	931	931	933	930	917	910	909	910	917	919	924	928	928	928	930	930	930	930	930	925
26	930	928	930	931	935	937	938	942	942	935	928	928	919	921	921	924	917	921	928	928	926	928	931	931	929
27	931	931	931	933	935	935	938	938	931	921	917	916	918	924	927	931	932	932	929	927	927	929	931	932	929
28*	929	931	931	931	934	939	938	939	939	938	934	931	(929)	927	922	918	925	931	931	932	934	936	934	934	932
29	932	934	934	936	936	939	943	939	938	932	924	922	917	915	917	922	929	932	934	932	932	934	936	936	931
30	936	936	932	936	936	939	939	943	943	936	927	924	918	915	917	922	929	936	936	938	939	932	932	934	932
31	932	932	936	938	938	941	943	945	946	943	934	929	928	923	926	933	933	933	937	939	940	937	937	933	936
Mean	930	931	932	933	934	937	936	936	933	927	922	918	918	921	925	925	926	929	930	931	932	930	931	930	929
Mean*	932	932	933	934	936	938	938	939	937	930	925	922	923	926	927	927	930	933	934	934	934	934	934	934	932
Mean**	928	932	935	933	933	935	927	928	924	920	916	915	915	918	921	916	912	915	916	919	917	913	917	919	924
February.	17000 γ + Tabular Quantities (in γ).																								Mean.
1	933	935	937	939	940	944	946	947	949	946	940	930	921	916	914	930	937	937	940	937	932	928	930	937	935
2	932	933	933	935	935	939	940	942	942	933	926	923	921	923	926	930	932	930	930	930	933	933	933	935	932
3*	933	930	933	933	937	937	939	940	939	933	928	923	923	923	923	926	928	930	932	933	933	930	939	939	932
4*	935	935	937	937	939	939	940	942	939	928	919	919	922	926	927	933	934	934	934	934	938	936	936	938	933
5	936	934	938	938	940	941	943	945	941	934	924	922	922	920	920	924	929	933	934	934	936	938	936	934	933
6	940	940	934	938	940	941	941	941	940	934	924	924	926	929	927	927	926	924	924	922	929	933	933	934	932
7	931	936	933	933	934	936	938	938	938	934	927	919	917	917	920	924	927	933	934	934	927	938	941	941	931
8**	941	941	940	941	941	941	943	945	945	945	941	934	932	930	930	927	928	927	928	920	921	921	934	939	935
9**	935	921	935	948	934	935	927	925	942	935	927	918	909	909	912	918	919	921	916	919	933	926	928	928	926
10	930	933	926	923	926	928	932	933	933	928	919	912	912	916	919	923	926	925	928	928	930	930	933	932	926
11	933	932	930	930	935	937	937	935	930	923	919	916	916	918	921	923	926	926	926	923	918	921	923	926	926
12	928	933	928	930	930	933	935	939	937	932	930	930	921	919	919	914	909	905	919	928	932	926	930	930	927
13	933	935	933	933	933	937	933	935	932	923	919	916	916	921	923	928	930	930	926	925	935	933	930	932	929
14	930	930	933	932	930	933	933	935	933	930	930	921	919	916	914	923	923	919	919	926	937	932	933	933	928
15	932	933	933	933	933	935	935	932	930	923	916	916	919	923	926	925	926	932	933	937	935	939	935	935	928
16	935	937	935	935	937	939	939	940	937	930	919	916	919	925	928	923	923	928	935	939	930	937	933	923	931
17	926	937	932	930	933	933	933	944	937	930	926	926	923	919	918	916	914	912	912	918	923	926	926	946	927
18	940	933	933	933	937	937	935	937	940	935	923	918	912	921	923	926	930	933	935	937	937	933	925	928	931
19	930	930	928	930	930	937	937	935	932	926	923	923	916	912	916	914	916	914	909	909	905	914	916	919	926
20	930	939	939	947	949	951	956	947	944	937	926	918	916	916	919	919	926	930	930	933	933	933	933	933	934
21*	935	937	937	937	937	939	940	944	942	939	933	930	923	919	923	926	930	932	933	937	937	937	937	937	934
22*	937	937	937	939	942	944	946	947	942	940	933	926	926	932	937	937	937	939	940	942	940	940	940	940	938
23*	940	940	940	940	942	944	947	947	942	937	928	926	928	933	937	937	935	937	939	940	940	940	940	940	938
24**	940	940	940	942	942	944	947	947	944	937	928	923	925	928	939	946	944	937	930	919	914	923	926	932	935
25**	930	930	930	946	944	946	942	944	932	925	923	916	912	912	916	918	930	932	933	937	935	933	930	930	930
26	932	933	935	937	940	940	940	940	937	930	921	919	919	923	926	933	937	940	940	940	940	939	939	939	934
27	937	937	937	937	940	940	942	940	935	926	919	916	919	923	925	930	933	935	937	940	940	939	939	940	934
28**	940	940	940	947	951	940	942	940	942	940	932	918	902	916	923	930	933	933	940	940	935	939	937	935	935
Mean	934	935	935	937	938	939	940	940	938	933	926	921	919	921	923	926	928	929	930	931	931	932	933	934	931
Mean*	936	936	937	937	939	941	942	944	941	935	928	925	924	927	929	932	933	934	936	937	938	937	938	939	935
Mean**	937	934	937	945	942	941	940	940	941	936	930	922	916	919	924	928	931	930	929	927	928	928	931	933	932

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**	937	931	937	937	933	958	953	958	961	947	933	921	919	916	909	928	932	933	935	939	937	932	928	928	935	
2	930	930	933	933	937	937	940	937	932	926	921	918	916	918	921	932	933	933	935	937	937	935	935	939	931	
3*	935	937	937	937	937	939	939	940	935	928	926	919	918	921	930	937	937	937	939	939	940	940	940	940	934	
4	937	937	940	939	940	942	944	946	937	928	919	914	916	925	932	939	944	944	946	946	947	947	947	949	938	
5**	942	937	944	951	947	951	947	944	935	926	912	898	912	923	926	930	926	925	921	925	933	935	942	937	932	
6	937	937	935	940	944	940	940	935	930	921	916	911	912	919	928	933	937	937	937	935	937	937	937	937	932	
7	942	935	933	930	937	935	939	937	930	925	916	912	912	919	926	932	935	937	940	940	940	940	940	940	932	
8*	940	940	940	942	942	944	944	946	942	937	926	918	919	925	930	933	935	937	939	940	940	940	940	946	937	
9**	946	947	949	951	951	958	953	951	951	937	925	928	923	923	923	923	918	911	912	940	932	935	954	940	937	
10**	930	937	944	930	933	937	937	937	933	925	916	912	912	919	923	921	923	933	935	937	937	937	951	944	931	
11	937	933	932	933	942	937	939	939	935	928	923	918	918	916	923	930	933	935	937	939	942	942	939	937	933	
12	937	937	937	939	935	937	940	939	932	923	916	911	912	921	926	930	935	937	937	940	937	935	935	940	932	
13	940	937	939	939	939	939	935	939	935	930	919	919	918	919	930	935	937	939	939	939	939	939	940	946	935	
14	942	942	940	939	940	944	940	944	937	923	919	916	916	919	921	928	935	939	939	940	942	944	940	939	935	
15**	939	939	942	944	947	947	946	937	932	929	919	893	881	895	874	905	921	928	928	921	926	951	932	928	925	
16	928	928	928	930	935	939	939	935	926	911	907	905	905	912	918	925	933	933	937	935	939	937	935	935	927	
17	937	937	935	930	935	935	939	935	933	925	914	907	909	912	919	925	930	930	933	933	935	933	947	940	930	
18*	935	933	933	933	933	933	939	937	937	926	912	904	902	909	912	921	928	933	937	937	939	939	937	937	929	
19	937	935	935	935	937	939	942	944	939	930	918	912	912	907	916	923	930	937	939	939	939	940	946	937	932	
20	935	939	947	939	940	944	944	947	942	932	921	912	907	914	919	928	933	940	947	944	944	935	933	940	934	
21	940	937	937	937	937	937	940	942	937	921	918	916	916	916	921	926	933	939	939	940	939	940	944	944	933	
22	944	944	946	947	944	944	946	944	935	923	911	905	904	905	912	923	930	930	939	940	942	942	944	937	933	
23	937	937	940	940	947	951	951	939	930	909	900	902	912	914	916	923	928	933	933	937	940	944	944	944	931	
24	940	942	944	940	940	940	944	944	939	930	921	912	916	919	923	933	935	937	946	944	944	942	940	940	936	
25	939	939	939	940	944	944	942	946	942	933	923	919	919	921	923	926	930	933	937	937	937	937	935	933	938	
26	937	940	937	944	940	944	946	946	940	937	925	916	918	925	923	923	926	939	940	939	940	939	937	940	935	
27	937	939	944	944	940	942	947	947	944	928	919	916	923	933	937	930	916	928	933	937	940	944	940	933	935	
28*	933	935	937	939	940	940	944	946	940	932	923	919	921	925	926	930	933	937	940	942	944	942	940	942	935	
29	940	940	940	940	940	942	944	944	940	930	919	912	911	912	918	926	926	923	926	926	925	930	930	937	930	
30	937	935	939	937	939	940	944	946	940	930	919	912	907	912	919	925	933	940	944	946	944	944	944	946	934	
31*	942	944	944	942	942	944	944	946	942	933	923	912	909	912	919	930	937	939	940	940	940	939	940	942	935	
Mean	938	937	939	938	939	942	943	943	938	928	919	913	912	917	921	928	931	934	936	938	939	939	940	939	933	
Mean*	937	938	938	939	939	940	942	943	939	931	922	914	914	918	923	930	934	937	939	940	941	940	939	941	934	
Mean**	939	938	943	943	942	950	947	945	942	933	921	910	909	915	911	921	924	926	926	932	933	938	941	935	932	
April.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	944	947	946	947	947	947	944	947	946	935	916	924	921	921	916	930	933	933	939	937	937	940	942	947	937	
2	947	947	947	951	953	951	946	939	942	933	930	932	927	922	916	920	924	926	937	939	938	940	945	934	937	
3**	931	941	947	945	955	948	948	945	927	915	899	922	925	900	900	904	907	909	909	918	927	932	935	932	926	
4*	928	930	928	928	930	932	935	935	928	920	911	909	911	914	921	927	928	930	930	935	937	942	942	942	928	
5	946	949	946	946	942	946	949	941	939	918	893	902	905	896	898	907	922	922	929	933	929	933	940	933	928	
6	936	936	936	936	936	936	936	936	929	922	917	915	908	912	919	922	922	922	943	940	933	954	950	940	931	
7	933	940	940	924	936	931	940	929	907	912	905	903	901	912	919	926	931	933	933	940	936	931	940	943	927	
8	926	928	931	938	934	936	933	931	914	908	900	905	913	918	922	927	929	930	934	937	939	944	937	935	927	
9**	939	941	932	935	925	930	939	941	925	913	902	899	906	909	920	927	930	937	951	939	948	937	944	955	930	
10**	944	950	927	916	934	930	930	922	915	902	895	894	895	909	916	920	923	929	934	937	955	939	939	941	925	
11	941	937	925	932	934	930	939	941	935	920	899	878	900	910	919	927	933	935	935	936	942	936	938	938	928	
12	940	935	945	942	926	935	940	942	928	914	900	889	891	907	914	924	942	942	931	931	930	933	931	930	927	
13	933	933	931	933	936	938	938	933	924	903	896	896	905	914	921	930	933	938	938	940	940	940	936	935	928	
14	931	931	931	935	936	936	936	933	919	905	895	896	903	917	928	935	940	940	940	944	942	940	940	938	929	
15**	940	936	938	942	942	942	942	942	931	919	909	908	915	918	932	936	949	949	943	937	955	934	924	932	934	
16	931	937	934	934	939	943	943	939	932	915	889	896	904	904	915	932	936	939	939	941	946	943	939	937	929	
17*	937	934	934	936	937	943	945	946	939	929	922	915	913	911	917	924	925	936	941	945	945	943	939	943	933	
18	937	936	934	936	936	943	946	946	941	927	917	913	911	914	923	928	933	937	946	942	944	951	940	940	934	
19*	938	938	937	937	938	944	949	949	942	935	925	914	909	914	923	933	937	942	949	949	951	951	954	954	938	
20**	960	953	951	953	953	951	958	951	937	926	923	902	886	904	925	926	916	921	945	946	954	953	944	940	937	
21	944	940	935	940	938	940	940	930	926	916	907	907	912	920	924	927	936	941	941	939	936	939	947	943	932	
22	941	941	939	939	943	941	945	939	931	913	899	906	912	913	926	931	943	948	954	948	948	948	948	950	935	
23	952	950	948	950	947	947	943	938	931	924	915	920	919	924	931	933	941	947	948	948	948	947	947	947	939	
24*	945	945	945	947	945	947	948	945	934	920	915	917	925	932	935	942	946	949	953	949	951	949	948	946	941	
25*	953	949	946	946	946	946	946	940	935	930	927	925	932	935	946	953	956	955	956	956	958	960	960	958	946	
26	956	955	955	953	953	953	951	949	942	932	925	925	930	937	942	942	944	951	953	949	948	948	949	949	945	
27	949	949	946	946	946	949	956	956	953	939	928	920	917	922	931	959	957	952	943	950	950	950	952	950	945	
28	952	950	947	949	949	950	950	950	941	933	926	922	926	929	936	943	949	956	954	957	950	949	945	945	944	
29	954	954	957	959	963	957	954	957	945	933	922	922	922	919	919	919	940	949	954	956	956	954	961	954	945	
30	950	950	950	949	949	954	952	947	940	936	929	926	925	923	930	929	937	944	951	950	946	944	948	948	942	
Mean	942	942	940	941	942	943	944	941	933	925	911	910	912	916	923	929	935	938	942	942	944	944	943	943	934	
Mean*	940	939	938	939	939	942	945	943	936	927	920	916	918	921	928	936	938	938	946	947	948	949	949	949	937	
Mean**	943	944	939	938	942	940	943	940	927	915	906	904	905	908	919	923	925	929	936	935	948	939	937	940	930	

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	946	944	944	944	944	948	948	941	932	925	923	927	927	929	936	941	944	948	953	951	950	948	946	946	941	
2*	946	944	944	944	944	944	944	941	937	934	927	927	929	930	934	936	937	946	953	958	958	957	955	953	943	
3	953	953	951	951	951	950	950	950	946	939	934	936	940	942	945	951	954	959	961	961	961	959	966	977	952	
4**	980	963	959	963	963	959	928	935	945	907	882	893	910	910	916	891	893	926	938	933	937	928	935	937	931	
5**	938	919	928	931	926	917	931	914	919	917	903	910	909	910	917	928	942	952	952	951	949	942	938	938	928	
6	942	938	935	933	931	935	931	926	917	910	910	917	918	920	925	931	938	944	946	946	950	946	943	943	931	
7	943	939	939	938	939	941	942	939	936	929	915	918	920	927	932	939	946	950	957	955	952	946	946	957	939	
8	959	957	950	929	938	932	929	929	929	929	925	929	929	925	936	943	945	950	946	950	946	950	946	950	940	
9	946	953	948	945	945	945	943	939	925	915	911	917	916	918	928	937	947	951	956	958	944	944	946	944	938	
10	940	939	940	940	940	940	940	933	925	918	914	914	918	919	928	933	940	946	947	951	954	947	944	940	936	
11	940	937	937	939	940	944	946	944	940	928	918	909	905	912	919	930	937	946	947	949	947	944	944	944	935	
12*	940	939	940	940	940	944	940	940	933	923	916	912	910	913	920	931	941	950	954	952	948	945	945	941	936	
13	941	941	941	941	945	945	945	938	934	927	917	913	915	922	941	946	948	952	952	952	945	941	941	940	938	
14*	941	945	941	941	945	945	945	938	938	931	926	923	925	928	927	941	948	951	951	952	948	947	945	945	940	
15*	941	941	941	945	947	945	941	936	931	931	929	929	928	930	935	942	946	953	956	955	955	951	949	949	942	
16*	949	949	948	946	946	946	942	942	939	939	941	941	930	930	935	941	946	951	951	951	949	949	951	949	944	
17	949	949	949	949	949	946	942	942	941	941	942	949	944	939	935	935	942	953	956	953	956	956	956	956	947	
18	953	951	948	953	958	967	960	953	939	935	928	935	937	937	944	950	955	955	957	953	952	954	956	949	949	
19	944	949	952	944	950	957	950	945	946	936	929	922	918	916	914	937	940	946	951	947	947	942	946	940	940	
20	939	938	948	939	939	941	939	939	931	924	922	922	925	934	934	941	946	950	955	955	957	957	953	951	941	
21	950	950	950	952	952	950	948	939	932	932	932	931	930	934	937	942	949	960	967	963	967	963	963	962	948	
22	960	960	958	960	962	960	956	951	946	941	930	935	934	927	939	942	955	962	963	963	958	958	956	956	951	
23	956	956	955	956	956	956	953	946	934	923	918	914	918	925	934	942	949	955	962	956	958	960	960	955	946	
24	956	953	953	955	958	960	955	946	941	939	935	935	930	934	937	944	956	963	967	967	967	963	960	960	951	
25	953	953	956	955	951	960	962	956	949	944	932	928	931	929	938	948	954	964	962	959	954	952	952	952	950	
26	954	952	952	952	954	955	954	948	945	941	936	934	926	927	941	948	964	968	969	969	959	961	962	957	951	
27	955	959	957	957	962	966	962	959	955	948	941	940	938	947	954	950	948	950	950	957	952	945	947	948	952	
28**	959	954	959	959	961	948	938	931	933	931	929	922	913	920	931	941	954	955	952	955	947	948	948	957	944	
29	947	947	947	947	948	952	945	941	929	920	913	924	931	931	940	950	959	962	966	966	959	961	969	969	947	
30**	966	966	962	959	959	962	959	952	940	931	919	917	917	913	941	954	966	971	994	962	962	966	961	955	952	
31**	969	964	941	948	931	915	910	915	924	920	917	919	913	917	931	929	934	966	959	959	955	954	952	948	937	
Mean	950	950	948	947	947	948	944	940	936	929	923	924	924	926	937	939	946	953	958	955	953	951	951	951	943	
Mean*	943	944	943	943	944	945	942	939	936	932	928	926	924	926	930	938	944	950	953	954	952	950	949	947	941	
Mean**	962	953	950	952	948	940	933	929	932	921	910	912	912	914	927	929	938	954	959	952	950	948	947	947	938	
June.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	944	954	944	947	954	949	951	940	923	918	905	905	909	911	918	944	954	970	957	954	951	949	958	953	940	
2	944	940	944	947	944	942	930	918	914	912	919	926	928	921	923	939	947	960	974	963	961	958	972	968	941	
3	953	942	956	954	940	925	937	933	925	912	907	925	926	923	930	930	949	954	972	986	982	951	944	947	942	
4	951	942	944	940	937	944	940	926	919	921	916	918	919	925	940	951	951	960	961	967	961	958	953	947	942	
5	947	942	949	949	954	937	932	930	923	923	923	930	932	932	935	944	951	951	954	954	949	947	947	946	941	
6	946	944	944	940	940	940	944	940	935	926	926	925	928	942	966	959	937	954	963	962	954	945	945	944	944	
7	940	942	940	937	938	935	935	930	924	921	919	917	915	915	918	929	953	950	948	948	946	945	943	941	935	
8*	941	943	943	945	943	943	932	929	927	925	922	915	909	911	923	926	937	947	958	958	954	949	949	953	937	
9*	945	943	945	947	948	948	941	927	913	906	906	913	920	925	932	942	949	960	962	958	955	949	946	946	939	
10	944	946	949	949	946	953	951	942	932	925	916	916	919	926	936	940	933	954	964	961	954	949	940	936	941	
11	938	942	938	936	938	936	940	933	926	919	915	914	917	914	922	929	938	947	954	954	950	938	940	954	935	
12	943	943	942	947	945	942	942	940	933	926	921	908	905	903	917	928	936	943	947	945	942	938	936	936	934	
13**	943	943	935	938	947	952	926	886	870	884	905	889	873	889	884	873	900	936	950	940	949	949	961	943	924	
14	922	929	926	926	922	919	926	921	922	915	907	903	901	901	907	919	935	942	943	938	936	933	926	924	923	
15	926	929	926	926	931	931	928	921	914	915	910	915	917	919	919	928	933	938	936	940	949	940	943	947	928	
16	940	940	935	929	929	931	933	931	924	924	928	924	915	915	919	924	933	949	961	957	950	943	938	933	934	
17	950	940	935	933	933	929	929	921	908	908	908	912	901	901	922	933	940	942	947	938	936	935	933	929	928	
18	933	935	928	933	936	933	928	915	914	912	905	903	924	926	931	933	938	936	947	950	947	940	936	936	930	
19*	945	942	933	936	940	940	931	917	908	901	894	894	905	912	929	940	938	943	945	945	945	940	936	936	929	
20*	935	933	936	936	940	940	938	941	922	910	900	898	900	912	922	936	940	940	943	943	943	940	940	938	930	
21*	938	940	938	940	940	940	936	929	924	915	908	912	917	919	931	936	940	945	949	947	945	945	943	943	934	
22	943	943	943	943	943	947	949	943	933	926	921	919	926	936	950	954	950	950	961	961	956	954	957	961	945	
23**	947	956	959	957	952	959	961	947	933	898	877	886	891	908	929	921	928	945	949	947	943	940	940	940	934	
24**	940	938	940	945	947	950	943	933	915	914	915	914	905	908	922	949	957	959	977	975	956	954	954	905	938	
25**	910	917	926	919	933	921	908	901	896	894	894	891	884	884	915	933	959	928	928	931	929	928	933	929	916	
26	928	926	926	928	933	933	929	921	905	901	894	893	889	905	921	928	935	940	936	936	936	935	936	933	923	
27	933	935	936	931	931	936	936	929	921	912	903	889	889	898	915	929	936	945	950	947	938	940	961	943	929	
28**	928	936	943	929	922	901	900	915	908	898	886	889	877	884	896	919	943	957	947	936	936	940	936	929	919	
29	947	943	935	929	924	926	921	919	910	900	900	901	901	915	910	931	929	940	936	938	938	936	940	942	926	
30	942	926	924	929	931	928	922	905	926	924	915	898	905	915	921	933	954	949	954	943	945	947	929	929	929	
Mean	940	939	939	938	939	937	934	926	918	913	909	908	912	913	923	933	941	948	952	951	949	944	942	940	933	
Mean*	941	940	939	941	942	942	936	929	919	911	906	906	910	916	927	936	941	947	951	950	948	945	943	943	934	
Mean**	934	938	941	938	940	937	928	916	904	898	895	894	886	895	909	919	937	945	950	946	943	942	945	929	925	

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	929	929	931	933	933	936	926	919	912	903	898	900	912	921	915	922	942	963	957	942	936	929	936	945	928	
2	929	931	933	929	928	922	924	919	908	903	908	915	922	933	933	935	931	940	950	952	940	935	936	945	929	
3	942	933	936	933	929	922	917	907	901	903	908	910	905	915	924	935	938	940	940	940	940	935	936	933	926	
4	929	931	929	931	933	933	931	931	926	912	903	905	910	910	921	931	929	938	945	947	947	940	938	938	929	
5	942	940	936	936	936	935	931	933	936	931	919	910	912	905	915	926	936	938	940	942	942	936	936	933	931	
6	936	936	933	931	933	928	928	931	926	915	912	914	908	907	919	931	936	947	940	940	938	933	935	933	928	
7	935	931	931	933	936	938	935	926	915	905	898	901	908	920	935	943	943	938	936	933	933	935	938	940	929	
8	936	936	935	936	940	940	935	928	921	919	915	908	910	905	915	924	936	943	943	940	940	940	940	935	931	
9	935	935	936	938	954	956	949	943	936	926	908	910	919	921	931	938	943	950	940	950	949	942	938	936	937	
10	940	942	943	943	943	943	935	933	935	933	928	922	914	919	929	942	945	963	968	959	931	919	922	926	937	
11	928	922	926	928	940	936	931	915	903	903	920	908	908	906	913	913	916	923	936	941	941	936	929	923	922	
12	927	927	921	921	927	927	921	921	916	909	899	895	895	898	917	922	924	924	935	940	938	935	938	931	921	
13*	928	928	928	930	935	935	933	926	921	914	905	902	898	900	907	924	931	931	935	937	940	940	935	931	925	
14	928	930	930	931	931	931	935	931	930	928	916	903	901	906	918	925	927	934	943	950	964	955	950	953	932	
15**	936	953	932	923	946	943	936	922	915	899	882	862	895	895	905	916	928	933	933	935	935	933	932	928	922	
16*	926	930	930	930	928	928	926	923	916	911	919	915	916	918	923	930	932	930	937	937	933	930	928	930	926	
17*	930	930	930	932	933	932	928	921	919	916	916	916	920	919	919	924	933	931	938	938	938	938	934	934	928	
18*	934	936	934	936	938	938	934	925	922	924	924	922	920	917	924	931	936	941	941	941	941	940	941	945	933	
19	941	938	931	934	936	—	—	—	—	—	908	908	911	920	925	932	932	942	949	948	941	939	939	939	—	
20*	939	935	930	932	934	935	932	921	909	899	892	911	911	920	925	932	934	942	949	948	942	939	939	939	925	
21	941	942	941	944	944	948	942	969	927	921	918	907	905	919	928	933	943	940	933	947	943	943	945	936	936	
22**	940	936	936	927	940	933	936	926	901	870	891	907	905	901	908	922	931	947	950	947	933	931	933	933	924	
23	933	936	940	936	940	943	933	919	912	901	887	900	899	911	916	932	932	944	941	937	932	932	930	928	926	
24	930	932	934	934	934	934	934	930	923	915	899	892	888	892	913	927	936	946	946	941	937	937	941	950	927	
25	932	934	934	936	939	937	937	930	923	913	902	899	891	898	912	931	942	944	949	952	942	942	949	952	930	
26**	942	940	935	954	952	952	924	921	919	921	923	888	892	887	904	897	887	899	912	918	914	916	904	911	917	
27**	957	941	938	931	926	938	927	918	900	900	886	878	884	910	922	938	947	970	953	955	948	948	935	953	929	
28**	941	931	934	940	934	934	905	893	916	916	898	891	895	905	905	921	932	944	951	954	940	939	949	939	929	
29	933	933	933	937	937	940	937	928	919	909	905	909	912	916	926	935	937	947	947	953	944	937	937	940	931	
30	930	932	933	932	932	933	930	923	919	907	904	898	903	906	913	920	938	950	952	950	941	941	938	938	928	
31	941	938	938	934	936	940	938	936	929	917	906	901	908	920	929	934	934	940	943	940	941	940	941	934	932	
Mean	935	934	933	934	936	936	931	926	919	911	907	903	906	910	919	928	933	941	943	943	940	938	937	938	928	
Mean*	931	932	930	932	934	934	931	923	917	913	911	913	913	915	920	928	933	935	940	940	939	937	935	936	927	
Mean**	943	940	935	935	940	940	926	916	910	901	896	885	894	900	909	919	925	939	940	942	934	933	931	933	924	
August.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	934	936	938	938	938	940	938	929	913	906	903	906	914	918	925	930	934	941	951	948	944	942	944	935	931	
2	934	937	935	932	934	935	930	930	923	916	911	906	911	921	934	942	942	949	948	951	942	941	941	939	933	
3	939	941	942	942	944	946	942	930	921	914	907	918	928	935	943	947	954	947	966	957	961	950	954	929	940	
4	942	940	933	929	936	929	922	912	907	902	917	919	919	922	917	943	936	940	947	954	962	950	940	942	932	
5	935	929	929	935	942	931	928	926	921	905	898	894	903	914	922	941	943	894	894	938	937	935	931	925	923	
6	926	927	929	949	926	929	925	926	909	909	910	914	923	924	933	944	950	942	951	955	952	954	948	941	933	
7**	933	940	939	942	945	950	943	914	889	867	866	887	883	906	920	929	920	920	932	934	939	941	955	950	923	
8**	946	932	932	953	927	906	918	911	887	877	873	883	896	900	917	933	931	935	947	938	933	938	956	928	921	
9	935	933	924	914	928	931	931	924	914	882	870	890	890	896	907	921	930	935	942	935	938	935	945	942	921	
10	935	931	935	937	931	931	917	923	917	908	895	896	905	908	915	929	934	941	939	941	938	938	938	934	926	
11*	931	931	932	932	932	932	931	925	918	911	908	905	909	914	919	926	932	935	939	940	940	939	939	935	927	
12*	933	933	933	935	933	933	933	926	916	909	907	909	906	909	921	932	939	944	944	944	941	939	939	939	929	
13*	937	937	937	935	937	940	937	928	914	902	898	900	913	922	929	940	941	938	941	945	943	940	940	940	931	
14	938	938	938	941	945	947	947	941	934	924	917	917	926	936	945	943	940	945	948	943	948	941	936	934	938	
15*	943	940	940	940	940	941	938	931	924	920	913	919	925	923	928	932	937	942	953	949	949	946	942	941	936	
16	941	941	939	941	941	939	937	932	928	923	918	920	932	937	937	937	942	953	960	963	967	963	958	956	942	
17	953	953	953	948	949	946	942	935	928	920	911	911	922	936	935	917	912	936	936	943	942	942	947	940	936	
18**	943	943	950	952	933	943	935	924	919	909	903	907	921	915	926	926	922	942	949	942	954	938	935	945	932	
19	945	942	917	931	935	929	924	922	901	915	915	917	920	925	931	934	939	939	944	937	937	937	937	939	930	
20	944	934	934	934	932	934	929	922	915	906	901	906	902	913	920	927	936	937	943	944	939	934	934	934	927	
21	936	936	936	937	936	934	927	916	904	899	888	899	909	919	924	924	930	940	945	945	944	944	952	963	929	
22**	954	944	942	938	942	945	938	928	914	905	905	911	909	917	931	952	938	952	933	949	951	951	959	970	937	
23**	928	963	973	945	911	883	898	889	872	865	858	886	912	913	922	936	957	946	943	943	939	938	950	945	921	
24	946	941	939	943	934	934	932	922	906	892	884	885	894	908	924	932	936	939	946	953	939	936	932	936	926	
25	943	939	936	936	934	936	932	925	917	901	899	904	909	916	926	928	940	949	956	944	944	947	972	944	932	
26	939	942	953	949	944	940	940	935	930	919	911	905	909	905	918	926	935	944	940	939	937	944	961	940	934	
27	940	937	940	940	940	940	935	925	916	909	902	904	906	914	920	920	929	940	945	945	941	941	941	941	930	
28*	948	941	940	940	940	938	938	931	926	920	910	906	906	914	920	929	936	941	954	952	948	948	950	947	934	
29	945	945	941	941	938	936	931	926	924	920	912	914	915	921	928	939	946	949	949	955	949	953	949	953	937	
30	946	960	963	935	935	935	935	923	918	909	913	897	918	918	921	925	935	939	939	942	944	939	941	939	932	
31	939	937	939	939	939	939	935	925	915	904	897	895	905	914	922	929	947	949	954	940	940	940	940	945	930	
Mean	940	939	939	939	936	935	932	924	914	905	901	904	911	917	925	933	937	940	944	945	945	943	945	942	931	
Mean*	938	936	936	936	936	937	935	928	920	912	907	908	912	916	923	932	937	940	946	946	944	942	942	940	931	
Mean**	941	944	947	946	932	925	926	913	896	885	881	895	904	910	923	935	934	939	941	941	943	941	951	948	927	

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**	950	940	940	940	943	940	933	922	910	912	914	926	931	931	933	935	938	947	992	966	982	919	924	933	938	
2	947	950	950	928	901	914	915	905	886	873	865	859	883	909	909	906	911	915	923	932	934	934	934	930	913	
3	934	934	932	927	923	929	934	923	913	899	895	906	902	923	934	941	936	939	937	941	950	944	944	943	929	
4	937	937	930	934	934	934	922	916	909	902	895	899	900	910	914	924	928	944	938	944	942	942	945	945	926	
5	945	945	940	940	942	935	926	921	914	907	905	910	916	919	926	928	935	935	940	954	958	949	942	938	932	
6	942	945	947	954	945	942	935	928	916	914	914	917	929	932	934	932	939	946	950	950	950	950	967	952	940	
7	950	948	957	936	948	953	943	925	917	904	904	911	903	913	925	939	925	922	938	936	932	932	939	929	930	
8	931	932	934	936	936	932	932	920	911	901	897	899	905	916	925	930	933	940	940	940	942	940	942	937	927	
9	937	937	937	937	939	937	933	930	926	916	911	909	905	909	919	918	923	930	937	946	933	933	930	947	928	
10*	930	937	944	937	937	935	933	928	925	916	912	916	920	924	931	933	934	941	945	945	945	945	945	947	934	
11*	945	945	943	943	941	941	938	931	922	919	912	910	917	927	931	936	941	945	945	945	945	947	945	947	936	
12*	947	947	947	947	945	943	941	934	929	919	910	906	918	925	937	942	944	944	949	949	955	953	949	949	939	
13	951	949	949	948	948	946	942	941	935	928	921	921	925	928	932	937	942	949	949	951	960	953	953	958	942	
14**	958	960	963	956	960	960	949	953	914	897	916	932	929	917	912	926	900	926	931	926	924	935	935	936	934	
15**	963	926	905	912	907	912	914	915	905	898	884	891	889	882	908	928	935	919	912	919	933	936	956	954	917	
16	922	921	926	926	929	919	910	919	921	912	880	879	911	906	916	922	923	927	930	934	934	944	937	953	921	
17	950	937	927	930	932	923	923	923	906	902	892	880	895	902	920	927	934	927	929	934	941	932	936	932	922	
18	932	934	934	934	930	930	930	927	920	909	899	892	910	923	923	921	924	930	933	938	951	938	937	938	927	
19	940	940	942	942	938	938	935	930	921	914	912	914	914	919	921	923	926	931	933	938	938	942	945	942	931	
20	942	942	942	942	942	937	933	935	921	900	902	909	918	922	929	931	936	939	946	946	943	943	945	946	933	
21**	945	945	962	971	964	950	871	862	896	909	894	887	868	880	890	890	910	913	914	911	901	908	909	904	911	
22	903	903	904	904	905	910	905	895	877	883	872	875	888	902	894	903	918	916	924	926	939	960	952	929	908	
23	924	927	930	931	929	932	928	917	906	892	890	891	898	918	926	930	930	930	935	933	933	935	932	937	922	
24**	933	953	953	937	937	954	897	870	862	879	870	856	871	885	909	904	931	921	897	904	914	919	894	897	906	
25	900	905	906	911	911	912	908	892	888	893	892	903	907	903	911	920	919	940	934	934	934	934	935	937	914	
26	936	936	935	935	930	932	930	929	929	922	918	916	913	918	921	925	934	934	941	939	935	934	939	951	931	
27	935	934	934	932	935	934	934	930	921	918	913	913	913	914	918	920	925	928	935	935	939	939	935	939	928	
28	937	937	937	939	939	939	939	939	935	930	925	921	926	933	933	931	929	936	936	943	940	942	940	938	935	
29*	943	943	943	940	940	936	935	929	924	921	917	917	919	919	921	922	931	936	940	942	940	938	940	940	932	
30*	942	943	943	943	943	940	938	933	922	915	912	912	916	922	927	934	936	936	938	942	942	942	944	944	935	
Mean	938	938	938	936	935	935	927	922	913	907	901	903	911	914	921	925	929	933	937	938	942	942	941	942	928	
Mean*	941	943	944	942	941	939	937	931	924	918	913	912	918	923	929	933	937	940	943	945	945	945	945	945	935	
Mean**	950	945	945	943	942	943	913	904	897	899	896	898	898	899	910	917	923	925	929	925	931	923	924	925	921	
October.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	943	945	945	953	965	960	953	945	932	925	923	928	937	938	940	940	942	947	947	952	958	951	949	947	944	
2*	942	942	942	942	940	944	938	935	931	923	914	907	915	922	930	937	939	939	941	941	943	941	943	943	935	
3*	943	943	943	943	940	940	938	935	929	924	919	915	920	925	935	937	941	942	944	948	949	944	944	942	937	
4	942	946	956	949	946	942	939	935	930	925	914	914	919	924	920	934	936	934	941	929	926	966	943	929	935	
5	929	931	934	933	933	938	934	924	924	898	882	896	885	885	899	924	927	933	938	941	940	938	941	959	924	
6	943	938	938	941	940	947	941	936	926	903	892	899	911	926	930	932	933	939	939	940	940	940	940	942	932	
7	940	940	942	940	942	944	944	933	928	916	911	909	913	917	925	929	932	936	938	939	939	941	943	943	933	
8	941	943	941	941	943	943	939	936	927	918	924	929	928	924	937	942	942	945	951	949	949	937	942	917	937	
9**	920	927	965	934	913	922	943	934	925	922	916	916	912	917	912	917	917	908	938	901	887	905	908	908	919	
10	922	933	936	942	940	931	936	929	922	915	910	908	895	900	907	907	914	920	932	921	924	924	931	933	922	
11	929	931	950	949	937	936	936	930	923	909	894	885	891	886	882	902	910	907	917	928	935	949	919	931	919	
12**	938	921	935	935	945	931	935	926	931	914	898	888	878	906	913	913	923	936	944	913	925	934	934	932	923	
13	932	934	934	934	934	918	932	920	908	901	895	904	910	915	919	922	926	926	910	915	928	940	947	947	923	
14	933	936	950	926	912	928	924	922	912	908	908	905	890	902	907	914	918	925	932	928	934	935	934	932	921	
15	937	935	935	935	934	932	932	928	906	899	897	897	893	897	909	914	918	921	920	930	942	965	942	939	923	
16	939	939	932	925	935	932	932	925	921	911	907	911	902	904	909	914	914	923	930	932	937	934	932	937	924	
17	935	939	939	939	939	941	942	942	934	918	900	904	899	902	914	918	921	932	934	932	935	935	939	939	928	
18*	935	935	935	937	937	937	935	932	921	911	904	900	904	913	918	921	927	932	935	939	939	941	941	942	928	
19	942	942	942	941	942	942	944	939	928	918	907	899	899	902	907	908	925	928	927	930	930	934	939	939	927	
20	942	935	946	946	942	942	946	937	921	911	902	907	897	897	909	911	928	928	939	935	939	941	935	939	928	
21**	935	942	941	942	956	949	946	932	918	911	893	869	878	890	899	900	897	890	881	869	900	902	904	900	910	
22	909	928	918	916	911	914	907	913	900	888	890	890	893	902	881	897	904	899	907	914	925	925	927	925	908	
23**	925	927	927	928	932	930	932	930	928	914	899	865	853	869	886	881	893	886	862	860	846	855	886	897	896	
24**	886	881	869	955	935	890	890	855	858	893	881	872	871	888	895	909	911	906	906	939	935	925	916	911	899	
25	907	907	909	911	914	916	921	927	918	907	893	883	883	893	902	907	911	916	918	918	921	939	925	925	911	
26	921	921	925	927	932	934	932	928	918	913	900	892	883	893	902	909	916	921	925	925	928	928	935	935	919	
27	925	925	925	927	928	930	932	932	928	921	907	906	907	914	921	921	927	932	925	932	932	930	935	921	925	
28	928	925	925	927	928	928	928	930	927	918	904	895	897	897	900	907	918	925	927	928	932	932	932	937	921	
29*	932	932	932	932	932	934	935	937	932	918	907	904	906	913	921	923	925	930	932	932	932	935	932	934	927	
30*	932	934	934	935	937	939	935	935	934	920	907	904	907	911	920	923	927	932	935	937	939	939	937	939	928	
31	937	937	939	937	937	939	939	942	937	928	925	920	923	918	925	932	921	906	897	923	932	935	932	928	933	
Mean	934	935	935	936	936	934	934	929	922	913	904	901	900	906	912	918	922	924	926	930	933	934	932	932	924	
Mean*	937	937	937	938	937	939	936	935	929	919	910	906	910	917	925	928	932	935	937	939	940	940	939	940	931	
Mean**	921	920	927	939	936	924	929	915	912	911	897	882	878	894	901	904	908	905	906	896	899	904	910	910	909	

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**	930	949	967	953	911	916	920	925	920	904	893	890	895	897	904	914	920	925	928	928	946	935	927	925	922	
2**	921	925	925	925	928	932	932	928	918	911	906	904	909	914	921	932	928	914	920	911	916	927	920	925	921	
3	920	928	925	925	928	927	923	918	918	914	911	907	909	914	921	921	923	921	927	928	925	925	928	928	921	
4	928	930	930	930	930	928	928	928	927	921	914	911	909	911	914	918	921	925	928	930	932	932	930	942	925	
5*	923	927	927	928	932	928	930	928	925	918	909	907	911	914	918	921	923	928	932	934	935	934	934	934	925	
6	932	934	935	935	935	939	937	937	932	923	911	902	902	911	920	921	928	932	934	927	925	932	932	935	927	
7	932	932	932	934	935	937	939	939	935	921	911	902	900	904	913	921	927	932	935	939	937	939	937	932	928	
8	935	934	935	935	939	942	942	944	935	927	921	916	916	920	927	932	937	946	948	942	925	902	904	906	930	
9**	904	893	906	935	920	890	914	925	920	907	900	892	887	890	890	885	895	886	871	886	893	907	927	907	901	
10**	900	918	911	918	921	921	923	921	913	902	900	895	895	904	907	890	883	893	893	897	879	886	893	895	902	
11	914	925	918	932	928	921	909	916	911	906	871	869	874	893	904	909	913	918	920	923	925	925	927	932	912	
12	928	925	928	927	925	928	928	925	921	913	899	902	909	914	916	916	920	923	925	925	928	928	928	928	921	
13	927	928	925	939	930	928	932	928	921	907	906	904	900	893	900	906	900	900	897	920	902	913	918	921	914	
14**	921	928	925	928	928	928	939	930	921	914	900	897	897	893	886	906	876	897	907	904	883	923	921	918	911	
15	916	918	918	920	921	923	921	916	911	904	900	897	897	904	906	904	914	906	902	914	920	935	939	923	914	
16	921	918	920	921	923	921	923	921	916	906	899	895	897	900	911	916	920	923	925	923	918	918	923	925	916	
17	925	925	925	927	928	930	930	928	921	906	897	890	883	892	907	916	918	923	928	928	928	928	927	928	918	
18	928	928	928	930	932	932	932	930	923	909	897	897	904	911	914	916	921	925	934	934	934	941	935	934	924	
19	934	939	928	928	930	932	934	928	921	911	900	897	900	907	914	921	928	932	932	937	932	935	932	932	924	
20	941	934	932	932	935	939	941	939	934	928	914	895	893	900	913	920	925	928	930	935	935	937	937	935	927	
21*	932	932	934	935	939	939	937	935	934	928	921	918	920	921	925	932	932	935	937	939	935	937	935	935	932	
22*	934	935	937	937	937	937	937	941	935	930	925	921	925	930	932	934	935	939	937	939	935	937	939	939	934	
23	939	939	939	939	942	939	939	941	934	920	907	904	906	911	918	923	925	932	935	935	939	939	937	937	930	
24	932	930	935	935	935	939	939	939	935	925	918	921	927	937	942	935	928	923	932	939	941	939	939	934	933	
25	935	939	937	942	946	948	949	946	942	935	925	921	918	920	920	921	925	930	928	928	928	939	935	935	933	
26	932	932	934	939	939	935	939	937	935	932	927	921	918	918	918	921	925	930	928	928	928	939	935	934	930	
27*	932	932	932	934	937	937	939	937	934	930	921	918	911	918	918	921	928	932	932	935	939	939	939	939	931	
28*	937	937	935	935	935	939	939	937	934	925	921	916	918	921	925	925	928	932	935	937	939	937	937	(937)	932	
29	—	—	—	—	—	—	—	—	—	—	—	909	909	918	927	930	928	928	928	935	937	939	939	939	—	
30	937	939	935	932	932	935	939	939	935	928	923	918	918	921	927	932	937	939	941	941	941	939	937	937	933	
Mean	927	929	929	932	931	931	932	931	926	918	909	904	905	910	915	918	920	923	928	927	926	929	929	929	923	
Mean*	932	933	933	934	936	936	936	936	932	926	919	916	917	921	924	927	929	933	935	937	937	937	937	937	931	
Mean**	915	923	927	932	922	917	926	926	918	908	900	896	897	900	902	905	900	903	904	905	903	916	918	914	911	
December.	17000 γ + Tabular Quantities (in γ).																									Mean.
1	937	937	935	935	935	935	935	932	930	921	914	911	911	920	927	932	939	944	946	946	944	939	941	946	933	
2	948	939	941	941	939	939	939	939	939	932	920	913	916	927	932	937	939	942	942	944	942	941	939	935	936	
3*	937	939	937	939	939	941	941	939	939	932	932	932	932	935	937	935	937	941	941	937	935	935	935	935	937	
4	935	935	935	939	941	944	946	946	944	932	932	928	930	928	932	935	932	934	934	930	928	928	932	935	935	
5	935	934	939	931	939	939	941	942	939	934	928	925	923	925	928	932	935	935	935	927	913	927	932	921	932	
6**	932	941	939	939	949	944	939	928	920	914	895	872	883	867	872	885	879	911	909	911	914	916	920	918	912	
7**	916	916	914	916	920	925	911	904	904	900	904	895	883	883	885	902	914	918	921	918	923	921	923	921	910	
8	923	921	923	923	925	928	928	932	928	913	902	890	886	902	911	918	911	923	921	927	927	927	928	928	919	
9	928	925	928	928	928	930	928	928	928	920	916	918	904	907	911	914	918	918	916	923	925	928	930	928	922	
10	927	927	925	927	928	928	928	935	932	921	914	911	914	914	918	921	906	904	911	907	914	925	941	920	921	
11	923	921	921	925	928	928	932	930	927	914	902	902	906	911	918	920	925	928	928	928	921	921	920	921	921	
12	927	928	930	930	934	935	932	935	932	928	920	918	911	907	909	914	923	925	925	925	925	930	932	932	925	
13	939	934	928	928	928	928	930	932	928	920	916	914	916	913	904	904	916	921	921	923	921	925	921	925	922	
14*	939	932	930	934	935	935	935	934	932	927	921	918	911	907	904	906	913	921	927	925	925	927	934	934	925	
15	930	930	932	930	935	939	937	932	923	913	907	899	897	892	892	887	879	881	890	892	895	900	906	907	909	
16	923	928	925	930	935	930	925	920	916	916	904	904	900	900	900	906	914	921	918	920	925	927	927	927	918	
17*	928	928	928	932	934	935	932	932	930	930	925	918	914	914	916	921	928	932	932	935	935	939	937	935	929	
18**	935	939	935	935	935	935	935	935	935	932	930	921	920	921	918	914	900	890	893	921	914	921	921	920	923	
19	918	925	925	925	925	925	925	925	925	921	914	911	907	913	914	914	928	930	932	932	932	927	928	928	923	
20	944	928	925	925	932	932	921	925	925	925	920	916	916	914	918	920	921	925	928	928	930	930	930	927	925	
21*	927	923	925	925	928	928	925	921	920	920	918	914	913	914	916	918	923	925	923	925	928	928	925	925	922	
22	925	927	925	925	925	925	925	925	927	923	920	914	911	914	918	925	925	928	932	928	932	932	932	930	925	
23	932	934	930	928	928	928	932	932	928	921	911	907	913	918	920	923	918	921	928	935	937	928	928	932	926	
24	930	927	934	928	928	930	932	932	932	923	914	911	907	906	904	914	918	921	928	932	935	937	935	928	924	
25	928	930	928	930	932	935	935	934	932	930	927	921	921	923	923	925	932	928	932	935	932	932	932	932	930	
26*	932	932	930	932	932	934	934	932	928	925	921	918	918	921	921	925	928	932	933	932	935	935	935	935	929	
27**	932	932	932	934	935	937	935	932	932	930	925	921	918	920	916	914	893	876	869	855	879	914	886	893	913	
28**	897	900	904	909	914	921	918	879	879	825	836	865	878	876	887	876	893	902	897	897	893	897	897	899	889	
29	900	897	899	904	906	909	909	906	907	904	899	897	899	904	906	904	899	909	911	913	914	911	904	902	905	
30	900	909	909	909	914	914	918	916	914	900	892	897	900	904	914	918	918	914	920	923	925	925	921	918	912	
31	920	920	920	921	921	923	925	928	923	921	920	923	920	918	921	918	907	911	909	907	907	907	920	916	918	
Mean	927	926	927	928	930	931	930	930	926	922	919	910	909	910	913	915	917	920	921	922	924	925	925	924	922	
Mean*	933	931	930	932	934	935	933	932	930	927	923	920	918	918	919	921	926	930	931	931	932	933	933	933	928	
Mean**	922	926	925	927	931	932	928	916	914	900	898	895	896	893	896	898	896	899	898	900	905	914	909	910	909	

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

January. 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	116	113	111	111	111	111	112	110	108	104	102	100	101	105	103	101	105	105	107	105	101	101	99	99	106	
2	97	95	95	95	95	97	97	98	100	98	97	95	96	97	96	96	96	96	96	96	95	93	93	93	96	
3	92	92	90	90	87	89	89	89	89	89	87	85	86	91	93	93	94	94	94	93	93	92	92	90	91	
4*	90	90	89	89	88	89	89	89	89	88	88	88	87	90	90	88	88	88	90	90	90	90	89	86	89	
5	86	84	84	84	81	83	79	81	83	83	83	86	87	90	88	88	88	90	92	90	89	86	86	83	86	
6	84	84	83	83	82	83	83	83	82	82	83	86	85	87	87	85	84	85	84	84	83	83	82	81	84	
7	78	78	78	80	79	79	80	82	82	80	80	79	77	80	82	79	82	82	84	84	80	80	80	80	80	
8	80	78	80	80	79	79	79	80	80	80	84	88	85	87	87	83	83	81	82	82	80	80	80	80	82	
9	79	77	77	77	77	79	78	78	75	75	76	78	79	81	79	77	79	77	77	74	74	73	73	71	77	
10*	71	71	73	73	72	72	72	70	69	67	69	72	72	78	78	76	74	74	71	70	68	68	70	70	72	
11*	69	69	69	69	70	69	68	66	66	68	68	71	72	74	74	72	72	70	69	67	67	67	67	67	69	
12	66	66	66	66	66	66	67	67	65	65	67	69	66	72	74	70	70	70	68	68	67	65	65	65	67	
13	65	65	65	65	66	66	66	64	62	61	64	64	61	67	71	74	74	76	73	73	72	72	70	72	68	
14	69	69	69	69	69	69	68	68	70	70	68	68	65	70	74	72	70	70	69	68	66	66	66	66	69	
15	63	63	63	63	63	63	66	66	66	66	64	64	66	68	68	66	66	65	64	64	62	61	59	61	64	
16**	61	59	60	62	62	62	63	62	62	62	61	59	54	58	61	61	61	60	62	60	73	72	72	67	62	
17**	63	61	47	41	35	30	41	48	54	57	61	57	58	58	62	64	66	65	67	67	65	62	64	64	57	
18	64	62	58	57	53	57	58	60	60	57	57	60	59	64	64	64	66	66	65	63	65	65	65	65	61	
19**	61	53	49	51	53	57	60	61	63	60	56	56	(55)	59	66	85	88	91	99	101	87	81	73	53	67	
20**	34	24	30	41	49	56	61	64	65	69	69	69	66	68	72	76	76	75	73	71	71	70	70	70	62	
21	66	66	65	63	61	58	61	60	60	59	64	64	67	69	71	67	71	68	68	70	68	67	69	69	65	
22	67	65	66	66	66	66	66	69	73	69	67	67	64	66	72	72	71	71	69	72	70	70	68	70	68	
23**	67	69	69	67	68	66	66	66	67	67	68	70	62	66	67	75	74	74	70	65	69	79	80	72	69	
24	68	61	62	63	65	62	66	70	69	69	69	69	66	68	80	76	75	73	75	75	70	70	70	70	69	
25*	69	69	67	69	70	68	66	68	67	63	61	61	64	66	72	74	71	71	71	68	68	66	65	63	67	
26	67	65	66	66	66	68	65	65	67	64	60	58	59	61	67	71	72	70	72	70	69	69	67	69	66	
27	64	64	64	65	65	67	67	66	64	62	58	58	61	61	65	69	68	70	70	67	69	69	66	66	65	
28*	66	66	65	67	65	65	66	64	64	61	59	55	58	62	66	70	66	65	69	67	65	64	64	62	64	
29	62	62	63	65	67	67	67	68	62	58	58	60	57	61	69	71	70	68	68	67	67	65	64	62	65	
30	62	62	61	61	63	63	62	62	60	57	53	53	56	60	66	72	69	69	65	66	68	64	67	65	63	
31	63	63	60	60	62	62	61	61	65	60	60	60	63	65	65	67	66	66	66	65	65	65	64	66	63	
Mean	71	70	69	70	70	70	71	71	71	70	70	70	69	73	75	78	76	76	75	75	74	73	72	72	72	
Mean*	73	73	73	73	73	73	72	71	71	69	69	69	71	74	76	76	74	74	74	72	72	71	71	70	72	
Mean**	57	53	51	52	53	54	58	60	62	63	63	62	59	62	66	72	73	73	74	73	73	73	72	65	63	

February. 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	64	62	61	61	60	62	61	59	58	58	57	55	56	56	60	62	63	64	67	65	65	66	64	64	61	
2	61	63	61	60	60	62	61	61	67	62	62	62	61	61	65	64	66	64	67	63	65	64	64	64	63	
3*	61	63	63	60	62	62	63	61	63	58	60	62	59	59	59	65	69	68	70	68	65	67	66	66	63	
4*	63	63	63	64	64	65	63	65	66	66	58	55	59	61	69	66	68	72	69	69	67	68	70	70	65	
5	69	69	67	68	68	68	69	69	71	66	62	62	65	71	73	72	74	75	75	75	74	74	73	73	70	
6	70	70	72	73	71	73	72	72	74	69	63	65	70	72	74	80	84	83	85	83	80	84	83	81	75	
7	84	80	82	83	83	82	82	79	79	78	76	76	75	73	81	82	84	83	86	86	82	82	84	81	81	
8**	83	83	83	82	82	78	78	73	75	79	74	70	71	73	80	87	83	84	84	88	89	89	86	76	80	
9**	68	68	66	57	63	66	66	72	70	71	73	77	78	85	89	96	99	98	98	95	103	99	91	96	81	
10	95	90	92	91	91	93	95	94	96	93	88	84	87	87	93	101	103	103	102	99	96	96	97	97	94	
11	96	96	98	98	97	99	100	100	100	97	95	97	94	96	106	108	106	105	105	106	108	109	107	107	101	
12	104	102	101	101	102	102	103	99	98	98	95	90	94	98	111	112	114	112	108	107	102	102	99	100	102	
13	97	95	94	96	94	95	95	103	93	88	89	84	83	91	99	96	99	97	99	101	97	96	94	93	95	
14	89	92	92	92	93	92	93	93	92	85	82	80	86	91	93	96	99	102	100	99	97	95	94	95	93	
15	92	93	91	89	89	90	90	91	91	92	87	87	86	85	87	91	95	97	95	96	97	93	93	92	91	
16	91	90	91	90	92	93	93	94	94	90	85	83	86	89	93	95	99	97	97	97	99	100	96	96	93	
17	95	91	91	92	93	96	95	93	91	88	92	82	86	97	98	102	105	105	106	109	107	106	101	96	96	
18	94	93	92	92	93	94	95	93	92	90	87	85	87	91	97	98	98	97	97	96	97	98	99	98	94	
19	97	95	95	94	96	95	96	96	98	97	94	90	91	93	94	100	103	110	112	112	112	115	114	112	100	
20	107	100	97	93	88	86	84	82	83	85	89	90	90	96	99	102	102	100	100	100	100	99	98	98	95	
21*	97	96	95	93	93	97	93	95	97	97	94	92	91	98	100	100	98	97	96	94	94	93	93	93	95	
22*	92	91	90	91	90	88	87	87	88	91	90	88	90	92	94	95	93	93	93	92	92	93	91	92	91	
23*	92	93	93	94	94	94	94	95	94	94	91	91	92	95	98	97	97	96	95	95	92	92	92	93	94	
24**	91	92	91	92	92	92	93	92	92	89	87	87	87	89	91	93	96	98	98	104	109	108	107	107	95	
25**	103	100	99	92	94	95	94	92	93	92	83	87	94	97	101	104	105	103	102	101	99	98	99	99	97	
26	97	97	98	98	98	100	102	102	102	101	100	102	97	96	100	102	102	102	103	102	101	102	100	101	100	
27	100	100	101	101	102	102	103	104	103	97	93	93	94	95	98	102	105	104	104	103	102	101	101	101	100	
28**	99	98	98	95	97	99	100	100	101	101	95	91	88	93	94	99	102	101	103	103	103	104	103	105	99	
Mean	88	87	86	85	86	86	86	86	86	87	82	81	82	85	89	92	93	93	93	93	93	93	91	91	88	
Mean*	81	81	81	80	81	81	80	81	82	81	79	78	78	81	84	85	85	85	85	84	82	83	82	83	82	
Mean**	89	88	87	84	86	86	86	86	86	86	82	82	84	87	91	96	97	97	97	98	101	100	97	97	90	

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**	100	100	100	99	98	91	90	88	86	86	86	88	89	95	97	100	101	102	103	103	105	107	106	105	97	
2	102	102	101	101	102	102	103	105	102	107	99	96	95	96	98	101	108	104	104	104	104	104	102	102	102	
3*	100	100	101	100	100	101	104	105	106	104	100	99	97	100	102	105	105	103	102	104	103	103	102	100	102	
4	100	99	98	98	99	99	99	100	99	95	92	87	86	91	95	98	98	95	96	97	97	91	98	97	96	
5**	96	97	96	91	93	94	96	95	98	100	94	90	88	93	99	101	105	107	109	109	107	104	102	102	99	
6	99	98	98	92	90	92	96	99	101	101	96	93	94	100	102	105	105	102	100	101	99	101	100	100	99	
7	98	97	97	97	98	99	99	99	97	93	90	89	91	96	101	102	102	100	98	97	98	98	97	98	97	
8*	98	97	97	96	96	93	93	93	92	90	88	87	86	90	95	98	98	95	95	92	92	92	92	91	93	
9**	89	88	88	87	87	90	90	85	80	73	72	72	73	76	83	90	95	101	101	97	93	91	83	80	86	
10**	83	83	77	79	83	84	86	85	82	74	72	71	71	76	83	92	95	92	87	85	84	85	81	81	82	
11	81	79	78	79	79	76	81	82	83	81	79	74	69	70	73	80	84	87	84	84	84	83	82	83	80	
12	79	81	81	81	82	82	82	82	82	77	72	71	70	73	79	83	85	82	82	81	80	80	79	80	79	
13	78	77	77	77	78	80	80	81	79	74	70	66	65	69	76	79	80	78	78	78	80	79	79	77	76	
14	76	76	76	76	77	78	79	80	76	72	68	68	70	78	81	83	83	82	81	80	79	79	78	77	77	
15**	76	76	76	76	75	74	75	77	74	66	62	61	65	69	81	85	86	87	86	88	89	82	80	79	77	
16	78	77	77	76	76	76	80	81	78	74	70	69	69	74	77	83	84	82	82	80	79	79	78	79	77	
17	77	77	76	75	76	79	82	83	79	73	65	63	65	70	75	81	83	82	83	83	83	83	79	77	77	
18*	77	77	77	78	79	81	82	82	79	75	72	70	71	72	74	80	81	81	81	82	81	80	80	81	78	
19	77	77	77	77	79	80	82	84	81	69	65	65	64	65	71	76	80	80	82	82	82	81	80	81	77	
20	80	78	74	74	75	75	77	78	77	72	63	59	56	65	70	77	82	84	81	80	82	85	86	85	76	
21	84	82	81	81	81	82	82	82	80	76	71	69	70	75	78	80	84	84	83	83	81	81	81	83	80	
22	81	80	79	78	77	77	78	80	79	72	60	57	64	70	76	80	83	84	83	82	80	79	79	80	77	
23	81	79	79	78	76	75	77	78	77	74	69	70	76	82	86	90	90	88	86	84	84	82	81	81	80	
24	81	81	80	80	80	81	82	81	77	72	65	64	64	74	80	85	83	82	80	80	79	80	80	81	78	
25	80	80	80	79	76	78	79	81	79	70	62	62	65	70	75	81	84	84	84	84	84	84	82	82	78	
26	80	78	79	77	76	77	78	78	76	66	57	55	60	65	73	77	78	79	79	79	78	78	79	78	74	
27	78	78	77	75	76	78	79	78	76	68	64	62	63	69	77	87	89	91	91	88	87	84	81	81	78	
28*	79	79	80	80	81	81	80	81	77	70	66	65	64	69	75	79	80	81	81	80	80	79	78	78	77	
29	78	79	79	79	79	79	80	80	75	69	62	58	56	59	66	77	85	92	93	93	93	91	90	86	78	
30	84	84	81	82	82	82	84	82	79	73	66	60	58	64	72	79	83	85	84	84	83	83	83	83	78	
31*	82	80	82	82	82	82	84	84	78	72	69	66	65	69	76	79	83	84	84	84	84	83	83	83	79	
Mean	85	84	84	83	84	84	85	85	83	81	74	72	72	77	82	87	89	89	89	88	87	87	86	86	83	
Mean*	87	87	87	87	88	88	89	89	86	82	79	77	77	80	84	88	89	89	89	88	88	87	87	87	86	
Mean**	89	89	87	86	87	87	87	86	84	80	77	76	77	82	89	94	96	98	97	96	96	94	90	89	88	
April.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	83	82	81	81	81	82	84	82	80	71	69	69	69	73	76	81	87	88	88	92	93	91	88	87	82	
2	86	85	83	83	83	82	85	82	81	75	67	63	65	69	75	80	84	85	80	76	72	72	70	65	77	
3**	65	58	52	52	50	51	53	53	53	50	45	41	41	47	58	68	81	86	87	85	77	71	41	66	60	
4*	65	63	63	63	62	63	66	63	56	52	47	43	45	46	53	57	57	57	56	58	60	60	61	61	57	
5	60	58	57	55	55	55	56	58	56	52	52	45	40	48	57	65	70	71	69	69	69	69	65	64	59	
6	62	64	64	64	64	64	66	66	62	59	52	45	45	54	64	70	75	76	76	75	72	70	64	64	64	
7	64	61	62	61	56	56	59	59	57	51	49	46	49	56	65	71	76	72	74	72	71	70	66	65	62	
8	65	64	57	60	65	69	72	72	69	62	57	54	53	55	64	69	71	73	71	71	70	68	68	69	65	
9**	68	64	61	61	64	64	66	66	64	59	53	51	53	56	66	73	73	70	74	73	71	63	53	51	63	
10**	50	43	36	39	45	54	60	65	65	63	58	48	42	53	65	73	75	74	74	74	73	68	67	57	59	
11	57	60	62	57	58	63	70	70	65	59	55	52	53	57	60	67	70	74	78	77	73	73	69	67	64	
12	65	67	63	59	62	64	67	65	65	63	53	46	48	61	69	76	81	83	85	86	80	77	74	73	68	
13	71	68	69	71	71	71	73	73	67	63	61	58	58	64	73	78	80	80	80	78	76	73	72	73	61	
14	72	72	72	71	73	77	80	80	73	62	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
15**	—	—	—	—	—	—	—	—	—	—	—	46	44	53	63	68	79	85	95	93	82	81	82	79	—	
16	75	68	72	65	77	80	81	79	72	63	60	60	60	62	68	73	79	80	79	79	77	76	77	76	72	
17*	75	75	75	75	73	75	79	77	73	65	56	53	53	60	68	72	73	76	79	79	77	77	77	76	72	
18	75	75	73	72	72	72	76	79	75	67	58	51	48	56	69	75	78	80	79	80	79	78	78	76	72	
19*	75	75	75	74	72	71	72	71	65	59	52	50	52	61	66	69	70	74	75	74	74	72	72	71	68	
20**	70	67	66	64	64	66	67	69	66	56	50	49	46	52	64	74	84	91	91	87	80	79	75	75	69	
21	74	74	69	66	70	71	74	75	71	66	59	51	50	54	66	71	74	78	79	79	77	74	74	73	70	
22	73	73	73	74	74	75	74	73	68	58	49	44	44	55	68	77	80	79	78	78	78	74	74	73	69	
23	73	73	74	74	75	77	75	71	68	58	45	43	49	59	68	73	76	76	76	74	74	73	74	73	69	
24*	73	74	74	74	76	78	76	73	65	57	52	49	54	62	65	73	76	76	74	74	74	74	74	73	70	
25*	73	73	74	74	76	74	73	73	65	55	52	49	48	53	58	67	69	71	69	69	69	69	71	71	67	
26	71	71	72	72	71	71	71	71	67	58	48	47	48	56	68	75	77	77	76	75	75	76	75	73	68	
27	73	75	75	76	76	76	73	71	(68)	(64)	52	46	47	54	64	75	82	93	96	89	82	81	80	77	73	
28	76	77	77	77	80	82	82	82	73	64	59	57	60	62	72	77	80	83	80	81	79	77	79	77	75	
29	75	71	70	67	65	63	63	61	60	56	57	55	53	58	66	70	74	77	79	77	76	76	75	74	67	
30	74	72	75	76	76	77	77	79	76	70	63	60	56	63	72	76	79	83	84	84	83	81	81	79	75	
Mean	70	69	68	67	68	70	71	71	67	61	55	51	51	57	66	72	76	79	79	78	76	74	72	71	68	
Mean*	72	72	72	72	72	72	73	71	65	58	52	49	50	56	62	68	69	71	71	71	71	70	71	70	67	
Mean**	63	58	54	54	56	59	62	63	62	57	52	47	45	52	63	72	78	80	82	80	75	71	59	62	63	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
May.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	77	77	79	79	80	83	83	84	76	70	65	63	61	65	71	75	80	84	84	83	81	80	79	77	77	
2*	77	77	77	77	80	81	80	79	76	66	57	53	59	65	67	70	73	76	78	78	76	75	76	75	73	
3	75	75	75	75	75	75	75	74	71	66	55	49	56	62	66	69	71	75	76	78	78	79	78	76	71	
4**	74	73	75	73	73	75	74	65	57	54	54	60	72	79	97	116	115	115	118	108	98	88	72	74	82	
5**	73	70	64	72	74	77	75	74	74	68	64	61	65	75	81	87	88	91	91	91	88	86	82	77	77	
6	77	77	79	78	79	82	85	82	78	73	65	63	64	69	76	78	82	86	89	89	89	85	85	84	79	
7	82	81	80	82	82	84	82	81	77	63	60	59	58	63	72	80	85	86	87	85	84	84	81	74	77	
8	64	63	65	71	74	80	80	78	73	60	50	50	49	64	73	79	77	83	86	85	83	80	80	77	72	
9	76	71	70	72	75	77	77	75	72	68	62	56	57	62	72	81	88	93	99	95	85	81	80	73	76	
10	75	76	77	79	80	77	76	77	77	71	62	61	63	70	77	81	83	85	84	83	81	79	77	76	76	
11	76	75	76	77	80	80	79	72	67	57	53	53	56	66	67	72	76	82	83	82	79	76	75	72	72	
12*	72	72	74	74	76	79	78	75	69	61	55	43	46	60	69	74	78	80	79	76	75	72	72	71	70	
13	70	70	70	71	72	74	75	74	70	62	48	38	38	48	57	63	66	72	75	75	73	71	70	68	65	
14*	67	65	65	67	70	70	69	66	57	45	43	39	39	57	63	63	63	65	65	65	66	63	63	62	61	
15*	62	62	62	62	63	62	61	59	54	54	37	28	27	44	54	62	63	65	67	65	63	62	62	61	57	
16*	61	61	61	62	62	63	63	61	63	51	38	30	34	43	51	57	59	62	62	61	61	59	61	58	56	
17	58	59	58	58	59	57	56	58	56	47	39	30	28	33	41	46	52	54	57	56	56	57	58	57	51	
18	57	57	57	53	56	56	53	52	51	52	44	39	35	36	47	57	63	69	66	64	62	63	59	56	54	
19	50	50	39	44	47	47	47	47	47	46	45	46	49	59	61	68	71	73	74	71	65	64	63	60	56	
20	60	60	59	58	59	58	54	49	45	45	46	42	46	59	61	62	64	64	65	66	64	64	64	62	57	
21	62	61	62	62	66	69	68	65	62	51	(43)	41	45	51	56	64	69	73	74	69	66	66	66	66	62	
22	65	65	65	64	68	69	66	65	64	59	53	51	53	64	72	74	75	77	74	73	70	69	69	66	66	
23	66	66	68	69	72	73	70	66	65	55	46	41	43	51	59	64	74	80	82	81	80	77	77	75	67	
24	75	75	75	77	78	78	78	80	78	72	57	53	57	65	70	74	82	88	87	85	85	85	85	80	76	
25	80	81	81	82	87	80	80	80	74	70	68	69	67	81	82	85	89	92	94	91	88	85	85	82	81	
26	82	82	84	85	88	88	85	82	80	72	64	64	66	66	73	82	92	99	99	99	95	89	87	84	83	
27	83	83	83	84	87	86	83	79	73	72	71	61	64	65	83	93	97	105	111	108	104	98	93	84	85	
28**	66	61	63	48	52	68	80	83	85	81	78	71	69	80	86	90	97	100	101	100	96	93	90	86	80	
29	82	84	85	88	89	94	95	94	88	80	76	65	63	72	78	84	89	91	88	85	85	83	83	80	83	
30**	73	63	63	63	72	79	83	81	72	61	60	55	59	63	77	82	91	101	112	103	92	87	84	67	77	
31**	49	54	60	67	66	64	65	68	66	61	64	59	60	71	78	84	93	99	98	93	87	78	78	78	73	
Mean	70	69	69	70	72	76	73	72	71	62	56	51	53	62	68	75	79	83	84	82	79	79	75	72	71	
Mean*	68	67	68	68	70	71	70	68	64	55	46	39	41	54	61	65	67	70	70	69	68	66	67	65	63	
Mean**	67	64	65	65	67	73	75	74	71	65	64	61	65	74	84	92	97	101	104	99	92	86	81	76	78	
June.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	73	67	71	77	77	77	79	80	76	72	63	61	64	69	78	87	99	109	104	94	89	84	81	78	80	
2	77	77	77	77	83	84	84	84	80	76	64	59	65	72	82	86	92	95	95	91	87	84	80	70	80	
3	62	56	61	66	73	78	72	72	69	64	61	58	61	66	77	85	89	92	97	94	86	81	81	80	74	
4	73	73	77	80	80	86	83	86	83	77	69	65	65	74	81	85	89	91	90	87	85	84	83	81	82	
5	79	79	76	74	73	77	71	68	71	65	60	53	64	75	81	86	88	86	84	84	81	80	79	78	76	
6	78	78	79	77	79	78	75	72	64	60	55	56	62	64	78	95	99	96	94	89	86	82	82	77	77	
7	76	77	77	78	78	78	78	81	79	68	55	52	57	64	72	79	91	93	87	81	80	77	77	77	76	
8*	78	78	79	80	83	87	88	85	79	66	59	54	49	53	68	77	80	89	88	83	79	76	72	70	75	
9*	69	71	72	75	77	80	80	79	67	57	53	56	55	66	72	81	81	82	83	82	79	76	73	73	72	
10	72	73	72	74	75	75	74	71	68	59	57	57	58	61	75	82	85	92	86	92	88	87	88	85	75	
11	84	82	81	84	85	88	82	79	73	67	64	56	60	66	78	84	87	90	86	95	92	87	82	70	79	
12	68	66	68	68	64	64	68	66	60	56	60	63	62	67	76	79	85	90	84	88	85	82	80	77	72	
13**	73	68	71	76	79	83	77	74	61	58	56	61	72	79	87	95	98	98	100	92	89	85	79	61	78	
14	66	69	71	72	77	75	61	65	60	63	63	68	68	68	71	79	85	83	85	82	82	80	80	77	73	
15	74	74	74	71	70	68	60	68	60	56	53	48	53	61	65	70	71	79	77	76	77	76	74	65	68	
16	65	66	68	68	70	73	71	67	62	58	53	52	53	61	67	74	82	79	79	82	80	77	71	61	68	
17	51	51	56	53	46	49	49	53	58	55	55	51	53	59	64	71	76	77	74	76	73	71	70	71	61	
18	70	70	65	59	65	68	65	68	60	58	56	59	65	64	67	65	70	74	74	73	73	68	68	65	66	
19*	62	59	61	62	68	68	65	67	62	(65)	(51)	49	49	53	55	59	64	71	71	71	71	67	65	62	62	
20*	62	62	64	65	70	70	68	68	70	65	51	43	52	62	71	70	74	77	73	70	70	68	68	68	66	
21*	68	68	67	70	71	73	71	70	67	61	51	45	49	55	62	67	71	74	74	71	70	70	68	68	66	
22	68	68	70	71	74	76	71	68	59	53	46	42	46	52	65	71	73	73	71	74	73	73	71	68	66	
23**	68	68	70	73	73	59	53	56	52	49	48	53	56	61	71	86	89	80	91	88	85	77	77	76	69	
24**	76	75	72	69	63	66	69	68	65	70	71	67	63	69	73	86	101	110	117	115	98	81	67	33	77	
25**	15	52	52	55	56	71	76	79	73	71	68	62	66	70	80	93	104	104	103	95	89	85	83	81	74	
26	81	81	83	85	85	90	93	89	78	73	73	70	72	77	81	66	91	99	104	101	96	93	89	86	85	
27	83	83	83	83	90	93	88	89	82	74	68	61	58	70	80	94	99	101	106	104	98	91	82	71	85	
28**	71	51	41	64	72	72	64	69	71	69	68	69	65	75	81	87	100	106	102	99	91	88	85	82	77	
29	73	63	66	70	78	83	78	72	71	72	69	66	71	76	76	82	82	89	91	92	89	86	83	77	77	
30	66	64	71	75	79	81	76	77	81	81	77	70	68	68	73	84	93	98	98	92	88	85	84	82	80	
Mean	69	69	70	72	74	76	73	73	69	65	60	58	60	66	74	80	86	89	89	87	84	80	78	72	74	
Mean*	68	68	69	70	74	76	74	74	69	63	53	49	51	58	66	71	74	79	78	75	74	71	69	68	68	
Mean**	61	63	61	67	69	70	68	69	64	63	62	62	64	71	78	89	98	100	103	98	90	83	78	67	75	

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	81	81	79	81	82	83	83	82	71	70	65	60	62	73	80	89	94	100	100	98	93	88	84	78	82	
2	74	76	78	80	81	83	85	85	82	74	68	61	57	62	65	79	84	85	87	87	87	85	79	69	77	
3	(68)	(68)	68	67	72	75	75	74	71	69	67	66	65	73	76	78	78	83	82	77	74	71	72	71	73	
4	68	68	67	68	70	74	72	70	63	54	49	44	51	54	67	70	73	75	75	68	68	66	65	65	65	
5	61	60	61	64	66	66	59	56	53	50	47	45	44	44	52	59	88	73	80	76	73	70	67	65	62	
6	64	63	64	66	69	71	69	64	63	57	55	58	64	69	69	73	78	80	77	73	70	66	66	66	67	
7	63	62	63	67	71	72	67	69	67	60	56	50	49	53	59	65	72	75	75	68	68	66	66	65	65	
8	63	62	62	67	70	67	67	69	61	50	45	42	40	41	48	56	64	71	71	68	68	63	63	63	60	
9	65	63	63	66	70	70	67	67	59	59	48	38	41	46	54	63	68	73	73	70	69	66	66	66	62	
10	64	64	64	67	72	72	64	70	64	57	54	53	52	54	66	71	76	85	95	102	98	90	82	71	71	
11	66	69	69	70	65	68	72	72	67	64	62	59	57	55	58	66	69	77	80	84	84	82	79	74	70	
12	70	69	70	74	75	77	78	81	80	72	69	66	60	65	71	78	82	86	84	82	81	79	78	75	75	
13*	76	74	76	77	80	80	80	79	68	60	60	48	57	65	70	73	72	78	84	81	80	78	77	75	73	
14	74	73	73	76	79	78	76	79	73	62	60	57	64	63	64	71	79	80	82	80	80	77	79	74	73	
15**	64	57	64	62	52	57	62	64	60	57	56	59	69	79	82	79	79	87	85	82	81	77	77	77	70	
16*	76	76	76	77	81	81	77	77	69	61	53	50	53	60	58	68	76	74	77	77	76	74	73	69	70	
17*	73	73	74	73	76	76	73	74	73	65	61	57	57	61	66	66	74	76	73	73	71	69	69	66	70	
18*	66	66	68	69	74	73	69	69	66	60	53	49	47	53	60	68	71	74	76	73	69	69	69	68	66	
19	66	66	69	71	74	74	68	66	65	63	57	52	55	60	65	68	71	79	85	82	76	73	73	69	69	
20*	68	68	68	69	74	76	76	76	73	66	57	49	50	55	63	69	71	74	73	73	69	69	69	69	68	
21	68	68	68	68	71	74	73	69	63	57	52	50	52	60	73	77	84	96	96	88	79	74	71	68	71	
22**	68	68	69	66	63	69	69	73	68	60	50	57	57	65	69	74	77	81	87	79	76	71	71	68	69	
23	65	57	61	59	68	68	66	63	60	47	40	40	46	55	63	69	77	85	79	73	70	67	67	64	63	
24	64	64	66	67	71	75	71	71	70	67	62	57	56	56	63	74	82	85	85	79	74	71	68	60	69	
25	60	61	63	66	71	71	71	72	69	56	60	56	55	60	63	71	77	79	79	76	74	71	66	56	67	
26**	58	60	44	41	52	53	52	61	61	55	50	46	53	61	69	77	80	80	77	76	72	69	68	64	62	
27**	53	55	58	56	53	58	66	69	66	55	49	38	36	46	55	62	67	71	76	70	62	59	57	42	57	
28**	39	45	44	30	39	54	58	54	54	48	39	30	37	44	49	60	66	69	73	74	66	53	57	55	52	
29	55	57	57	58	63	63	65	65	60	57	49	47	47	46	49	61	66	74	76	73	69	66	65	58	60	
30	57	60	61	61	66	63	68	73	71	63	52	47	49	52	58	69	74	81	81	74	71	66	66	65	65	
31	65	63	63	65	69	68	73	69	74	73	65	57	57	58	63	73	76	77	77	74	73	71	71	66	68	
Mean	65	66	65	66	69	71	70	70	67	60	55	51	53	58	63	70	76	79	81	78	75	72	71	66	67	
Mean *	72	71	72	73	77	77	75	75	70	62	57	51	53	59	63	69	73	75	77	75	73	72	71	69	69	
Mean**	56	57	56	51	52	58	61	64	62	55	49	46	50	59	65	70	74	78	80	76	71	68	66	61	62	
August.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	68	68	66	66	73	71	71	71	69	61	60	55	58	63	68	71	77	85	87	82	77	74	71	69	70	
2	69	66	66	69	71	71	69	68	63	61	57	52	50	58	66	71	77	81	79	74	74	73	73	69	68	
3	73	69	69	69	71	69	69	71	61	58	58	55	55	58	66	77	82	77	74	81	77	74	61	63	68	
4	63	60	63	71	77	76	76	71	63	55	47	47	50	58	71	87	91	88	87	85	84	82	79	74	71	
5	70	72	75	78	83	83	84	81	79	70	65	55	58	66	77	88	90	91	90	84	72	68	63	58	75	
6	53	49	47	44	49	46	43	40	34	19	15	9	13	18	28	43	56	64	69	64	64	64	63	64	44	
7**	66	68	72	77	84	84	82	87	77	71	72	74	77	87	101	119	124	121	114	109	104	101	88	82	89	
8**	78	78	76	67	67	70	75	83	86	82	85	83	81	88	103	111	113	115	113	105	98	98	87	82	89	
9	82	81	81	81	84	90	95	93	92	87	87	87	87	87	95	105	106	106	110	108	105	101	98	93	93	
10	92	88	84	85	93	92	95	98	95	93	87	87	85	85	98	108	110	106	105	103	103	98	95	93	95	
11*	93	93	93	93	96	100	101	101	100	95	92	82	76	77	87	95	98	98	96	96	95	93	92	92	93	
12*	88	90	88	90	93	93	93	93	90	88	87	79	74	77	88	95	98	96	93	92	88	90	90	88	89	
13*	88	87	85	87	90	92	92	92	90	88	79	71	73	81	87	90	90	90	90	92	88	87	88	87	87	
14	85	85	87	87	90	92	90	87	84	77	76	69	71	74	79	90	95	96	93	92	92	90	90	90	86	
15*	87	85	85	85	88	88	85	82	81	77	73	69	74	76	87	90	90	88	84	82	85	84	84	84	83	
16	82	82	82	82	82	82	84	84	82	74	69	65	66	68	71	81	85	82	81	79	77	76	77	77	78	
17	77	77	77	77	81	79	82	82	79	73	69	63	63	71	79	87	92	98	88	85	85	84	84	81	80	
18**	81	81	77	77	82	81	81	81	81	76	73	68	71	74	88	101	103	100	92	92	87	79	79	71	82	
19	66	63	66	73	81	82	84	84	81	77	76	74	77	79	81	85	84	82	84	84	84	81	82	81	79	
20	76	73	77	79	84	84	84	82	81	71	60	58	57	63	77	85	90	87	84	85	84	82	81	79	78	
21	79	79	81	82	85	87	87	87	85	73	68	68	68	76	82	88	85	87	87	84	82	82	81	77	81	
22**	73	73	77	76	81	84	82	85	76	71	65	60	65	73	79	90	90	95	101	100	93	88	82	50	80	
23**	49	37	18	3	18	35	44	55	66	63	63	77	81	88	96	96	96	95	88	85	82	82	82	79	66	
24	76	79	81	79	85	87	88	87	85	77	69	60	65	74	87	95	93	92	88	88	85	85	84	82	82	
25	77	76	76	79	85	87	88	85	81	74	71	69	68	74	81	85	85	85	85	85	84	82	76	74	80	
26	76	76	71	71	77	81	81	81	73	58	53	52	55	63	73	81	84	85	88	88	88	85	77	76	75	
27	77	77	77	79	82	84	87	87	85	74	66	58	63	69	79	88	92	90	88	87	85	84	84	82	80	
28*	79	79	79	79	82	84	85	87	81	71	66	60	58	66	76	81	79	77	82	84	82	81	81	79	77	
29	79	79	77	79	84	84	85	85	77	65	63	65	63	65	69	75	76	77	77	82	84	82	82	79	76	
30	79	69	60	68	73	76	79	77	73	65	60	60	68	73	81	85	88	85	82	82	82	82	81	79	75	
31	79	79	79	79	82	82	85	87	82	69	65	57	60	73	84	90	88	84	85	87	87	87	85	82	80	
Mean	76	75	74	75	79	81	81	82	79	71	68	64	65	71	80	88	91	90	89	88	86	84	81	78	79	
Mean*	87	87	86	87	90	91	91	91	88	84	79	72	71	75	85	90	91	90	89	89	88	87	87	86	86	
Mean**	60	67	64	60	66	71	73	78	77	73	72	72	75	82	93	103	105	105	102	98	93	90	84	73	81	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
September.								43000 γ + Tabular Quantities (in γ).																		Mean.
1**	76	76	77	79	81	84	88	90	81	69	66	68	74	76	81	84	84	82	85	95	113	89	89	89	82	
2	83	62	48	48	43	54	73	76	75	70	67	59	67	76	81	84	87	87	85	85	85	83	83	83	73	
3	83	85	85	83	85	86	90	91	85	75	74	75	80	88	88	90	93	103	103	90	87	87	87	84	87	
4	82	79	78	78	82	84	89	87	81	71	68	70	72	78	78	88	92	92	86	84	84	83	83	83	81	
5	81	80	81	81	84	86	86	83	78	64	61	64	69	76	80	85	88	89	87	90	86	85	83	83	80	
6	80	77	76	73	76	80	84	83	78	72	70	73	69	74	80	82	85	86	87	87	84	85	82	79	80	
7	76	76	73	73	76	80	80	83	80	75	75	72	78	84	91	109	121	126	125	113	105	103	88	91	90	
8	94	92	92	94	99	100	101	98	96	88	86	84	85	88	92	95	96	94	97	97	96	96	96	96	94	
9	94	94	95	95	98	99	99	99	93	87	82	77	79	86	92	99	104	107	110	110	106	105	101	95	96	
10*	94	94	92	95	99	100	101	101	96	88	83	76	77	87	93	98	97	97	96	96	97	97	99	97	94	
11*	95	95	96	95	98	100	100	100	99	92	87	84	86	91	93	96	97	97	95	97	96	96	97	96	95	
12*	95	95	95	95	95	97	99	99	98	94	88	81	77	80	88	95	97	94	94	92	92	93	95	93	92	
13	93	91	90	90	90	90	92	91	88	83	78	69	72	78	85	90	90	89	91	91	91	91	91	90	87	
14**	90	88	87	87	85	84	85	86	81	79	79	71	70	80	87	100	118	119	121	128	118	102	73	63	91	
15**	33	27	39	59	76	81	84	87	87	84	86	87	93	103	116	135	133	140	133	125	112	105	97	83	92	
16	88	93	98	97	97	102	109	109	103	95	93	100	105	107	110	112	112	112	112	110	109	105	103	95	103	
17	88	78	78	80	83	88	88	95	93	90	88	92	103	114	119	123	117	114	112	110	110	110	109	107	100	
18	105	105	105	105	105	110	109	109	107	102	95	83	85	92	102	112	112	112	112	110	110	107	107	107	105	
19	105	105	105	105	109	110	112	112	109	103	98	95	102	105	109	117	119	121	119	116	114	112	110	107	109	
20	107	105	105	107	109	109	109	110	105	97	90	90	95	105	112	114	110	109	110	114	114	114	109	107	106	
21**	107	107	103	98	98	97	90	78	78	83	92	100.	107	117	119	119	121	117	121	125	125	119	116	110	106	
22	109	107	107	105	107	105	105	100	97	86	78	76	78	83	93	103	105	103	110	116	116	105	98	102	100	
23	107	112	116	117	119	121	126	126	119	112	114	109	114	119	121	126	121	123	125	126	126	123	117	112	119	
24**	116	114	109	90	88	88	92	100	109	114	112	112	119	135	146	149	171	169	158	144	131	110	98	109	120	
25	109	109	109	109	112	116	116	114	110	107	105	109	117	123	126	130	131	135	131	133	133	133	135	135	120	
26	133	133	133	133	137	137	140	138	135	128	123	123	123	123	125	126	135	135	137	137	137	137	133	128	132	
27	126	128	130	130	130	130	133	135	133	128	126	126	126	128	133	135	137	137	135	137	137	137	137	133	132	
28	133	133	133	131	133	135	135	140	140	137	133	126	121	121	123	130	133	135	135	137	137	137	137	133	133	
29*	130	130	130	130	133	135	137	144	144	133	123	123	123	123	123	133	133	130	133	131	133	133	133	133	131	
30*	131	131	130	130	131	133	135	135	133	126	116	109	103	105	119	131	137	133	133	133	133	130	130	126	127	
Mean	98	97	97	96	99	101	103	103	100	94	91	89	92	98	103	110	113	113	113	112	111	107	104	102	102	
Mean*	109	109	109	109	111	113	114	116	114	107	99	95	93	97	103	111	112	110	110	110	110	110	111	109	108	
Mean**	84	82	83	83	86	87	88	88	87	86	87	88	93	102	110	117	125	125	124	123	120	105	95	91	98	
October.								43000 γ + Tabular Quantities (in γ).																		Mean.
1	129	127	127	124	118	118	122	118	113	106	104	95	95	102	109	116	116	116	120	120	118	118	118	120	116	
2*	119	119	119	121	121	121	119	121	117	110	103	99	104	111	111	118	120	118	118	115	118	118	119	118	112	
3*	116	116	116	118	120	120	119	117	113	110	104	101	98	102	109	114	116	116	114	114	112	114	112	114	113	
4	113	115	108	108	106	106	104	104	104	99	96	93	95	102	109	116	114	113	115	121	121	103	93	98	107	
5	101	104	107	107	107	111	112	112	107	102	98	100	99	106	113	124	122	117	117	115	113	113	109	103	109	
6	102	104	107	107	100	105	107	107	105	102	99	93	91	98	106	110	115	113	111	111	111	111	110	108	106	
7	109	107	106	106	107	109	112	112	107	104	92	92	93	98	103	105	107	108	110	108	107	107	103	105	105	
8	104	101	103	103	104	106	106	104	103	101	91	87	86	92	98	107	105	102	104	105	105	104	88	90	104	
9**	89	79	69	69	69	74	81	89	99	103	99	98	97	99	99	116	125	132	132	119	121	114	104	104	99	
10	82	82	90	90	90	94	92	95	95	97	100	94	98	107	112	115	115	114	112	109	107	107	105	103	100	
11	103	99	91	82	85	86	90	92	97	99	94	91	91	100	103	112	124	122	113	110	103	98	93	86	99	
12**	83	83	76	76	80	84	86	93	96	100	98	98	113	110	110	113	121	121	121	112	107	103	103	103	100	
13	101	99	96	96	94	97	104	104	104	106	103	103	98	95	97	105	110	115	119	119	115	111	106	105	104	
14	101	96	86	81	84	94	97	106	111	112	107	106	107	107	107	113	113	113	110	110	108	107	108	108	104	
15	105	101	101	100	101	105	108	110	112	108	101	100	98	105	115	118	118	122	120	118	113	101	98	100	108	
16	94	87	87	90	94	99	104	104	102	97	94	90	93	99	106	110	113	111	110	111	110	110	110	106	101	
17	104	98	100	100	102	105	107	110	110	109	104	102	103	111	111	114	110	110	108	108	108	104	104	104	106	
18*	103	102	102	102	102	102	102	102	102	100	96	93	91	94	99	102	106	104	106	106	104	102	102	102	105	
19	99	99	99	99	99	102	102	102	104	102	94	90	88	91	96	101	106	110	110	108	111	108	103	101	101	
20	98	94	91	88	93	96	98	101	101	96	88	86	83	88	93	102	110	110	107	105	104	102	102	100	99	
21**	99	93	93	92	90	92	93	95	100	99	93	87	96	108	124	129	135	144	160	152	136	109	99	96	109	
22	91	66	80	87	87	86	98	104	106	106	103	103	102	105	114	130	137	134	130	128	125	116	108	108	106	
23**	104	101	101	99	101	104	106	107	107	106	97	97	105	124	141	158	160	146	142	135	128	114	110	95	116	
24**	86	91	91	50	40	43	56	64	79	91	93	100	107	109	111	113	109	105	109	113	102	95	95	99	90	
25	98	96	98	96	94	94	94	96	99	98	93	89	92	93	100	103	100	98	97	97	98	93	90	86	96	
26	83	85	86	86	85	86	90	93	93	86	80	81	85	88	90	93	97	93	92	93	93	92	88	86	89	
27	86	86	85	85	86	86	88	90	90	85	80	76	78	83	86	86	90	86	88	90	86	88	90	90	86	
28	88	83	83	83	83	85	85	85	86	86	80	76	80	85	86	88	90	90	86	86	85	83	83	81	84	
29*	80	78	80	80	80	80	80	80	81	80	73	67	73	76	80	80	81	83	81	81	81	81	83	83	79	
30*	80	80	78	76	76	78	78	80	76	73	64	66	68	76	81	81	83	81	80	78	78	78	78	80	77	
31	78	76	76	76	76	76	76	76	80	76	68	63	67	68	73	78	81	81	97	93	86	81	80	80	78	
Mean	98	95	95	93	93	95	97	99	100	98	93	91	93	98	103	109	111	111	111	110	107	103	100	100	100	
Mean*	100	99	99	99	100	100	100	100	97	96	87	85	87	93	97	100	101	101	100	98	98	99	99	99	97	
Mean**	92	89	86	77	76	79	84	90	96	100	96	96	104	110	117	126	130	130	133	126	119	107	102	99	103	

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

	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h	
November.	43000 γ + Tabular Quantities (in γ).																									Mean.
1**	78	70	50	35	56	60	63	69	80	80	73	69	67	73	83	88	86	85	83	83	80	73	76	76	72	
2**	76	76	76	76	76	80	80	81	81	74	65	66	69	73	78	80	83	90	88	88	90	88	85	81	79	
3	80	76	76	76	78	81	81	80	80	76	(69)	70	76	80	80	83	86	86	83	83	83	83	83	81	80	
4	80	78	76	78	78	80	80	78	76	73	76	(66)	65	63	69	74	76	81	81	81	80	80	78	78	76	
5*	76	76	76	76	76	78	80	80	80	78	73	68	73	77	78	75	83	83	83	81	80	80	78	76	78	
6	76	74	73	74	76	76	76	80	76	76	69	70	69	73	76	81	80	83	81	81	81	81	81	80	77	
7	76	76	76	76	76	80	81	81	81	80	74	74	76	78	81	85	83	83	81	81	80	80	80	79	79	
8	77	77	75	75	74	74	74	76	76	74	71	71	71	73	75	75	77	77	75	77	77	86	88	86	76	
9**	76	69	62	38	30	42	53	42	68	75	75	75	76	74	82	82	87	94	108	106	104	85	69	53	72	
10**	53	36	46	43	43	52	58	65	68	72	80	82	84	88	89	94	105	103	104	99	93	93	90	78	76	
11	56	52	55	50	50	55	64	73	78	76	80	76	79	80	82	84	82	80	79	77	75	75	75	72	71	
12	64	64	62	64	69	71	72	74	78	76	74	74	73	79	80	79	78	77	77	77	77	77	77	77	74	
13	76	74	72	69	70	74	76	77	79	79	82	81	78	83	87	89	94	103	103	101	96	93	89	87	84	
14**	84	80	79	79	78	78	76	78	76	76	74	78	83	89	98	101	125	121	109	105	109	95	86	88	89	
15	88	88	88	88	85	83	83	83	83	88	78	81	86	89	95	98	102	104	106	102	100	95	88	86	90	
16	85	87	87	88	90	94	94	96	97	96	94	94	93	96	100	100	100	100	98	96	98	100	98	96	95	
17	94	92	92	92	92	95	94	95	95	95	90	90	94	100	102	102	102	105	102	102	101	99	99	99	97	
18	97	95	95	95	94	94	96	96	96	94	89	89	91	98	104	102	106	106	100	99	99	94	94	94	97	
19	92	92	90	90	93	93	95	97	98	95	91	89	88	92	95	99	105	103	99	97	97	97	96	96	95	
20	91	91	91	91	93	95	95	95	96	93	94	93	92	95	99	97	101	101	103	101	98	96	96	94	95	
21*	94	91	93	91	92	92	95	95	92	88	86	83	87	87	94	94	96	96	94	94	94	94	92	91	92	
22*	90	90	90	90	90	90	90	90	90	88	82	79	81	85	89	89	90	92	92	92	94	94	92	90	89	
23	88	88	86	88	88	91	93	97	97	95	93	89	88	92	96	97	99	99	97	97	95	93	93	91	93	
24	91	89	87	87	85	88	92	94	94	90	86	86	82	85	87	87	94	98	100	98	100	98	94	94	91	
25	90	88	86	84	86	90	90	90	90	92	88	84	83	87	88	87	92	94	92	92	93	91	91	90	89	
26	86	84	84	84	83	85	87	87	87	83	80	85	88	93	93	89	89	89	88	88	88	86	86	86	87	
27*	85	85	85	85	85	88	90	87	85	81	76	70	75	76	80	84	94	94	89	91	86	88	86	86	85	
28*	86	86	86	86	85	89	89	89	91	87	84	84	88	93	91	91	93	93	91	91	91	90	90	91	89	
29	89	89	90	89	89	87	87	89	89	85	82	82	84	91	93	95	93	93	93	93	92	92	92	92	90	
30	90	92	92	92	91	91	91	91	91	91	91	87	84	86	88	90	94	95	94	92	90	90	90	90	91	
Mean	82	80	79	78	78	81	83	84	85	83	81	80	81	85	87	89	93	94	92	92	91	89	87	85	85	
Mean*	86	86	86	86	86	87	89	88	88	84	80	77	81	84	86	87	91	92	90	90	89	89	88	87	87	
Mean**	73	66	63	54	57	62	66	67	75	75	73	74	76	79	86	89	97	99	98	96	95	87	81	75	78	
December.	43000 γ + Tabular Quantities (in γ).																									Mean.
1	90	88	90	88	88	88	90	90	88	86	82	80	80	86	89	88	92	90	90	88	86	86	86	86	87	
2	85	83	83	83	83	85	86	83	83	83	81	83	85	89	91	91	90	88	86	86	85	85	85	85	85	
3*	85	83	83	81	81	83	83	81	78	76	79	79	83	85	86	88	86	85	85	85	85	83	83	81	83	
4	81	78	79	78	78	78	78	78	76	70	65	67	68	68	74	74	81	83	79	81	79	81	79	76	76	
5	76	76	76	74	76	78	78	78	76	76	72	72	76	79	81	81	79	83	79	81	85	88	83	79	78	
6**	76	70	67	69	70	72	72	72	74	74	74	74	81	90	96	109	109	103	94	92	92	90	86	85	83	
7**	83	83	79	74	72	76	78	81	81	85	76	70	76	83	87	94	92	86	85	85	83	79	78	78	81	
8	74	72	72	72	72	72	72	65	67	67	65	69	69	72	72	69	70	69	67	67	65	63	63	61	69	
9	58	56	56	52	58	58	58	58	58	60	52	52	54	58	60	60	63	63	65	63	63	60	60	60	59	
10	58	58	58	60	61	63	65	60	60	60	56	56	63	65	65	69	72	76	72	74	74	72	65	65	64	
11	65	63	61	61	63	65	67	67	67	63	58	56	61	67	68	68	72	72	69	69	67	65	70	69	66	
12	65	63	63	61	63	65	63	61	61	61	54	56	61	61	65	69	69	69	69	69	67	67	67	65	64	
13	61	61	61	61	61	61	61	61	60	56	58	56	60	65	72	76	76	74	70	69	69	72	72	70	65	
14*	65	65	63	63	63	67	67	67	65	69	68	60	58	65	72	72	76	76	72	72	72	72	72	67	68	
15	67	67	65	65	65	67	69	67	65	69	65	59	61	64	76	79	86	90	94	92	92	90	85	79	74	
16	76	70	65	61	60	60	60	61	61	60	64	65	62	69	72	72	79	76	72	72	69	69	69	69	67	
17*	69	67	67	67	67	70	70	69	67	65	67	67	65	69	72	78	74	72	72	69	67	67	65	65	69	
18**	63	63	61	60	61	63	65	61	61	61	63	63	65	69	74	76	81	86	94	88	86	83	78	72	68	
19	74	72	72	70	70	72	72	70	69	65	65	65	69	70	72	79	79	76	76	74	74	74	76	74	72	
20	72	72	76	74	72	72	70	69	70	72	72	72	76	78	81	83	81	83	79	79	81	78	78	76	76	
21*	72	72	74	74	74	76	79	78	78	76	79	79	83	85	85	85	81	81	79	79	78	78	78	76	78	
22	76	76	74	76	76	74	74	74	74	74	72	74	76	76	78	80	85	85	85	86	86	85	83	83	78	
23	79	79	76	76	76	76	76	74	74	65	67	65	72	76	78	78	76	78	78	76	76	78	78	74	74	
24	72	72	72	72	74	76	76	74	74	70	76	74	72	78	83	85	83	83	79	79	76	76	76	78	76	
25	76	72	72	70	69	69	69	69	70	69	67	72	72	72	76	76	74	74	72	72	74	74	74	72	72	
26*	72	70	72	70	70	69	72	72	72	72	74	72	67	63	70	74	76	76	76	74	74	74	76	74	72	
27**	74	74	72	69	69	69	69	69	69	65	65	69	72	74	78	81	85	97	116	136	142	103	96	96	84	
28**	90	90	86	83	81	79	81	81	63	63	83	90	90	94	97	96	96	96	96	96	96	97	94	94	88	
29	92	90	88	88	88	90	90	86	85	83	81	81	83	83	86	90	92	90	90	86	86	86	86	90	87	
30	88	85	85	85	83	85	85	83	83	81	81	83	83	85	88	85	83	83	83	83	83	81	83	81	84	
31	81	79	79	78	76	79	79	76	72	72	68	68	68	75	75	75	81	83	83	86	86	86	83	79	77	
Mean	75	73	72	71	72	73	73	72	71	70	69	69	71	74	78	80	81	81	81	81	80	79	78	76	75	
Mean *	73	71	72	71	71	73	74	73	72	72	73	71	71	73	77	79	79	78	77	76	75	75	75	73	74	
Mean**	77	76	73	71	71	72	73	73	70	70	72	73	77	82	86	91	93	94	97	99	100	90	86	85	81	

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

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	1·2	0·4	2·2	3·7	3·1	3·5	3·5	3·0	2·0	0·4	1·1	1·0	1·61
1h.	1·8	0·8	2·4	3·7	3·1	3·2	3·1	3·2	2·1	1·2	1·6	1·2	1·80
2	2·0	1·1	2·4	3·8	3·1	3·1	3·6	3·0	1·7	1·2	2·0	1·6	1·90
3	2·1	1·2	2·4	3·4	2·7	2·8	3·6	2·8	1·9	1·4	1·8	1·8	1·85
4	2·1	1·1	2·2	3·0	1·9	1·9	2·0	2·4	1·6	2·1	2·2	1·6	1·53
5	1·8	1·3	1·8	2·6	1·1	1·2	0·5	1·3	1·2	1·8	2·3	1·6	1·06
6	1·5	1·3	1·5	1·6	0·4	0·5	0·2	0·6	0·7	1·8	1·9	1·5	0·65
7	1·2	1·0	0·7	0·3	0·0	0·0	0·0	0·0	0·0	0·7	1·4	2·0	0·13
8	0·6	0·3	0·0	0·0	0·2	0·4	0·3	0·6	0·9	0·0	0·7	1·8	0·00
9	0·9	0·3	0·8	1·4	1·7	1·8	1·6	2·6	2·8	0·8	1·1	1·7	0·98
10	1·9	1·5	3·2	4·1	4·4	4·7	4·5	5·7	5·5	3·0	2·9	2·6	3·19
11	3·0	3·3	5·9	7·2	7·0	7·6	7·2	8·3	8·1	6·1	5·0	4·0	5·58
Noon	4·2	4·8	7·9	9·4	8·9	9·9	9·3	10·2	9·2	7·9	6·3	5·0	7·27
13h.	4·6	5·4	8·4	10·1	9·0	10·5	10·3	10·7	8·7	8·5	6·4	5·5	7·70
14	4·0	5·2	7·7	9·0	8·3	10·2	10·1	9·8	7·4	7·5	5·7	5·1	7·02
15	3·2	4·1	6·2	7·4	7·1	8·6	8·9	7·9	5·5	6·4	4·8	4·4	5·73
16	2·8	3·2	4·5	6·0	6·1	7·0	7·4	6·2	3·7	4·9	4·1	3·8	4·50
17	2·5	2·9	3·8	5·0	5·0	5·9	6·0	5·2	2·8	3·7	3·3	3·7	3·67
18	2·1	2·6	3·4	4·0	3·7	5·1	5·1	4·5	2·8	2·8	2·4	3·1	2·99
19	1·3	1·9	2·9	3·8	3·5	4·4	4·5	4·0	2·3	1·9	1·4	2·2	2·36
20	0·5	0·9	2·6	3·2	3·6	4·4	4·4	4·0	2·0	0·9	0·9	1·2	1·90
21	0·2	0·5	2·1	3·4	3·6	3·8	4·0	3·8	1·7	0·7	0·3	0·2	1·55
22	0·0	0·2	2·0	3·3	3·6	3·4	4·0	3·3	1·9	0·1	0·0	0·0	1·34
23	0·7	0·0	2·0	3·6	3·3	3·7	3·6	3·0	2·0	0·1	0·2	0·6	1·42
Means	1·93	1·89	3·29	4·29	3·93	4·48	4·49	4·42	3·27	2·75	2·49	2·38	5·64

TABLE V.—DIURNAL RANGE OF DECLINATION, ON EACH CIVIL DAY, AS DEDUCED FROM TABLE I.

1925.

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

The mean of the twelve monthly values is 9′·83.

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

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

January	4, 10, 11, 25, 28.	April	4, 17, 19, 24, 25.	July	13, 16, 17, 18, 20.	October	2, 3, 18, 29, 30.
February	3, 4, 21, 22, 23.	May	2, 12, 14, 15, 16.	August	11, 12, 13, 15, 28.	November	5, 21, 22, 27, 28.
March	3, 8, 18, 28, 31.	June	8, 9, 19, 20, 21.	September	10, 11, 12, 29, 30.	December	3, 14, 17, 21, 26.

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	1·5	1·6	2·0	3·9	3·6	4·5	4·1	3·6	3·4	2·5	0·5	0·4	2·47
1h.	1·8	1·8	1·9	3·8	3·3	4·3	3·7	3·6	3·4	2·5	0·8	0·4	2·45
2	2·0	1·8	1·9	3·6	3·1	4·6	3·5	3·4	3·1	2·4	1·1	0·8	2·45
3	2·0	1·9	2·0	3·4	2·7	4·0	3·1	3·0	2·7	2·1	1·3	0·8	2·26
4	2·0	1·4	1·9	3·0	1·9	2·8	1·9	2·5	2·6	2·1	1·2	0·6	1·83
5	1·5	1·2	1·6	2·5	0·9	1·3	0·5	1·4	1·9	1·8	1·1	0·5	1·19
6	1·1	1·0	1·3	1·4	0·7	0·9	0·1	0·6	1·1	1·7	0·9	0·4	0·77
7	0·7	0·7	0·6	0·3	0·0	0·1	0·0	0·0	0·0	0·7	0·6	0·5	0·19
8	0·0	0·0	0·0	0·0	0·2	0·0	0·5	0·2	0·4	0·0	0·0	0·6	0·00
9	0·1	0·0	0·3	1·3	1·4	1·7	1·8	2·0	1·9	0·3	0·4	0·8	0·84
10	1·3	1·4	2·2	3·4	3·4	4·9	4·6	4·2	5·0	2·9	1·8	1·5	2·89
11	2·0	3·0	4·4	6·0	5·6	8·4	6·9	6·6	8·2	5·7	3·6	2·3	5·06
Noon	3·1	4·5	6·1	7·9	7·2	11.0	8·6	8·6	9·8	7·7	4·6	3·6	6·73
13h.	3·5	4·8	6·6	8·5	7·6	11·7	9·6	9·4	9·1	7·7	4·8	4·3	7·14
14	3·1	4·5	6·2	7·7	7·0	11·0	9·6	8·9	7·7	7·0	4·2	4·0	6·58
15	2·7	3·2	5·0	6·5	5·9	9·1	8·2	7·5	5·7	5·7	3·4	3·3	5·36
16	2·2	2·3	3·6	5·6	5·3	7·4	6·6	6·0	4·3	4·6	3·0	2·6	4·30
17	1·8	1·9	2·9	5·0	4·6	6·1	5·5	5·1	3·9	4·0	2·6	2·1	3·63
18	1·5	1·6	2·6	4·7	4·2	5·3	4·8	4·8	4·3	3·6	2·0	1·9	3·28
19	1·1	1·4	2·4	4·7	4·1	4·6	4·4	4·7	4·2	3·3	1·7	1·4	3·01
20	0·8	1·1	2·5	4·6	4·1	4·4	4·3	4·9	4·2	2·9	1·3	0·8	2·83
21	0·6	1·0	2·2	4·5	4·1	4·7	4·2	5·0	4·0	3·0	1·0	0·3	2·72
22	0·7	1·1	2·2	4·5	4·1	5·1	4·3	4·5	4·2	2·3	1·0	0·1	2·68
23	1·0	1·2	2·1	4·4	3·9	5·0	4·3	4·4	4·1	2·7	1·1	0·0	2·69
Means	1·59	1·58	2·69	4·22	3·70	5·12	4·38	4·37	4·13	3·30	1·83	1·42	3·06

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

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

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

1925.

Greenwich Civil Time Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midnight	3·8	0·7	1·0	3·1	1·3	2·5	1·6	0·9	2·0	0·5	3·3	2·1	0·47
1h.	5·0	1·6	1·3	4·1	0·0	2·7	0·6	0·9	3·9	3·3	4·0	2·5	1·06
2	5·3	2·7	1·1	3·7	2·6	2·3	3·6	1·0	5·3	3·6	5·4	3·0	1·87
3	5·4	2·4	0·5	3·1	2·8	2·2	5·7	1·9	5·5	4·5	4·3	2·7	1·99
4	6·3	2·1	0·7	2·5	1·9	1·8	1·9	3·0	4·9	7·0	6·6	2·6	2·01
5	5·5	3·2	0·1	2·3	2·0	1·9	0·0	2·0	4·9	6·3	8·0	2·8	1·82
6	5·0	4·0	0·2	1·2	2·2	1·1	0·4	0·8	4·2	7·5	7·8	2·4	1·64
7	5·3	4·2	0·2	0·0	3·1	0·0	1·4	0·0	4·4	6·5	6·6	4·8	1·61
8	4·6	3·3	0·4	0·1	2·3	1·4	2·5	0·9	6·6	5·0	5·3	5·1	1·70
9	4·9	2·6	1·3	1·6	3·1	2·1	3·2	3·5	7·4	6·0	5·5	2·7	2·23
10	5·8	3·7	4·0	4·7	6·7	4·3	5·9	6·1	9·2	8·0	6·9	3·2	4·28
11	7·1	5·9	6·8	8·3	8·6	7·1	7·9	8·0	10·8	11·5	8·7	5·4	6·58
Noon	8·2	7·2	8·2	11·0	11·1	9·8	9·5	10·8	11·8	12·3	10·3	6·0	8·25
13h.	8·9	7·7	9·1	11·1	10·9	10·3	10·5	11·8	11·5	13·5	10·3	7·0	8·79
14	8·4	7·5	7·9	10·3	10·6	10·9	10·0	10·4	10·0	11·9	10·2	6·9	8·15
15	6·7	6·2	6·2	8·9	9·2	10·2	9·4	7·7	8·3	11·8	9·4	6·6	6·95
16	7·4	5·4	3·6	7·2	7·2	8·2	7·6	5·8	5·3	9·1	8·7	6·5	5·40
17	7·1	5·1	3·3	5·7	5·9	5·9	6·2	4·9	3·7	6·9	7·1	6·2	4·24
18	6·7	4·6	3·1	3·8	3·1	5·9	5·6	3·5	4·0	4·8	3·9	5·7	3·13
19	4·7	4·0	2·1	3·2	3·4	4·7	4·9	2·7	2·3	2·3	2·2	3·5	1·90
20	2·5	2·2	1·2	0·8	4·5	5·2	5·1	1·7	0·0	0·8	1·2	0·9	0·75
21	0·6	2·0	0·0	1·0	4·9	2·6	3·6	0·7	0·9	0·7	0·9	0·1	0·07
22	0·0	1·0	0·2	2·0	5·7	0·9	4·2	1·3	1·8	0·0	0·0	0·0	0·00
23	2·4	0·0	1·0	3·2	5·4	1·6	4·2	0·4	2·0	0·3	1·7	1·0	0·50
Means	5·32	3·72	2·65	4·29	4·94	4·40	4·81	3·78	5·45	6·00	5·76	3·74	6·28

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.)

1925.

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

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.)

1925.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	11γ	35γ	49γ	31γ	30γ	65γ	65γ	48γ	82γ	42γ	77γ	35γ
2	21	21	24	37	31	62	49	45	91	37	28	35
3	32	17	22	56	43	79	41	59	55	34	21	9
4	16	23	35	33	98	51	44	60	50	52	33	18
5	49	25	53	56	49	31	37	49	53	77	28	29
6	22	19	29	46	40	41	40	46	53	55	37	82
7	25	24	30	42	42	38	45	89	53	35	39	42
8	21	25	28	44	34	49	38	83	45	33	42	46
9	14	39	47	56	47	56	48	75	42	78	64	26
10	18	21	39	61	40	48	54	46	35	47	44	37
11	24	21	26	64	44	40	38	35	37	68	63	30
12	24	34	29	56	44	44	45	38	49	67	29	28
13	40	21	28	44	39	88	42	47	39	52	46	35
14	30	23	28	49	29	42	63	31	66	60	63	35
15	36	23	77	50	28	39	91	40	81	72	42	60
16	21	24	34	57	21	46	26	49	74	37	30	35
17	44	34	40	35	21	49	22	42	70	43	47	25
18	36	28	37	40	39	47	28	51	59	42	44	49
19	68	32	39	45	43	51	—	44	33	45	40	25
20	34	40	40	74	35	45	57	43	46	49	48	30
21	32	25	28	40	37	41	64	75	109	87	21	15
22	16	21	43	55	36	42	80	65	88	47	20	21
23	27	21	51	37	48	84	57	115	47	86	38	30
24	35	33	34	38	37	72	58	69	98	100	24	33
25	24	34	27	35	36	75	61	73	52	56	31	14
26	25	21	30	31	43	51	67	56	38	52	21	17
27	22	26	31	42	28	72	92	43	26	29	28	82
28	21	49	27	35	48	80	63	48	22	42	23	96
29	28		33	42	56	47	48	43	26	33	—	17
30	28		39	31	81	56	54	66	32	35	23	33
31	23		37		59		42	59		45		21
Means	27·8	27·1	35·9	45·4	42·1	54·4	52·0	55·9	55·0	52·8	37·8	35·2

The mean of the twelve monthly values is 43·5γ.

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

Each result is the mean of the corresponding hourly ordinates from the photographic registers, on five selected 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	4, 10, 11, 25, 28.	April	4, 17, 19, 24, 25.	July	13, 16, 17, 18, 20.	October	2, 3, 18, 29, 30.
February	3, 4, 21, 22, 23.	May	2, 12, 14, 15, 16.	August	11, 12, 13, 15, 28.	November	5, 21, 22, 27, 28.
March	3, 8, 18, 28, 31.	June	8, 9, 19, 20, 21.	September	10, 11, 12, 29, 30.	December	3, 14, 17, 21, 26.

1925.

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

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

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

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

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	16γ	21γ	30γ	39γ	52γ	48γ	58γ	60γ	54γ	43γ	19γ	29γ	35·6γ
1h.	20	18	29	40	43	52	55	63	49	42	27	33	35·8
2	23	21	34	35	40	55	50	66	49	49	31	32	36·9
3	21	29	34	34	42	52	50	65	47	61	36	34	38·6
4	21	26	33	38	38	54	55	51	46	58	26	38	36·8
5	23	25	41	36	30	51	55	44	47	46	21	39	34·7
6	15	24	38	39	23	42	41	45	17	51	30	35	29·8
7	16	24	36	36	19	30	31	32	8	37	30	23	23·3
8	12	25	33	23	22	18	25	15	1	34	22	21	17·4
9	8	20	24	11	11	12	16	4	3	33	12	7	9·9
10	4	14	12	2	0	9	11	0	0	19	4	5	3·2
11	3	6	1	0	2	8	0	14	2	4	0	2	0·0
Noon	3	0	0	1	2	0	9	23	2	0	1	3	0·2
13h.	6	3	6	4	4	9	15	29	3	16	4	0	4·8
14	9	8	2	15	17	23	24	42	14	23	6	3	12·0
15	4	12	12	19	19	33	34	54	21	26	9	5	17·2
16	0	15	15	21	28	51	40	53	27	30	4	3	20·4
17	3	14	17	25	44	59	54	58	29	27	7	6	25·1
18	4	13	17	32	49	64	55	60	33	28	8	5	27·2
19	7	11	23	31	42	60	57	60	29	18	9	7	26·0
20	5	12	24	44	40	57	49	62	35	21	7	12	27·2
21	1	12	29	35	38	56	48	60	27	26	20	21	27·6
22	5	15	32	33	37	59	46	70	28	32	22	16	29·4
23	7	17	26	36	37	43	48	67	29	32	18	17	27·9
Means	9·8	16.0	22·8	26·2	28·3	39·4	38·6	45·7	25·0	31·5	15·5	16·5	22·8

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.)

1925.

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

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.)

1925.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d.												
1	17γ	12γ	21γ	24γ	23γ	48γ	40γ	32γ	47γ	34γ	53γ	12γ
2	7	7	12	23	28	36	30	31	44	22	25	10
3	9	12	9	46	30	41	18	27	29	22	17	12
4	4	17	14	23	64	26	31	44	24	28	18	18
5	13	13	21	31	30	35	44	36	29	26	15	16
6	6	22	15	31	26	44	25	60	18	24	14	42
7	7	13	13	30	29	41	26	58	54	20	11	24
8	10	19	12	20	37	40	31	48	17	20	17	13
9	10	46	29	23	43	30	35	29	33	63	78	13
10	11	19	24	38	24	35	50	26	25	33	69	20
11	8	15	18	26	30	39	29	25	16	42	34	16
12	9	24	15	40	37	34	26	24	22	45	18	15
13	15	20	16	22	37	44	36	21	24	25	34	20
14	9	22	15	—	31	25	25	27	65	32	51	18
15	9	12	28	—	40	31	35	21	113	24	28	35
16	19	17	15	21	33	30	31	20	24	26	15	19
17	37	27	20	26	31	31	19	35	45	16	15	13
18	13	14	12	32	34	18	29	35	29	15	17	34
19	52	25	20	25	35	22	33	22	26	23	17	14
20	52	25	30	45	24	34	27	33	24	27	10	14
21	13	9	15	29	33	29	46	20	47	73	13	13
22	9	8	27	36	26	34	37	41	40	71	15	14
23	18	7	21	34	41	43	45	93	19	63	13	14
24	19	22	21	29	35	84	29	35	83	73	18	13
25	13	22	22	28	27	89	24	20	28	14	11	9
26	14	7	25	30	35	34	39	36	17	13	13	13
27	12	12	29	50	50	48	40	34	11	14	24	77
28	15	17	17	26	53	65	44	29	19	14	9	34
29	14		37	26	32	29	30	22	21	16	13	11
30	19		27	28	57	34	34	28	34	19	11	7
31	7		19		50		20	33		34		18
Means	15·2	17·3	20·0	30·1	35·6	39·1	32·5	33·7	34·2	31·3	23·2	19·4

The mean of the twelve monthly values is 27·6γ.

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

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

January	4, 10, 11, 25, 28.	April	4, 17, 19, 24, 25.	July	13, 16, 17, 18, 20.	October	2, 3, 18, 29, 30.
February	3, 4, 21, 22, 23.	May	2, 12, 14, 15, 16.	August	11, 12, 13, 15, 28.	November	5, 21, 22, 27, 28.
March	3, 8, 18, 28, 31.	June	8, 9, 19, 20, 21.	September	10, 11, 12, 29, 30.	December	3, 14, 17, 21, 26.

1925.

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

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 ordinate 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	16, 17, 29, 20, 23.	April	3, 9, 10, 20.	July	15, 22, 26, 27, 28.	October	9, 12, 21, 23, 24.
February	8, 9, 24, 25, 28.	May	4, 5, 28, 30, 31.	August	7, 8, 18, 22, 23.	November	1, 2, 9, 10, 14.
March	1, 5, 9, 10, 15.	June	13, 23, 24, 25, 28.	September	1, 14, 15, 21, 24.	December	6, 7, 18, 27, 28.

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	6γ	7γ	13γ	18γ	6γ	0γ	10γ	9γ	2γ	16γ	19γ	7γ	6·1γ
1h.	2	6	13	13	3	2	11	7	0	13	12	6	4·0
2	0	5	11	9	4	0	10	4	1	10	9	3	2·2
3	1	2	10	9	4	6	5	0	1	1	0	1	0·0
4	2	4	11	11	6	8	6	6	4	0	3	1	1·9
5	3	4	11	14	12	9	12	11	5	3	8	2	4·5
6	7	4	11	17	14	7	15	13	6	8	12	3	6·5
7	9	4	10	18	13	8	18	18	6	14	13	3	7·9
8	11	4	8	17	10	3	16	17	5	20	21	0	7·7
9	12	4	4	12	4	2	9	13	4	24	21	0	5·8
10	12	0	1	7	3	1	3	12	5	20	19	2	3·8
11	11	0	0	2	0	1	0	12	6	20	20	3	3·0
Noon	8	2	1	0	4	3	4	15	11	28	22	7	5·5
13h.	11	5	6	7	13	10	13	22	20	34	25	12	11·5
14	15	9	13	18	23	17	19	33	28	41	32	16	18·7
15	21	14	18	27	31	28	24	43	35	50	35	21	25·6
16	22	15	20	33	36	37	28	45	43	54	43	23	30·0
17	22	15	22	35	40	39	32	45	43	54	45	24	31·4
18	23	15	21	37	43	42	34	42	42	57	44	27	32·3
19	22	16	20	35	38	37	30	38	41	50	42	29	29·9
20	22	19	20	30	31	29	25	33	38	43	41	30	26·8
21	22	18	18	26	25	22	22	30	23	31	33	20	20·9
22	21	15	14	14	20	17	20	24	13	26	27	16	15·6
23	14	15	13	17	15	6	15	13	9	23	21	15	11·4
Means	12·5	8·4	12·0	17·8	16·6	13·9	15·9	21·0	16·3	26·7	23·6	11·3	13·0

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 $\alpha'_1\ \alpha_2'\ \alpha_3'\ \alpha_4'$ may be obtained from $\alpha_1\ \alpha_2\ \alpha_3\ \alpha_4$ 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, 1925.	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 ...	− 1·06	− 0·34	+ 0·16	+ 1·19	− 0·33	− 0·09	+ 0·24	+ 0·25	1·12	252·3	1·20	7·7	0·34	254·7	0·34	43·8
February...	− 1·51	− 1·03	+ 0·09	+ 1·17	− 0·38	− 0·42	+ 0·22	+ 0·38	1·83	235·7	1·18	4·6	0·57	222·1	0·44	30·1
March	− 1·67	− 1·60	+ 0·98	+ 1·63	− 0·74	− 0·69	+ 0·31	+ 0·32	2·31	226·2	1·90	31·0	1·02	227·0	0·45	44·1
April	− 1·55	− 1·94	+ 1·42	+ 2·02	− 0·82	− 0·70	+ 0·40	+ 0·15	2·48	218·6	2·47	35·1	1·08	229·5	0·42	69·4
May	− 1·60	− 2·25	+ 1·55	+ 1·56	− 0·69	− 0·46	+ 0·16	− 0·04	2·76	215·4	2·20	44·8	0·83	236·3	0·17	104·0
June	− 1·97	− 2·83	+ 1·53	+ 1·83	− 0·71	− 0·53	+ 0·17	+ 0·17	3·45	214·8	2·38	39·9	0·88	233·3	0·24	45·0
July.....	− 1·73	− 2·94	+ 1·47	+ 1·93	− 0·65	− 0·46	− 0·08	+ 0·04	3·41	210·5	2·43	37·3	0·79	234·7	0·09	296·6
August	− 2·25	− 2·39	+ 1·73	+ 1·63	− 0·99	− 0·49	+ 0·12	+ 0·06	3·28	223·3	2·38	46·7	1·11	243·7	0·13	63·4
September	− 2·45	− 1·30	+ 1·80	+ 1·15	− 0·97	− 0·34	+ 0·35	+ 0·07	2·77	242·1	2·13	57·4	1·03	250·7	0·36	78·7
October ...	− 2·60	− 1·41	+ 0·57	+ 1·85	− 0·69	− 0·70	+ 0·41	+ 0·25	2·96	241·5	1·93	17·1	0·98	224·6	0·48	58·6
November	− 1·92	− 0·70	+ 0·35	+ 1·49	− 0·49	− 0·31	+ 0·37	+ 0·23	2·05	250·0	1·53	13·2	0·58	237·7	0·44	58·1
December	− 1·70	− 0·78	+ 0·02	+ 1·00	− 0·21	− 0·01	+ 0·19	+ 0·34	1·87	245·4	1·00	1·2	0·21	244·5	0·40	29·2
For the Year	− 1·83	− 1·63	+ 0·97	+ 1·54	− 0·64	− 0·44	+ 0·24	+ 0·18	2·45	228·3	1·82	32·2	0·78	235·5	0·30	53·1
	NORTH FORCE.															
January ...	+ 4·6	+ 3·0	− 4·3	− 1·1	+ 1·3	− 0·9	− 0·7	+ 0·8	5·5	56·9	4·4	255·7	1·6	124·7	1·0	318·8
February...	+ 4·9	+ 5·2	− 4·0	− 1·6	+ 2·1	0·0	− 0·6	+ 0·1	7·1	43·3	4·3	248·2	2·1	90·0	0·6	260·6
March	+ 10·1	+ 3·2	− 6·9	− 2·5	+ 3·3	− 0·8	− 1·0	+ 0·7	10·6	72·4	7·3	250·1	3·4	103·6	1·2	305·0
April	+ 13·4	+ 0·9	− 7·8	− 1·2	+ 3·0	− 1·5	− 0·3	+ 1·2	13·4	86·2	7·9	261·2	3·4	116·6	1·2	346·0
May	+ 12·4	− 4·0	− 6·8	+ 0·1	+ 1·2	+ 0·4	+ 0·9	+ 0·7	13·0	107·9	6·8	270·8	1·3	71·6	1·1	52·1
June	+ 15·3	− 7·2	− 9·3	+ 1·0	+ 0·3	+ 0·5	+ 1·0	+ 0·2	16·9	115·2	9·4	276·1	0·6	31·0	1·0	78·7
July	+ 14·2	− 4·3	− 8·9	+ 0·5	+ 1·4	− 0·3	+ 0·8	− 0·1	14·8	106·9	8·9	273·2	1·5	102·1	0·8	97·1
August	+ 16·7	− 6·8	− 7·1	+ 3·2	+ 1·0	− 2·6	+ 0·4	+ 0·9	18·0	112·2	7·8	294·3	2·8	159·0	1·0	24·0
September	+ 16·7	− 4·1	− 5·0	+ 2·3	+ 0·4	− 2·7	+ 0·1	+ 0·7	17·2	103·8	5·5	294·7	2·7	171·6	0·7	8·1
October.....	+ 14·6	+ 3·2	− 6·8	+ 0·1	+ 1·9	− 1·3	− 1·3	+ 0·6	14·9	77·6	6·8	270·8	2·3	124·4	1·5	294·8
November	+ 9·5	+ 3·2	− 6·1	− 0·9	+ 2·4	− 0·9	− 1·0	+ 0·7	10·0	71·4	6·2	261·6	2·6	110·6	1·2	305·0
December	+ 6·1	+ 5·2	− 3·9	− 1·9	+ 1·3	0·0	− 0·5	− 0·2	8·1	49·6	4·3	244·0	1·3	90·0	0·6	248·2
For the Year	+ 11·5	− 0·3	− 6·4	− 0·2	+ 1·6	− 0·8	− 0·2	+ 0·6	11·5	91·5	6·4	268·3	1·8	116·6	0·6	341·6
	VERTICAL FORCE.															
January ...	− 0·3	− 3·0	− 1·4	+ 0·4	+ 1·0	− 0·3	− 0·4	− 0·1	3·0	185·7	1·5	285·9	1·0	106·7	0·4	256·0
February...	+ 2·4	− 4·0	− 2·1	− 0·7	+ 1·5	− 0·2	− 0·8	− 0·3	4·6	149·0	2·2	251·6	1·5	97·6	0·8	249·4
March	+ 4·2	− 2·3	− 4·2	− 0·2	+ 2·6	0·0	− 0·9	− 0·1	4·8	118·7	4·2	267·2	2·6	90·0	0·9	263·7
April	+ 6·6	− 4·2	− 7·2	− 0·7	+ 3·3	0·0	− 0·7	+ 0·4	7·8	122·5	7·2	264·4	3·3	90·0	0·8	299·7
May	+ 6·5	− 4·8	− 8·6	− 0·8	+ 2·6	− 0·8	− 0·8	+ 0·2	8·1	126·4	8·7	264·7	2·7	107·1	0·8	284·0
June	+ 4·7	− 7·4	− 8·6	− 0·4	+ 1·2	− 0·4	− 0·5	− 0·5	8·8	147·6	8·6	267·3	1·3	108·4	0·7	225·0
July	+ 5·4	− 4·4	− 8·2	− 1·0	+ 2·0	+ 0·1	− 0·2	+ 0·3	7·0	129·2	8·3	263·0	2·0	87·2	0·3	326·3
August	+ 3·4	− 5·4	− 7·7	− 0·5	+ 3·2	− 1·0	− 1·0	− 0·3	6·4	147·8	7·7	266·3	3·4	107·3	1·0	253·3
September	+ 2·6	− 6·7	− 6·5	− 0·7	+ 2·3	− 1·1	− 0·6	+ 0·5	7·2	158·8	6·5	263·9	2·5	115·6	0·8	309·8
October ...	+ 0·6	− 7·3	− 4·4	− 1·0	+ 2·6	+ 0·6	− 0·9	+ 0·5	7·3	175·3	4·5	257·2	2·7	77·0	1·0	299·1
November	0·0	− 5·8	− 2·7	− 1·8	+ 1·6	− 0·2	− 0·3	+ 0·2	5·8	180·0	3·2	236·3	1·6	97·1	0·4	303·7
December	+ 1·8	− 5·1	− 2·1	+ 0·2	+ 1·0	− 0·8	− 0·2	0·0	5·4	160·6	2·1	264·6	1·3	128·7	0·2	270·0
For the Year	+ 3·2	− 5·1	− 5·3	− 0·6	+ 2·1	− 0·3	− 0·6	+ 0·1	6·0	147·9	5·3	263·5	2·1	98·1	0·6	279·5

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

Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
Jan. 1. 12. 2	13. 19·8	13. 58·8	Mar. 9. 16. 8	13. 16·8	13. 58·3	April 28. 14. 53	13. 15·9	13. 58·3
15. 58	17·6	59·2	10. 12. 26	20·6	58·6	30. 10. 56	12·9	58·1
2. 10. 45	17·6	59·3	13. 20	19·5	58·2	14. 28	16·6	58·8
12. 51	19·2	59·2	11. 12. 45	19·7	58·7			
3. 11. 36	18·0	59·2	13. 11. 47	19·2	59·3	May 1. 11. 34	16·4	58·3
12. 15	19·8	59·2	14. 12. 12	19·7	59·1	4. 10. 47	23·4	58·3
7. 11. 10	18·1	59·2	17. 10. 50	16·1	58·8	10. 51	23·7	58·4
13. 11	18·9	59·0	12. 30	19·9	58·9	11. 20	20·9	58·7
8. 12. 27	18·8	59·0	18. 15. 31	17·5	58·5	13. 41	18·9	58·5
16 2	17·6	59·3	16. 10	16.1	58·3	5. 10. 36	12·5	57·8
9. 11. 7	17·9	59·1	20. 11. 35	18·8	58·7	12. 13	16·9	58·4
12. 58	18·8	59·1	23. 15. 20	17·8	58·5	6. 14. 32	14·6	58·0
10. 12. 19	18·4	59·1	24. 11. 22	16·4	59·2	7. 16. 0	14·2	58·6
12. 12. 15	20·3	14. 0·2	12. 46	19·6	58·5	8. 11. 17	16·3	58·3
13. 15	20·6	14. 0·2	25. 11. 58	17·7	58·5	12. 14. 54	14·4	56·5
15. 16. 5	16·8	13. 58·9	27. 11. 51	17·3	58·4	17. 24	10·4	56·5
16. 11. 26	17·0	58·5	13. 4	19·7	58·7	13. 11. 43	14·9	56·9
12. 9	19·3	59·2	30. 14. 55	18·8	58·8	15. 0	14·4	57·0
14. 0	19·4	59·2	31. 16. 13	15·4	58·6	14. 13. 44	13·5	56·8
17. 11. 5	15·4	58·9				16. 11. 50	13·2	58·0
13. 24	20·6	59·2	April 1. 10. 31	14·3	58·6	11. 57	12·8	57·5
20. 11. 59	17·8	59·4	11. 31	17·4	59·1	12. 10	12·9	57·2
13. 21	19·6	59·4	11. 37	17·4	59·1	19. 30	11·2	57·5
22. 16. 13	17·0	59·3	15. 58	16·9	58·9	18. 11. 17	12·9	57·3
23. 13. 4	20·4	59·6	16. 38	16·4	58·9	19. 10. 27	10·3	57·5
27. 15. 19	18·1	58·1	2. 12. 11	19·2	59·2	12. 7	14·7	58·0
25. 14. 23	18·8	59·3	16. 42	17·9	59·1	20. 11. 45	14·8	58·2
29. 12. 26	17·2	59·0	3. 10. 20	14·9	58·6	21. 11. 51	13·9	56·9
30. 11. 3	17·3	59·5	16. 3	20·1	14. 0·1	22. 10. 4	10·3	56·9
12. 54	18·1	59·6	16. 6	19·9	13. 59·9	15. 16	13·6	57·3
31. 12. 43	17·7	59·3	4. 10. 34	13·1	59·7	25. 20. 1	9·8	56·8
13. 11	18·3	59·4	11. 21	15·3	59·5	26. 10. 22	11·1	56·7
			6. 11. 27	17·8	58·8	28. 10. 22	8·9	56·9
Feb. 3. 11. 28	15·3	58·3	16. 17	16·3	59·5	15. 15	15·3	58·3
13. 11	18·2	59·4	7. 11. 23	17·7	59·9	15. 47	13·3	57·5
4. 11. 47	19·2	59·7	7. 16. 41	13·3	59·2	29. 12. 17	12·6	57·7
6. 11. 31	18·2	59·6	8. 12. 22	18·9	59·3			
13. 7	19·6	59·8	9. 12. 22	19·4	59·6	June 2. 9. 57	10·7	57·5
7. 12. 31	18·7	59·4	12. 59	20·1	59·1	11. 22	13·9	57·8
9. 11. 24	17·4	58·7	10. 11. 3	13·5	58·9	3. 14. 44	16·1	57·9
10. 14. 36	18·6	58·3	12. 25	19·3	59·1	16. 10	12·4	58·1
16. 22	15·7	58·1	14. 12. 3	18·0	59·0	4. 13. 51	13·4	57·7
11. 11. 54	16·5	58·2	16. 54	13·3	59·5	15. 25	12·0	57·8
12. 14. 46	19·1	58·3	15. 11. 28	16·9	59·0	9. 10. 44	9·5	57·7
13. 11. 43	18·0	58·4	12. 14	19·7	59·8	11. 17	11·5	57·6
13. 17	20·1	58·4	16. 15. 0	18·6	14. 0·1	14. 31	15·6	57·8
14. 12. 35	19·2	58·6	15. 46	16·4	13. 59·4	15. 42	14·5	58·0
17. 14. 49	20·5	58·5	17. 14. 36	17·0	58·9	10. 9. 41	6·5	57·5
15. 34	20·5	58·5	15. 29	16·8	59·3	9. 54	7·5	57·8
18. 10. 21	13·9	58·1	18. 10. 57	12·9	59·2	11. 10. 38	10·5	57·4
11. 45	15·5	58·5	11. 51	16·3	59·5	12. 9. 32	5·7	57·4
19. 12. 0	18·5	58·5	12. 6	16·6	58·8	13. 9. 42	13·4	57·7
14. 55	22·0	59·0	20. 10. 52	17·1	58·4	11. 26	17·0	57·2
20. 11. 15	16·0	58·2	15. 42	19·3	59·8	15. 11. 0	10·4	56·7
21. 12. 23	17·9	58·3	21. 9. 42	10·4	59·6	14. 37	13·0	56·8
24. 11. 13	16·0	58·0	11. 4	15·0	58·6	16. 6	13·4	57·6
12. 41	18·7	58·1	22. 10. 24	12·5	58·5	16. 10. 23	9·2	57·2
25. 11. 55	20·9	58·5	10. 58	15·4	58·7	17. 11. 47	14·6	57·8
26. 12. 35	17·2	58·2	12. 14	18·9	58·9	14. 42	15·8	57·5
27. 12. 47	18·5	58·3	23. 10. 51	17·5	58·9	15. 33	14·6	57·6
12. 53	18·8	58·6	11. 40	30·2	59·4	18. 10. 47	11·4	57·1
28. 12. 49	17·9	58·7	24. 11. 14	14·5	58·9	19. 9. 51	8·2	57·2
			14. 19	15·5	58·8	15. 42	12·3	56·9
Mar. 3. 11. 27	17·2	58·2	16. 22	13·5	58·8	20. 12. 50	16·2	58·0
4. 10. 20	14·6	58·6	25. 9. 40	10·1	59·0	23. 12. 18	16·4	57·6
14. 41	17·1	58·1	10. 2	9·8	58·2	14. 52	17·3	57·6
9. 11. 6	19·5	58·5	11. 14	13·4	58·4	24. 10. 26	6·4	57·3
11. 10	20·5	58·8	28. 10. 5	[12·8]	[59·6]	12. 42	14·0	58·5
9. 11. 42	22·8	[59·8]	28. 11. 40	14·9	58·3	25. 9. 26	7·3	57·9

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

Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.	Greenwich Civil Time, 1925.	Declination.	Deduced value of Base-line.
d h m	° ′	° ′	d h m	° ′	° ′	d h m	° ′	° ′
June 25. 15. 49	13. 17·2	13. 58·5	Aug. 31. 9. 55	13. 6·3	13. 57·4	Oct. 26. 11. 0	13. 6·9	13. 57·6
16. 27	11·8	57·5	11. 20	12·1	57·5	27. 10. 51	5·3	57·3
26. 10. 55	8·7	57·3	15. 27	7·6	57·0	12. 15	10·6	57·6
12. 40	14·2	57·6				29. 12. 30	9·4	57·8
27. 9. 24	3·8	57·2				30. 11. 0	6·0	57·5
10. 1	5·0	57·0	Sept. 1. 9. 23	6·2	58·0	12. 50	10·5	57·4
29. 11. 23	11·1	57·4	11. 53	12·9	58·1	16. 32	7·4	57·6
14. 30	13·7	58·3	3. 10. 56	9·8	57·9	31. 10. 15	3·9	57·1
			12. 19	15·2	58·1	10. 54	6·1	57·3
July 1. 10. 17	9·0	58·3	4. 10. 43	10·4	58·1			
2. 14. 0	15·0	57·8	12. 35	14·4	58·2	Nov. 2. 10. 32	5·3	57·2
3. 10. 30	7·4	57·4	8. 15. 1	9·4	57·8	11. 48	7·5	56·8
4. 9. 38	5·7	57·5	15. 59	8·3	57·7	3. 11. 40	8·3	56·1
10. 41	10·0	57·8	9. 13. 26	14·8	58·1	5. 15. 58	7·4	57·3
7. 14. 16	15·0	57·7	10. 11. 32	11·7	58·1	6. 11. 1	6·9	57·2
15. 25	13·3	57·6	11. 10. 29	9·7	57·9	9. 11. 33	7·4	57·4
8. 11. 22	11·4	57·8	12. 8	13·7	57·8	12. 42	8·9	57·1
11. 46	13·0	57·6	14. 9. 57	12·1	58·3	11. 12. 43	10·9	56·1
9. 11. 10	9·5	57·1	12. 14	11·7	57·7	15. 8	7·9	57·1
10. 14. 0	14·5	57·5	15. 10. 55	11·2	57·9	13. 12. 55	8·3	57·1
15. 37	14·6	58·3	12. 25	15·0	58·2	14. 10. 59	8·9	57·2
13 15. 11	15·5	58·3	16. 9. 23	5·6	57·6	16. 15. 3	6·6	57·3
14. 10. 42	9·9	57·5	10. 41	9·3	57·7	15. 19	5·7	56·7
12. 7	13·1	57·7	17. 10. 14	10·7	57·5	17. 15. 23	7·0	56·7
15. 26	12·5	57·6	18. 10. 59	12·3	58·0	18. 13. 6	8·9	57·0
15. 11. 5	11·9	57·2	11. 44	14·7	57·7	19. 13. 37	8·9	57·0
14. 3	16·6	58·6	19. 11. 0	12·5	57·6	16. 15	7·1	57·2
16. 10. 20	9·1	58·4	22. 13. 53	14·4	58·4	20. 11. 21	7·0	56·8
14. 31	10·6	57·7	15. 10	8·0	58·2	13. 2	10·2	56·9
17. 10. 40	11·0	58·0	23. 10. 31	9·2	57·6	21. 12. 17	7·3	56·9
18. 10. 8	8·6	57·8	25. 10. 29	7·2	58·5	23. 11. 12	5·2	57·2
20. 11. 22	12·4	57·8	11. 31	9·3	58·4	23. 16. 6	7·3	57·5
21. 13. 46	14·1	57·2	26. 11. 55	9·6	57·8	24. 11. 33	7·8	56·9
15. 18	17·2	58·2	28. 11. 3	7·6	57·5	13. 31	10·7	57·0
22. 9. 47	10·6	57·7	29. 10. 28	5·8	58·0	25. 11. 53	9·5	57·3
15. 29	10·3	57·4	11. 32	10·1	58·5	26. 12. 52	7·7	56·9
24. 11. 14	10·5	57·5	30. 11. 18	11·5	58·1	30. 12. 45	6·9	56·8
25. 9. 33	5·4	57·8						
11. 34	11·6	57·2						
27. 11. 24	13·3	57·5	Oct. 1. 13. 30	10·6	57·4	Dec. 1. 12. 3	7·7	57·7
28. 10. 25	8·5	57·4	2. 11. 56	11·0	57·3	13. 53	8·2	58·3
11. 40	11·1	57·3	3. 10. 58	7·2	57·2	2. 14. 52	7·5	57·9
29. 12. 19	13·1	57·6	5. 12. 15	14·1	57·7	3. 14. 6	7·7	57·9
30. 10. 12	8·6	57·6	6. 11. 44	12·8	57·0	5. 10. 42	4·9	57·7
31. 9. 47	5·1	57·1	12. 52	11·3	57·3	7. 12. 41	7·3	57·4
			7. 12. 2	11·7	57·8	8. 11. 1	6·4	57·3
Aug. 4. 11. 26	15·1	57·9	8. 11. 26	7·9	57·1	13. 5	8·5	57·5
5. 14. 22	15·2	57·4	9. 12. 10	12·7	57·5	9. 15. 45	6·6	57·8
7. 10. 52	11·9	56·4	12. 40	12·2	57·2	10. 13. 33	6·7	57·5
11. 39	15·9	58·0	10. 12. 38	11·9	57·4	11. 11. 12	8·4	57·4
8. 11. 39	12·7	57·7	13. 11. 24	7·9	57·7	12. 10. 53	5·1	57·4
11. 10. 12	5·7	57·5	12. 32	10·2	58·0	14. 11. 52	6·7	57·7
12. 13. 16	12·4	57·5	14. 15. 7	10·7	57·9	15. 14. 48	10·7	58·1
14. 9. 47	4·1	57·3	15. 15. 47	10·4	57·9	16. 10. 38	4·9	57·9
15. 9. 30	7·0	57·2	16. 44	3·4	57·2	12. 58	6·9	57·7
18. 10. 19	9·6	57·4	16. 10. 58	7·7	57·5	17. 10. 20	2·9	57·6
19. 12. 1	12·8	57·8	17. 12. 11	13·3	57·3	14. 58	6·5	57·7
22. 9. 7	7·1	57·5	19. 11. 31	7·6	57·6	18. 10. 53	5·3	57·6
9. 21	8·1	57·5	20. 11. 33	12·6	58·0	21. 15. 44	6·2	58·4
11. 30	13·8	57·8	12. 58	13·9	57·9	22. 10. 22	4·6	57·9
24. 15. 31	11·7	57·9	16. 40	9·9	57·5	23. 12. 38	10·1	58·9
25. 10. 6	7·3	57·5	21. 11. 57	13·6	57·3	24. 10. 39	5·1	57·8
12. 3	13·2	57·6	22. 11. 17	6·5	57·5	29. 10. 57	3·4	57·1
26. 10. 12	5·5	57·7	23. 10. 45	8·7	57·6	12. 58	5·5	57·5
27. 15. 4	12·3	57·3	10. 50	8·7	57·3	30. 11. 59	5·6	57·6
29. 9. 35	5·1	57·3	10. 52	8·3	57·3	31. 11. 17	4·7	57·1
10. 40	8·8	57·2	12. 28	13·6	57·6	14. 19	5·0	57·4

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

Greenwich Civil Time, 1925.	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, 1925.	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, 1925.	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. 2. 11 4–12 35	409	1003	May 1. 10 37–11 32	388	986	Sept. 1. 10 28–11 48	408	1075
7. 11 21–12 34	411	1006	5. 11 17–11 46	398	1010	4. 11 4–12 24	381	1069
9. 12 0–12 50	433	1020	9. 10 55–12 7	398	1002	8. 15 20–15 55	423	1088
13. 12 20–13 5	422	1014	12. 15 27–16 9	433	1027	11. 10 54–12 4	395	1077
16. 11 46–13 24	436	1027	15. 11 40–12 12	438	1032	15. 11 13–11 46	376	1079
17. 11 13–12 46	407	1011	19. 10 48–11 22	426	1029	18. 10 13–11 19	388	1085
20. 12 4–12 57	393	1012	21. 13 35–14 35	438	1047	22. 14 20–15 2	399	1099
23. 11 20–12 45	403	1005	22. 14 30–15 8	440	1044	26. 11 15–11 50	394	1080
29. 11 22–12 36	406	1010	26. 10 49–11 28	417	1025	29. 10·53–11 28	402	1093
Feb. 3. 11 56–13 0	421	1020	29. 11 3–12 0	397	1025	Oct. 2. 10 25–11 34	375	1057
6. 11 36–12 52	415	1009	June 2. 10 38–11 8	408	1030	6. 12 9–12 47	403	1080
10. 15 2–16 8	419	987	5. 10 42–11 31	415	1034	9. 10 25–11 9	382	1061
13. 12 25–12 57	414	986	9. 14 55–15 38	436	1042	13. 11 48–12 27	400	1082
18. 10 33–11 40	407	988	12. 13 35–14 30	388	1037	16. 11 27–12 3	385	1061
20. 11 25–12 55	408	985	16. 11 31–12 6	408	1042	20. 15 16–16 37	405	1077
24. 11 44–12 30	378	946	20. 11 52–12 37	378	1036	23. 11 8–12 7	343	1069
27. 11 51–12 31	413	986	24. 11 43–12 31	369	1020	27. 11 25–12 10	395	1079
Mar. 4. 10 45–11 16	410	988	26. 11 25–12 26	366	1034	30. 11 22–12 26	379	1063
6. 10 53–12 8	400	982	29. 14 43–15 23	418	1050	Nov. 2. 10 57–11 37	381	1069
10. 12 47–13 16	412	988	July 10. 14 32–15 1	425	1046	6. 11 26–12 42	377	1066
13. 12 29–13 10	412	985	14. 11 32–12 1	386	1047	9. 11 58–12 37	365	1072
17. 11 17–12 21	402	990	16. 10 40–11 35	390	1051	13. 14 35–15 38	384	1071
20. 12 13–12 55	394	970	21. 14 10–14 48	419	1051	17. 15 29–16 46	408	1070
24. 11 48–12 37	414	990	25. 10 27–11 4	375	1044	20. 11 36–12 39	384	1084
27. 12 7–12 53	418	986	28. 10 55–11 34	377	1056	24. 12 3–13 27	421	1080
30. 11 44–12 33	394	980	31. 10 1–11 16	395	1064	Dec. 1. 12 58–13 26	394	1071
April 7. 11 26–12 21	393	1001	Aug. 4. 13 28–14 30	416	1067	4. 11 12–12 25	418	1089
10. 11 31–12 18	383	1004	7. 10 16–11 17	372	1073	8. 14 48–15 32	396	1073
14. 15 24–16 34	430	1008	11. 10 19–11 20	392	1066	11. 11 42–12 38	383	1060
18. 11 5–12 12	407	1010	14. 10 18–11 23	397	1061	15. 14 53–16 6	376	1052
22. 11 9–12 4	405	1025	18. 10 33–11 20	377	1050	18. 11 13–12 7	395	1071
24. 11 19–12 11	409	1006	22. 10 10–10 51	384	1060	23. 11 52–12 31	408	1083
28. 15 4–15 41	433	1009	25. 10 41–11 44	391	1067	29. 11 38–12 20	386	1082
			29. 9 57–10 35	401	1076	31. 14 30–15 27	398	1074

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, 1925.	Magnetic Dip.	Deduced Value of Vertical Force. Base-line.	Greenwich Civil Time, 1925.	Magnetic Dip.	Deduced Value of Vertical Force Base line.	Greenwich Civil Time, 1925.	Magnetic Dip.	Deduced Value of Vertical Force. Base-line.	Greenwich Civil Time, 1925.	Magnetic Dip.	Deduced Value of Vertical Force Base-line.
d h	° ′	42000γ+	d h	° ′	42000γ+	d h	° ′	42000γ+	d h	° ′	42000γ+
Jan. 1. 16·1	66 51·0	704	April 1. 15·1	66 49·6	918	July 1. 11·9	66 52·1	747	Oct. 1. 13·7	66 51·1	736
3. 11·9	66 50·9	705	3. 11·5	66 53·1	950	4. 10·5	66 52·6	757	3. 11·4	66 53·2	751
8. 15·9	66 50·0	691	8. 13·1	66 51·0	912	7. 14·4	66 49·7	751	6. 11·9	66 52·8	740
9. 11·8	66 50·6	716	10. 11·4	66 52·4	904	9. 11·4	66 50·8	730	8. 11·6	66 51·9	758
13. 15·9	66 52·3	728	15. 15·3	66 54·5	884	10. 13·9	66 51·2	782	9. 12·5	66 53·5	765
15. 16·2	66 50·6	690	17. 16·1	66 50·9	903	14. 11·1	66 52·1	773	13. 11·6	66 53·6	744
17. 13·2	66 51·2	671	21. 10·3	66 52·2	911	16. 10·5	66 52·6	792	14. 15·3	66 53·6	754
20. 13·2	66 52·1	679	23. 10·7	66 55·0	880	18. 11·5	66 50·8	778	16. 15·9	66 53·3	754
22. 16·3	66 50·5	632	25. 10·7	66 53·0	(980)	21. 13·9	66 50·7	757	20. 11·7	66 53·1	731
24. 11·9	66 52·1	668	28. 11·1	66 50·8	903	24. 11·5	66 53·8	805	21. 12·3	66 55·5	740
27. 16·1	66 50·4	615	30. 14·1	66 50·4	899	25. 10·1	66 53·0	800	23. 12·8	66 56·3	702
29. 12·8	66 51·3	603				28. 10·7	66 52·9	794	27. 11·2	66 53·0	731
31. 12·9	66 52·0	600				30. 14·3	66 51·7	787	29. 12·8	66 53·2	742
						33. 14·8	66 51·2	795	31. 10·5	66 52·2	752
Feb. 3. 11·7	66 51·0	568	May 1. 11·9	66 50·5	910	Aug. 4. 11·6	66 51·0	786	Nov. 2. 10·7	66 53·3	744
4. 12·0	66 50·9	557	5. 10·9	66 52·2	917	5. 14·5	66 51·7	784	5. 16·1	66 51·9	720
7. 12·8	66 50·7	482	7. 15·9	66 50·1	870	8. 11·4	66 53·1	749	6. 11·2	66 53·6	750
10. 14·9	66 51·6	481	8. 11·5	66 50·2	903	11. 12·3	66 52·5	775	13. 12·5	66 54·2	728
11. 12·2	66 52·2	497	12. 15·1	66 51·1	907	12. 13·4	66 52·1	760	14. 11·3	66 54·2	731
14. 12·8	66 51·9	1055	14. 12·6	66 50·1	885	15. 10·7	66 52·8	792	17. 17·2	66 53·1	704
17. 15·4	66 51·5	998	16. 12·0	66 49·8	913	19. 14·3	66 52·1	808	19. 16·8	66 52·7	715
19. 12·2	66 51·6	1006	19. 10·6	66 51·2	893	24. 11·5	66 53·3	772	21. 12·5	66 52·4	686
21. 12·6	66 50·8	982	20. 11·0	66 51·2	906	25. 10·3	66 53·3	773	24. 11·7	66 52·5	687
24. 11·6	66 51·1	989	21. 11·6	66 50·6	902	26. 10·8	66 52·9	796	26. 13·1	66 52·3	668
25. 12·1	66 51·6	999	26. 10·6	66 50·9	902	27. 15·2	66 52·3	784			
28. 12·6	66 51·9	1007	28. 15·1	66 51·1	900	29. 9·7	66 51·9	776			
			29. 10·1	66 53·2	900						
Mar. 3. 11·9	66 51·2	977	June 2. 10·4	66 51·4	860	Sept. 1. 9·6	66 53·3	797	Dec. 2. 15·1	66 51·2	650
5. 10·8	66 52·0	963	4. 14·1	66 51·1	872	3. 11·2	66 52·8	779	3. 14·2	66 51·1	663
6. 12·5	66 51·9	980	5. 10·4	66 51·3	862	4. 10·9	66 53·7	779	5. 10·9	66 50·9	643
9. 15·3	66 52·1	1003	9. 14·7	66 50·6	847	8. 15·1	66 51·8	756	8. 12·9	66 54·1	693
11. 12·4	66 50·9	1007	12. 9·7	66 50·8	802	9. 13·6	66 51·9	750	10. 12·7	66 52·6	679
14. 12·4	66 51·1	971	17. 15·0	66 50·7	798	11. 10·7	66 52·4	730	11. 11·4	66 53·7	686
17. 11·1	66 51·7	968	24. 11·3	66 52·8	821	15. 11·1	66 54·3	722	15. 16·2	66 54·9	680
18. 14·7	66 51·6	975	25. 10·6	66 54·1	800	17. 10·4	66 54·4	730	17. 15·2	66 52·7	686
22. 18·0	66 51·3	983	26. 11·2	66 54·3	803	19. 11·2	66 52·8	731	18. 11·0	66 52·2	692
24. 11·6	66 50·5	931	29. 12·3	66 52·8	760	22. 14·1	66 53·7	716	23. 11·6	66 53·1	685
25. 12·3	66 50·5	950				26. 11·0	66 53·5	720	24. 11·0	66 52·5	663
27. 12·0	66 50·9	975				29. 10·7	66 53·2	712	29. 11·3	66 54·1	670
30. 11·3	66 50·9	929							30. 12·2	66 53·8	677

TABLE XX.—ANNUAL SUMMARY OF THE MAGNETIC ELEMENTS.

Month. 1925.	Mean Value of						Monthly Mean Diurnal Range of			Sum of Hourly Deviations from Mean of		
	Declination.	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. 16·1	·18421	66. 50·7	·04228	·17929	·43072	4·6	19γ	9γ	22·8	101γ	51γ
February ...	15·4	·18422	66. 51·1	·04224	·17931	·43088	5·4	21	12	32·9	121	80
March	14·7	·18423	66. 50·9	·04221	·17933	·43083	8·4	31	17	43·0	189	91
April	12·8	·18422	66. 50·5	·04211	·17934	·43068	10·1	34	28	48·2	233	145
May	11·2	·18429	66· 50·1	·04204	·17943	·43071	9·0	35	33	48·4	216	158
June	9·6	·18417	66. 51·0	·04193	·17933	·43074	10·5	44	31	58·4	280	169
July	8·7	·18411	66. 51·3	·04187	·17928	·43067	10·3	40	30	55·9	255	147
August	8·0	·18413	66· 51·4	·04184	·17931	·43079	10·7	44	27	57·3	285	146
September ...	6·8	·18408	66. 52·4	·04176	·17928	·43102	9·2	41	24	50·7	268	142
October	6·1	·18403	66. 52·7	·04172	·17924	·43100	8·5	36	20	51·9	242	127
November ...	5·3	·18401	66. 52·4	·04167	·17923	·43085	6·4	28	16	37·2	176	99
December ...	4·3	·18399	66. 52·2	·04161	·17922	·43075	5·5	22	12	31·6	131	90
For the Year	13. 9·9	·18414	66. 51·4	·04194	·17930	·43080	8·2	32·9	21·6	44·9	208·1	120·4

TABLES AI. to AXX. on the following pages, are results of observations at the new magnetic station at Abinger, Surrey.

TABLE AI. begins with the month of April: TABLES AII. and AIII. begin with the month of February. (*See* INTRODUCTION.)

TABLE A I.—HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER.

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

TABLE A I.—HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER—*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	Mean.
June.	13° + Tabular Quantities.																									
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	24·2	21·8	20·7	20·6	19·5	19·1	17·4	17·4	18·0	20·2	24·6	28·3	31·5	31·8	31·0	27·7	25·4	23·1	22·4	22·4	22·7	23·6	22·7	22·5	23·3	
2	22·6	23·0	24·0	22·1	21·2	20·1	18·9	19·5	20·3	22·4	(24·5)	(28·1)	(31·6)	(31·8)	(30·9)	(28·1)	(25·4)	(24·2)	(22·6)	21·9	22·6	23·4	22·7	22·6	(23·9)	
3	22·7	22·8	23·4	22·1	21·6	20·4	19·4	19·7	—	—	—	—	—	—	—	25·6	24·4	(23·9)	(22·1)	(21·4)	(20·8)	21·0	22·5	23·7	—	
4	24·7	23·1	21·6	21·7	22·0	20·3	19·8	19·7	20·0	21·0	22·1	26·0	26·8	26·4	25·0	24·2	24·2	23·2	21·1	21·9	22·5	22·8	22·5	23·1	22·7	
5	23·0	23·3	23·3	22·0	19·2	17·6	19·3	19·9	19·7	21·6	24·0	26·3	27·8	28·5	26·3	24·7	23·0	22·3	22·6	22·6	23·0	23·4	23·6	23·4	22·9	
6	22·9	22·2	22·2	22·1	21·5	20·6	18·8	18·5	19·0	21·1	23·9	27·9	30·0	31·4	30·5	25·5	25·1	25·0	24·4	23·1	22·4	22·8	23·0	24·2	23·7	
7	24·1	23·1	21·7	21·1	20·4	20·1	20·3	19·6	19·9	21·8	24·9	29·1	29·4	29·5	28·3	25·8	22·6	22·6	21·9	22·0	22·2	22·1	22·2	22·1	23·2	
8*	22·4	22·0	21·4	20·6	19·8	18·1	18·1	17·2	16·8	19·4	22·1	24·7	26·9	27·9	28·2	25·5	22·8	21·5	20·8	20·7	20·6	21·3	21·6	19·6	21·7	
9*	20·0	20·8	20·9	20·7	19·4	18·7	18·0	16·2	15·7	16·3	19·8	24·5	27·1	28·4	27·6	26·5	25·1	24·0	23·1	22·3	21·8	21·6	21·8	22·1	21·8	
10	21·1	20·2	19·3	18·9	19·6	18·1	16·4	15·6	16·4	18·9	21·6	25·2	27·9	28·9	29·6	28·8	25·5	23·6	22·7	21·7	21·2	21·2	21·3	21·3	21·9	
11	20·8	20·6	20·4	21·5	20·0	18·5	17·2	16·2	17·2	20·0	23·4	26·8	28·2	29·2	29·5	27·5	25·5	24·2	23·3	23·2	22·8	22·7	21·5	19·3	22·5	
12	20·0	18·6	19·0	19·5	18·4	18·1	17·7	17·7	18·1	18·7	21·4	24·0	26·1	26·9	26·9	26·2	24·8	24·6	24·0	23·0	23·3	22·9	22·9	23·4	21·9	
13**	23·3	20·8	21·2	21·2	20·1	18·4	16·7	17·9	28·2	25·5	26·3	30·3	31·7	30·2	32·7	29·5	28·2	25·1	24·7	24·2	24·1	23·3	20·0	16·4	24·2	
14	17·1	20·1	19·4	20·3	21·7	23·9	21·7	21·4	20·0	20·8	22·9	25·2	27·6	27·2	26·2	24·8	24·8	23·5	23·1	23·1	23·5	23·1	22·8	22·1	22·8	
15	22·5	21·7	21·5	22·3	20·8	18·6	18·1	17·9	18·7	19·8	21·1	24·8	26·1	26·3	26·5	26·2	25·7	24·7	24·2	24·0	23·5	21·9	23·0	24·5	22·7	
16	22·5	21·6	21·1	20·7	20·6	19·6	19·1	19·2	19·3	21·1	23·2	25·7	27·9	28·0	28·8	27·2	25·1	24·2	24·2	23·6	21·8	20·3	18·5	20·1	22·6	
17	15·0	15·2	19·9	23·1	21·5	20·6	18·9	20·1	20·7	22·1	23·9	26·4	29·0	29·9	28·9	27·7	26·3	25·2	24·2	23·1	22·8	22·7	22·7	22·1	23·0	
18	22·2	22·7	24·0	21·9	19·4	17·4	16·4	17·4	17·9	20·2	23·5	25·5	27·6	27·1	26·9	25·7	25·5	23·1	23·1	21·7	21·3	22·2	22·9	22·7	22·4	
19*	20·5	19·4	20·4	20·3	19·4	18·1	17·5	18·0	18·3	20·0	23·3	27·6	29·6	30·6	29·5	26·5	24·0	22·9	22·2	21·6	21·3	22·1	22·5	23·2	22·5	
20*	22·8	22·3	22·1	21·8	20·7	18·8	18·0	17·4	17·2	18·7	20·9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
21*	—	—	—	—	—	—	—	—	—	—	—	24·4	26·3	27·6	27·0	25·5	24·8	24·1	22·7	21·5	21·5	21·8	22·3	22·5	—	
22	22·6	22·5	22·3	21·7	20·3	18·8	18·0	17·6	17·4	18·7	21·1	24·2	27·2	28·3	27·7	26·2	25·0	25·0	25·2	25·0	23·0	22·5	20·9	20·4	22·6	
23**	21·6	22·1	20·9	21·2	23·1	26·1	22·0	19·6	17·4	20·2	24·3	26·3	29·6	30·2	29·7	28·8	25·9	23·6	23·2	22·8	22·8	22·7	22·2	22·5	23·7	
24**	22·8	23·4	23·2	21·6	21·4	17·4	16·7	16·7	16·5	19·0	20·0	23·1	25·8	27·2	28·1	27·3	25·1	24·5	24·5	20·3	23·0	14·4	10·8	15·5	21·2	
25**	15·8	14·1	20·5	21·9	19·7	19·1	17·8	17·7	18·1	19·6	21·3	23·3	26·2	27·7	29·0	29·2	27·0	26·3	25·5	24·9	24·0	23·0	22·8	22·2	22·5	
26	21·6	21·8	22·0	21·9	20·5	19·3	18·0	17·3	16·8	17·4	20·7	23·9	26·1	27·4	27·1	25·3	24·1	24·1	23·2	22·1	22·0	22·5	22·3	22·0	22·1	
27	21·8	20·9	20·8	18·9	18·5	17·8	15·6	15·1	15·2	17·0	20·0	23·3	26·1	28·3	30·1	26·7	26·7	27·0	24·8	22·7	23·5	19·8	17·2	18·1	21·1	
28**	20·8	24·8	18·0	17·5	18·1	22·4	24·7	20·9	18·3	18·9	21·2	24·2	26·5	26·3	26·3	26·9	27·0	21·6	23·7	24·0	23·8	21·6	22·2	20·3	22·5	
29	19·8	18·4	18·3	19·8	19·0	18·3	18·4	17·9	19·0	19·1	21·3	24·3	26·1	27·4	26·7	25·3	25·3	24·6	23·8	22·4	22·9	23·0	23·4	23·7	22·0	
30	22·8	21·7	21·2	20·0	19·0	18·9	20·0	18·7	19·8	19·9	22·3	24·4	26·1	26·4	26·7	27·0	24·7	24·5	23·9	23·2	22·8	22·0	22·5	22·5	22·5	
Mean	21·5	21·2	21·1	21·0	20·2	19·4	18·6	18·5	18·6	20·0	22·5	25·6	27·8	28·5	28·3	26·7	25·2	24·0	23·4	22·7	22·6	22·0	21·6	21·6	22·6	
Mean*	21·0	20·7	20·9	20·5	19·5	18·3	17·9	17·1	16·9	18·6	21·7	25·6	27·9	29·0	28·4	26·2	24·0	22·8	22·0	21·5	21·2	21·7	22·0	21·6	22·0	
Mean**	20·9	21·0	20·8	20·7	20·5	20·7	19·6	18·6	19·7	20·6	22·6	25·4	28·0	28·3	29·2	28·3	26·6	24·2	24·3	23·2	23·5	21·0	19·6	19·4	22·8	
July.	13° + Tabular Quantities.																									Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	22·3	22·3	22·3	21·1	19·6	18·2	18·6	18·8	18·0	19·2	22·0	24·5	26·4	26·8	26·2	25·5	25·3	23·3	22·2	22·2	22·1	22·3	23·2	22·1	22·3	
2	23·0	22·1	21·5	20·6	20·9	19·2	17·6	16·7	17·5	19·6	23·0	26·0	27·9	28·6	27·4	25·5	23·8	23·1	22·8	22·1	21·5	22·3	23·2	24·0	22·5	
3	20·9	22·7	23·4	21·1	20·4	19·9	19·5	18·7	18·6	19·3	20·6	23·3	24·7	26·7	27·2	26·1	23·9	22·6	22·7	22·6	22·5	22·0	22·0	22·0	22·2	
4	23·3	23·4	23·3	22·6	21·2	19·2	18·0	16·5	16·6	18·8	22·5	26·0	29·1	31·2	31·4	28·8	25·5	23·2	22·2	21·9	22·0	22·2	22·4	22·6	23·1	
5	22·6	21·3	21·3	21·1	19·8	18·6	17·7	18·4	17·7	18·7	22·0	25·3	28·3	29·5	30·4	28·7	27·8	25·6	22·7	22·2	21·5	21·7	21·8	21·8	22·3	
6	21·6	21·6	21·5	21·7	20·3	18·8	19·0	17·3	17·1	18·6	21·1	24·5	27·5	29·4	29·1	27·6	25·2	23·6	22·6	22·0	22·5	22·2	21·6	21·5	22·4	
7	22·5	21·7	21·6	21·6	20·9	19·2	17·5	17·7	17·5	18·8	21·4	24·3	27·7	28·6	27·3	26·0	24·7	23·6	22·6	22·1	22·1	21·5	21·2	21·0	22·2	
8	21·0	20·8	20·5	20·4	19·5	17·5	16·3	15·4	15·0	15·8	19·4	24·4	27·4	28·2	30·5	28·8	26·4	23·8	22·4	22·0	21·5	21·3	21·4	21·3	21·7	
9	21·7	21·9	22·0	22·0	20·0	16·7	16·9	17·2	16·8	18·2	20·3	24·2	27·1	29·1	29·1	28·4	27·8	26·5	25·7	25·6	23·5	22·1	21·3	21·3	22·7	
10	20·9	20·5	21·0	20·4	19·9	19·3	19·6	19·4	19·2	19·0	21·3	23·8	26·2	27·2	27·2	26·6	27·0	25·8	22·8	19·8	20·2	19·6	19·8	19·2	21·9	
11	19·4	20·7	20·6	21·4	20·1	17·5	17·3	17·5	17·5	19·2	20·4	23·0	24·6	25·1	24·9	24·5	24·3	23·4	22·6	21·7	20·7	20·1	20·7	21·1	21·2	
12	21·3	20·5	20·5	21·1	20·8	19·8	18·4	16·9	16·9	18·4	21·6	25·2	28·1	28·3	27·6	26·0	23·8	22·4	21·7	21·5	21·9	21·4	21·3	22·0	22·0	
13*	21·6	21·5	21·0	20·5	19·7	18·8	18·6	18·4	18·1	18·6	21·2	24·5	26·4	28·1	28·5	27·8	26·2	24·5	23·0	22·8	22·3	21·5	22·0	21·7	22·4	
14	22·2	21·7	21·1	20·7	19·7	18·4	16·7	16·5	17·5	19·3	21·7	25·0	26·1	26·7	26·6	25·4	23·7	22·7	22·5	23·1	21·7	20·3	21·4	16·5	21·6	
15**	18·1	12·5	15·3	18·3	16·2	15·0	14·2	15·2	16·8	19·8	23·1	26·9	28·0	28·9	27·5	26·7	24·2	23·0	22·5	22·5	22·9	22·7	22·5	22·5	21·1	
16*	22·2	21·6	20·9	20·5	19·2	17·7	16·7	16·7	17·3	19·2	22·0	23·9	25·3	25·3	24·3	22·8	22·3	22·1	22·4	23·2	23·3	23·3	23·6	23·2	21·6	
17*	22·5	22·4	22·3	22·0	20·6	18·6	18·1	18·6	19·8	21·7	23·8	25·4	26·3	27·0	26·4	24·2	23·2	22·2	22·2	22·4	21·6	21·7	22·8	22·3	22·4	
18*	22·2	21·9	22·1	21·6	20·5	19·0	18·9	19·3	19·8	20·8	22·9	24·8	27·4	28·9	29·9	28·4	26·4	25·0	23·2	22·1	22·1	22·1	22·1	21·6	23·0	
19	20·4	21·4	21·4	21·3	20·1	18·1	16·5	15·7	16·0	18·1	20·3	23·4	25·7	26·4	26·0	25·7	24·7	24·7	21·3	21·3	22·0	21·6	21·4	21·5	21·5	
20*	21·8	21·4	21·0	20·7	19·8	18·5	17·5	16·5	16·0	17·6	20·9	24·6	26·5	26·5	25·8	24·6	23·1	22·9	21·7	21·7	21·7	21·7	21·4	21·7	21·5	
21	21·4	21·5	22·1	21·3	19·7	16·8	16·6	16·2	17·1	18·5	20·7	21·2	25·5	27·5	28·8	29·7	28·0	27·2	24·7	23·9	24·0	23·0	22·6	21·5	22·5	
22**	21·4	20·5	22·1	24·2	20·6	17·8	16·3	16·0	18·0	21·3	23·8	23·5	25·2	26·0	24·8	23·3	22·7	21·9	19·8	20·8	21·5	22·4	22·6	22·1	21·6	
23	21·2	21·9	23·1	21·8	18·3	16·8	16·9	17·5	18·3	20·3	23·1	25·1	26·2	26·8	27·2	25·5	23·6	21·1	21·9	22·6	22·5	22·6	22·4	21·9	21·6	
24	21·6	21·5	21·6	21·5	21·0	19·7	18·9	17·6	17·1	18·5	20·9	23·9	26·3	27·7	28·2	26·4	24·5	22·9	21·4	21·4	21·4	21·7	19·8	18·9	22·7	
25	20·6	20·6	20·8	20·6	20·0	19·2	18·1	17·2	17·2	18·0	21·2	24·4	26·3	27·4	26·9	25·6	24·8	24·4	23·1	22·9	21·6	21·4	21·0	14·7	21·6	
26**	17·2	18·8	22·1	24·8	17·3	16·6	20·6	19·8	23·4	19·9	21·1	22·1	24·7	27·3	29·1	26·9	25·8	25·4	24·7	23·3	22·4	20·4	20·8	20·6	22·3	
27**	19·5	18·4	19·2	23·5	23·2	18·7	17·9	18·7	18·8	19·6	23·4	26·9	28·7	28·4	27·2	27·8	24·2	21·5	23·6	22·3	21·1	22·4	18·0	20·9	22·2	
28**	18·1	18·3	24·8	22·7	17·2	16·4	17·9	21·4	19·4	18·5	21·2	23·2	24·6	25·2	25·2	25·2	24·7	24·0	22·5	20·1	22·3	21·6	21·3	18·3	21·4	
29	19·1	19·1	19·1	19·2	19·1	18·3	17·9	18·0	17·2	17·9	20·4	22·9	26·3	27·1	25·9	24·6	23·2	22·4	21·4	20·7	21·2	22·1	21·2	21·1	21·1	
30	20·6	20·6	20·4	19·8	18·5	17·8	18·5	17·6	17·6	19·7	22·7	25·2	26·0	26·3	25·9	24·5	23·7	22·9	22·5	21·4	21·9	21·9	21·4	21·2	21·6	
31	21·0	20·5	19·8	20·6	19·8	17·9	17·7	17·6	16·9	17·8	21·3	24·2	26·5	25·9	24·8	23·9	22·9	21·9	21·2	20·8	21·2	21·0	19·7	21·2	21·1	
Mean	21·0	20·8	21·3	21·3	19·8	18·2	17·8	17·6	17·8	19·1	21·6	24·5	26·5	27·5	27·3	26·2	24·8	23·5	22·5	22·1	22·0	21·8	21·5	21·1	22·0	
Mean*	22·1	21·8	21·5	21·1	20·0	18·5	18·0	17·9	18·2	19·6	22·2	24·6	26·4	27·2	27·0	25·6	24·2	23·3	22·5	22·4	22·2	22·1	22·4	22·1	22·2	
Mean**	18·9	17·7	20·7	22·7	18·9	16·9	17·4	18·2	19·3	19·8	22·5	24·5	26·2	27·2	26·8	26·0	24·3	23·2	22·6	21·8	22·0	21·9	21·0	20·9	21·7	

N.B.—June 2 and 3. Values are in brackets for the hours during which workmen with steel tools were known to have been in the vicinity of the recording instruments.

TABLE A I.—HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER—*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
August.	13° + Tabular Quantities.																								Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	21·1	20·8	20·7	20·0	17·9	16·8	16·9	16·4	17·0	19·6	22·6	25·6	27·1	26·3	24·8	23·9	22·3	21·2	19·3	19·7	20·6	21·5	20·2	20·7	21·0
2	21·4	21·2	19·9	20·4	19·5	17·4	16·4	16·2	17·2	19·9	22·9	25·0	25·9	25·9	25·2	23·2	20·5	19·1	19·7	20·5	21·1	21·7	21·7	21·3	21·0
3	21·6	20·6	20·5	20·2	19·2	17·4	16·9	17·3	17·8	19·5	22·5	25·8	27·3	27·4	27·3	25·1	24·0	22·1	22·5	20·7	20·7	20·0	17·6	17·4	21·3
4	19·3	22·6	19·3	18·5	17·6	15·7	16·6	17·1	17·8	19·5	23·7	27·3	29·4	28·6	26·9	25·8	23·2	22·3	20·0	17·5	18·5	19·7	19·3	21·1	21·1
5	22·4	22·0	21·8	20·7	18·6	16·8	16·5	15·2	16·8	19·2	22·6	25·7	27·8	27·9	27·1	25·2	22·8	21·4	21·0	19·8	20·0	20·2	20·5	20·6	21·4
6	21·3	22·0	21·4	20·1	19·4	18·0	16·9	15·8	15·5	17·0	19·8	23·2	24·7	26·6	27·5	26·4	24·8	22·6	21·4	21·2	20·8	20·1	17·8	17·0	20·9
7**	17·3	17·4	19·0	19·3	18·7	17·1	16·5	18·8	20·1	22·8	25·7	27·9	20·8	32·2	32·1	29·2	23·6	23·4	23·3	22·0	21·5	17·9	17·2	15·0	21·6
8**	13·0	15·0	21·4	21·5	19·2	21·6	19·2	15·6	16·7	19·0	20·6	24·7	28·9	31·4	31·1	26·0	25·8	24·3	20·7	22·4	21·8	19·6	18·7	18·4	21·5
9	20·1	21·1	22·6	21·4	19·9	17·5	16·4	15·7	17·5	19·6	22·6	22·0	24·2	25·0	25·7	25·5	24·8	23·5	22·0	21·1	20·5	20·6	19·0	18·6	21·0
10	19·1	22·5	20·2	20·0	19·3	20·1	19·3	18·7	17·0	18·0	19·7	20·6	22·7	25·4	25·4	23·8	22·7	22·1	21·4	21·5	20·6	20·6	20·2	20·6	20·9
11*	20·2	20·0	20·4	19·8	19·9	19·3	18·7	17·6	16·6	17·6	19·4	22·5	24·8	25·5	25·4	23·8	22·2	21·6	21·4	21·4	21·4	21·4	21·4	21·0	21·0
12*	20·8	20·8	20·0	19·4	18·7	17·9	17·6	17·2	17·3	17·9	20·8	22·5	24·1	25·0	24·5	22·9	21·6	21·0	21·0	21·3	21·1	21·0	20·8	20·7	20·7
13*	20·8	21·3	20·4	20·2	18·8	17·2	16·4	15·7	16·4	18·8	21·7	23·6	25·0	25·5	25·0	23·7	22·1	20·8	20·0	20·5	21·3	21·2	20·9	20·7	20·8
14	20·7	20·7	20·5	20·2	18·9	17·5	16·6	16·2	16·1	17·0	19·8	23·3	26·0	26·8	27·1	25·4	23·1	21·6	21·4	21·8	21·4	21·8	21·2	20·8	21·0
15*	20·5	20·2	19·9	19·5	18·8	17·5	17·2	17·3	18·0	20·1	23·0	24·8	26·3	26·4	25·3	23·4	21·5	20·5	20·8	21·2	21·3	20·9	20·8	20·7	21·1
16	20·2	20·1	20·1	19·9	19·4	18·2	17·9	17·4	17·9	19·8	23·0	26·4	28·0	28·2	27·2	25·3	23·6	22·8	22·2	21·5	21·7	21·5	21·3	21·4	21·9
17	21·7	21·1	20·2	19·7	19·2	17·8	17·8	17·8	18·5	20·4	24·3	—	—	—	—	—	—	—	22·1	21·9	21·5	20·6	19·1	17·4	—
18**	19·4	19·9	19·6	18·8	20·5	19·7	18·1	17·5	17·3	20·1	23·4	25·5	27·7	28·6	27·3	24·7	22·8	21·9	21·9	20·6	15·5	18·8	20·7	17·7	21·2
19	17·5	17·1	22·6	20·3	19·2	18·1	17·9	17·9	20·0	20·1	23·4	26·0	26·0	26·4	25·5	23·4	22·0	20·6	19·6	19·9	20·5	20·7	20·8	21·3	21·1
20	21·5	20·9	20·2	20·5	19·9	19·5	18·4	17·0	17·3	19·2	21·6	26·0	28·0	27·7	26·3	23·9	21·9	20·6	19·9	19·5	19·2	20·6	20·6	20·6	21·0
21	21·2	21·2	20·6	20·2	19·5	18·2	16·8	15·8	16·5	19·2	22·6	25·6	26·8	26·7	25·6	23·5	21·6	21·4	21·2	20·8	20·9	20·3	19·9	17·3	21·0
22**	18·0	20·0	20·3	22·2	18·8	17·0	15·1	15·5	18·1	21·6	24·5	26·4	28·4	29·2	27·4	27·7	25·6	23·8	20·9	17·4	19·5	16·8	18·9	21·0	21·4
23**	17·4	14·5	15·7	19·5	29·2	25·4	24·4	21·8	21·6	22·7	24·8	24·5	26·3	26·3	22·9	20·4	20·9	21·0	21·2	21·4	20·8	20·4	20·8	19·9	21·8
24	20·0	18·7	18·9	18·9	17·4	16·8	15·3	14·8	15·3	18·1	22·9	27·0	29·4	29·6	27·0	24·1	21·6	20·2	18·9	17·7	19·9	20·2	19·9	21·2	20·6
25	21·0	20·4	18·9	18·3	18·3	16·9	15·2	14·7	15·4	18·4	21·6	24·9	27·1	28·6	27·3	24·9	23·0	22·0	21·9	22·1	21·7	21·5	17·6	16·0	20·6
26	18·3	20·9	19·6	18·2	17·7	17·5	16·7	15·6	15·6	17·0	18·9	22·2	26·9	27·6	25·7	23·8	23·0	22·1	21·1	20·3	20·5	19·7	18·1	18·5	20·2
27	19·0	19·0	19·6	18·9	19·0	17·6	16·0	15·6	15·6	17·5	19·6	23·4	26·0	26·9	26·3	24·2	22·4	21·9	21·5	21·1	21·4	21·1	20·3	20·0	20·6
28*	18·4	18·4	19·0	19·0	18·4	17·6	15·7	14·3	14·4	15·9	19·0	22·1	24·5	25·1	24·3	22·8	22·0	21·7	21·9	21·9	22·3	21·5	20·1	19·8	20·0
29	19·3	19·3	19·0	19·0	18·4	17·6	16·5	15·4	15·7	18·1	21·5	25·1	27·0	26·2	24·3	22·8	22·3	22·4	22·4	21·5	22·4	21·5	21·1	20·3	20·8
30	20·5	20·5	13·0	17·0	17·7	17·3	16·9	16·4	17·2	20·2	24·4	26·2	27·1	26·7	24·6	22·5	20·6	19·7	19·9	21·0	20·6	20·6	20·9	20·8	20·5
31	20·8	21·0	20·1	19·3	18·9	17·8	16·4	15·5	15·7	17·8	21·5	25·2	26·6	25·4	23·1	20·6	19·7	19·8	20·6	20·9	19·5	19·7	19·9	20·1	20·2
Mean	19·7	20·0	19·8	19·7	19·2	18·1	17·2	16·5	17·1	19·0	22·0	24·7	26·4	27·2	26·2	24·3	22·6	21·6	21·0	20·7	20·6	20·4	19·9	19·7	21·0
Mean*	20·1	20·1	19·9	19·6	18·9	17·9	17·1	16·4	16·5	18·1	20·8	23·1	24·9	25·5	24·9	23·3	21·9	21·1	21·0	21·3	21·5	21·2	20·8	20·6	20·7
Mean**	17·0	17·4	19·2	20·3	21·3	20·2	18·7	17·8	18·8	21·2	23·8	25·8	26·4	29·5	28·2	25·6	23·7	22·9	21·6	20·8	19·8	18·7	19·3	18·4	21·5
September.	13° + Tabular Quantities.																								Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1**	18·5	20·3	19·8	21·0	19·7	17·8	16·3	15·0	15·8	18·7	22·6	24·5	25·9	25·8	23·9	22·2	20·5	20·6	20·6	21·8	8·2	14·7	19·1	19·8	19·3
2	18·6	15·7	5·2	9·0	14·2	13·2	13·2	13·0	14·3	18·5	23·7	28·6	27·2	26·0	24·3	22·1	20·9	19·7	19·3	19·5	19·6	19·7	19·6	19·4	18·9
3	19·4	19·7	19·7	20·2	20·0	19·0	16·9	15·6	16·0	19·0	20·5	25·7	27·0	27·1	26·2	23·6	19·5	17·4	20·0	20·9	20·2	17·4	18·9	18·4	20·3
4	18·8	18·8	19·4	20·0	17·3	15·3	15·7	15·1	15·3	18·6	22·1	26·0	26·3	26·6	24·8	24·4	19·2	19·9	20·5	20·5	19·7	19·8	19·8	19·1	20·1
5	19·7	18·2	19·0	19·5	17·9	16·4	16·4	15·3	17·4	21·0	23·1	26·1	27·4	26·8	25·2	23·0	21·7	20·4	20·6	17·0	17·5	17·0	18·7	18·9	20·2
6	20·9	19·5	19·1	18·0	15·9	16·5	15·8	15·4	16·6	19·7	23·4	25·5	25·8	25·9	24·9	22·5	21·1	20·6	20·4	20·6	20·8	19·9	16·1	16·4	20·3
7	16·9	18·3	16·2	18·9	15·1	13·9	13·5	15·3	16·7	20·0	22·5	26·9	28·5	26·9	26·8	22·9	20·2	17·7	13·3	17·3	19·2	19·8	17·9	19·8	19·4
8	19·9	19·7	19·4	18·9	18·4	18·3	16·6	16·3	17·2	19·3	20·8	23·1	24·9	24·5	22·5	21·1	19·8	19·8	19·8	19·8	19·8	19·9	19·1	18·4	19·9
9	18·7	18·5	18·2	18·2	17·6	17·1	16·3	15·6	15·5	17·6	20·4	23·1	24·9	26·2	24·3	22·1	19·7	17·7	18·0	17·5	18·2	17·5	14·5	15·6	18·9
10*	17·0	19·1	18·0	18·0	18·0	17·4	16·1	15·2	15·0	17·1	20·2	23·5	25·2	24·9	23·5	21·4	20·0	20·0	20·2	20·2	20·1	20·1	19·9	19·7	19·6
11*	19·4	19·0	18·8	18·6	18·0	17·3	16·7	15·4	17·3	19·0	22·1	25·2	25·7	25·4	24·1	22·2	20·3	19·5	20·0	20·2	20·3	19·9	19·8	19·6	20·2
12*	19·5	19·2	19·0	19·1	18·8	18·3	17·2	16·0	16·6	18·5	21·0	23·3	25·3	24·5	22·7	21·6	20·4	20·4	21·0	21·0	20·8	19·8	20·0	20·1	20·0
13	20·2	20·0	19·7	19·2	18·7	18·3	17·6	16·7	16·8	18·7	21·3	24·0	25·4	25·3	24·0	22·6	21·3	20·6	20·1	20·0	21·1	20·8	20·2	20·0	20·5
14**	19·8	19·3	18·6	19·3	18·5	19·7	17·9	18·4	20·0	23·3	22·7	22·2	24·2	25·3	24·1	24·9	21·0	18·5	18·6	4·4	15·1	11·3	13·3	9·8	18·8
15**	6·4	11·5	21·3	19·3	19·6	19·0	18·7	18·5	19·9	20·5	22·7	24·8	26·7	26·0	25·4	25·7	26·0	14·3	15·0	17·1	17·2	18·3	17·4	14·5	19·4
16	16·1	18·6	18·5	19·5	19·3	20·6	20·0	15·7	15·9	18·5	21·0	20·8	22·7	23·3	22·5	21·4	19·7	18·3	17·8	18·8	18·1	16·7	19·5	19·4	19·3
17	18·3	18·8	18·6	18·5	19·8	18·8	20·0	16·7	17·0	19·2	23·0	25·2	27·4	25·4	24·2	20·3	18·3	17·4	18·4	16·9	15·2	17·2	18·3	18·9	19·7
18	19·0	18·7	18·7	19·2	17·9	17·4	17·0	16·2	16·6	18·1	22·4	25·5	25·8	24·7	23·5	21·2	19·3	18·6	18·7	18·1	16·6	17·4	18·3	18·4	19·5
19	18·7	18·5	18·5	18·1	17·9	17·6	17·4	16·8	17·4	19·1	22·3	24·7	25·3	24·4	23·4	22·0	19·3	17·6	18·9	18·5	18·5	17·4	17·9	18·3	19·5
20	18·6	18·4	18·2	17·8	17·8	17·9	17·9	15·7	15·9	20·0	22·3	24·2	25·0	24·0	22·3	21·2	20·2	20·2	20·0	18·5	18·1	18·1	19·0	19·0	19·6
21**	18·9	18·8	21·7	18·1	16·3	19·6	19·1	19·9	25·4	21·7	22·7	23·5	24·7	24·4	23·5	22·4	20·8	20·8	20·3	20·3	20·3	18·9	18·9	18·3	20·4
22	18·3	18·3	18·1	17·7	17·6	17·2	16·4	15·5	20·3	21·7	24·6	25·4	26·1	26·8	24·7	19·2	20·6	20·4	19·7	17·5	18·5	16·7	16·8	16·7	19·8
23	18·6	18·1	17·4	17·6	18·6	17·4	16·6	15·8	16·2	18·3	21·6	23·0	24·6	23·8	22·2	20·9	20·1	20·0	20·2	19·6	20·3	14·6	15·7	16·8	19·1
24**	18·3	20·5	17·1	22·1	20·5	18·5	19·3	20·5	20·9	22·3	25·2	27·0	27·2	26·0	23·8	23·0	25·8	14·4	16·4	19·0	13·7	11·4	12·1	17·7	20·1
25	18·7	18·3	18·3	17·0	16·4	16·4	15·7	16·5	16·5	18·7	20·4	21·9	22·7	22·0	21·0	20·8	20·8	17·6	20·6	20·4	20·2	20·1	19·3	19·0	19·1
26	19·0	18·8	18·4	18·3	17·8	17·4	17·1	16·9	16·9	18·3	20·3	21·7	22·2	22·8	22·2	21·6	20·9	19·8	19·1	18·9	19·3	19·7	19·0	19·0	19·4
27	18·8	18·1	18·1	18·2	18·1	18·1	18·0	16·7	16·1	17·6	20·2	22·5	23·9	24·2	22·5	21·2	20·4	20·3	20·0	19·7	19·4	19·7	19·4	19·3	19·6
28	19·3	19·3	18·8	18·7	18·5	18·1	17·9	16·6	16·0	16·3	18·6	21·3	23·1	23·3	21·9	20·6	19·8	19·9	19·5	18·7	19·5	18·6	18·4	19·9	19·3
29*	19·9	19·9	19·2	18·6	17·9	17·4	17·0	15·9	15·0	15·7	19·0	22·0	23·4	23·0	22·5	20·8	19·4	18·9	19·2	19·2	19·2	19·2	19·2	19·1	19·2
30*	19·2	19·0	18·6	18·5	17·8	17·2	16·4	15·1	14·7	16·4	20·2	23·4	25·8	24·6	22·5	19·5	17·1	16·4	16·8	16·4	16·1	16·5	16·4	16·4	18·4
Mean	18·4	18·6	18·3	18·5	18·0	17·5	17·0	16·2	17·0	19·0	21·9	24·2	25·3	25·0	23·6	21·9	20·5	18·9	18·8	18·6	18·7	17·9	18·1	18·2	19·6
Mean*	19·0	19·2	18·7	18·6	18·1	17·5	16·7	15·5	15·7	17·3	20·5	23·5	25·1	24·5	23·1	21·1	19·4	19·0	19·4	19·4	19·3	19·1	19·1	19·0	19·5
Mean**	16·4	18·1	19·7	20·0	18·9	18·9	18·3	18·5	20·4	21·3	23·2	24·4	25·7	25·5	24·1	23·6	22·8	17·7	18·2	16·5	14·9	14·9	16·2	16·0	19·6

TABLE A I.—HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER—*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	
October.	13° + Tabular Quantities.																									Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
1	21·0	20·6	21·2	21·6	20·9	17·6	17·3	16·2	16·4	(17·6)	—	—	24·7	23·8	23·2	22·2	21·3	21·0	20·2	20·8	21·9	21·8	20·2	19·6	—	
2*	19·2	18·8	18·7	18·2	18·0	17·5	17·3	16·5	16·2	16·8	19·5	22·2	23·6	23·6	22·4	20·7	19·3	19·0	19·0	18·5	18·2	18·2	18·2	18·2	19·1	
3*	18·5	18·6	18·4	18·2	17·9	17·5	17·4	16·6	15·7	16·0	18·7	21·5	23·8	23·8	23·2	22·1	20·6	20·3	20·2	20·0	20·1	20·5	20·2	18·8	19·5	
4	17·2	16·9	13·9	15·4	15·9	16·6	17·4	17·4	16·6	18·0	20·7	23·2	24·8	26·4	24·5	23·1	22·6	21·3	20·1	18·1	14·4	11·2	10·9	16·7	18·4	
5	18·4	18·9	18·9	19·7	19·2	18·1	18·5	18·5	17·2	18·5	22·3	26·0	28·2	28·7	26·0	22·3	22·6	21·4	20·3	19·8	19·3	18·8	19·1	18·4	20·8	
6	17·7	18·3	18·3	19·8	20·0	17·7	18·5	17·7	16·7	19·0	21·5	25·3	24·9	24·5	24·3	22·6	21·5	21·1	20·6	19·9	19·6	19·2	19·0	18·5	20·3	
7	18·4	18·6	18·5	18·4	18·9	19·5	18·4	16·9	16·4	17·5	20·3	23·0	25·0	25·2	23·9	22·4	20·9	20·5	20·1	19·6	19·6	19·5	19·1	18·9	20·0	
8	18·8	18·9	18·9	19·0	19·0	18·8	17·5	17·1	16·1	16·7	17·9	20·7	23·0	23·3	23·3	22·2	20·8	20·7	20·6	19·9	19·3	13·3	7·0	8·2	18·4	
9**	8·8	16·5	13·2	21·4	24·8	21·3	20·2	18·6	16·6	17·9	18·4	21·8	24·1	25·4	26·0	26·1	23·3	20·8	14·4	16·7	14·7	9·1	11·0	13·9	18·5	
10	17·0	13·8	14·6	14·4	15·2	17·7	17·8	17·7	17·2	18·6	20·8	24·4	24·5	24·9	23·9	22·0	20·0	16·6	15·9	17·7	17·2	17·7	18·5	18·6	18·6	
11	17·7	19·7	17·0	14·3	17·0	17·3	17·0	17·1	17·1	18·4	20·4	22·5	25·2	27·1	25·6	23·2	18·2	16·9	19·2	19·2	17·3	9·0	11·9	13·2	18·4	
12**	10·5	18·1	20·2	16·8	16·8	21·0	20·0	18·7	17·1	18·8	20·1	25·5	21·6	23·7	22·8	21·5	18·7	6·4	9·7	18·5	18·5	17·7	18·0	18·0	18·3	
13	18·0	18·7	19·9	19·2	19·1	19·7	18·5	18·4	16·5	17·1	18·2	20·1	21·7	22·7	22·2	20·6	18·5	17·2	15·7	17·7	16·5	16·5	15·3	13·2	18·4	
14	15·9	18·3	16·3	19·0	20·2	18·2	18·8	19·7	18·9	17·3	17·6	22·3	21·4	23·0	23·1	22·2	20·7	18·0	18·1	18·1	18·2	18·2	18·2	18·1	19·2	
15	18·6	18·1	19·0	18·6	18·1	18·0	17·3	16·0	16·2	18·5	21·2	—	—	—	—	—	—	—	—	—	(18·0)	16·6	15·4	17·3	—	
16	13·8	17·6	17·2	18·6	19·2	19·1	19·7	18·9	16·5	17·2	18·3	22·7	24·6	24·1	24·1	23·3	22·1	21·2	19·5	17·9	16·5	16·0	18·2	18·6	19·4	
17	20·5	20·4	18·7	19·3	19·3	18·7	18·0	16·9	16·0	16·9	20·0	22·9	25·9	25·4	24·3	23·9	22·3	20·7	19·8	19·1	18·9	18·8	17·2	17·1	20·0	
18*	18·2	18·4	18·7	18·6	18·6	18·4	17·6	16·1	15·7	16·9	19·3	22·6	24·0	24·5	24·0	22·6	21·3	20·3	19·3	18·7	18·4	18·1	18·2	18·2	19·4	
19	18·7	18·8	18·7	18·9	18·6	18·0	16·9	15·3	14·3	14·6	17·0	20·6	23·4	25·1	25·3	23·5	21·6	20·3	19·9	18·0	15·1	17·4	17·7	18·0	19·0	
20	17·6	18·2	21·0	17·1	17·4	18·1	17·4	16·5	15·3	16·7	18·9	24·4	26·1	26·5	27·0	25·0	23·4	18·9	19·0	18·9	18·3	18·3	18·1	18·1	19·8	
21**	18·9	19·7	19·0	19·8	19·6	18·0	17·8	17·8	17·7	18·4	20·4	23·8	26·0	27·0	23·5	27·2	26·0	26·9	26·0	18·7	11·6	13·6	8·3	6·1	19·7	
22	9·7	10·6	16·1	16·6	21·3	21·4	17·9	16·4	15·9	16·4	17·6	19·4	22·4	25·3	25·8	26·5	25·4	24·8	23·3	18·0	17·3	19·4	18·6	17·5	19·3	
23**	18·3	18·3	17·8	18·0	17·9	17·7	17·9	16·8	15·2	16·3	19·3	24·7	26·1	28·3	25·8	23·2	16·8	20·6	16·4	6·8	5·2	6·6	6·2	6·6	17·0	
24**	5·2	6·0	9·3	5·9	15·5	13·4	21·2	19·4	18·1	17·5	20·2	22·5	23·4	23·7	22·1	21·0	20·8	21·5	20·0	12·4	15·7	17·6	18·1	17·4	17·0	
25	16·9	16·6	16·6	17·4	17·0	17·7	17·4	16·5	15·3	14·7	17·9	20·8	23·0	23·2	21·5	20·0	18·8	18·3	18·8	18·7	17·4	15·3	15·3	17·2	18·0	
26	16·9	18·1	17·7	17·9	18·3	18·0	18·0	17·2	15·7	16·4	18·5	20·3	22·3	23·4	22·8	22·1	20·8	20·0	19·3	18·3	16·8	17·8	16·6	17·3	18·8	
27	17·8	17·8	17·8	18·0	17·9	17·8	17·6	17·2	15·5	15·4	17·4	20·7	23·1	24·4	24·0	23·3	23·0	22·4	20·0	18·9	18·6	18·1	13·7	12·7	18·9	
28	14·2	17·6	17·6	17·6	17·8	17·5	17·6	16·8	15·5	14·7	16·5	19·5	21·3	22·8	21·7	20·8	19·7	19·1	19·0	18·7	18·1	18·0	17·8	16·7	18·2	
29*	17·2	17·1	17·6	17·4	17·4	17·0	16·9	16·5	14·9	14·8	16·8	20·4	21·5	21·5	20·6	19·9	19·3	18·9	18·7	18·9	18·0	17·5	17·2	17·4	18·2	
30*	18·7	18·7	18·3	17·9	17·8	17·5	17·6	16·6	15·3	15·0	16·9	20·2	22·8	22·7	22·0	20·8	19·9	18·9	18·5	17·9	17·8	17·8	17·8	18·1	18·5	
31	18·2	18·3	18·3	18·1	17·9	17·2	16·8	16·1	15·1	15·2	17·5	20·2	24·2	23·5	23·3	21·3	21·5	20·8	20·9	18·5	17·9	17·4	17·6	17·4	18·9	
Mean	16·7	17·6	17·7	17·8	18·5	18·1	18·0	17·2	16·2	16·9	18·7	22·1	23·9	24·6	23·7	22·6	21·1	19·8	18·7	18·1	17·2	16·6	16·1	16·3	18·9	
Mean*	18·4	18·3	18·3	18·1	17·9	17·6	17·4	16·5	15·6	15·9	18·2	21·4	23·1	23·2	22·0	21·2	20·1	19·5	19·1	18·8	18·5	18·4	18·3	18·1	18·9	
Mean**	12·3	15·7	15·9	16·4	18·9	18·3	19·4	18·3	16·9	17·8	19·7	23·7	24·2	25·6	24·0	23·8	21·1	19·2	17·3	14·6	13·1	12·9	12·3	12·4	18·1	
November.	13° + Tabular Quantities.																									Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
1**	17·5	18·3	20·8	8·6	14·8	16·9	17·6	16·3	14·9	15·6	18·8	20·5	23·4	23·1	20·9	19·8	19·0	18·5	18·5	16·4	15·6	17·0	17·1	17·8	17·8	
2**	17·2	18·0	17·7	17·9	17·7	17·7	17·5	16·9	15·9	16·2	17·7	19·8	21·3	21·1	20·9	20·1	19·4	18·4	15·0	17·2	16·5	13·0	13·8	12·3	17·5	
3	14·5	15·3	16·1	16·4	16·7	16·3	17·3	17·3	16·9	17·4	19·7	22·2	22·9	22·0	21·3	20·5	19·8	19·4	19·2	18·5	16·3	17·5	17·6	17·7	18·3	
4	17·8	17·9	18·0	17·8	18·1	17·7	17·3	17·2	16·7	16·9	18·3	20·1	21·8	22·0	21·5	20·3	19·7	19·1	19·0	18·4	18·1	17·9	17·4	14·3	18·5	
5*	16·2	17·1	18·1	18·1	17·7	17·8	17·3	16·9	16·3	16·8	18·4	20·9	21·8	21·3	20·7	20·1	19·8	19·3	18·9	18·5	18·3	18·2	18·3	18·4	18·6	
6	18·4	19·1	18·9	19·0	18·7	18·1	17·9	17·7	16·6	16·9	19·8	21·0	22·8	22·0	21·9	20·9	19·8	19·8	19·4	17·7	18·4	18·3	18·4	17·8	19·1	
7	18·0	18·6	18·9	19·1	19·0	18·9	18·3	17·6	16·2	15·4	17·5	19·6	21·3	22·7	22·1	21·7	19·9	19·5	19·3	19·0	18·8	17·0	16·0	18·0	18·9	
8	17·9	19·1	19·5	18·5	18·6	18·5	17·8	17·3	16·3	16·4	18·2	20·7	21·8	22·1	20·9	20·2	20·2	19·7	19·9	20·1	19·4	16·0	10·6	3·5	18·1	
9**	6·1	3·4	9·8	14·6	18·0	21·3	22·2	21·3	18·7	17·8	18·3	20·4	22·1	21·9	22·6	22·2	22·1	20·8	17·2	9·6	9·6	10·3	1·4	4·1	15·7	
10**	16·1	21·3	18·8	22·8	23·3	24·0	22·2	19·0	17·1	18·2	17·8	19·4	20·4	21·0	21·0	20·0	18·5	17·0	10·2	10·7	11·6	10·0	11·3	15·2	17·8	
11	17·9	17·9	15·8	18·0	18·6	19·2	18·2	17·3	17·3	19·7	22·2	24·8	24·7	23·8	22·2	20·5	19·1	18·2	18·2	17·7	17·4	17·1	14·9	18·1	19·1	
12	17·0	18·7	18·1	17·1	17·2	16·3	16·5	16·1	15·3	15·7	17·4	—	—	—	—	—	—	—	—	—	—	—	13·8	15·1	—	
13	16·0	16·5	17·5	16·5	15·9	16·1	16·1	16·0	16·1	16·3	18·3	(20·0)	21·7	22·1	21·9	21·6	21·0	16·5	18·1	11·6	14·6	15·1	16·9	17·8	17·1	
14**	17·9	18·0	18·3	18·0	18·2	19·4	18·3	18·7	18·6	18·3	20·5	21·9	23·0	23·4	24·9	23·9	23·9	19·5	18·6	16·6	13·1	13·5	15·4	16·9	19·1	
15	17·7	18·2	17·7	17·6	17·6	17·0	16·6	16·3	15·5	16·5	19·3	20·9	22·4	22·7	20·9	19·6	16·4	15·7	16·9	16·1	15·8	12·8	13·8	14·8	17·5	
16	16·8	18·0	18·3	18·4	18·5	18·3	16·7	15·5	14·5	14·7	17·4	19·3	20·7	20·9	20·1	19·2	18·6	17·7	17·6	17·4	15·8	14·2	14·6	16·2	17·5	
17	17·2	18·7	18·6	18·2	18·2	17·3	16·9	16·0	15·0	15·1	17·2	20·7	22·6	23·3	22·1	20·5	19·1	18·1	18·0	17·0	16·3	16·1	16·5	16·9	18·1	
18	17·6	18·1	18·3	18·3	18·4	18·2	17·3	16·6	15·9	16·1	18·6	21·9	22·8	22·0	21·0	20·4	20·0	18·6	18·1	17·8	17·0	17·0	16·5	16·3	18·5	
19	16·6	16·6	17·9	18·7	18·5	17·9	16·9	16·8	16·2	16·9	19·1	20·9	22·5	22·3	21·0	20·6	19·7	18·8	18·5	18·0	17·0	16·8	17·2	17·3	18·4	
20	18·4	17·8	17·8	18·3	18·4	17·8	17·3	16·8	15·9	16·6	18·5	21·4	23·9	23·8	22·5	21·4	21·6	20·4	17·8	18·7	17·9	15·8	15·1	15·9	18·7	
21*	16·8	17·7	17·8	18·1	17·9	17·9	17·7	17·7	17·1	17·2	18·7	20·0	21·3	22·0	21·6	20·2	19·5	18·7	18·4	18·2	17·9	17·7	17·6	17·5	18·6	
22*	17·3	17·5	17·6	17·8	17·9	18·0	17·9	17·4	16·3	16·6	18·2	19·6	20·9	21·0	20·3	19·6	19·4	19·1	19·0	18·5	18·3	17·4	17·5	17·5	18·4	
23	17·6	17·8	17·6	17·9	17·5	17·3	17·3	16·6	15·7	15·7	17·5	20·4	20·3	22·3	21·5	19·8	19·3	18·5	18·3	18·2	17·6	17·2	16·6	16·0	18·1	
24	14·2	16·3	17·3	17·3	17·7	17·5	17·2	17·2	16·6	17·0	19·2	21·2	23·2	23·3	23·2	21·6	22·3	21·1	19·7	17·2	16·2	17·2	17·9	17·2	18·7	
25	17·1	17·1	18·0	17·2	17·3	17·4	17·3	17·6	17·1	17·1	19·1	21·1	21·8	21·6	21·2	20·0	19·0	19·0	18·0	16·0	18·0	17·6	17·5	17·1	18·3	
26	17·2	17·7	17·5	17·1	17·2	17·3	16·7	16·7	16·7	16·9	18·6	19·8	20·7	20·8	20·7	20·3	19·4	18·5	18·1	17·9	17·8	16·0	16·8	16·7	18·0	
27*	16·8	17·5	17·8	17·8	17·7	17·1	16·8	16·7	16·1	16·0	17·5	(19·5)	(20·8)	(21·1)	20·6	19·7	18·8	18·6	18·1	17·8	17·7	17·4	16·9	16·8	18·0	
28*	17·0	16·8	16·8	17·6	17·6	17·6	16·9	16·6	15·8	15·8	17·2	19·1	20·6	20·6	19·7	18·9	18·7	18·5	17·7	17·3	17·1	16·9	17·0	17·2	18·1	
29	17·1	17·0	17·0	17·0	16·8	16·7	16·7	16·2	15·4	15·7	17·5	20·4	21·8	21·8	20·0	19·2	18·8	18·7	17·9	17·2	16·9	16·8	16·8	16·8	17·8	
30	16·8	16·9	16·9	17·1	17·2	17·0	16·7	16·1	15·6	15·5	16·9	18·7	20·1	20·5	20·0	19·4	18·5	18·0	17·7	17·5	17·3	17·0	17·0	17·0	17·6	
Mean	16·7	17·3	17·6	17·6	17·9	18·0	17·6	17·0	16·3	16·6	18·4	20·6	21·9	22·0	21·4	20·4	19·7	18·7	17·9	17·0	16·6	16·0	15·6	15·8	18·1	
Mean*	16·8	17·3	17·6	17·9	17·8	17·7	17·3	17·1	16·3	16·5	18·0	19·8	21·1	21·2	20·6	19·7	19·2	18·8	18·4	18·1	17·9	17·5	17·5	17·5	18·3	
Mean**	15·0	17·8	17·1	16·4	18·4	19·9	19·6	18·4	17·0	17·2	18·6	20·4	22·0	22·1	22·1	21·2	20·6	18·8	15·9	14·1	13·3	12·8	11·8	13·3	17·6	

TABLE A I.—HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER—*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	
December.													13° + Tabular Quantities.													Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	17·0	17·0	16·9	16·6	16·6	17·0	17·0	16·4	15·9	15·2	15·7	19·6	20·9	21·0	19·7	19·4	19·0	18·1	17·8	17·1	17·9	17·2	16·8	16·2	17·6	
2	16·5	17·5	17·4	17·3	17·0	16·9	16·2	16·5	16·7	16·5	17·6	20·0	21·4	21·2	20·1	19·4	18·9	18·2	18·0	17·5	17·0	17·2	17·1	17·0	17·9	
3*	16·4	16·9	17·3	17·3	17·2	16·9	16·9	16·9	16·9	17·6	18·6	19·1	19·8	20·7	20·1	20·0	19·5	18·8	18·5	18·8	17·8	16·8	15·9	16·7	18·0	
4	16·7	16·9	17·6	17·7	17·8	17·9	17·4	17·1	17·0	18·3	20·0	22·2	22·7	21·6	19·5	19·0	18·5	18·0	17·5	17·5	15·9	15·4	16·5	16·7	18·1	
5	16·9	17·8	17·9	17·0	16·9	17·2	16·8	16·4	15·8	15·7	16·7	18·8	19·9	19·8	19·4	18·8	18·4	17·9	17·4	16·9	15·9	11·1	9·4	14·1	16·8	
6**	16·6	17·4	16·2	15·6	14·0	16·3	16·6	18·3	19·3	17·5	18·3	21·5	21·7	23·6	20·3	20·1	20·3	18·1	17·6	16·1	14·3	15·6	16·2	16·3	17·8	
7**	16·3	16·8	19·4	19·6	20·1	19·4	19·0	19·9	18·7	16·5	16·9	19·7	20·4	21·1	21·4	18·7	17·9	17·4	16·5	14·6	15·1	15·9	15·7	16·0	18·0	
8	16·2	16·8	16·8	17·2	17·2	17·1	18·4	19·0	16·8	15·7	16·6	19·3	20·4	21·2	19·9	18·6	17·5	16·6	16·3	16·6	16·3	15·6	15·6	16·0	17·4	
9	15·8	15·8	17·7	16·0	16·6	16·4	16·8	17·5	17·3	16·7	16·0	18·2	20·3	19·8	19·8	19·3	16·3	17·3	17·5	16·8	16·5	15·8	16·1	16·2	17·2	
10	16·7	17·1	17·0	17·2	17·0	16·6	16·6	16·9	16·4	15·8	17·3	18·3	19·9	18·9	18·7	18·5	15·8	16·3	17·4	16·4	16·4	14·4	10·9	13·9	16·7	
11	14·7	15·0	16·7	16·8	16·9	16·7	16·5	15·9	15·5	16·4	19·0	20·2	20·5	19·9	18·9	18·6	17·9	17·5	17·1	16·9	16·8	15·4	15·3	13·9	17·0	
12	16·2	16·7	17·6	17·4	16·9	16·4	16·4	16·6	16·4	16·6	17·1	17·6	18·9	19·9	20·3	18·4	17·6	17·6	16·8	16·2	16·9	16·4	16·3	16·0	17·2	
13	13·8	12·9	16·2	17·1	17·2	16·8	16·3	16·4	16·1	16·8	18·4	18·8	19·6	20·0	19·8	18·0	17·7	17·7	17·2	17·2	16·6	13·7	15·6	15·9	16·9	
14*	16·1	15·7	16·8	16·6	16·6	16·6	16·5	16·8	17·0	17·1	18·0	19·2	20·4	21·7	22·4	20·8	19·4	18·2	17·5	16·4	16·3	15·4	16·0	16·2	17·7	
15	16·9	17·2	17·9	17·9	17·4	16·9	15·9	15·9	15·5	14·9	16·0	18·8	20·1	21·5	22·7	21·8	21·3	21·9	18·6	15·6	13·2	8·4	7·7	7·8	16·7	
16	9·4	12·0	12·5	16·1	16·5	17·5	18·1	17·1	16·4	15·9	17·3	18·5	18·6	19·6	19·5	17·5	17·5	17·5	17·4	16·5	16·1	15·7	15·7	16·0	16·5	
17*	16·5	16·9	17·5	17·8	17·5	16·4	15·9	15·6	15·5	14·9	15·5	16·7	18·8	19·9	19·7	18·8	18·3	17·7	17·6	16·6	15·9	15·7	15·7	15·7	17·0	
18**	16·2	17·0	17·1	17·0	16·9	16·8	16·7	16·7	16·0	15·8	16·8	18·5	20·5	21·1	20·9	21·9	22·0	22·8	20·1	17·5	16·9	16·1	15·0	14·9	18·0	
19	14·9	15·2	15·4	16·0	16·0	16·0	16·0	15·9	15·9	15·6	16·0	17·2	18·5	18·8	19·1	17·8	17·9	18·1	17·9	17·2	16·9	15·1	15·9	15·6	16·6	
20	12·8	12·9	13·2	14·2	13·2	12·7	15·1	15·7	15·9	16·2	17·1	18·2	18·5	18·8	18·5	18·1	18·1	17·8	17·3	17·0	16·3	16·0	15·9	15·7	16·1	
21*	15·9	15·8	15·7	15·8	15·6	15·9	15·4	15·6	15·9	16·2	17·3	18·5	19·0	19·3	19·2	18·4	17·7	17·5	17·8	17·8	17·2	16·6	16·4	15·4	16·9	
22	15·2	15·1	15·4	16·0	15·9	15·8	15·8	15·7	15·8	16·2	17·2	18·2	18·5	19·3	19·0	18·3	17·3	17·7	17·7	18·0	17·4	16·5	16·1	15·6	16·8	
23	15·5	14·3	14·3	14·5	15·0	15·0	15·1	15·3	14·9	15·1	16·8	18·3	21·2	20·2	20·0	19·4	20·2	20·5	17·7	16·8	16·2	14·8	15·7	16·1	16·8	
24	15·4	15·7	13·4	14·6	15·1	14·9	14·9	15·0	15·1	16·1	17·9	19·1	20·0	23·4	21·7	22·0	21·0	19·1	18·2	16·9	16·0	14·0	13·3	15·0	17·0	
25	15·4	16·1	16·9	17·2	16·8	16·4	16·3	16·2	16·4	16·6	18·9	18·4	18·3	19·2	18·8	17·8	17·7	17·7	17·3	16·8	16·4	15·5	16·3	16·5	17·1	
26*	16·7	16·8	16·8	16·7	16·7	16·2	15·9	15·9	15·7	15·9	16·9	17·9	19·2	19·6	19·0	18·3	17·8	17·0	17·1	17·0	16·9	16·7	16·5	16·4	17·1	
27**	16·3	16·7	16·7	16·7	16·5	16·1	15·2	15·3	15·8	16·6	18·6	19·3	19·5	19·5	20·0	21·5	23·2	24·9	27·6	24·7	12·9	9·7	10·9	13·8	17·8	
28**	15·3	15·5	15·8	15·8	16·3	15·8	14·7	(23·8)	(26·2)	(17·4)	15·5	17·3	17·7	20·1	20·7	21·9	18·1	17·3	16·4	16·3	15·3	13·5	13·2	13·6	17·2	
29	16·5	16·5	16·0	15·6	15·5	14·9	14·7	14·7	14·9	15·4	16·7	17·3	18·3	18·5	18·6	18·1	16·7	16·8	16·0	15·7	15·4	14·8	13·5	14·4	16·1	
30	15·7	16·9	17·0	17·1	16·5	15·9	15·7	15·1	15·0	15·7	16·9	17·3	19·0	19·4	18·9	17·9	17·6	16·8	16·9	16·3	16·1	15·6	15·8	15·9	16·7	
31	16·1	16·1	16·2	16·3	16·3	16·1	15·9	15·5	15·4	16·0	16·5	17·5	18·5	18·8	18·0	18·2	17·6	17·9	18·5	17·1	14·4	15·6	15·6	17·3	16·7	
Mean	15·7	16·0	16·4	16·6	16·5	16·4	16·3	16·6	16·5	16·2	17·2	18·7	19·7	20·2	19·8	19·2	18·5	18·3	17·9	17·1	16·1	15·0	14·9	15·4	17·2	
Mean*	16·3	16·6	16·8	16·8	16·7	16·4	16·1	16·2	16·2	16·3	17·5	18·3	19·4	20·2	20·1	19·3	18·5	17·8	17·7	17·3	16·8	16·2	16·1	16·1	17·3	
Mean**	16·1	16·7	17·0	16·9	16·8	16·9	16·4	18·8	19·2	16·8	17·2	19·3	20·0	21·1	20·7	20·8	20·3	20·1	19·6	17·8	14·9	14·2	14·2	14·9	17·8	

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER

	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	
February.	18000 γ + Tabular Quantities (in γ).																									Mean.
1	599	600	601	603	607	609	612	616	616	610	604	(596)	593	590	588	603	610	609	611	609	601	596	602	605	604	
2	600	601	601	602	603	606	606	609	609	600	593	590	590	593	598	601	601	(605)	(605)	(605)	605	606	605	606	602	
3*	603	601	605	605	607	607	609	610	609	603	600	596	597	598	600	601	602	602	603	605	605	602	609	607	604	
4*	605	607	607	609	610	609	611	612	607	598	594	594	597	600	601	603	605	605	606	606	607	606	607	609	605	
5	609	606	607	609	611	612	612	614	611	602	594	593	597	597	596	598	602	603	605	606	606	607	606	606	605	
6	610	609	606	609	609	609	609	609	607	605	(598)	601	606	612	608	604	599	599	599	598	604	609	608	609	606	
7	606	614	609	609	610	612	612	613	612	608	601	596	595	599	603	605	606	612	612	610	601	615	617	619	608	
8**	619	619	618	619	621	619	618	619	619	617	615	613	610	610	608	605	606	(599)	(586)	584	579	582	587	588	607	
9**	579	574	589	601	589	601	601	597	610	600	589	586	574	578	582	586	586	587	582	582	592	588	591	589	589	
10	592	592	587	586	589	592	593	595	596	588	582	577	582	586	588	589	592	589	593	593	595	593	593	593	590	
11	593	595	592	595	597	600	600	596	591	584	582	579	582	588	592	592	596	595	595	590	584	584	587	591	591	
12	593	595	592	593	595	597	600	601	602	596	596	597	593	591	591	586	579	574	590	595	593	591	595	595	593	
13	597	600	598	598	600	600	598	600	596	587	583	584	589	593	595	599	599	596	595	593	600	595	593	595	595	
14	595	593	595	595	595	597	598	598	597	595	592	589	587	586	584	591	591	586	587	595	600	596	596	596	593	
15	596	596	596	596	597	600	600	597	592	584	582	583	590	594	596	595	593	600	602	602	600	602	599	599	595	
16	598	598	598	600	601	602	604	604	601	593	584	583	588	593	597	592	(588)	(598)	(605)	607	598	600	596	587	596	
17	592	605	596	596	600	600	601	610	603	597	596	601	600	596	593	589	589	585	584	588	589	593	589	606	596	
18	602	598	600	601	603	605	601	603	609	601	591	585	584	593	597	598	598	602	603	606	603	600	591	593	599	
19	596	596	592	593	594	601	602	598	596	591	591	592	584	587	592	584	583	582	576	574	566	571	570	571	587	
20	583	593	593	601	604	615	616	609	609	598	590	582	582	584	585	585	589	592	594	595	597	597	597	598	595	
21*	599	599	602	598	599	601	602	604	602	599	595	594	592	586	589	590	593	594	597	598	598	598	598	599	597	
22*	599	599	599	601	603	604	607	607	602	599	597	594	598	604	608	606	606	604	606	606	607	604	604	604	603	
23*	606	606	606	606	606	607	608	608	603	595	589	592	594	602	606	603	599	599	602	602	602	602	603	603	602	
24**	603	603	604	606	607	606	610	608	604	595	589	586	—	—	—	—	—	—	—	—	—	—	—	—	—	
25**	—	—	—	—	—	—	—	—	—	—	—	—	—	591	596	601	603	605	606	606	606	603	601	602	—	
26	602	605	606	610	611	611	611	609	605	597	590	590	591	599	603	607	608	612	613	612	609	608	608	608	605	
27	607	607	607	608	609	611	612	609	603	593	589	591	591	596	600	603	604	607	608	609	609	608	608	608	604	
28**	608	610	611	617	619	607	608	607	608	605	599	585	575	590	596	605	605	605	610	611	606	608	603	602	604	
Mean	600	601	601	603	604	606	606	606	604	598	593	591	591	594	596	597	597	598	599	600	599	599	598	600	599	
Mean*	602	602	604	604	605	606	607	608	605	599	595	594	596	598	601	601	601	601	603	603	604	602	604	604	602	
Mean**	602	601	606	612	610	609	609	608	612	607	601	595	586	593	595	599	599	597	593	592	592	593	594	593	600	
March.	18000 γ + Tabular Quantities (in γ).																									Mean.
1**	606	604	606	606	604	632	626	635	636	622	610	597	596	596	587	606	608	609	610	614	610	593	600	601	609	
2	603	604	605	607	609	610	612	609	604	599	595	594	594	594	599	608	609	610	612	612	612	610	609	613	606	
3*	609	608	607	611	611	611	609	613	604	599	599	597	597	600	608	613	611	611	612	612	613	613	613	612	608	
4	610	608	612	611	612	614	615	616	608	598	593	590	596	603	608	616	617	618	620	619	623	619	619	616	611	
5**	609	604	615	614	611	614	614	611	602	595	582	578	591	601	605	607	602	598	592	598	604	607	614	609	603	
6	608	607	606	614	613	609	608	601	597	590	587	584	588	596	603	608	608	606	609	606	608	606	606	606	603	
7	609	603	600	600	605	604	605	603	598	593	589	586	591	595	602	604	605	607	611	611	609	611	612	612	603	
8*	612	611	611	611	611	612	612	612	610	604	597	593	597	602	603	606	606	607	608	610	610	611	612	616	608	
9**	616	618	619	619	619	626	620	618	616	605	601	607	600	602	600	596	589	578	580	607	596	601	621	607	607	
10**	595	608	608	596	599	601	601	600	596	590	587	586	590	596	597	592	588	601	604	605	602	604	614	609	599	
11	602	602	600	602	609	601	602	602	598	592	588	588	591	592	597	600	602	602	602	605	609	607	605	601	600	
12	601	602	601	603	600	601	603	601	592	585	581	581	585	594	600	599	601	604	603	604	601	601	600	603	598	
13	604	604	604	604	603	601	599	600	596	592	585	587	590	594	600	603	603	605	605	603	601	599	603	605	600	
14	601	601	601	600	603	605	603	603	594	585	583	583	585	590	591	596	601	603	604	605	605	607	604	603	598	
15**	604	603	605	608	612	612	605	596	595	594	589	560	555	573	546	577	590	596	595	587	589	612	594	592	591	
16	592	592	594	596	596	601	600	596	587	574	574	573	577	586	590	595	600	600	605	604	605	603	602	600	593	
17	603	601	600	596	600	599	604	599	596	589	581	576	581	586	591	595	599	595	601	601	601	601	613	608	597	
18*	601	600	599	599	600	601	607	604	601	591	581	577	576	583	589	595	600	605	607	608	609	608	608	607	598	
19	607	604	604	604	605	609	613	612	604	596	589	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	585	582	592	600	604	604	609	617	613	611	602	602	603	—	
21	602	599	602	602	602	604	604	606	602	586	586	587	590	591	594	599	603	608	608	609	608	609	613	613	601	
22	613	613	615	616	611	612	612	607	597	585	578	582	584	586	589	597	603	599	606	609	610	612	613	606	602	
23	607	606	609	607	613	618	618	606	594	577	575	578	590	594	593	597	598	600	602	604	608	613	613	613	602	
24	609	611	611	609	607	607	607	604	599	591	586	586	593	595	598	606	606	607	615	609	610	608	607	607	604	
25	606	606	608	606	609	610	607	607	601	593	589	590	594	(595)	(600)	(601)	(601)	(605)	609	607	609	608	605	607	603	
26	609	610	610	618	613	616	618	614	609	607	599	594	600	609	605	605	605	614	617	614	614	612	610	614	610	
27	612	612	618	616	613	616	619	617	610	597	591	594	604	617	621	609	595	603	605	610	610	610	612	610	609	
28*	607	608	610	610	612	614	617	616	609	601	594	595	599	604	607	609	612	613	616	617	617	617	616	614	610	
29	614	613	613	613	613	614	616	614	609	599	591	587	588	595	601	611	607	599	603	601	597	599	603	609	605	
30	607	607	609	609	612	614	616	616	609	600	594	587	587	594	600	604	611	617	619	620	619	619	619	618	609	
31*	616	614	615	615	—	—	—	—	—	—	—	593	594	599	605	613	618	619	621	621	621	618	619	621	—	
Mean	606	606	607	607	608	610	610	608	603	594	589	586	589	595	597	602	603	604	607	608	608	608	609	608	603	
Mean*	607	607	607	608	609	610	611	611	606	599	593	590	592	597	602	606	607	609	611	612	612	612	612	612	606	
Mean**	606	607	611	609	609	617	613	612	609	601	594	586	586	594	587	596	595	596	596	602	600	603	609	604	602	

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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
April.	18000 γ + Tabular Quantities (in γ).																								Mean.
1	622	625	623	625	625	625	622	625	621	613	598	603	604	607	600	614	617	613	618	613	610	616	618	622	616
2	621	619	619	621	625	622	616	617	608	603	604	607	608	609	600	603	604	601	613	614	614	616	617	608	612
3**	605	617	619	616	625	619	621	616	599	589	576	569	572	581	583	579	582	582	578	585	598	603	605	600	597
4*	599	598	596	596	596	598	600	599	592	585	579	579	583	590	595	598	598	600	602	606	609	613	613	613	597
5	614	617	613	610	608	613	614	604	605	582	563	576	581	577	576	582	594	592	599	600	595	599	607	604	597
6	604	603	604	603	603	603	601	599	591	586	586	590	587	591	598	596	594	591	608	607	600	628	614	607	600
7	603	607	603	595	607	596	604	590	572	578	574	576	579	586	592	595	600	600	599	607	604	598	607	607	595
8	592	596	600	600	599	600	596	589	576	572	568	579	587	595	596	599	600	600	603	604	607	613	605	604	595
9**	609	610	600	601	592	599	603	599	585	574	569	569	581	586	595	600	601	605	617	605	608	637	630	622	600
10**	605	617	589	586	601	596	594	583	574	565	559	565	572	586	595	595	595	599	604	603	616	603	604	613	593
11	605	603	596	604	601	598	601	603	595	583	564	550	572	586	596	600	601	605	600	604	603	601	604	603	595
12	605	601	617	607	595	603	605	604	583	572	563	561	572	587	594	601	613	610	595	595	595	598	598	596	595
13	604	604	601	604	605	607	605	598	585	569	565	571	585	592	599	604	607	609	608	608	609	608	604	605	598
14	600	599	601	604	605	605	602	595	581	568	564	569	582	595	605	609	610	609	609	612	609	608	604	603	598
15**	605	601	605	607	607	605	605	600	590	581	577	578	588	595	608	612	622	621	609	604	616	591	585	598	600
16	599	603	596	598	600	605	605	600	594	577	555	565	576	578	589	601	604	604	604	605	612	605	604	601	595
17*	600	595	595	596	600	604	605	604	599	591	588	583	582	583	587	591	595	603	608	610	610	609	607	608	598
18	603	598	600	599	599	605	608	607	600	587	581	582	581	585	594	595	599	603	610	605	609	613	605	605	599
19*	603	603	600	600	601	605	609	608	601	595	587	579	579	585	594	601	605	610	614	614	616	617	622	621	603
20**	627	618	617	617	614	613	616	608	595	587	587	576	564	581	599	599	586	587	600	610	613	614	608	608	602
21	609	605	605	604	600	603	599	591	585	577	572	576	583	592	592	592	600	603	603	601	601	603	609	608	596
22	605	605	603	603	604	604	604	598	586	571	565	577	586	590	595	599	608	613	616	612	609	612	613	614	600
23	614	613	612	613	608	607	601	595	589	585	585	591	592	596	600	600	604	609	612	612	612	610	610	610	603
24*	609	609	610	610	608	608	607	601	590	582	577	585	592	600	603	608	610	612	614	612	612	609	609	609	604
25*	613	610	608	607	607	605	603	596	590	587	586	590	598	604	614	618	621	617	617	618	621	619	621	619	608
26	617	614	613	612	610	610	608	603	596	586	582	589	596	605	610	608	609	614	615	609	608	608	608	608	606
27	609	607	605	—	—	—	—	—	—	—	585	584	584	590	599	629	623	620	609	614	615	614	614	614	—
28	612	611	609	610	610	610	609	609	599	593	588	589	594	599	606	611	615	619	618	619	612	611	606	603	607
29	611	609	614	618	625	619	616	616	603	592	581	583	588	588	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	587	592	589	597	605	610	607	605	602	607	606	—
Mean	607	607	606	606	606	607	606	602	592	583	576	579	584	591	597	601	604	605	607	607	609	610	609	608	600
Mean*	605	603	602	602	602	604	605	602	594	588	583	583	587	592	599	603	606	608	611	612	614	613	614	614	602
Mean**	610	613	606	605	608	606	608	601	589	579	574	571	575	586	596	597	597	599	602	601	610	610	606	608	598
May.	18000 γ + Tabular Quantities (in γ).																								Mean.
1	603	601	601	600	600	601	600	593	585	583	581	589	592	592	597	601	605	606	611	609	607	606	605	605	599
2*	603	603	601	601	600	598	597	595	590	588	585	588	594	594	597	597	599	606	612	618	620	618	616	614	601
3	612	611	609	607	607	606	605	603	601	596	593	601	606	606	609	614	618	620	623	623	623	621	630	638	612
4**	636	612	616	620	616	612	584	606	607	570	553	557	576	575	576	548	552	581	585	582	590	584	594	589	588
5**	591	575	583	583	575	570	580	565	572	572	561	571	571	572	578	587	597	607	609	602	602	596	599	597	584
6	599	594	589	588	586	585	581	575	568	564	570	580	582	584	584	590	593	602	602	602	603	600	599	599	588
7	597	597	594	591	591	593	593	589	585	580	575	581	588	593	594	600	604	606	612	611	606	603	599	613	587
8	619	611	599	584	591	583	579	579	580	586	588	597	595	595	600	606	606	611	605	604	600	603	603	606	597
9	603	616	605	600	600	598	595	589	577	569	569	580	582	589	596	603	612	613	609	605	596	599	601	601	596
10	596	595	596	596	594	592	589	580	572	566	568	573	581	584	591	594	599	603	603	607	607	601	596	594	591
11	595	594	594	595	595	595	595	591	586	577	571	567	565	573	583	591	598	604	605	604	601	599	599	599	591
12*	596	594	595	594	595	594	592	589	584	574	568	569	568	576	583	592	601	610	611	608	604	601	600	598	592
13	597	597	597	597	598	597	596	592	585	581	577	577	581	588	606	610	609	613	612	609	602	599	607	599	597
14*	599	600	599	599	600	601	598	593	592	587	584	584	585	592	591	602	610	614	615	615	613	610	609	606	600
15*	602	604	604	606	608	605	601	596	593	593	596	599	597	597	602	608	610	617	621	618	617	614	613	612	606
16*	609	608	606	604	604	603	601	599	596	599	602	600	599	599	601	606	613	617	617	617	617	617	617	615	607
17	614	614	615	614	612	609	605	604	604	605	613	(612)	612	605	600	599	607	614	619	617	621	619	618	617	611
18	614	613	610	612	614	621	615	608	594	600	597	606	609	607	613	615	618	617	618	615	614	615	615	606	611
19	600	605	612	600	608	611	604	600	603	593	587	585	582	585	(578)	(596)	602	605	608	606	607	602	603	603	599
20	600	599	599	600	598	599	596	595	587	585	588	591	596	604	607	612	616	617	622	621	621	621	620	616	605
21	613	612	612	615	612	610	604	594	589	591	597	598	601	607	610	612	617	625	629	629	633	630	628	627	612
22	625	625	622	624	621	619	613	607	604	602	595	603	609	597	608	610	621	626	626	625	620	620	619	617	615
23	617	617	617	616	615	612	607	599	589	580	581	582	590	601	607	612	617	621	626	619	621	625	625	616	609
24	618	615	616	616	619	618	610	604	597	598	600	602	601	603	606	612	624	629	633	631	631	625	621	615	614
25	612	618	620	616	611	623	620	614	607	603	595	593	596	596	607	615	619	627	623	620	614	614	612	615	612
26	614	611	608	611	612	611	610	606	601	601	598	602	593	596	610	615	621	631	631	628	621	620	621	618	612
27	615	617	616	615	621	621	618	614	610	603	598	600	603	612	619	616	618	615	614	619	607	601	603	602	611
28**	602	599	610	615	614	601	590	583	587	586	584	581	575	583	606	(610)	(615)	615	616	611	605	605	605	617	600
29	604	602	602	602	606	608	600	592	578	569	568	582	590	594	602	613	623	630	630	623	618	620	627	624	604
30**	624	614	619	611	610	611	606	599	587	579	571	577	583	582	609	620	633	628	642	618	620	622	618	618	608
31**	622	610	595	600	584	570	561	569	575	571	580	580	579	582	593	590	596	626	615	617	614	614	609	604	594
Mean	608	606	605	604	604	602	598	595	590	586	584	586	590	592	599	603	609	615	616	614	612	610	610	610	602
Mean*	602	602	601	601	601	600	596	594	591	588	587	588	589	592	595	601	607	613	615	615	614	612	611	609	601
Mean**	615	602	605	606	600	593	584	584	586	576	570	573	577	579	592	591	599	611	612	606	606	604	605	605	595

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*continued.*

June. 18000 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	605	609	598	603	605	601	600	589	574	570	562	570	578	579	586	613	618	627	612	612	610	608	617	610	598	
2	601	598	603	603	599	595	581	569	569	572	(578)	(589)	(595)	(587)	(590)	(605)	(613)	(618)	(631)	621	619	618	634	627	(601)	
3	608	605	613	607	590	581	596	—	—	—	—	—	—	—	—	595	613	(619)	(636)	(647)	(638)	609	604	611	—	
4	613	603	601	598	596	600	594	581	576	578	577	586	587	592	607	613	614	621	620	629	626	621	614	612	602	
5	608	603	611	609	608	591	588	588	580	584	589	599	603	602	602	611	614	611	615	615	612	611	611	608	603	
6	608	607	606	602	600	598	600	597	593	585	590	592	597	615	637	618	597	611	624	622	609	602	602	603	605	
7	599	598	595	591	590	586	589	582	578	576	581	585	582	585	589	594	615	611	607	606	603	603	602	600	594	
8*	601	601	601	601	599	594	584	580	578	580	581	579	574	579	589	588	594	605	617	621	620	618	617	618	597	
9*	610	608	610	613	613	608	599	586	570	563	572	582	591	600	605	612	618	626	627	620	616	613	608	609	603	
10	605	606	609	608	608	610	605	596	587	582	577	583	591	605	617	618	606	626	634	630	621	614	609	606	606	
11	606	610	606	608	608	603	605	597	592	590	590	595	596	595	605	612	619	625	628	628	626	612	613	625	608	
12	614	612	612	618	614	612	610	608	600	595	591	584	582	583	598	608	613	620	623	622	618	613	611	611	607	
13**	618	616	607	611	619	622	591	556	556	570	573	571	562	576	570	557	585	619	633	620	629	627	636	609	597	
14	591	602	600	600	600	601	604	598	597	590	584	585	584	584	591	601	615	622	622	616	615	612	606	604	601	
15	605	605	601	601	606	604	600	592	588	589	588	597	601	601	602	610	618	618	616	620	627	616	623	625	606	
16	615	615	609	601	604	605	605	606	598	601	606	605	598	602	606	609	613	629	642	634	628	629	607	610	611	
17	619	607	610	613	606	604	602	593	585	588	591	597	589	592	607	619	623	624	625	616	615	614	610	609	607	
18	610	614	610	610	609	602	594	585	587	587	588	584	607	610	613	615	616	614	623	623	619	613	613	613	607	
19*	616	611	604	606	607	605	597	584	578	578	574	580	591	604	616	619	615	619	619	616	618	616	611	614	604	
20*	609	609	610	610	611	609	604	596	587	578	575	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
21*	—	—	—	—	—	—	—	—	—	—	583	591	600	604	613	616	620	624	625	622	620	620	619	619	—	
22	619	619	618	619	619	618	610	601	594	591	594	597	606	622	631	632	625	628	636	636	629	629	627	629	618	
23**	619	628	629	629	625	636	634	616	601	569	552	565	575	596	614	602	609	620	622	620	619	616	615	614	609	
24**	614	613	615	616	619	616	607	597	580	582	583	588	583	591	604	632	634	636	656	642	615	615	614	570	609	
25**	575	579	598	592	604	588	571	566	562	564	565	562	561	566	600	619	641	606	606	607	604	602	605	601	589	
26	598	597	598	601	604	601	593	585	571	566	566	567	565	587	601	606	613	616	611	610	609	609	609	605	595	
27	605	605	607	598	600	602	601	593	583	576	574	561	565	580	604	609	618	628	627	623	613	610	629	610	601	
28**	597	616	609	593	588	575	576	585	575	565	553	561	554	560	576	601	627	631	624	607	613	611	606	598	592	
29	622	613	602	596	592	594	588	585	576	567	573	580	582	594	588	611	609	618	613	613	614	613	615	618	599	
30	616	600	598	597	598	596	593	576	597	594	589	576	587	584	601	613	628	625	631	618	620	619	604	605	603	
Mean	608	607	607	605	605	602	597	589	583	580	582	583	585	592	602	609	615	621	624	621	618	614	613	610	603	
Mean*	609	607	605	607	606	602	593	583	575	574	576	580	585	594	603	606	609	616	621	619	618	616	612	614	601	
Mean**	605	610	612	608	611	607	596	584	575	570	565	569	567	578	593	602	619	622	628	619	615	614	615	598	599	

July. 18000 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	602	604	604	604	604	604	594	589	582	573	573	580	593	603	597	601	622	640	633	616	611	606	614	620	603	
2	607	605	605	602	601	593	593	587	578	576	588	598	610	619	618	615	610	619	628	629	616	613	616	625	606	
3	615	604	614	608	602	596	588	578	576	576	582	588	584	597	609	615	616	618	616	618	616	613	614	610	602	
4	610	610	606	608	610	608	604	601	594	584	580	587	596	604	613	618	613	617	627	625	624	619	617	619	608	
5	620	616	613	611	611	606	601	605	609	602	598	593	601	594	605	617	623	621	618	619	619	615	614	611	610	
6	614	615	610	609	609	602	601	601	596	589	592	596	594	596	607	616	619	625	619	618	615	611	611	613	607	
7	614	608	609	610	614	610	607	594	585	578	575	584	596	611	623	629	625	620	616	611	611	613	616	616	607	
8	615	614	613	614	615	613	606	596	588	589	590	592	597	594	609	614	622	627	622	619	619	618	618	614	609	
9	615	616	619	622	637	632	625	620	609	601	589	594	606	607	620	627	633	636	624	634	631	620	615	614	619	
10	615	617	622	619	619	615	607	606	609	607	605	602	596	604	616	627	633	648	647	631	604	589	597	601	614	
11	600	600	602	607	614	609	601	585	574	582	600	589	588	588	593	597	600	607	618	622	619	613	606	602	601	
12	606	604	601	601	605	605	600	594	589	584	578	579	581	585	601	606	605	604	613	616	616	614	614	609	600	
13*	604	602	604	605	609	609	606	598	593	585	582	583	582	587	596	611	618	614	618	618	622	619	615	610	604	
14	607	607	609	609	609	607	606	605	605	603	596	589	588	592	605	610	610	615	625	631	645	633	629	623	611	
15**	610	616	601	600	619	613	604	592	589	574	557	549	583	585	594	604	613	614	614	616	615	616	613	609	600	
16*	609	609	606	606	604	601	598	596	591	588	588	593	602	604	607	611	611	610	616	619	613	611	611	613	605	
17*	611	610	611	613	611	606	601	596	596	596	601	604	609	608	607	609	613	611	616	619	618	618	615	615	609	
18*	615	615	614	614	614	610	607	602	598	601	604	606	609	609	614	619	622	623	622	619	619	619	622	624	613	
19	618	615	610	611	611	607	601	596	596	593	591	591	596	604	609	615	614	624	624	623	618	614	615	615	609	
20*	615	611	605	606	607	605	601	589	576	567	568	573	583	593	604	613	613	613	617	619	616	615	615	618	602	
21	615	616	616	618	615	616	610	601	596	592	591	581	585	604	613	622	628	623	614	628	623	622	623	613	611	
22**	615	611	613	611	615	605	601	592	571	543	565	584	584	583	589	602	611	628	622	625	610	611	613	614	601	
23	611	614	620	615	615	613	603	592	584	576	567	584	582	596	604	617	613	620	619	616	611	611	609	607	604	
24	609	610	611	611	613	607	607	604	597	589	575	573	573	581	601	611	619	628	624	619	615	615	618	624	606	
25	610	610	613	614	616	614	613	604	597	585	579	575	575	584	600	615	624	628	632	633	619	619	629	623	609	
26**	613	615	613	638	624	627	605	598	591	596	580	565	574	573	594	584	607	620	632	632	624	624	616	619	607	
27**	627	609	607	607	605	607	596	592	579	582	571	569	573	597	607	618	629	643	631	634	619	611	602	624	606	
28**	610	598	613	615	601	597	573	569	585	587	575	567	570	584	584	601	610	621	628	627	615	611	623	606	599	
29	601	601	601	604	605	607	602	596	585	575	576	584	591	596	604	613	613	620	620	624	614	609	609	611	603	
30	598	600	600	600	598	598	593	588	586	576	575	575	578	583	588	596	614	623	623	619	613	611	609	609	598	
31	610	606	604	601	604	604	602	601	591	582	575	576	585	597	604	607	607	611	613	609	614	610	609	604	601	
Mean	611	609	609	610	611	608	602	596	590	585	583	584	589	596	604	610	616	622	622	622	618	614	614	614	606	
Mean*	611	609	608	609	609	606	603	596	591	587	589	590	597	600	606	613	616	614	618	619	618	616	616	616	607	
Mean**	615	610	609	614	613	610	596	589	583	576	570	567	577	584	594	602	614	625	625	627	617	615	613	614	603	

N.B.—June 2 and 3. Values are in brackets for the hours during which workmen with steel tools were known to have been in the vicinity of the recording instruments.

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	
August.	18000 γ + Tabular Quantities (in γ).																									Mean
1	604	605	606	606	602	602	600	591	576	574	576	582	591	594	601	604	604	609	616	614	613	613	611	604	600	
2	604	605	600	597	598	597	591	591	585	580	580	580	587	598	607	615	609	614	615	619	613	611	611	607	601	
3	607	609	611	609	610	610	602	592	583	580	580	596	604	614	620	620	628	618	641	623	627	613	620	593	609	
4	607	610	596	591	597	588	582	573	567	566	588	596	604	595	609	609	610	611	618	622	613	604	605	606	599	
5	604	597	597	600	602	588	583	580	577	565	564	565	575	584	593	596	596	600	601	609	610	609	605	600	592	
6	601	603	605	601	598	597	592	583	574	578	582	589	597	602	611	618	620	610	616	619	618	616	606	600	601	
7**	593	601	604	605	609	611	601	580	553	536	543	565	566	593	606	609	593	592	605	603	608	604	619	607	592	
8**	600	589	602	622	591	573	582	566	545	536	535	554	575	584	598	608	608	609	614	606	600	604	619	592	588	
9	598	601	593	583	596	593	593	587	578	549	540	558	562	571	585	596	606	608	613	606	606	604	614	606	589	
10	598	601	603	603	598	596	582	587	579	567	560	564	577	584	590	601	606	611	609	609	606	605	604	601	593	
11*	601	598	601	601	600	598	596	591	582	575	575	575	582	588	594	597	602	606	609	611	609	606	606	604	596	
12*	601	602	601	601	601	597	597	591	580	576	576	579	578	584	597	606	611	615	614	614	611	609	606	606	598	
13*	605	606	604	604	605	604	598	591	578	569	566	575	588	597	605	613	609	606	609	614	611	610	609	606	599	
14	605	604	604	605	610	609	607	604	597	588	584	589	602	614	620	618	611	615	619	614	616	610	605	604	606	
15*	609	605	604	604	604	602	600	594	588	589	585	592	600	598	601	604	605	611	620	618	618	613	610	607	603	
16	605	605	606	606	605	602	600	593	591	589	589	594	610	616	613	610	615	624	631	632	638	631	628	624	611	
17	622	620	616	611	613	606	602	596	591	585	582	—	—	—	—	—	—	—	607	611	609	605	611	601	—	
18**	609	609	613	614	597	606	596	583	579	574	574	578	596	591	597	597	588	607	616	606	611	602	601	606	598	
19	607	603	584	596	598	589	585	583	565	579	587	589	596	600	602	604	609	604	607	601	602	601	602	607	596	
20	611	598	598	597	596	594	587	580	573	567	565	573	578	588	591	598	602	604	604	607	602	598	600	598	592	
21	600	602	601	601	600	593	584	571	562	560	556	570	582	592	597	593	597	606	611	610	607	607	616	623	593	
22**	616	607	607	603	605	605	594	584	575	571	574	581	585	595	610	626	608	625	602	611	615	608	624	638	603	
23**	586	617	632	608	589	553	566	554	536	527	523	559	585	585	588	599	623	611	611	610	602	602	616	607	587	
24	608	601	601	605	594	592	589	577	562	550	550	555	570	583	595	602	602	603	610	614	603	599	595	599	590	
25	606	606	598	596	595	594	589	581	572	560	564	575	580	590	598	598	608	616	622	611	608	612	629	599	596	
26	598	607	615	608	603	598	594	587	582	575	569	569	581	577	586	593	603	611	603	602	600	607	621	599	595	
27	599	598	602	602	600	598	591	580	571	566	564	569	576	584	589	587	595	606	611	609	607	606	603	603	592	
28*	607	601	600	601	600	597	594	586	581	578	572	570	576	583	588	597	603	609	621	618	617	613	614	610	597	
29	608	607	603	603	600	595	590	582	585	582	577	582	587	593	596	605	610	616	616	621	617	618	614	618	601	
30	608	625	613	592	594	592	590	578	574	572	582	568	591	591	590	590	597	601	603	608	608	603	605	604	595	
31	603	602	601	602	601	600	592	583	573	565	561	566	578	584	588	592	611	611	618	602	602	604	604	609	594	
Mean	604	605	604	602	600	596	592	584	575	569	568	575	585	592	599	603	606	610	613	612	611	608	611	606	597	
Mean*	605	602	602	602	602	600	597	591	582	577	575	578	585	590	597	603	606	609	615	615	613	610	609	607	599	
Mean**	601	605	612	610	598	590	588	573	558	549	550	567	581	590	600	608	604	609	610	607	607	604	616	610	594	
September.	18000 γ + Tabular Quantities (in γ).																									Mean.
1**	613	604	604	602	608	598	590	577	568	573	582	596	604	604	604	602	604	614	660	635	617	573	588	600	601	
2	613	610	592	574	556	568	569	557	540	533	538	535	558	586	580	573	575	578	587	596	597	597	597	593	575	
3	596	596	592	587	586	587	591	577	566	557	558	577	577	601	608	614	598	600	601	608	614	605	608	606	592	
4	601	601	596	598	593	590	579	572	567	565	562	570	572	583	585	594	588	607	603	607	603	606	610	609	590	
5	609	609	601	602	602	592	583	575	567	567	570	581	587	593	597	593	598	598	603	614	616	603	599	599	594	
6	605	606	607	612	599	598	589	581	569	570	576	585	597	601	601	596	602	609	612	610	611	611	621	605	599	
7	603	607	612	596	602	605	592	579	569	562	587	578	574	584	596	603	584	579	589	592	590	592	594	587	589	
8	590	593	593	594	594	590	586	575	567	560	559	563	572	581	588	593	595	599	600	602	603	602	600	595	587	
9	594	593	594	594	595	593	589	585	580	572	570	568	579	588	584	588	590	595	604	590	593	589	602	589	588	
10*	588	596	599	591	591	591	586	581	579	572	573	580	586	589	593	593	593	599	603	604	603	602	604	603	592	
11*	602	602	599	599	597	593	589	581	575	575	572	572	584	592	594	598	600	602	603	604	606	606	604	606	594	
12*	604	603	603	603	602	598	594	588	581	572	567	568	581	588	597	602	599	599	606	608	611	608	606	608	596	
13	608	605	602	600	600	598	592	591	585	582	580	585	591	594	592	596	600	607	605	609	620	612	611	617	599	
14**	614	617	618	613	613	616	601	607	568	559	574	592	590	580	573	592	552	576	585	555	573	576	583	581	588	
15**	600	572	563	567	564	564	565	569	560	555	542	554	555	546	574	585	592	563	561	575	587	592	608	601	571	
16	574	577	583	586	587	577	569	570	573	566	534	542	575	573	579	582	582	583	587	592	592	603	599	614	579	
17	608	595	584	587	591	579	583	578	560	561	556	543	566	573	585	587	591	583	586	591	592	587	592	591	581	
18	591	591	592	592	588	587	584	582	573	565	562	560	580	589	588	583	582	586	590	594	607	596	593	596	585	
19	597	597	598	599	597	594	589	581	574	571	575	578	581	584	586	586	586	586	591	596	596	596	601	601	589	
20	597	599	599	597	596	592	588	587	572	557	562	573	583	586	591	590	594	598	603	601	597	597	599	600	590	
21**	600	600	622	624	618	600	520	519	561	566	552	550	529	540	547	555	570	575	577	575	565	572	572	568	570	
22	565	568	568	569	569	569	565	553	541	547	542	547	562	579	568	569	586	581	585	583	596	613	606	579	571	
23	579	582	583	584	585	585	580	570	557	548	551	553	562	582	589	592	591	589	594	593	591	588	585	591	579	
24**	588	609	613	597	593	610	553	527	518	536	534	520	538	551	567	560	584	574	556	567	571	573	545	561	564	
25	563	569	570	571	571	570	567	551	551	552	556	563	567	561	566	574	574	588	587	585	585	585	585	585	571	
26	585	585	584	585	584	582	580	579	579	574	571	573	571	575	580	584	587	587	596	594	591	592	594	606	584	
27	587	585	587	585	587	587	587	582	574	571	569	573	575	575	578	579	582	587	591	594	594	596	594	596	584	
28	592	592	592	593	593	591	592	592	587	583	579	578	587	592	589	588	584	592	591	597	594	596	593	596	590	
29*	598	600	600	592	592	589	587	582	574	573	574	579	583	580	582	582	588	592	596	599	597	594	597	597	589	
30*	598	599	597	597	596	594	591	583	575	567	569	578	586	587	586	591	590	588	589	588	587	589	591	592	588	
Mean	595	595	595	593	592	590	581	574	567	564	563	567	575	581	585	588	588	590	594	595	596	595	596	595	586	
Mean*	598	600	600	596	596	593	589	583	577	572	571	575	584	587	590	593	594	596	599	601	601	600	600	601	592	
Mean**	603	600	604	601	599	598	566	560	555	558	557	562	563	564	573	579	580	580	588	581	583	577	579	582	579	

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	
October.	18000 γ + Tabular Quantities (in γ).																									Mean.
1	590	589	591	601	611	599	595	584	575	573	(584)	(595)	605	605	605	604	602	606	606	611	619	609	605	601	599	
2*	596	594	593	593	588	594	587	582	578	573	565	565	573	581	590	591	591	591	593	592	593	592	594	593	587	
3*	594	594	593	593	592	589	587	581	575	573	570	572	580	587	595	596	597	597	598	602	603	599	599	593	590	
4	591	596	601	594	591	591	588	586	577	575	568	574	580	590	580	592	594	591	596	580	570	600	580	578	586	
5	579	583	586	585	585	587	585	575	573	549	538	557	550	551	562	581	586	590	593	596	595	591	596	615	579	
6	595	590	593	600	596	599	597	588	576	558	549	563	575	591	595	594	596	599	599	599	597	598	597	597	589	
7	597	597	597	597	598	601	600	587	584	571	569	570	576	582	587	590	592	595	597	599	598	599	599	599	591	
8	598	599	598	598	600	600	595	590	584	574	580	588	592	590	601	605	602	605	610	607	606	582	588	559	594	
9**	563	583	618	594	577	582	601	590	579	577	572	577	575	582	577	584	582	567	574	557	536	544	554	558	575	
10	577	580	586	590	589	586	592	584	576	571	568	570	558	570	575	573	577	574	589	582	583	583	591	593	580	
11	589	593	611	603	594	593	591	585	580	568	551	548	558	555	548	565	566	560	576	586	590	599	567	583	577	
12**	583	575	594	589	600	590	593	583	588	570	553	553	537	572	575	575	581	565	587	571	585	589	590	589	579	
13	589	589	593	592	591	575	589	575	562	557	549	561	573	579	580	583	584	583	565	575	583	598	598	596	580	
14	587	594	604	585	571	586	581	584	571	565	568	564	553	569	574	578	581	584	592	588	593	594	593	592	581	
15	596	593	594	592	590	589	589	582	559	556	556	561	559	564	569	577	578	579	576	587	600	620	595	595	581	
16	588	594	585	581	590	587	589	579	574	562	562	571	564	569	571	576	574	580	586	585	588	584	586	592	580	
17	592	594	593	592	592	595	596	593	584	570	556	564	565	566	576	579	581	587	590	586	588	589	592	592	584	
18*	589	589	589	591	590	590	587	581	571	561	556	560	568	577	581	583	585	589	592	592	593	594	595	597	583	
19	599	598	598	597	597	596	597	590	580	568	560	557	562	568	575	581	587	587	584	587	581	588	593	594	584	
20	596	590	603	598	595	596	600	588	571	564	558	569	563	567	578	577	580	584	597	593	595	596	590	595	585	
21**	594	598	597	600	604	605	600	587	574	569	551	541	543	560	560	569	565	561	549	532	550	555	552	540	569	
22	557	574	572	572	575	577	565	570	557	544	549	549	560	570	550	570	575	569	575	573	585	588	587	585	569	
23**	586	587	585	589	592	591	594	590	582	572	562	531	523	542	559	546	552	553	516	503	487	498	529	542	555	
24**	530	522	511	597	606	545	557	516	521	555	545	536	539	557	560	575	577	572	571	593	594	585	574	571	559	
25	567	564	566	568	573	576	581	585	575	563	552	546	551	561	566	570	571	577	581	581	582	593	580	585	571	
26	578	580	583	586	592	594	591	587	576	571	561	555	549	561	569	575	581	586	586	585	587	589	592	594	580	
27	585	583	583	584	586	589	591	591	586	579	569	570	576	583	590	589	595	603	587	593	595	593	590	573	586	
28	583	584	581	585	587	586	587	589	583	574	564	559	560	564	567	573	579	588	590	591	593	592	596	597	581	
29*	592	590	592	592	590	594	595	595	587	575	567	570	573	579	584	586	590	594	595	594	593	596	592	593	588	
30*	594	595	593	594	595	600	594	595	587	577	567	569	574	578	586	588	591	594	595	597	599	600	599	599	590	
31	599	599	599	597	597	598	599	602	594	587	585	585	596	588	595	597	585	569	562	586	592	597	591	590	591	
Mean	586	587	590	591	591	590	590	584	575	568	561	563	565	573	577	581	583	583	584	584	586	588	587	586	581	
Mean*	593	592	592	593	591	593	590	587	580	572	565	567	574	580	587	589	591	593	595	595	596	596	596	595	588	
Mean**	571	573	581	594	596	583	589	573	569	569	557	548	543	563	566	570	571	564	559	551	550	554	560	560	567	
November.	18000 γ + Tabular Quantities (in γ).																									Mean.
1**	595	613	636	600	566	575	580	583	575	561	549	554	567	564	567	577	581	587	588	585	603	593	587	588	582	
2**	580	582	584	587	588	592	592	587	577	570	567	570	576	581	589	597	595	579	579	571	574	581	574	577	581	
3	580	585	583	584	588	588	585	580	579	576	576	576	579	585	588	588	588	587	592	592	586	586	590	591	585	
4	592	591	592	592	591	590	590	590	587	582	579	578	579	581	585	586	590	593	596	596	597	597	594	602	590	
5*	586	591	618	594	596	596	595	593	588	581	577	578	582	587	590	592	594	599	602	605	605	604	604	604	594	
6	604	605	605	607	607	610	609	609	604	594	584	574	576	584	592	592	598	602	603	592	592	599	597	600	597	
7	598	596	597	600	601	603	604	603	596	583	572	567	569	574	583	591	593	600	602	604	602	602	599	597	593	
8	599	598	601	601	604	607	606	607	599	588	583	584	586	590	596	600	605	613	616	610	591	561	556	546	594	
9**	547	531	556	593	580	557	584	596	583	572	567	558	555	557	556	551	563	552	531	537	545	561	562	546	560	
10**	561	584	571	584	590	590	591	588	575	564	560	557	557	564	568	552	541	555	542	545	529	533	542	551	562	
11	575	593	571	590	587	581	566	542	567	564	528	533	538	561	568	570	574	577	580	584	586	585	582	595	572	
12	585	586	588	583	584	586	586	584.	578	570	559	567	576	581	581	—	—	—	—	—	—	—	593	595	—	
13	595	595	592	605	594	592	595	590	582	572	573	571	572	564	571	574	569	562	562	577	554	574	584	587	580	
14**	587	592	590	591	592	596	606	596	587	578	568	564	567	565	559	578	546	567	572	564	540	582	582	582	577	
15	582	583	582	583	584	585	583	577	572	567	567	567	570	577	575	571	575	568	564	577	581	590	599	583	578	
16	582	583	584	587	592	592	594	590	577	568	564	564	567	572	582	585	587	589	589	587	590	577	585	587	582	
17	590	590	592	591	592	593	592	589	581	564	559	554	554	564	578	585	584	590	592	592	590	589	589	592	583	
18	594	593	594	596	597	596	596	593	585	573	564	567	576	581	584	586	590	590	599	596	595	601	595	594	589	
19	594	599	591	591	593	596	595	589	581	573	565	563	570	578	582	590	593	596	596	600	591	595	595	595	588	
20	605	595	595	597	600	602	602	601	594	589	577	561	563	574	584	591	597	597	594	600	600	598	597	594	592	
21*	594	595	597	600	602	602	600	598	597	593	585	584	587	590	594	598	599	601	603	604	602	600	599	599	597	
22*	598	598	601	601	601	602	603	605	600	593	591	590	594	598	600	602	603	606	605	606	601	603	602	603	600	
23	601	602	601	603	606	604	605	605	595	582	574	572	572	582	587	592	593	599	603	603	603	605	601	598	595	
24	593	592	598	597	599	604	604	604	599	590	586	593	602	611	615	609	601	594	602	604	604	604	609	605	601	
25	610	611	611	618	623	626	629	628	622	610	594	592	595	595	589	592	600	603	603	600	600	603	602	602	607	
26	598	598	599	601	593	598	603	601	600	597	594	591	588	590	592	593	596	601	599	598	598	606	603	601	597	
27*	599	599	599	601	603	603	604	603	601	597	591	586	583	587	590	591	596	601	601	603	605	605	606	604	598	
28*	604	601	600	601	602	606	605	604	599	590	588	587	590	594	596	596	598	603	604	604	605	605	606	604	600	
29	604	604	604	602	601	602	601	598	592	586	582	583	584	594	599	602	601	598	599	604	606	606	606	609	599	
30	605	606	603	600	600	602	606	606	601	596	593	590	594	598	603	606	609	611	611	611	610	608	606	605	603	
Mean	591	593	595	596	595	596	597	596	589	581	574	573	576	581	581	587	588	590	591	591	589	599	592	591	589	
Mean*	596	597	603	599	601	602	601	601	597	591	586	585	587	591	594	596	598	602	603	604	604	603	603	603	598	
Mean**	574	580	587	591	583	582	590	590	579	569	562	561	564	566	568	571	565	568	562	560	558	570	569	569	572	

TABLE A II.—HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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
December.	18000 γ + Tabular Quantities (in γ).																							547	Mean.
1	605	603	603	603	603	603	601	598	595	589	584	582	585	595	600	605	611	615	616	615	613	606	609	613	602
2	616	608	608	608	608	606	605	607	607	602	593	587	595	604	607	611	611	614	614	613	612	611	607	602	607
3*	603	605	604	606	606	607	608	607	606	601	600	598	603	608	608	607	609	610	612	606	604	603	601	602	605
4	602	602	602	604	609	612	613	614	611	603	602	603	604	601	603	606	602	603	601	597	593	591	597	600	603
5	601	601	606	606	604	604	607	607	602	597	594	592	594	594	599	601	604	603	602	592	573	581	585	584	597
6**	599	607	603	602	609	607	604	592	587	576	563	545	555	542	544	555	554	581	578	575	578	581	586	583	579
7**	581	581	584	584	589	594	581	571	571	568	571	564	551	554	559	570	584	587	587	584	589	589	589	588	578
8	588	588	588	590	591	595	598	603	596	578	567	558	558	575	583	589	592	591	590	594	595	595	597	595	587
9	593	589	596	596	595	598	596	599	598	590	583	586	575	578	583	585	585	587	588	593	595	598	598	597	591
10	596	594	593	595	595	596	596	606	600	589	583	581	586	587	589	593	572	576	581	578	584	591	601	586	590
11	588	588	591	593	595	599	601	598	596	585	575	576	580	583	590	593	596	599	600	602	599	589	592	594	592
12	596	596	599	600	601	603	601	603	602	598	590	588	585	582	584	587	594	596	593	594	596	599	602	602	595
13	603	595	595	595	597	596	596	598	594	589	587	585	588	585	576	571	584	590	590	592	588	590	589	593	590
14*	605	597	597	600	600	601	602	600	600	596	593	589	585	582	579	579	584	590	595	590	590	591	602	600	594
15	597	597	598	597	598	601	603	603	597	587	579	577	570	569	566	565	559	553	549	553	553	549	553	561	576
16	564	585	587	592	595	603	598	590	585	581	573	571	571	573	571	574	584	589	586	586	590	591	591	591	584
17*	594	594	595	598	600	600	597	595	595	595	589	581	582	585	586	590	597	600	597	601	601	602	601	600	595
18**	600	602	601	599	599	599	601	600	601	597	594	589	590	591	589	587	569	558	566	585	578	586	586	583	590
19	581	586	587	589	588	588	589	589	589	586	580	576	576	581	584	582	596	599	599	599	600	589	593	593	588
20	604	585	583	587	590	593	582	589	589	589	585	582	584	583	584	588	590	593	595	596	596	595	594	592	590
21*	590	587	588	589	590	590	588	585	584	584	584	584	582	585	587	588	593	593	593	593	596	595	592	593	589
22	590	590	588	590	590	591	591	592	594	591	588	586	582	585	590	595	595	600	601	598	600	599	599	596	593
23	598	596	593	592	592	595	598	598	595	588	597	580	587	588	592	595	591	596	598	604	604	595	595	599	594
24	595	591	593	591	591	593	596	598	597	590	582	580	577	582	577	588	590	592	598	599	600	600	596	591	591
25	593	594	593	595	595	598	600	600	598	598	596	592	593	592	593	594	599	596	599	602	598	598	598	597	596
26*	597	596	595	595	597	598	598	597	594	591	589	587	590	594	593	594	597	599	601	600	603	603	601	602	596
27**	599	598	598	598	600	602	601	596	598	598	596	591	590	591	588	587	567	551	551	527	539	573	547	560	581
28**	563	564	568	574	581	588	581	558	562	487	504	538	545	546	559	550	566	571	565	565	560	561	560	564	558
29	569	564	566	572	571	576	574	572	573	572	566	568	569	573	577	572	568	579	579	581	581	576	568	568	572
30	569	579	579	579	582	584	585	584	582	569	563	571	576	580	587	590	591	586	591	592	596	595	593	589	583
31	591	589	589	589	590	594	594	596	590	590	590	596	594	593	594	591	581	584	582	576	574	576	589	587	588
Mean	593	592	593	594	595	597	596	595	593	586	581	580	581	583	585	587	588	590	590	590	590	590	591	590	590
Mean*	598	596	596	598	599	599	599	597	596	593	591	588	588	591	591	592	596	598	600	598	599	599	599	599	596
Mean**	588	590	591	591	596	598	594	583	584	565	566	565	566	565	568	570	568	570	569	567	569	578	574	578	577

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER.

	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.
February.	42000 γ + Tabular Quantities (in γ).																									
1	930	929	930	929	929	930	929	929	928	927	925	922	924	925	929	932	933	932	933	933	934	935	935	932	930	
2	930	930	929	929	929	930	931	931	932	931	929	928	929	931	932	935	933	(931)	(932)	(932)	(933)	933	931	928	931	
3*	927	927	927	926	926	927	927	927	927	925	925	924	922	929	927	931	930	930	930	930	929	929	930	929	928	
4*	931	930	930	929	929	930	930	930	931	929	924	922	925	930	932	933	932	933	933	933	932	932	932	932	930	
5	931	930	930	930	929	929	929	929	929	925	923	926	926	929	930	934	933	932	932	932	932	933	933	932	930	
6	931	929	929	928	928	928	928	928	928	923	918	923	925	929	928	933	934	934	936	935	935	933	933	933	930	
7	932	931	930	930	930	930	929	928	928	927	925	923	924	924	930	936	935	932	930	930	931	931	929	929	929	
8**	928	928	928	928	928	927	925	924	923	923	917	916	917	919	923	928	928	928	928	931	931	933	928	921	925	
9**	913	913	904	901	903	909	905	905	907	911	913	915	918	923	928	933	935	935	934	935	935	931	930	930	919	
10	930	928	928	929	929	928	928	928	929	926	924	919	921	926	932	937	937	937	936	933	932	932	932	932	930	
11	929	930	930	931	931	931	930	930	931	930	927	927	926	927	936	939	939	937	936	935	937	937	937	936	932	
12	935	933	933	933	933	933	932	930	929	926	923	921	923	930	937	942	943	945	943	939	940	937	936	934	934	
13	934	933	933	934	933	933	933	932	931	927	926	924	924	930	935	938	939	939	938	938	938	935	934	933	933	
14	934	933	933	933	934	934	933	931	929	924	920	921	923	929	933	937	940	941	941	940	938	936	935	933	933	
15	933	932	932	932	932	933	932	932	932	931	928	927	927	924	926	931	935	935	934	934	934	932	932	930	931	
16	929	928	928	928	928	928	928	928	928	925	920	918	921	926	929	931	935	934	932	932	932	934	931	932	929	
17	932	928	926	928	928	928	928	927	924	922	919	916	919	925	930	934	936	937	939	941	940	939	936	931	930	
18	927	926	926	926	926	926	926	925	924	924	923	919	918	922	925	929	930	930	930	929	930	930	930	931	926	
19	931	929	929	928	928	927	926	926	929	928	925	922	923	925	931	936	940	941	941	944	945	945	942	938	932	
20	935	931	925	921	918	914	911	913	914	915	918	919	921	924	929	932	932	931	929	929	928	928	928	929	924	
21*	930	930	928	928	928	927	926	927	929	928	923	922	925	930	936	936	934	931	929	928	928	928	928	928	928	
22*	930	929	928	928	927	926	925	925	927	928	928	924	927	930	931	931	930	929	929	928	927	927	928	928	928	
23*	929	930	930	931	931	930	930	930	930	930	927	928	929	933	936	936	936	937	936	934	935	936	936	936	932	
24**	936	936	936	936	937	936	935	934	933	931	930	929	—	—	—	—	—	—	—	—	—	—	—	—	—	
25**	—	—	—	—	—	—	—	—	—	—	—	—	—	943	946	950	950	949	947	946	946	945	944	943	—	
26	944	945	945	946	946	946	946	947	947	945	944	944	944	943	945	948	948	948	948	947	946	946	946	946	946	
27	946	946	947	947	948	948	948	948	948	944	940	938	940	942	945	950	952	951	951	951	950	950	950	950	947	
28**	950	949	949	949	948	948	949	950	949	950	945	941	939	943	947	951	954	954	956	957	956	957	957	957	950	
Mean	932	931	930	930	930	930	930	929	930	928	926	924	925	929	933	936	937	937	936	936	936	936	935	934	931	
Mean*	929	929	929	928	928	928	928	928	929	928	925	924	926	930	932	933	932	932	931	931	930	930	931	930	929	
Mean**	930	930	927	926	926	928	926	926	926	928	925	924	925	928	933	937	939	939	939	941	941	940	938	936	931	
March.	42000 γ + Tabular Quantities (in γ).																									Mean
1**	956	955	955	954	955	948	946	945	941	939	937	939	944	949	951	955	957	957	957	957	957	960	960	956	951	
2	956	955	955	955	955	955	955	955	953	952	950	946	947	950	951	956	957	957	957	957	957	956	956	956	954	
3*	955	954	955	955	953	955	956	957	958	955	952	950	951	953	955	958	958	956	957	957	957	956	955	955	955	
4	955	955	954	953	954	954	954	955	954	950	946	941	942	945	950	955	953	950	951	952	952	948	948	947	951	
5**	945	947	947	939	941	941	941	942	944	945	939	936	936	941	946	949	952	953	955	955	954	952	950	948	946	
6	946	945	944	939	936	938	939	943	945	945	941	937	940	945	949	949	949	946	945	946	945	945	945	946	944	
7	942	942	941	942	941	943	942	942	940	937	935	—	—	929	935	937	936	933	932	932	931	931	931	931	—	
8*	931	930	930	930	929	928	926	926	925	922	918	918	920	924	930	934	934	931	930	930	930	929	930	930	928	
9**	930	929	929	928	926	926	923	924	918	913	913	911	913	917	923	932	935	941	942	938	935	935	927	923	926	
10**	927	928	921	925	927	928	928	928	925	919	914	914	919	924	929	937	943	939	933	931	931	931	926	925	927	
11	925	926	926	926	922	923	925	926	924	922	918	913	916	919	923	930	933	930	929	929	928	927	928	928	925	
12	923	923	923	923	923	922	921	922	921	917	910	909	912	915	923	929	931	927	926	926	924	923	923	923	922	
13	923	923	923	923	923	923	923	923	922	918	914	910	912	917	923	926	926	925	925	925	925	924	925	923	922	
14	922	921	922	922	923	923	923	923	919	914	911	910	914	921	926	928	928	927	925	924	924	923	921	921	921	
15**	921	921	921	921	921	921	922	923	919	911	905	902	910	916	925	933	933	933	933	933	935	928	925	924	922	
16	925	925	925	923	922	922	924	926	921	918	915	913	916	920	923	929	930	928	927	926	925	925	924	924	923	
17	924	924	922	921	923	925	927	928	924	916	908	907	910	915	921	926	928	928	929	929	929	928	925	922	922	
18*	923	923	923	924	926	926	927	927	925	920	916	913	915	918	922	927	928	929	928	927	927	927	927	926	924	
19	926	926	925	925	925	926	927	931	926	915	911	909	910	911	917	923	926	928	930	929	929	928	927	927	923	
20	928	927	923	923	924	923	923	925	922	916	908	903	903	910	919	925	928	931	928	928	929	932	933	933	923	
21	932	931	930	929	928	928	928	928	924	919	916	914	916	919	922	927	929	930	929	929	929	929	929	929	926	
22	929	—	—	—	—	—	—	—	—	—	—	902	910	918	924	929	931	931	931	929	928	928	927	928	—	
23	930	930	928	927	927	925	923	924	923	920	915	916	925	930	934	938	938	936	932	931	930	928	927	927	928	
24	929	929	929	928	928	927	927	927	924	916	909	906	911	919	927	932	930	928	927	927	926	926	927	928	924	
25	930	930	929	928	926	925	926	929	926	917	909	908	912	919	926	(928)	(931)	933	933	931	931	931	931	931	926	
26	932	932	931	928	928	928	930	930	926	918	905	904	910	915	924	930	931	931	931	931	930	930	930	930	926	
27	931	932	932	930	930	931	932	932	927	919	915	913	916	924	932	943	944	948	947	943	942	940	918	916	932	
28*	936	936	937	938	939	938	939	938	933	926	921	920	922	928	934	939	941	942	942	942	940	940	940	939	935	
29	939	940	940	940	940	941	941	941	936	928	921	917	916	920	927	939	949	956	957	956	956	955	952	949	940	
30	946	946	945	947	947	946	946	947	942	935	930	921	921	927	935	943	948	950	950	952	949	949	949	948	942	
31*	947	947	948	948	947	947	950	949	944	937	934	932	931	936	943	948	953	954	954	954	953	953	952	952	946	
Mean	933	933	932	931	931	931	931	932	929	924	919	915	918	924	929	935	937	937	936	936	935	934	933	933	931	
Mean*	938	938	939	939	939	939	940	939	937	932	928	927	928	932	937	941	943	942	942	942	941	941	941	940	938	
Mean**	936	936	935	933	934	933	932	932	929	925	920	920	924	929	935	941	944	945	944	943	942	941	938	935	934	

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	Mean.
April.	42000 γ + Tabular Quantities (in γ).																									
1	947	946	946	945	945	945	947	947	943	934	933	929	927	925	925	930	934	934	934	936	938	936	933	931	937	
2	929	928	927	926	926	925	926	925	922	916	908	904	903	904	912	921	929	931	930	929	929	928	926	926	922	
3**	926	921	916	915	914	914	918	918	917	915	910	905	904	914	923	933	946	950	954	952	943	937	933	931	925	
4*	931	931	930	929	929	930	931	929	923	917	913	906	906	912	919	923	924	924	924	926	927	926	926	926	923	
5	927	925	923	923	920	920	922	924	921	915	914	909	906	914	923	930	935	935	934	933	932	932	929	927	924	
6	926	927	927	926	926	926	929	930	925	920	916	907	908	918	928	933	936	937	940	935	933	931	923	924	926	
7	926	923	924	922	918	917	919	918	915	912	911	906	909	916	925	930	933	932	931	930	927	928	926	921	919	
8	923	923	916	921	924	926	930	930	927	920	916	914	915	920	927	933	934	935	933	933	933	931	930	931	926	
9**	930	926	923	923	926	924	927	927	924	917	912	909	914	918	927	932	931	931	934	933	932	923	913	910	924	
10**	909	903	894	900	905	915	920	926	925	921	914	904	901	912	925	933	937	936	935	935	933	929	927	916	919	
11	919	923	923	919	919	925	930	930	925	918	913	910	913	918	924	931	935	938	939	940	942	934	930	927	926	
12	927	929	925	921	924	927	929	929	927	922	912	902	910	921	932	940	944	947	946	945	940	937	934	932	929	
13	932	929	931	932	932	934	935	935	929	922	920	916	917	924	933	939	940	940	940	939	937	934	933	933	932	
14	934	933	933	933	935	938	941	941	935	924	917	917	922	927	935	940	941	939	936	936	936	936	936	935	933	
15**	935	934	935	934	935	936	938	937	930	921	911	904	904	914	925	932	938	946	954	953	943	941	943	937	933	
16	935	929	933	936	937	939	941	938	932	921	920	919	924	928	936	939	941	941	941	941	941	941	941	940	935	
17*	941	939	939	939	938	937	941	941	939	929	920	916	916	923	933	938	939	940	942	942	941	941	940	939	936	
18	938	939	938	936	935	936	940	942	937	929	923	914	908	919	931	938	941	942	944	944	945	940	921	940	935	
19*	940	940	939	939	938	937	938	936	930	923	918	914	916	925	932	934	936	939	939	938	938	937	937	937	933	
20**	935	932	931	929	928	936	932	932	928	921	915	911	911	918	930	939	950	956	955	953	947	943	940	940	934	
21	941	938	936	933	935	937	938	939	937	930	923	915	916	923	934	938	942	944	945	944	943	940	938	938	935	
22	939	939	939	939	939	939	938	936	932	922	913	909	910	922	936	944	948	948	944	943	943	939	939	938	935	
23	939	939	939	939	939	940	938	936	930	919	907	904	913	926	935	938	941	942	940	939	938	938	937	937	933	
24*	938	939	939	940	940	941	940	937	930	920	914	912	918	926	931	938	940	940	939	938	938	937	937	937	934	
25*	938	937	938	939	940	939	938	936	930	920	916	914	914	919	924	933	936	936	934	934	934	933	934	934	931	
26	935	936	937	937	937	937	936	935	930	921	909	909	911	920	932	939	941	943	942	939	939	938	938	937	932	
27	937	937	938	939	940	939	937	935	932	927	916	906	908	917	926	938	945	955	959	953	946	944	941	940	936	
28	940	940	940	940	942	942	942	939	933	924	918	918	921	925	934	940	944	947	947	945	942	941	941	940	936	
29	941	938	935	931	929	926	925	923	922	919	919	(919)	918	926	934	938	943	947	948	947	945	945	943	939	933	
30	941	942	942	943	943	943	944	944	941	935	930	924	921	930	942	944	947	951	951	950	949	948	946	943	941	
Mean	933	932	931	931	931	932	932	933	931	922	916	911	913	920	929	935	939	941	941	940	938	936	934	933	931	
Mean*	938	937	937	937	937	937	938	936	930	922	916	912	914	921	928	933	935	936	936	936	936	935	935	935	932	
Mean**	927	923	920	920	922	924	927	928	925	919	912	907	907	915	926	934	940	944	946	945	940	935	931	927	927	
May.	42000 γ + Tabular Quantities (in γ).																									Mean.
1	933	933	934	934	935	935	935	933	930	926	921	918	917	921	927	931	935	939	939	938	937	935	935	934	931	
2*	933	933	933	933	934	934	934	932	929	921	913	911	915	921	923	925	928	932	934	934	933	932	932	931	928	
3	932	932	932	932	932	932	931	929	926	922	913	907	912	919	922	924	927	930	931	932	932	932	932	931	927	
4**	929	926	929	926	924	926	925	921	911	909	909	916	926	936	953	968	969	969	968	960	952	943	926	930	935	
5**	930	925	922	928	929	931	931	928	930	925	921	919	923	934	938	943	945	946	945	945	943	941	938	933	933	
6	934	933	936	934	935	936	938	935	932	928	922	921	924	929	935	936	939	942	944	946	944	942	940	940	935	
7	941	940	940	940	939	939	939	937	933	923	920	919	919	927	933	939	943	945	945	943	941	941	940	936	936	
8	927	926	926	932	936	938	938	936	931	920	912	912	914	926	937	941	940	944	946	946	943	941	941	940	933	
9	940	937	934	936	938	940	940	937	935	931	928	921	921	929	938	947	954	958	963	959	950	945	943	938	940	
10	941	943	944	945	946	944	942	942	941	936	928	927	930	936	944	948	948	950	950	948	946	944	942	942	942	
11	943	943	944	944	945	946	944	938	933	924	921	922	926	934	938	941	946	951	951	949	947	945	944	943	940	
12*	943	944	945	946	947	947	947	945	940	932	925	918	920	932	942	947	952	953	952	950	948	946	945	944	942	
13	945	945	945	946	947	947	948	946	943	936	925	915	918	927	935	939	942	948	951	951	949	948	947	945	941	
14*	946	945	945	946	949	948	948	944	936	926	924	922	924	935	940	946	948	948	948	948	948	947	946	945	942	
15*	945	945	945	946	947	944	943	941	935	931	923	916	915	925	937	945	949	950	951	950	949	948	947	946	941	
16*	946	946	946	946	946	946	946	944	939	933	923	917	920	929	937	944	948	950	950	950	950	949	948	948	942	
17	947	947	946	946	947	946	944	945	943	936	931	922	919	925	932	937	943	946	948	947	947	947	948	947	941	
18	947	947	947	943	945	944	942	940	939	941	935	931	928	931	941	948	955	959	958	955	955	954	951	948	945	
19	944	944	934	939	941	940	940	939	941	940	939	940	945	951	(954)	960	963	965	965	961	957	955	954	953	949	
20	952	952	951	951	950	947	944	938	935	936	937	934	937	950	952	954	955	954	955	955	953	953	952	951	948	
21	951	951	951	951	952	953	953	950	946	938	930	928	932	940	944	950	957	960	960	956	953	952	951	951	948	
22	952	952	952	950	952	953	950	947	947	943	939	937	940	949	957	959	961	962	960	957	954	953	952	951	951	
23	952	952	952	952	953	953	951	947	944	934	927	920	923	931	937	944	953	957	959	956	954	953	951	951	946	
24	952	951	952	953	954	953	952	951	949	942	930	925	929	935	941	944	953	956	954	953	952	950	951	945	947	
25	947	948	949	950	953	948	947	945	941	938	934	934	942	947	949	952	955	958	959	956	952	950	950	950	948	
26	948	949	950	952	953	952	949	945	943	936	928	930	930	931	938	948	957	964	963	962	958	954	950	948	947	
27	948	948	948	948	950	948	945	941	937	934	932	925	929	938	945	953	960	966	971	970	965	958	953	944	948	
28**	929	922	926	913	914	927	938	942	943	943	940	934	933	943	—	—	—	970	970	970	965	963	960	957	—	
29	954	955	957	958	958	960	963	961	956	950	944	938	938	944	952	958	963	965	964	961	958	957	956	954	955	
30**	948	938	940	938	945	950	954	946	946	936	933	930	935	940	952	959	968	976	989	978	970	963	958	944	952	
31**	926	928	936	943	942	940	940	943	940	937	940	937	938	948	955	960	970	976	974	970	963	956	954	954	949	
Mean	942	941	942	942	943	943	943	941	938	932	927	923	927	934	941	946	951	954	955	953	951	948	946	944	942	
Mean*	943	943	943	943	945	944	944	941	936	929	922	917	919	928	936	941	945	947	947	946	946	944	944	943	939	
Mean**	933	929	932	934	935	937	938	935	932	927	926	926	931	940	950	958	963	967	969	963	946	951	944	940	942	

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	Mean.
June.	42000 γ + Tabular Quantities (in γ).																									
1	950	943	946	951	952	953	953	951	946	943	934	934	938	944	952	963	971	980	976	967	963	959	956	952	954	
2	952	952	952	952	954	955	955	955	952	948	(938)	(936)	(942)	(947)	(955)	(962)	(966)	(968)	(970)	964	962	959	955	944	(954)	
3	937	932	937	940	946	949	945	943	—	—	—	—	—	—	—	(958)	(966)	(971)	(980)	(973)	965	960	960	960	—	
4	953	953	956	958	959	962	960	960	957	955	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5	—	—	—	—	—	—	—	—	—	—	936	932	941	952	960	963	964	956	952	951	949	947	947	948	—	
6	950	951	952	951	952	950	948	944	940	934	931	932	938	943	955	969	972	972	969	965	962	959	957	954	952	
7	954	954	955	956	956	956	957	958	957	949	938	934	940	946	953	964	973	974	971	965	963	961	961	961	956	
8*	962	963	964	965	967	970	970	967	964	953	946	941	938	944	955	960	964	969	967	961	959	956	952	950	958	
9*	951	953	955	957	959	960	960	959	950	941	937	938	939	948	956	963	965	966	964	962	960	957	956	955	955	
10	956	956	956	958	960	958	958	955	953	943	941	936	934	938	950	956	961	968	969	969	965	959	956	955	955	
11	955	953	953	955	957	960	958	953	949	945	941	934	939	942	955	961	967	971	975	974	970	966	962	952	956	
12	950	949	951	952	954	954	952	951	946	944	947	948	949	955	962	965	973	978	978	975	973	970	968	967	959	
13**	963	959	961	966	968	972	965	962	951	949	948	950	959	971	975	986	990	993	993	985	982	981	973	956	969	
14	964	966	968	971	974	973	965	962	956	961	964	965	966	966	970	977	983	983	984	982	981	979	978	977	971	
15	975	974	973	972	970	967	967	969	968	959	955	950	956	962	968	972	976	981	981	980	981	981	979	971	970	
16	972	973	973	974	976	976	975	972	968	966	961	959	959	965	972	977	989	988	987	987	985	983	978	970	974	
17	961	961	965	961	952	953	954	959	963	962	962	957	961	966	971	977	981	985	984	981	980	977	976	977	968	
18	978	977	973	967	972	974	971	973	972	965	962	966	972	971	974	973	979	982	982	980	980	977	974	974	974	
19*	973	970	970	973	976	976	973	974	971	967	962	955	957	960	963	967	975	979	980	979	978	974	973	971	971	
20*	971	972	973	974	976	975	973	972	973	971	968	947	957	968	974	976	979	980	977	973	972	971	971	971	971	
21*	971	971	971	972	973	973	972	969	966	960	950	944	948	954	961	965	968	971	971	969	967	965	965	965	965	
22	965	965	965	966	969	970	965	959	954	948	941	(936)	(940)	(946)	(958)	963	965	963	963	965	964	963	962	960	(959)	
23**	960	961	961	963	963	949	943	942	938	934	935	939	944	948	959	968	971	974	974	973	969	965	964	963	957	
24**	964	963	959	957	953	954	954	954	953	956	957	952	948	953	959	969	980	989	998	992	979	965	952	921	962	
25**	908	940	942	942	941	954	957	959	957	956	951	946	948	953	963	974	985	984	982	975	969	966	964	962	957	
26	962	963	964	966	966	968	970	968	958	954	953	949	952	957	960	964	969	975	979	978	972	968	965	963	964	
27	962	960	960	961	966	966	965	964	958	953	947	939	947	950	957	971	974	978	982	980	974	967	961	949	962	
28**	949	932	924	943	952	952	945	948	948	946	946	946	941	952	957	962	975	980	978	974	968	964	961	958	954	
29	951	940	943	948	953	957	953	948	946	947	941	937	944	950	949	957	957	963	966	966	963	960	959	952	952	
30	943	941	945	949	953	953	949	951	955	955	945	943	942	940	945	955	966	968	970	964	961	957	954	953	952	
Mean	957	957	957	959	961	962	960	959	956	952	947	944	948	953	960	967	973	975	976	973	975	966	963	959	961	
Mean*	966	966	967	968	970	971	970	968	965	958	953	945	948	955	962	965	970	973	972	969	968	965	964	963	964	
Mean**	949	951	949	954	955	956	953	953	949	948	947	947	948	955	963	972	980	984	985	980	973	968	963	952	960	
July.	42000 γ + Tabular Quantities (in γ).																									Mean.
1	955	954	952	952	954	954	953	951	945	942	936	933	937	946	952	960	967	971	970	969	964	961	957	952	954	
2	948	950	951	954	955	954	955	957	954	947	939	935	933	936	942	953	957	961	960	960	960	959	956	948	952	
3	945	945	944	944	949	950	950	950	948	946	944	943	946	951	954	955	958	962	961	956	954	954	953	952	951	
4	952	952	951	952	954	956	955	953	949	939	932	931	937	943	951	956	958	961	961	956	954	951	951	952	950	
5	949	947	948	950	952	952	946	943	940	939	936	932	931	932	938	944	953	957	963	962	958	954	953	952	947	
6	950	948	949	951	952	952	951	946	946	940	941	943	948	950	952	957	962	964	959	957	951	949	949	949	951	
7	947	947	948	950	951	951	949	946	946	939	934	929	927	930	936	946	951	954	954	949	947	946	947	947	945	
8	945	944	944	947	948	946	945	945	939	929	923	919	918	920	927	935	945	951	949	947	945	941	938	938	939	
9	940	940	941	942	945	945	943	941	936	930	923	912	914	919	927	938	946	952	953	954	963	960	960	960	941	
10	961	960	961	963	969	966	961	964	960	953	950	946	946	950	962	970	977	984	995	1002	996	990	982	971	968	
11	966	970	970	971	967	968	972	971	968	966	963	959	957	958	962	970	977	983	987	990	990	988	985	982	973	
12	978	977	979	983	985	987	988	992	989	983	980	978	972	976	983	988	994	997	995	994	991	989	988	986	986	
13*	984	983	985	986	987	987	987	985	976	972	968	959	967	974	980	981	982	987	992	988	987	986	984	984	981	
14	982	981	982	984	986	985	985	985	980	970	967	966	970	970	972	977	983	987	987	987	987	984	984	981	980	
15**	968	966	971	969	959	963	967	967	966	963	960	965	976	983	990	984	986	993	992	990	987	985	985	985	976	
16*	984	984	983	984	985	984	982	982	976	969	959	960	962	969	968	975	983	983	986	984	984	982	982	982	978	
17*	982	983	983	982	983	982	980	980	977	974	970	967	966	970	974	974	982	985	982	982	980	979	978	978	978	
18*	977	977	978	979	980	978	975	974	971	966	962	957	953	960	967	974	977	980	980	978	977	976	976	977	973	
19	972	972	973	975	979	978	973	968	966	964	959	956	958	962	968	972	974	982	988	985	979	977	976	974	972	
20*	974	973	973	974	977	977	977	975	974	970	963	952	955	959	966	972	974	975	974	974	973	972	972	972	971	
21	971	972	972	971	973	974	972	968	963	959	956	952	958	964	977	982	987	998	1000	995	985	980	978	975	974	
22**	975	976	977	975	971	975	976	979	971	965	959	964	965	972	977	982	986	990	993	988	982	978	976	976	976	
23	975	976	975	971	976	976	973	972	967	956	947	948	954	966	973	978	988	994	988	982	979	976	974	972	972	
24	972	973	974	974	977	978	977	974	974	971	968	962	958	959	967	975	981	989	989	984	979	975	972	966	974	
25	965	968	971	973	975	974	975	977	972	963	963	959	960	964	970	977	982	985	986	982	981	978	974	967	973	
26**	967	968	968	955	961	961	961	960	968	963	954	952	959	966	976	981	986	985	982	979	976	974	971	968	968	
27**	958	958	962	960	956	957	963	963	963	958	956	951	955	963	970	977	978	988	985	981	972	967	966	951	965	
28**	948	955	953	937	945	959	961	958	956	952	943	932	940	948	954	964	969	973	976	977	970	967	960	958	956	
29	958	959	960	961	962	961	963	963	958	955	947	945	944	942	946	957	962	969	971	969	966	962	962	956	958	
30	954	956	957	957	960	957	961	964	962	957	946	941	942	945	952	963	968	972	973	967	963	961	960	959	958	
31	958	957	956	957	959	958	960	958	961	961	952	945	943	948	951	960	964	964	964	961	960	958	958	957	957	
Mean	963	964	964	964	965	966	966	965	962	957	952	948	950	955	961	967	972	977	977	975	972	970	968	965	964	
Mean*	980	980	980	981	982	982	980	979	975	970	964	959	961	966	971	975	980	982	983	981	980	979	978	979	976	
Mean**	965	965	966	959	958	963	965	965	965	960	954	953	959	966	973	978	981	986	986	983	977	974	972	968	968	

N.B.—June 2 and 3. Values are in brackets for the hours during which workmen with steel tools were known to have been in the vincin ty of the recording instruments.

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	
August.	42000 γ + Tabular Quantities (in γ).																									Mean.
1	963	962	962	961	964	963	962	961	959	954	952	948	951	955	960	963	969	976	977	972	968	966	962	962	962	
2	960	959	960	961	963	963	962	958	953	953	948	945	942	948	956	961	966	969	966	963	962	961	961	960	958	
3	959	959	959	959	961	959	958	956	947	944	947	944	942	945	953	962	966	963	963	962	961	959	944	952	955	
4	950	949	949	958	962	959	957	955	945	938	932	929	935	940	954	966	970	968	967	966	962	961	958	955	954	
5	950	955	956	958	961	961	960	955	951	944	937	931	932	939	953	961	964	968	970	964	959	958	955	955	954	
6	956	956	955	957	963	962	961	960	954	945	942	934	936	932	938	948	955	961	961	956	953	951	949	950	951	
7**	949	951	954	956	960	958	955	955	948	942	944	945	945	953	967	984	988	982	977	973	969	962	953	944	959	
8**	942	944	943	933	930	932	940	946	947	945	945	946	944	952	964	975	974	977	974	967	963	961	951	947	952	
9	945	944	943	944	948	953	957	956	952	947	949	949	947	949	955	964	966	968	970	969	965	966	959	955	955	
10	955	951	947	948	953	953	956	959	956	955	946	948	946	947	958	966	968	967	966	964	962	959	957	955	956	
11*	955	955	955	956	958	959	962	961	960	957	952	944	938	940	949	958	961	962	963	961	960	958	958	957	956	
12*	957	955	955	957	959	959	959	961	956	954	951	944	940	943	954	961	963	962	958	957	956	956	955	955	955	
13*	955	954	954	955	957	957	957	959	956	956	945	940	941	949	956	957	957	958	959	958	956	955	956	955	954	
14	954	954	954	955	956	956	956	955	951	945	944	938	941	942	947	955	962	962	962	958	958	957	957	958	953	
15*	956	954	955	956	957	956	954	952	951	948	942	940	946	951	959	960	959	958	953	952	956	956	955	955	953	
16	956	955	956	956	956	955	957	956	955	948	941	938	941	940	945	953	957	955	953	951	950	948	950	951	951	
17	951	952	952	952	954	952	954	955	952	946	943	939	942	946	954	960	968	974	966	961	959	958	959	956	954	
18**	955	955	952	953	954	952	954	953	952	949	944	941	945	950	963	976	975	973	966	964	962	951	954	947	956	
19	943	938	940	948	953	955	957	956	952	951	946	946	949	953	954	958	957	955	956	955	955	954	954	955	952	
20	950	948	951	952	955	957	957	956	955	944	935	931	930	939	952	960	963	961	958	958	956	955	954	953	951	
21	955	955	955	956	958	958	958	958	955	945	938	939	939	950	955	959	960	958	957	956	953	953	953	950	953	
22**	944	947	948	950	952	955	955	953	947	941	939	933	939	945	955	961	961	968	971	972	964	958	956	922	951	
23**	923	916	897	880	895	912	922	931	938	935	938	953	953	961	970	970	969	966	960	956	954	953	953	951	940	
24	952	953	954	954	956	958	960	959	955	949	939	933	937	947	960	966	966	965	960	959	956	955	954	954	955	
25	949	950	949	952	956	959	961	958	953	946	942	940	939	945	954	956	958	959	959	957	957	956	950	946	952	
26	950	950	946	945	948	951	951	950	944	930	923	923	926	933	945	952	956	959	960	960	959	957	950	947	946	
27	949	949	950	951	953	955	957	958	955	946	933	928	930	939	950	958	961	961	959	958	954	954	954	953	951	
28*	951	950	950	951	953	954	956	957	950	940	934	930	929	937	947	951	949	950	954	954	953	952	952	952	948	
29	952	951	951	951	953	953	954	954	947	938	934	934	931	936	940	943	945	948	949	953	954	954	953	952	947	
30	953	943	935	941	947	949	951	949	945	937	932	934	939	943	950	955	958	957	953	954	953	954	954	952	948	
31	953	952	952	952	953	956	959	960	954	945	938	932	935	950	959	962	963	958	958	959	960	960	959	957	954	
Mean	951	951	950	950	953	954	955	955	951	946	941	939	940	945	954	961	963	963	962	960	958	957	954	952	953	
Mean*	955	954	954	955	957	957	958	958	955	951	945	940	939	944	953	957	958	958	957	956	956	955	955	955	953	
Mean**	943	943	939	934	938	942	945	948	946	942	942	944	945	952	964	973	973	973	970	964	962	957	953	942	951	
September.	42000 γ + Tabular Quantities (in γ).																									Mean.
1**	949	951	951	952	952	955	960	960	952	943	938	940	945	949	953	955	955	956	958	964	982	960	962	962	954	
2	961	937	927	925	919	927	947	950	948	944	939	934	943	950	956	959	961	963	961	961	959	959	959	960	948	
3	959	960	958	957	956	958	960	960	953	942	944	944	952	959	962	967	969	977	970	962	960	961	960	957	959	
4	958	956	955	953	956	958	962	960	951	944	941	941	946	951	953	961	965	964	957	955	954	953	952	953	954	
5	953	952	953	954	955	956	956	953	945	931	927	931	936	942	948	950	954	954	953	955	951	949	949	948	948	
6	947	944	944	942	944	948	949	948	942	938	935	937	936	941	948	948	950	952	953	951	950	950	947	945	945	
7	944	945	939	941	939	942	945	947	941	938	936	933	938	946	951	968	979	985	984	972	963	960	946	949	951	
8	951	952	953	954	955	956	958	957	952	945	940	939	940	943	948	950	951	951	951	952	952	951	951	951	950	
9	952	952	953	952	953	953	954	954	947	940	935	930	933	940	946	952	957	962	962	960	958	958	953	946	950	
10*	948	949	946	948	951	952	953	953	948	938	931	925	926	936	942	947	948	948	947	948	948	948	948	947	945	
11*	947	947	946	946	948	949	951	950	946	942	935	930	935	939	941	943	944	944	942	942	942	942	943	942	943	
12*	940	940	939	939	940	941	942	941	940	936	932	923	920	923	931	936	936	934	934	935	936	937	937	937	935	
13	936	936	936	935	935	936	936	935	932	927	922	916	918	925	930	934	934	935	934	935	934	935	937	936	932	
14**	934	934	933	933	929	926	928	929	923	924	924	917	917	927	932	945	959	962	961	970	960	946	917	912	935	
15**	886	876	889	906	921	923	928	931	928	928	928	931	938	945	957	975	971	976	971	961	951	945	936	922	934	
16	927	935	938	937	935	938	942	943	937	931	926	937	941	941	945	945	947	945	944	943	941	940	938	930	939	
17	924	914	917	919	918	921	923	927	924	924	922	927	940	948	952	952	948	944	942	940	941	940	938	938	933	
18	938	939	939	938	937	937	937	938	936	932	924	916	918	925	933	940	943	941	940	940	939	935	937	937	935	
19	938	938	938	938	937	937	937	936	934	929	925	923	928	932	935	940	942	944	942	939	936	935	934	932	935	
20	933	934	935	934	934	935	934	933	928	921	914	915	921	929	934	935	933	932	932	933	934	933	931	930	930	
21**	931	932	931	923	920	917	907	903	901	908	913	923	930	937	938	940	943	940	940	943	943	942	940	939	929	
22	939	939	939	939	940	940	939	936	932	925	920	—	—	—	—	946	945	940	940	942	940	928	919	921	—	
23	926	929	932	932	932	931	932	932	927	923	920	918	923	928	930	933	932	932	935	935	935	933	926	923	929	
24**	927	928	920	900	898	897	898	906	917	922	917	918	926	939	949	955	978	974	967	954	944	928	917	928	930	
25	932	934	934	933	935	938	940	938	937	935	934	933	935	937	940	942	941	944	939	936	935	934	934	933	936	
26	932	932	932	931	931	932	934	933	929	923	920	921	919	920	921	925	930	932	936	933	933	933	932	928	929	
27	922	926	928	928	928	928	929	930	927	922	919	919	918	922	927	928	929	929	929	929	929	929	930	929	926	
28	929	929	928	928	927	927	928	932	933	931	926	920	914	915	916	921	923	924	926	928	927	928	928	928	926	
29*	925	924	923	923	924	925	928	933	933	925	916	915	915	915	921	926	926	925	926	926	926	927	928	928	924	
30*	927	927	927	926	926	926	928	928	926	920	913	904	899	903	915	928	934	934	936	936	937	937	937	937	926	
Mean	937	936	936	936	936	937	939	939	936	931	927	926	929	935	940	945	948	948	947	946	945	942	939	938	938	
Mean*	937	937	936	936	938	939	940	941	939	932	927	919	919	923	930	936	938	937	937	937	938	938	939	938	935	
Mean**	925	924	925	923	924	924	924	926	924	925	924	926	931	939	946	954	961	962	959	958	956	944	934	933	936	

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	
October.	42000γ + Tabular Quantities (in γ).																									Mean.
1	937	937	937	937	930	928	932	934	932	928	923	915	916	921	928	933	935	935	937	938	937	938	940	940	932	
2*	941	942	942	942	942	942	940	941	939	937	928	927	932	938	940	944	945	944	944	943	943	943	944	945	940	
3*	945	946	947	946	947	947	946	945	944	943	936	932	932	937	943	948	950	949	949	948	947	946	947	949	945	
4	951	952	949	947	946	947	945	945	945	940	936	933	935	943	948	953	952	953	952	955	956	944	932	940	946	
5	944	947	949	949	950	951	951	952	947	941	941	942	943	947	955	964	962	958	956	955	954	953	953	945	950	
6	944	947	948	949	944	946	947	949	946	941	942	940	936	943	949	951	955	954	954	953	952	951	951	951	948	
7	951	950	950	950	951	951	952	952	949	944	937	935	935	940	944	946	949	950	951	950	950	949	948	948	947	
8	949	948	949	949	949	950	952	952	949	946	941	933	932	936	943	948	949	948	948	949	950	949	936	938	946	
9**	937	931	922	916	917	920	928	934	942	945	947	944	944	947	956	962	969	974	979	964	968	964	954	953	945	
10	937	937	943	943	943	943	940	943	945	947	946	943	944	953	959	962	963	963	963	960	958	957	955	953	950	
11	955	953	945	940	939	943	945	949	953	953	949	947	948	956	959	967	978	976	971	965	960	955	949	945	954	
12**	942	944	937	937	940	942	942	948	950	953	956	955	969	967	965	967	972	973	972	964	961	958	956	956	955	
13	956	955	951	949	949	949	953	953	954	954	954	953	947	945	946	953	958	962	966	968	964	962	957	954	955	
14	954	950	940	935	937	944	947	952	956	959	957	955	958	957	957	962	961	960	958	958	957	956	956	956	953	
15	956	952	951	950	951	952	954	956	956	954	950	949	949	955	962	966	965	968	966	964	959	950	946	947	955	
16	943	940	938	943	945	947	950	951	949	944	943	941	943	949	954	960	960	958	957	957	956	956	955	953	950	
17	952	948	950	950	950	950	951	953	952	950	949	949	949	955	957	961	959	958	956	955	954	953	953	952	953	
18*	954	954	954	954	953	953	954	955	950	945	943	943	947	951	953	956	956	956	955	954	953	952	952	952	952	
19	953	953	954	954	953	954	953	953	953	951	944	941	941	944	950	954	958	959	959	959	961	958	955	953	953	
20	951	951	947	943	946	948	950	952	951	946	939	937	936	942	949	956	962	963	961	959	957	956	955	954	950	
21**	955	952	951	950	948	947	948	950	954	952	948	946	956	968	980	988	991	998	1012	1009	993	968	959	957	966	
22	957	933	944	951	951	948	957	964	964	963	962	961	964	966	973	990	993	990	985	984	981	972	966	965	966	
23**	966	963	963	963	963	964	964	967	966	962	958	958	968	985	1000	1018	1020	1004	1001	996	991	978	978	962	977	
24**	954	960	959	925	910	910	922	929	945	954	958	961	970	972	974	976	974	973	975	979	967	962	961	964	956	
25	966	966	967	966	965	965	966	968	969	968	963	960	962	966	971	974	973	970	969	969	970	964	962	960	966	
26	959	961	961	961	961	961	962	964	965	961	954	954	957	961	962	967	967	965	964	966	966	965	962	960	962	
27	961	960	960	960	960	961	960	962	960	957	953	949	950	955	959	961	961	957	959	961	962	962	964	964	959	
28	967	963	963	962	961	961	960	961	962	962	958	954	958	963	965	967	966	965	963	962	962	962	962	960	962	
29*	961	960	960	959	959	959	957	958	959	959	955	951	954	958	961	962	961	960	959	960	961	961	961	961	959	
30*	962	961	960	959	959	958	957	959	957	953	948	947	951	957	962	962	962	960	959	959	958	958	959	960	958	
31	961	960	960	959	958	958	957	957	957	956	952	949	951	951	955	961	964	974	979	976	971	966	964	964	961	
Mean	952	951	950	948	948	948	950	952	953	951	947	945	948	953	957	963	964	964	964	963	961	957	955	954	954	
Mean*	953	953	953	952	952	952	951	952	950	947	940	942	943	948	952	954	955	954	953	953	952	952	953	953	951	
Mean**	951	950	946	938	936	937	941	946	951	953	953	953	961	968	975	982	985	984	988	982	956	966	962	958	960	
November.	42000 γ + Tabular Quantities (in γ).																									Mean.
1**	965	959	938	922	946	948	952	958	965	964	958	955	953	958	967	971	971	968	965	966	962	955	957	959	958	
2**	962	963	962	963	963	964	963	964	963	957	950	950	954	957	962	964	965	969	970	970	972	970	968	965	963	
3	966	963	963	964	964	963	962	960	958	954	952	954	957	961	965	968	969	969	967	966	967	966	966	964	963	
4	965	964	964	964	964	964	963	961	960	956	950	948	949	954	959	963	965	966	965	964	963	962	963	961	961	
5*	961	961	962	962	962	963	962	961	960	955	950	949	954	958	961	960	961	962	962	963	963	963	963	964	960	
6	964	964	965	965	967	967	968	967	967	962	958	958	961	966	970	971	972	972	971	972	972	971	969	968	967	
7	967	966	967	967	967	967	967	967	967	965	961	960	961	963	967	969	970	970	968	967	967	967	965	965	966	
8	965	964	962	963	964	963	964	964	964	962	960	960	961	964	966	967	968	967	965	965	968	976	980	977	966	
9**	969	964	956	922	925	932	945	953	959	963	963	964	968	970	975	978	980	984	995	997	994	979	962	944	964	
10**	947	931	939	936	937	943	948	955	962	963	967	970	971	974	978	985	993	992	994	988	986	987	982	973	967	
11	953	948	949	946	944	947	956	964	968	966	962	964	966	970	971	973	971	969	968	968	968	968	966	965	962	
12	958	958	956	957	960	961	962	963	965	963	958	952	953	960	962	—	—	—	—	—	—	—	956	957	—	
13	958	957	956	952	952	954	956	957	957	956	956	954	—	—	—	—	—	—	—	—	—	—	—	—	—	
14**	—	—	—	—	—	—	—	—	—	—	—	951	956	962	968	971	990	993	976	971	979	966	959	959	—	
15	960	959	960	959	958	956	956	956	955	952	951	953	958	963	966	967	971	971	973	970	966	963	955	954	961	
16	955	956	955	955	957	959	962	966	965	962	962	959	960	964	967	968	967	965	962	962	962	964	963	962	962	
17	961	959	958	958	959	958	957	958	958	955	950	950	955	961	965	965	966	967	963	962	961	960	960	960	959	
18	959	958	959	959	959	959	957	957	956	955	951	949	955	962	966	966	965	965	964	962	961	959	956	957	959	
19	958	956	956	957	958	959	958	959	959	955	951	951	952	957	962	962	963	962	961	959	959	958	956	957	958	
20	954	954	955	956	956	957	957	957	957	954	951	954	956	959	962	964	963	962	963	962	960	959	959	957	958	
21*	956	955	954	954	954	954	954	952	951	948	945	943	945	949	954	955	956	956	955	954	954	953	953	952	952	
22*	952	951	951	951	951	952	952	951	950	945	942	937	940	945	948	950	950	951	951	951	952	952	950	949	949	
23	947	946	946	947	947	948	948	949	950	948	945	944	946	949	953	954	954	954	953	953	952	951	951	951	949	
24	951	951	950	949	949	950	950	949	950	948	945	945	943	942	945	944	946	949	950	951	952	949	948	949	948	
25	949	949	950	951	951	953	953	953	956	954	949	950	951	954	955	953	953	952	951	954	953	952	951	951	952	
26	950	949	948	948	947	947	947	946	946	943	941	941	942	946	947	948	948	948	947	948	948	947	946	946	946	
27*	946	945	945	943	942	942	942	941	938	934	934	932	935	945	953	958	962	962	961	959	959	960	959	958	948	
28*	958	956	956	955	954	954	953	954	955	952	947	948	953	956	956	955	956	956	954	954	954	953	953	954	954	
29	954	954	953	952	951	951	951	951	951	946	944	944	947	954	956	957	956	956	954	954	953	952	952	953	952	
30	952	952	953	953	953	952	951	951	951	950	946	945	947	950	952	954	955	955	952	952	951	951	951	952	951	
Mean	957	956	955	953	954	955	956	957	957	955	952	951	953	958	961	963	964	965	964	963	963	961	959	958	958	
Mean*	955	954	954	953	953	953	953	952	951	947	944	942	945	951	954	956	957	957	957	956	956	956	956	955	953	
Mean**	961	954	949	936	943	947	952	958	962	962	960	960	962	965	970	975	977	978	981	980	979	973	967	960	963	

TABLE A III.—HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC FORCE AT ABINGER—*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	
December.	42000 γ + Tabular Quantities (in γ).																									Mean.
1	953	953	954	953	953	952	951	952	953	951	949	948	951	955	959	957	959	956	954	954	953	953	953	953	953	
2	951	952	952	952	951	952	951	950	949	948	945	961	959	962	964	965	963	962	961	960	959	959	959	960	956	
3*	961	960	960	959	959	959	958	956	953	950	952	953	954	955	957	960	961	961	961	962	962	961	961	960	958	
4	960	960	959	959	958	958	957	956	954	950	946	948	950	950	956	957	959	959	959	959	958	960	958	956	956	
5	956	956	955	954	956	956	956	955	954	951	950	951	952	956	960	959	960	959	958	959	960	963	956	955	956	
6**	951	947	943	945	946	947	948	948	950	949	951	951	958	964	973	987	987	976	970	968	969	965	962	961	959	
7**	959	958	956	951	949	950	951	955	956	957	955	949	955	965	971	978	973	968	966	966	965	962	960	959	960	
8	959	957	957	958	958	959	959	956	956	956	954	955	961	963	964	966	965	963	963	963	961	961	960	958	960	
9	956	955	954	952	954	956	956	956	955	956	952	955	956	961	961	962	965	965	965	964	963	962	960	959	958	
10	958	956	956	956	956	957	957	955	953	952	951	952	958	959	960	963	965	970	966	968	969	966	960	959	959	
11	959	957	956	956	956	957	958	958	956	954	951	952	956	961	962	963	962	960	960	959	959	960	962	960	958	
12	958	956	956	955	955	956	955	954	953	952	946	949	952	954	956	960	960	960	959	961	960	959	958	957	956	
13	956	954	954	953	953	954	954	954	952	948	949	947	951	956	960	964	966	962	961	960	960	961	961	960	956	
14*	954	953	954	953	953	953	952	951	950	952	949	950	951	959	965	966	967	965	963	962	963	963	961	957	957	
15	958	958	958	958	957	956	955	954	954	954	950	952	955	959	961	967	971	975	978	978	978	976	972	968	963	
16	964	960	953	952	948	947	945	947	948	947	947	951	950	953	960	964	965	962	959	958	957	955	955	955	954	
17*	955	954	954	954	953	953	952	950	948	948	945	946	946	950	954	960	963	961	960	958	957	955	953	953	953	
18**	954	953	952	952	953	953	953	952	950	949	946	949	949	953	956	958	961	970	975	971	969	965	960	959	957	
19	959	957	957	956	955	955	954	952	951	948	946	948	951	951	954	959	960	957	956	956	955	954	954	954	954	
20	953	952	954	954	953	953	952	952	950	950	950	952	954	957	959	959	958	958	957	957	955	954	953	952	954	
21*	952	952	952	952	952	953	952	952	952	949	946	950	954	958	958	957	958	958	959	959	958	957	956	956	954	
22	953	952	952	952	952	953	953	951	950	948	947	949	948	951	953	953	955	955	955	955	956	955	953	952	952	
23	951	950	950	950	950	951	952	952	952	949	943	945	947	951	955	956	954	953	955	955	955	956	955	952	952	
24	950	949	947	946	946	947	949	949	947	944	944	945	946	950	953	956	956	956	956	956	955	954	952	952	950	
25	951	949	947	946	945	945	946	945	944	942	939	944	945	946	949	949	949	947	947	948	948	950	947	946	946	
26*	945	944	943	943	942	943	944	944	944	944	944	942	939	945	949	950	949	948	947	947	948	948	948	948	945	
27**	947	946	945	944	944	944	943	943	942	938	936	942	944	946	949	952	956	966	985	1004	1011	972	966	967	955	
28**	964	961	959	956	954	952	950	951	932	932	960	966	967	971	973	970	968	969	969	969	968	970	969	969	961	
29	967	964	964	962	960	960	959	957	956	955	955	955	956	959	961	964	966	964	961	960	960	960	962	963	960	
30	963	960	959	958	958	958	957	956	954	950	953	957	956	958	959	957	956	955	954	954	954	953	953	954	956	
31	954	954	953	954	953	952	952	949	947	947	950	944	942	949	953	953	955	956	956	958	961	961	958	955	953	
Mean	956	954	954	953	953	953	953	952	950	949	948	950	952	956	959	961	962	961	961	962	961	960	958	957	956	
Mean*	953	953	953	952	952	952	952	951	949	949	947	948	949	953	957	959	960	959	958	958	958	957	956	955	953	
Mean**	955	953	951	950	949	949	949	950	946	945	950	951	955	960	964	969	969	970	973	976	976	967	963	963	958	

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

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Nine Months.
				′	′	′	′	′	′	′	′	′	′
Midnight	—	—	—	3·6	3·7	3·0	3·4	3·2	2·2	0·6	1·1	0·8	1·91
1h	—	—	—	3·8	3·4	2·7	3·2	3·5	2·4	1·5	1·7	1·1	2·10
2	—	—	—	3·8	3·5	2·6	3·7	3·3	2·1	1·6	2·0	1·5	2·19
3	—	—	—	3·4	2·9	2·5	3·7	3·2	2·3	1·7	2·0	1·7	2·11
4	—	—	—	3·1	2·4	1·7	2·2	2·7	1·8	2·4	2·3	1·6	1·75
5	—	—	—	2·7	1·5	0·9	0·6	1·6	1·3	2·0	2·4	1·5	1·12
6	—	—	—	1·6	0·7	0·1	0·2	0·7	0·8	1·9	2·0	1·4	0·55
7	—	—	—	0·4	0·0	0·0	0·0	0·0	0·0	1·1	1·4	1·7	0·02
8	—	—	—	0·0	0·3	0·1	0·2	0·6	0·8	0·1	0·7	1·6	0·00
9	—	—	—	1·3	1·7	1·5	1·5	2·5	2·8	0·8	1·0	1·3	1·11
10	—	—	—	4·2	4·2	4·0	4·0	5·5	5·7	2·6	2·8	2·3	3·43
11	—	—	—	7·1	6·8	7·1	6·9	8·2	8·0	6·0	5·0	3·8	6·05
Noon	—	—	—	9·3	8·7	9·3	8·9	9·9	9·1	7·8	6·3	4·8	7·74
13h	—	—	—	10·1	9·4	10·0	9·9	10·7	8·8	8·5	6·4	5·3	8·30
14	—	—	—	9·1	8·3	9·8	9·7	9·7	7·4	7·6	5·8	4·9	7·54
15	—	—	—	7·5	7·1	8·2	8·6	7·8	5·7	6·5	4·8	4·3	6·23
16	—	—	—	6·1	6·2	6·7	7·2	6·1	4·3	5·0	4·1	3·6	4·99
17	—	—	—	5·0	5·2	5·5	5·9	5·1	2·7	3·7	3·1	3·4	3·91
18	—	—	—	4·3	4·0	4·9	4·9	4·5	2·6	2·6	2·3	3·0	3·19
19	—	—	—	3·8	3·7	4·2	4·5	4·2	2·4	2·0	1·4	2·2	2·67
20	—	—	—	3·4	3·8	4·1	4·4	4·1	2·5	1·1	1·0	1·2	2·35
21	—	—	—	3·4	3·8	3·5	4·2	3·9	1·7	0·5	0·4	0·1	1·90
22	—	—	—	3·3	3·7	3·1	3·9	3·4	1·9	0·0	0·0	0·0	1·65
23	—	—	—	3·6	3·8	3·1	3·5	3·2	2·0	0·2	0·2	0·5	1·74
Means	—	—	—	4·33	4·12	4·11	4·38	4·48	3·39	2·82	2·51	2·23	3·11

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

1925.

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

The mean of the nine monthly values is 10′·39.

TABLE A VI.—MONTHLY 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 :—

April 4, 17, 19, 24, 25.
May 2, 12, 14, 15, 16.
June 8, 9, 19.
July 13, 16, 17, 18, 20.
August 11, 12, 13, 15, 28.
September 10, 11, 12, 29, 30.
October 2, 3, 18, 29, 30.
November 5, 21, 22, 27, 28.
December 3, 14, 17, 21, 26.

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Nine Months.
				′	′	′	′	′	′	′	′	′	′
Midnight	—	—	—	3·8	3·3	4·1	4·2	3·7	3·5	2·8	0·5	0·2	2·80
1h	—	—	—	3·7	3·0	3·8	3·9	3·7	3·7	2·7	1·0	0·5	2·79
2	—	—	—	3·5	2·7	4·0	3·6	3·5	3·2	2·7	1·3	0·7	2·70
3	—	—	—	3·4	2·5	3·6	3·2	3·2	3·1	2·5	1·6	0·7	2·54
4	—	—	—	3·2	1·8	2·6	2·1	2·5	2·6	2·3	1·5	0·6	2·03
5	—	—	—	2·7	1·0	1·4	0·6	1·5	2·0	2·0	1·4	0·3	1·33
6	—	—	—	1·6	0·5	1·0	0·1	0·7	1·2	1·8	1·0	0·0	0·78
7	—	—	—	0·5	0·0	0·2	0·0	0·0	0·0	0·9	0·8	0·1	0·18
8	—	—	—	0·0	0·2	0·0	0·3	0·1	0·2	0·0	0·0	0·1	0·00
9	—	—	—	1·4	1·2	1·7	1·7	1·7	1·8	0·3	0·2	0·2	1·03
10	—	—	—	3·4	2·9	4·8	4·3	4·4	5·0	2·6	1·7	1·4	3·29
11	—	—	—	5·9	5·1	8·7	6·7	6·7	8·0	5·8	3·5	2·2	5·74
Noon	—	—	—	7·7	6·6	11·0	8·5	8·5	9·6	7·5	4·8	3·3	7·40
13h	—	—	—	8·5	7·1	12·1	9·3	9·1	9·0	7·6	4·9	4·1	7·87
14	—	—	—	7·9	6·4	11·5	9·1	8·5	7·6	6·4	4·3	4·0	7·20
15	—	—	—	6·7	5·6	9·3	7·7	6·9	5·6	5·6	3·4	3·2	5·90
16	—	—	—	5·7	4·9	7·1	6·3	5·5	3·9	4·5	2·9	2·4	4·70
17	—	—	—	5·1	4·3	5·9	5·4	4·7	3·5	3·9	2·5	1·7	4·01
18	—	—	—	4·7	3·9	5·1	4·6	4·6	3·9	3·5	2·1	1·6	3·69
19	—	—	—	4·7	3·8	4·6	4·5	4·9	3·9	3·2	1·8	1·2	3·52
20	—	—	—	4·8	3·8	4·3	4·3	5·1	3·8	2·9	1·6	0·7	3·38
21	—	—	—	4·7	3·8	4·8	4·2	4·8	3·6	2·8	1·2	0·1	3·23
22	—	—	—	4·6	3·7	5·1	4·5	4·4	3·6	2·7	1·2	0·0	3·21
23	—	—	—	4·3	3·6	4·7	4·2	4·2	3·5	2·5	1·2	0·0	3·03
Means	—	—	—	4·27	3·40	5·06	4·30	4·29	3·99	3·31	1·93	1·22	3·43

TABLE A VII.—MONTHLY DIURNAL INEQUALITIES of MAGNETIC DECLINATION WEST 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 :—

April 3, 9, 10, 15, 20.
May 5, 30, 31.
June 13, 23, 24, 25, 28.
July 15, 22, 26, 27, 28.
August 7, 8, 18, 22, 23.
September 1, 14, 15, 21, 24.
October 9, 12, 21, 23, 24.
November 1, 2, 9, 10, 14.
December 6, 7, 18, 27, 28.

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Nine Months.
				′	′	′	′	′	′	′	′	′	′
Midnight	—	—	—	3·0	2·5	2·3	2·0	0·0	1·5	0·0	3·2	1·9	0·08
1h	—	—	—	4·1	0·5	2·4	0·8	0·4	3·2	3·4	6·0	2·5	0·85
2	—	—	—	3·6	2·7	2·2	3·8	2·2	4·8	3·6	5·3	2·8	1·70
3	—	—	—	3·0	1·4	2·1	5·8	3·3	5·1	4·1	4·6	2·7	1·83
4	—	—	—	2·5	1·8	1·9	2·0	4·3	4·0	6·6	6·6	2·6	1·85
5	—	—	—	2·3	2·1	2·1	0·0	3·2	4·0	6·0	8·1	2·7	1·65
6	—	—	—	1·2	0·9	1·0	0·5	1·7	3·4	7·1	7·8	2·2	1·13
7	—	—	—	0·1	0·0	0·0	1·3	0·8	3·6	6·0	6·6	4·6	0·81
8	—	—	—	0·0	0·0	1·1	2·4	1·8	5·5	4·6	5·2	5·0	1·10
9	—	—	—	1·4	0·8	2·0	2·9	4·2	6·4	5·5	5·4	2·6	1·73
10	—	—	—	4·5	3·6	4·0	5·6	6·8	8·3	7·4	6·8	3·0	3·81
11	—	—	—	8·2	6·7	6·8	7·6	8·8	9·5	11·4	8·6	5·1	6·34
Noon	—	—	—	10·6	9·8	9·4	9·3	9·4	10·8	11·9	10·2	5·8	7·95
13h	—	—	—	11·0	9·7	9·7	10·3	12·5	10·6	13·3	10·3	6·9	8·74
14	—	—	—	10·2	9·3	10·6	9·9	11·2	9·2	11·7	10·3	6·5	8·14
15	—	—	—	8·9	8·0	9·7	9·1	8·6	8·7	11·5	9·4	6·6	7·20
16	—	—	—	7·2	6·3	8·0	7·4	6·7	7·9	8·8	8·8	6·1	5·73
17	—	—	—	5·6	5·0	5·6	6·3	5·9	2·8	6·9	7·0	5·9	3·93
18	—	—	—	5·1	2·2	5·7	5·7	4·6	3·3	5·0	4·1	5·4	2·83
19	—	—	—	3·1	3·0	4·6	4·9	3·8	1·6	2·3	2·3	3·6	1·50
20	—	—	—	1·0	3·8	4·9	5·1	2·8	0·0	0·8	1·5	0·7	0·55
21	—	—	—	1·4	4·1	2·4	5·0	1·7	0·0	0·6	1·0	0·0	0·06
22	—	—	—	2·1	4·9	1·0	4·1	2·3	1·3	0·0	0·0	0·0	0·00
23	—	—	—	3·4	5·3	0·8	4·0	1·4	1·1	0·1	1·5	0·7	0·29
Means	—	—	—	4·31	3·93	4·18	4·83	4·52	4·86	5·78	5·86	3·58	2·91

TABLE A VIII.—MONTHLY MEAN DIURNAL INEQUALITIES of MAGNETIC HORIZONTAL FORCE.
(*The results are expressed in C.G.S. units, and in each case diminished by the smallest hourly value.*)

1925.

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

TABLE A IX.—DIURNAL RANGE of MAGNETIC HORIZONTAL FORCE, on each CIVIL DAY, deduced from Table A II.
(*The results are corrected for temperature and expressed in C.G.S. units.*)

1915.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	—	28γ	49γ	27γ	30γ	65γ	67γ	42γ	92γ	46γ	87γ	34γ
2	—	19	19	25	35	65	53	39	80	31	30	29
3	—	14	16	56	45	—	42	61	57	33	16	14
4	—	18	33	34	88	53	47	56	48	33	24	23
5	—	21	37	54	48	35	30	46	49	77	41	34
6	—	14	30	42	39	52	36	46	52	51	36	67
7	—	24	26	35	38	39	54	83	51	32	37	43
8	—	42	23	45	40	47	39	84	44	51	70	45
9	—	36	48	68	47	64	48	74	36	82	65	24
10	—	19	28	58	41	57	59	51	32	35	62	34
11	—	21	21	55	40	38	48	36	34	63	67	27
12	—	28	23	56	43	41	38	39	44	63	—	21
13	—	17	20	44	36	80	40	48	40	49	43	32
14	—	16	24	48	31	38	57	36	66	51	66	23
15	—	20	66	45	28	39	67	35	66	64	35	54
16	—	24	32	57	21	44	31	49	80	32	30	32
17	—	26	37	28	22	40	23	—	65	40	39	21
18	—	25	33	32	27	39	26	42	47	41	37	44
19	—	36	—	43	(34)	45	33	44	30	42	37	24
20	—	34	—	63	37	—	52	46	46	45	41	22
21	—	18	27	37	44	—	47	67	95	73	20	14
22	—	14	38	51	31	45	85	67	72	44	16	19
23	—	19	43	29	46	84	53	109	46	107	34	24
24	—	—	29	37	36	76	55	64	95	95	29	23
25	—	—	21	35	34	80	58	69	37	47	40	10
26	—	23	24	35	38	51	73	52	35	45	15	16
27	—	23	30	—	21	67	74	47	27	34	23	75
28	—	44	23	31	42	78	61	51	19	38	19	101
29	—		29	—	62	55	49	44	27	20	27	17
30	—		33		71	55	48	57	32	33	21	33
31	—		—		65		38	57		40		22
Means	—	24·0	30·8	43·3	40·6	54·5	49·4	54·7	51·5	49·9	38·2	32·3

The mean of the eleven monthly values is 42·7γ.

TABLE A X.—MONTHLY MEAN DIURNAL INEQUALITIES of MAGNETIC HORIZONTAL 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 :—

February	3, 4, 21, 22, 23.	May	2, 12, 14, 15, 16.	August	11, 12, 13, 15, 28.	November	5, 21, 22, 27, 28.
March	3, 8, 18, 28.	June	8, 9, 19.	September	10, 11, 12, 29, 30.	December	3, 14, 17, 21, 26.
April	4, 17, 19, 24, 25.	July	13, 16, 17, 18, 20.	October	2, 3, 18, 29, 30.		

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the 11 months.
Midnight	—	8γ	17γ	22γ	15γ	35γ	24γ	30γ	27γ	28γ	11γ	10γ	19·5
1h	—	8	17	20	15	33	22	27	29	27	12	8	18·7
2	—	10	17	19	14	31	21	27	29	27	18	8	19·0
3	—	10	18	19	14	33	22	27	25	28	14	10	18·9
4	—	11	19	19	14	32	22	27	25	26	16	11	19·1
5	—	12	20	21	13	28	19	25	22	28	17	11	18·5
6	—	13	21	22	11	19	16	22	18	25	16	11	16·5
7	—	14	21	19	7	9	9	16	12	22	16	9	12·9
8	—	11	16	11	4	1	4	7	6	15	12	8	7·5
9	—	5	9	5	1	0	0	2	1	7	6	5	2·6
10	—	1	3	0	0	2	2	0	0	0	1	3	0·0
11	—	0	0	0	1	6	3	3	4	2	0	0	0·6
Noon	—	2	2	4	2	11	10	10	13	9	2	0	4·8
13h	—	4	7	9	5	20	13	15	16	15	6	3	9·2
14	—	7	12	16	8	29	19	22	19	22	9	3	14·0
15	—	7	16	20	14	32	26	28	22	24	11	4	17·4
16	—	7	17	23	20	35	29	31	23	26	13	8	20·0
17	—	7	19	25	26	42	27	34	25	28	17	10	22·5
18	—	9	21	28	28	47	31	40	28	30	18	12	25·4
19	—	9	22	29	28	45	32	40	30	30	19	10	25·6
20	—	10	22	31	27	44	31	38	30	31	19	11	25·6
21	—	8	22	30	25	42	29	35	29	31	18	11	24·4
22	—	10	22	31	24	38	29	34	29	31	18	11	24·1
23	—	10	22	31	22	40	29	32	30	30	18	11	23·9
Means	—	8·0	15·9	18·9	14·1	27·0	19·6	23·9	20·5	22·6	12·8	7·8	16·3

TABLE A XI.—MONTHLY MEAN DIURNAL INEQUALITIES of MAGNETIC HORIZONTAL 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 :—

February	8, 9, 28.	May	4, 5, 28, 30, 31.	August	7, 8, 18, 22, 23.	November	1, 2, 9, 10, 14.
March	1, 5, 9, 10, 15.	June	13, 23, 24, 25, 28.	September	1, 14, 15, 21, 24.	December	6, 7, 18, 27, 28.
April	3, 9, 10, 15, 20.	July	15, 22, 26, 27, 28.	October	9, 12, 21, 23, 24.		

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the 11 months.
Midnight	—	16γ	20γ	39γ	45γ	40γ	48γ	52γ	48γ	28γ	16γ	23γ	29·6γ
1h	—	15	21	42	32	45	43	56	45	30	22	25	29·7
2	—	20	25	35	35	47	42	63	49	38	29	26	32·7
3	—	26	23	34	36	43	47	61	46	51	33	26	34·2
4	—	24	23	37	30	46	46	49	44	53	25	31	32·6
5	—	23	31	35	23	42	43	41	43	40	24	33	29·9
6	—	23	27	37	14	31	29	39	11	46	32	29	24·4
7	—	22	26	30	14	19	22	24	5	30	32	18	17·5
8	—	26	23	18	16	10	16	9	0	26	21	19	12·2
9	—	21	15	8	6	5	9	0	3	26	11	0	5·0
10	—	15	8	3	0	0	3	1	2	14	4	1	0·1
11	—	9	0	0	3	4	0	18	7	5	3	0	0·0
Noon	—	0	0	4	7	2	10	32	8	0	6	1	1·9
13h	—	7	8	15	9	13	17	41	9	20	8	0	8·9
14	—	9	1	25	22	28	27	51	18	23	10	3	15·2
15	—	13	10	26	21	37	35	59	24	27	13	5	20·1
16	—	13	9	26	29	54	47	55	25	28	7	3	22·4
17	—	11	10	28	41	57	58	60	25	21	10	5	25·1
18	—	7	10	31	42	63	58	61	33	16	4	4	25·4
19	—	6	16	30	36	54	60	58	26	8	2	2	22·6
20	—	6	14	39	36	50	50	58	28	7	0	4	22·0
21	—	7	17	39	34	49	48	55	22	11	12	13	23·4
22	—	8	23	35	35	50	46	67	24	17	11	9	25·0
23	—	7	18	37	35	33	47	61	27	17	11	13	23·3
Means	—	13·9	15·8	27·0	25·0	34·2	35·5	44·6	23·8	24·3	14·4	12·2	20·1

TABLE A XII.—MONTHLY 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.)

1925.

Greenwich Civil Time. Hour commencing	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For 11 months
Midnight	—	8γ	18γ	22γ	19γ	13γ	15γ	12γ	11γ	7γ	6γ	8γ	12·4γ
1h	—	7	18	21	18	13	16	12	10	6	5	6	11·8
2	—	6	17	20	19	13	16	11	10	5	4	6	11·3
3	—	6	16	20	19	15	16	11	10	3	2	5	11·0
4	—	6	16	20	20	17	17	14	10	3	3	5	11·7
5	—	6	16	21	20	18	18	15	11	3	4	5	12·3
6	—	6	16	21	20	16	18	16	13	5	5	5	12·6
7	—	5	17	22	18	15	17	16	13	7	6	4	12·5
8	—	6	14	20	15	12	14	12	10	8	6	2	10·6
9	—	4	9	11	9	8	9	7	5	6	4	1	6·4
10	—	2	4	5	4	3	4	2	1	2	1	0	2·3
11	—	0	0	0	0	0	0	0	0	0	0	2	0·0
Noon	—	1	3	2	4	4	2	1	3	3	2	4	2·4
13h	—	5	9	9	11	9	7	6	9	8	7	8	7·8
14	—	9	14	18	18	16	13	15	14	12	10	11	13·4
15	—	12	20	24	23	23	19	22	19	18	12	13	18·4
16	—	13	22	28	28	29	24	24	22	19	13	14	21·3
17	—	13	22	30	31	31	29	24	22	19	14	13	22·3
18	—	12	21	30	32	32	29	23	21	19	13	13	22·1
19	—	12	21	29	30	29	27	21	20	18	12	14	21·0
20	—	12	20	27	28	31	24	19	19	16	12	13	19·9
21	—	12	19	25	25	22	22	18	16	12	10	12	17·3
22	—	11	18	23	23	19	20	15	13	10	8	10	15·3
23	—	10	18	22	21	15	17	13	12	9	7	9	13·7
Means	—	7·7	15·3	19·6	19·0	16.8	16·4	13·7	12·3	9·1	6·9	7·6	12·9

TABLE A XIII.—DIURNAL RANGE of MAGNETIC VERTICAL FORCE, on each CIVIL DAY, deduced from Table A III.
(The results are corrected for temperature and expressed in C.G.S. units.)

1925.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	—	13γ	23γ	22γ	22γ	46γ	38γ	29γ	44γ	25γ	49γ	11γ
2	—	7	11	28	23	(34)	28	27	44	18	22	20
3	—	9	8	50	25	—	19	24	35	18	17	12
4	—	11	14	25	60	—	30	41	24	24	18	14
5	—	11	19	29	27	—	32	39	29	23	15	13
6	—	18	13	33	25	41	24	31	18	19	14	44
7	—	13	—	27	26	40	27	46	52	17	10	29
8	—	17	16	21	34	32	33	47	19	20	20	12
9	—	34	31	25	42	29	51	27	32	63	75	13
10	—	18	29	43	23	35	56	22	28	26	63	19
11	—	13	20	32	30	41	33	25	21	39	29	12
12	—	24	22	45	35	34	25	23	22	36	—	15
13	—	15	16	24	36	45	33	19	21	23	—	19
14	—	21	18	24	27	28	21	24	58	27	—	18
15	—	11	33	50	36	31	33	20	100	22	22	28
16	—	17	17	22	33	30	27	19	21	22	13	20
17	—	25	22	26	29	33	19	35	38	13	17	18
18	—	13	16	37	31	20	27	35	27	13	17	29
19	—	23	21	26	26	25	32	20	21	20	12	14
20	—	24	30	45	21	33	25	33	21	27	13	9
21	—	14	18	30	32	29	48	22	42	66	13	13
22	—	7	—	39	25	(34)	34	50	—	60	15	9
23	—	10	23	38	39	40	47	90	17	62	10	13
24	—	—	26	29	31	50	31	33	81	69	10	12
25	—	—	25	26	25	77	27	22	12	14	7	12
26	—	5	28	34	36	30	34	37	17	13	9	11
27	—	14	35	53	46	43	37	33	12	15	30	75
28	—	18	22	29	—	56	45	28	19	13	11	41
29	—		41	30	27	29	29	23	18	11	13	12
30	—		31	30	59	30	32	26	38	15	10	13
31	—		23		50		21	31		30		19
Means	—	15·6	22·4	32·4	32·7	37·0	32·2	31·6	32·1	27·9	20·5	19·3

The mean of the eleven monthly values is 27·6γ.

TABLE A XIV.—MONTHLY 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 :—

February	3, 4, 21, 22, 23.	May	2, 12, 14, 15, 16.	August	11, 12, 13, 15, 28.	November	5, 21, 22, 27, 28.
March	3, 8, 18, 28, 31.	June	8, 9, 19, 20, 21.	September	10, 11, 12, 29, 30.	December	3, 14, 17, 21, 26.
April	4, 17, 19, 24, 25.	July	13, 16, 17, 18, 20.	October	2, 3, 18, 29, 30.		

1925.

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

TABLE A XV.—MONTHLY 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 :—

February	8, 9, 28.	May	4, 5, 30, 31.	August	7, 8, 18, 22, 23.	November	1, 2, 9, 10.
March	1, 5, 9, 10, 15.	June	13, 23, 24, 25, 28.	September	1, 14, 15, 21, 24.	December	6, 7, 18, 27, 28.
April	4, 17, 19, 24, 25.	July	15, 22, 26, 27, 28.	October	9, 12, 21, 23, 24.		

1925.

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

TABLE A 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 A IV., A VIII., and A XII.

The coefficients a, b, c are given in units of 1γ (0·00001 C.G.S. units) for H.F. and V.F. and in minutes of arc (1′ = 5·41 γ) 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 a, $2a$, $3a$ and $4a$, the value of a 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, 1925.	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.															
	′	′	′	′	′	′	′	′	′	°	′	°	′	°	′	°
April	− 1·54	− 1·97	+ 1·36	+ 2·02	− 0·82	− 0·70	+ 0·39	+ 0·17	2·50	218·0	2·44	33·9	1·08	229·5	0·42	66·5
May	− 1·39	− 2·21	+ 1·50	+ 1·64	− 0·66	− 0·49	+ 0·21	+ 0·01	2·61	212·2	2·22	42·4	0·83	233·4	0·20	64·5
June	− 1·94	− 2·82	+ 1·37	+ 1·77	− 0·70	− 0·57	+ 0·11	+ 0·19	3·42	214·5	2·24	37·7	0·90	230·8	0·22	30·1
July	− 1·53	− 2·84	+ 1·36	+ 1·91	− 0·68	− 0·47	− 0·12	+ 0·05	3·23	208·3	2·35	35·5	0·83	235·3	0·10	292·6
August	− 2·04	− 2·30	+ 1·69	+ 1·70	− 1·02	− 0·50	+ 0·09	+ 0·08	3·07	221·6	2·40	44·8	1·14	243·9	0·14	48·4
September	− 2·36	− 1·29	+ 1·79	+ 1·25	− 0·98	− 0·31	+ 0·25	+ 0·04	2·69	241·3	2·18	55·1	1·03	252·4	0·25	80·9
October ...	− 2·49	− 1·30	+ 0·50	+ 1·97	− 0·64	− 0·71	+ 0·36	+ 0·34	2·81	242·4	2·03	14·2	0·95	222·0	0·50	46·6
November.	− 1·88	− 0·66	+ 0·34	+ 1·52	− 0·53	− 0·37	+ 0·34	+ 0·24	1·99	250·7	1·56	12·6	0·65	235·1	0·42	54·8
December .	− 1·60	− 0·80	+ 0·01	+ 1·02	− 0·27	− 0·05	+ 0·19	+ 0·34	1·79	243·4	1·03	0·6	0·31	259·5	0·40	29·2
For the Nine Months	− 1·86	− 1·80	+ 1·10	+ 1·65	− 0·71	− 0·47	+ 0·20	+ 0·16	2·59	225·9	1·98	33·7	0·85	236·5	0·26	51·3
	HORIZONTAL FORCE.															
February...	+ 2·9	+ 3·2	− 3·7	− 0·3	+ 1·4	− 0·7	− 0·4	+ 1·0	4·3	42·2	3·7	265·4	1·6	116·6	1·1	338·2
March	+ 7·9	+ 0·5	− 5·3	− 0·1	+ 2·0	− 2·0	− 0·5	+ 1·1	7·9	86·4	5·3	268·9	2·8	135·0	1·2	335·6
April	+ 11·8	− 2·5	− 6·2	+ 2·2	+ 2·1	− 3·2	− 0·1	+ 1·3	12·1	102·0	6·6	289·5	3·8	146·7	1·3	355·6
May	+ 10·2	− 7·1	− 5·1	+ 1·7	+ 0·6	0·0	+ 1·2	+ 0·1	12·4	124·8	5·4	288·4	0·6	90·0	1·2	85·2
June	+ 12·6	− 11·7	− 7·0	+ 3·0	− 0·2	0·0	+ 0·9	− 0·5	17·2	132·9	7·6	293·2	0·0	90·0	1·0	119·1
July	+ 12·1	− 8·9	− 7·4	+ 3·3	+ 0·3	− 0·8	+ 0·9	− 0·1	15·0	126·3	8·1	294·0	0·8	159·4	0·9	96·3
August	+ 13·9	− 10·8	− 5·1	+ 5·5	− 0·4	− 2·7	+ 0·7	+ 1·3	17·6	127·8	7·5	317·2	2·7	188·4	1·5	28·3
September	+ 13·0	− 5·7	− 2·9	+ 5·0	− 1·0	− 2·6	+ 0·2	+ 0·7	14·2	113·7	5·8	329·9	2·8	201·0	0·7	15·9
October ...	+ 10·3	+ 0·8	− 6·0	+ 2·9	+ 1·4	− 2·8	− 0·8	+ 0·6	10·3	85·6	6·7	295·8	3·1	153·4	1·0	306·9
November.	+ 7·1	+ 2·5	− 5·5	+ 1·1	+ 2·0	− 1·3	− 0·3	+ 1·2	7·5	70·6	5·6	281·3	2·4	123·0	1·2	346·0
December	+ 4·4	+ 2·9	− 3·8	+ 0·2	+ 1·4	− 0·8	− 0·1	+ 0·8	5·3	56·6	3·8	273·0	1·6	119·7	0·8	352·9
For the Eleven Months	+ 9·6	− 3·4	− 5·2	+ 2·2	+ 0·9	− 1·5	+ 0·1	+ 0·7	10·2	109·5	5·6	292·9	1·8	149·0	0·7	8·1
	VERTICAL FORCE.															
February...	+ 2·6	− 3·8	− 2·2	+ 0·1	+ 1·6	− 0·4	− 0·9	− 0·4	4·6	145·6	2·2	272·6	1·7	104·0	1·0	246·0
March	+ 5·5	− 2·9	− 4·8	+ 0·8	+ 2·9	− 0·2	− 1·1	+ 0·5	6·2	117·8	4·9	279·5	2·9	93·9	1·2	294·4
April	+ 7·0	− 4·3	− 7·4	− 0·1	+ 3·5	+ 0·1	− 1·2	+ 0·6	8·2	121·6	7·4	269·2	3·5	88·4	1·3	296·6
May	+ 6·7	− 5·7	− 7·5	+ 0·3	+ 2·1	− 0·4	− 0·7	+ 0·4	8·8	130·4	7·5	272·3	2·1	100·8	0·8	299·7
June	+ 5·0	− 7·5	− 8·4	− 0·3	+ 1·0	− 0·3	− 0·8	− 0·1	9·0	146·3	8·4	268·0	1·0	106·7	0·8	262·9
July	+ 5·9	− 4·8	− 7·4	− 0·6	+ 1·8	+ 0·4	− 0·4	+ 0·2	7·6	129·1	7·4	265·4	1·8	77·5	0·4	296·6
August	+ 3·6	− 4·7	− 6·8	+ 0·3	+ 3·0	− 0·6	− 0·8	− 0·1	5·9	142·6	6·8	272·5	3·1	101·3	0·8	262·9
September	+ 2·9	− 5·3	− 5·5	+ 0·5	+ 2·2	− 0·6	− 0·8	+ 0·7	6·0	151·3	5·5	275·2	2·3	105·3	1·0	311·2
October ...	+ 0·9	− 7·1	− 3·7	− 0·3	+ 2·2	+ 0·4	− 1·1	+ 0·7	7·2	172·8	3·7	265·4	2·2	79·7	1·3	302·5
November.	+ 0·9	− 4·8	− 2·5	− 0·2	+ 1·7	− 0·4	− 0·8	+ 0·6	4·8	169·4	2·5	265·4	1·8	103·2	1·0	306·9
December .	+ 2·1	− 5·3	− 1·8	+ 0·9	+ 0·7	− 1·0	− 0·3	+ 0·2	5·7	158·4	2·0	296·6	1·2	145·0	0·3	303·7
For the Eleven Months	+ 3·9	− 5·1	− 5·3	+ 0·1	+ 2·1	− 0·2	− 0·8	+ 0·3	6·4	142·6	5·3	271·1	2·1	95·4	0·8	290·6

TABLE A XVII.—DAILY MEAN VALUE OF THE BASE-LINE OF THE DECLINATION MAGNETOGRAMS, at ABINGER MAGNETIC STATION.

Day.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	13. 9·2	13. 3·2	13. 3·3	13. 4·9	13. 5·4	13. 5·0	13. —	13. 5·8	12. 42·2
2	9·5	—	4·0	5·0	5·4	5·5	7·4	5·5	42·1
3	9·4	—	—	4·8	5·3	5·4	6·1	5·6	41·6
4	8·8	4·1	4·1	4·5	5·2	5·0	5·7	5·5	41·7
5	—	4·1	3·5	5·1	5·5	4·6	6·1	5·8	41·2
6	7·9	3·7	2·5	5·6	5·8	4·0	6·4	5·4	41·5
7	8·0	4·1	2·7	4·8	5·3	3·6	5·6	4·8	41·3
8	7·3	3·9	3·5	5·0	5·2	3·5	5·8	5·0	41·5
9	7·3	—	5·5	4·8	5·3	3·5	5·6	3·8	42·1
10	7·2	—	4·8	5·1	5·3	2·9	5·8	1·8	42·2
11	—	—	4·9	5·1	5·0	3·0	3·1	1·2	41·8
12	—	2·9	4·8	5·6	5·4	2·8	—	0·2	41·9
								12. 42·7	
13	—	3·4	4·2	5·4	5·4	3·2	4·7	45·0	41·8
14	6·0	3·1	—	4·8	5·2	2·8	5·3	44·8	41·4
15	7·0	—	4·6	4·3	5·1	—	4·3	44·1	40·6
16	6·3	2·9	4·3	4·3	5·2	3·0	3·8	44·1	40·5
17	5·2	—	4·6	4·9	4·9	2·9	4·1	44·3	40·6
18	5·5	1·4	5·2	4·5	5·0	3·5	4·5	44·0	40·9
19	—	1·6	4·9	4·5	4·8	2·8	4·4	43·7	41·1
20	5·1	1·8	4·8	4·8	5·0	3·2	4·4	43·5	41·3
21	5·0	2·4	5·2	3·9	5·4	3·2	4·7	43·4	41·3
22	4·5	2·8	4·6	3·6	5·5	3·0	5·1	43·5	41·2
23	5·0	—	4·4	(3·3)	5·6	3·3	5·0	43·3	41·5
24	4·7	—	4·3	(3·4)	5·9	2·6	5·6	43·2	40·9
25	4·0	2·8	4·1	2·7	5·5	—	5·0	43·3	40·8
26	—	2·9	3·9	3·4	5·6	2·6	5·0	42·7	40·6
								42·5	
27	—	—	4·1	5·1	5·9	2·2	5·4	41·7	41·3
28	3·4	—	3·8	5·0	5·3	2·1	5·1	41·7	41·4
29	2·8	3·2	4·1	5·4	—	2·1	5·2	41·8	41·9
30	—	—	4·3	5·6	—	2·7	5·3	42·0	42·2
31		—		5·4	—		5·5		42·6

NOTE.—During the months April and May the value of the base-lines was determined from absolute observations made at Greenwich to which a correction of + 12′·8 for station difference was applied.

TABLE A XVIII.—RESULTS OF DETERMINATIONS of the ABSOLUTE VALUE of HORIZONTAL FORCE from OBSERVATIONS made with the MAGNETOMETER CASELLA 181 in the MAGNETIC PAVILION at ABINGER, with the DEDUCED VALUES of the BASE-LINE of the HORIZONTAL FORCE MAGNETOGRAMS.

Greenwich Mean Time, 1925.	Observed Horizontal Force.	Base Line.
	h m h m	γ	γ
Jan. 1.	9 39–10 28	18603	18304
2.	9 32–10 24	18590	18300
3.	9 39–10 25	18612	—
5.	9 24–10 20	18603	18306
7.	14 34–15 22	18601	—
8.	11 0–12 45	18601	—
9.	11 49–12 43	18601	18624
12.	9 37–10 23	18589	18610
15.	10 25–11 30	18572	18616
15.	14 51–15 49	18609	18625
16.	11 41–12 42	18601	—
19.	10 14–11 22	18582	—
20.	11 23–12 11	18570	—
22.	10 8–10 59	18595	18573
23.	10 24–11 3	18592	18587
24.	11 38–12 27	18587	18663
26.	10 17–11 8	18596	18658
27.	10 38–11 37	18578	18650
28.	11 26–12 6	18582	18657
29.	11 29–12 26	18588	18667
30.	11 12–11 58	18587	18662
Feb. 3.	10 20–11 28	18597	18685
4.	12 2–12 52	18600	18689
5.	9 31–10 21	18596	18684
6.	11 37–12 36	18605	18739
7.	9 18–10 4	18604	18736
9.	9 31–10 15	18599	18723
10.	11 0–12 0	18577	18722
11.	9 19–10 7	18584	18721
12.	10 11–11 10	18593	18718
13.	10 3–11 9	18584	18722
14.	9 23–10 7	18595	18721
16.	10 8–11 7	18584	18721
*17.	14 37–15 58	18596	18722
18.	10 20–11 17	18595	18733
19.	9 48–11 1	18595	18731
20.	10 16–11 12	18585	18666
21.	9 49–11 1	18599	18671
23.	11 22–12 26	18587	18663
24.	10 20–11 32	18588	18669
25.	9 56–11 3	18589	—
25.	14 43–15 44	18598	18703
26.	9 23–10 26	18601	18711
27.	9 52–10 49	18589	18701
27.	14 18–15 20	18608	18707
28.	9 19–10 16	18603	18701
Mar. 2.	10 8–11 12	18592	18699
2.	14 39–15 41	18603	18698
3.	10 56–12 10	18604	18710
3.	13 54–14 42	18611	18706
4.	9 41–10 54	18589	18696
5.	9 56–10 59	18581	18698
6.	9 45–11 0	18584	18695
Mar. 7.	9 50–10 45	18592	18701
9.	9 45–10 59	18601	(18704)
9.	11 44–12 40	18595	(18689)
10.	9 43–10 57	18586	18694
11.	9 41–10 52	18588	18693
12.	9 43–10 46	18590	18698
12.	12 9–12 59	18588	18696
13.	10 20–11 16	18584	18692
14.	10 13–11 1	18572	18681
16.	10 42–11 48	18584	18701
17.	9 31–10 25	18581	18686
18.	9 47–10 35	18588	18694
19.	9 11–10 1	18592	18695
20.	9 51–10 33	18601	—
20.	11 3–11 44	18585	18569
21.	9 29–10 19	18583	18567
23.	11 50–12 26	18590	18575
24.	10 57–11 39	18586	18571
25.	10 30–11 30	18596	18577
26.	10 57–11 43	18608	18763
27.	11 12–11 56	18594	18751
28.	10 28–11 7	18587	18743
30.	11 43–12 22	18584	18749
31.	9 35–10 27	18597	—
Apr. 1.	10 15–10 57	18588	18748
1.	12 19–12 55	18598	18755
2.	14 46–15 36	18604	18774
3.	11 2–11 39	18560	18769
4.	10 43–11 27	18574	18768
6.	11 39–12 21	18592	18777
7.	10 39–11 18	18583	18780
8.	10 15–10 58	18572	18776
9.	10 20–10 57	18585	18787
10.	9 36–10 19	18561	18774
11.	10 25–11 1	18568	18778
14.	10 0–10 40	18564	18773
15.	10 32–11 15	18568	18765
16.	10 12–10 50	18562	18780
17.	11 54–12 34	18595	18787
18.	10 17–10 55	18578	18773
20.	11 31–12 6	18561	18761
21.	10 34–11 26	18574	18775
22.	8 51– 9 32	18576	18773
23.	9 12– 9 55	18581	18771
24.	8 54– 9 39	18586	18777
25.	8 39– 9 21	18590	18773
27.	10 29–11 13	18587	18796
27.	13 15–14 3	18592	18793
28.	9 20–10 6	18589	18789
28.	11 34–12 21	18587	18790
29.	8 36– 9 15	18595	18790
30.	10 33–11 24	18589	—
May 1.	9 2–10 0	18584	18794
2.	8 18– 9 1	18591	18795
5.	10 24–11 22	18569	18795
6.	9 44–10 35	18566	18794
7.	13 35–14 24	18597	18797
9.	8 42– 9 47	18568	18792
11.	10 55–11 45	18558	18786
May 12.	9 2– 9 51	18580	18801
13.	9 58–10 47	18579	18798
14.	11 39–12 19	18595	18804
16.	6 48– 7 34	18600	18796
18.	9 30–10 21	18601	18776
19.	9 21–10 13	18593	18780
20.	10 6–10 50	18591	18779
21.	8 43– 9 30	18589	18773
25.	11 1–12 0	18591	18773
27.	13 28–14 19	18611	18779
30.	9 15– 9 50	18584	18779
June 1.	8 0– 8 53	18572	18771
4.	9 1– 9 45	18578	18774
5.	8 35– 9 15	18575	18766
6.	9 20–10 8	18589	18773
8.	9 1– 9 56	18577	18768
10.	9 27–10 28	18581	18800
11.	13 18–14 8	18596	18622
12.	9 16–10 9	18595	18620
13.	9 1– 9 59	18559	18608
15.	13 52–14 36	18603	18618
17.	8 34– 9 41	18574	18606
18.	9 17–10 23	18589	18621
19.	9 27–10 23	18575	18617
20.	10 2–10 49	18567	18611
22.	14 10–15 4	18647	(18634)
25.	8 38– 9 13	18559	18617
26.	11 18–12 9	18579	18632
30.	9 43–10 33	18592	18622
July 2.	8 45– 9 43	18573	18617
3.	9 12– 9 56	18568	18611
4.	8 53– 9 43	18576	18611
8.	10 30–11 17	18602	18630
9.	10 42–11 22	18584	18615
10.	8 46– 9 28	18607	18617
14.	9 35–10 22	18604	18621
15.	9 28–10 12	18568	18618
16.	8 28– 9 17	18589	18617
17.	8 28– 9 25	18591	18615
18.	10 23–11 2	18612	18626
20.	10 26–11 26	18568	18618
21.	14 45–15 32	18623	18623
24.	9 17–10 6	18597	18632
25.	9 57–10 37	18569	18609
27.	13 43–14 48	18592	18607
29.	8 56– 9 53	18580	18623
29.	13 24–14 19	18595	18617
30.	8 58– 9 45	18579	18620
Aug. 1.	9 42–10 25	18574	18619
4.	10 40–11 28	18590	18616
6.	9 24–10 21	18580	18621
7.	10 36–11 33	18554	18617
10.	8 44– 9 41	18566	18616
11.	10 4–10 53	18573	18618
12.	9 19–10 0	18578	18621
13.	8 48– 9 32	18576	18624
14.	8 58– 9 58	18594	18624
17.	10 16–11 1	18586	18622
18.	10 35–11 18	18573	18614
19.	10 12–11 4	18587	18619

* NOTE.—From February 17 to March 11 the magnet Elliott 37 was in use during the absence of the ordinary magnet for repairs.

TABLE A XVIII.—RESULTS OF DETERMINATIONS of the ABSOLUTE VALUE of HORIZONTAL FORCE from OBSERVATIONS made with the MAGNETOMETER CASELLA 181 in the MAGNETIC PAVILION at ABINGER, with the DEDUCED VALUES of the BASE-LINE of the HORIZONTAL FORCE MAGNETOGRAMS—*continued.*

Greenwich Mean Time, 1925.	Observed Horizontal Force.	Base Line.
	γ	γ
Aug. 20. 9 17–10 13	18566	18619
22. 9 33–10 21	18575	18623
24. 10 43–11 45	18555	18620
25. 10 8–11 6	18564	18621
27. 9 14–10 2	18563	18618
28. 10 17–11 14	18570	18623
31. 10 47–11 29	18565	18624
Sept. 2. 13 20–14 0	18589	18625
4. 10 30–11 12	18561	18620
7. 10 44–11 37	18580	18626
10. 9 15–10 2	18568	18621
11. 9 31–10 13	18576	18626
12. 10 3–10 41	18580	18637
14. 13 44–14 39	18576	18630
15. 9 26–10 11	18546	18627
16. 10 22–11 10	18524	18627
18. 9 6– 9 54	18556	18619
19. 9 25–10 2	18574	18629
21. 14 43–15 27	18551	18625
22. 9 39–10 19	18559	18640
23. 10 24–11 4	18550	18627
24. 10 6–11 1	18526	18624
25. 10 37–11 37	18560	18627
28. 14 1–14 50	18593	18632
29. 9 45–10 23	18572	18627
Oct. 1. 14 11–14 58	18605	18662
2. 10 57–11 41	18562	18648
3. 8 33– 9 9	18572	18644
5. 14 18–15 15	18577	18651
Oct. 7. 10 32–11 33	18580	18654
8. 9 35–10 30	18572	18639
9. 10 1–10 45	18570	18642
10. 10 6–10 58	18569	18645
13. 9 56–10 53	18551	18645
14. 16 0–16 40	18579	18643
15. 11 24–12 12	18566	18649
16. 15 23–16 11	18578	18646
17. 9 27–10 2	18561	18644
19. 14 36–15 13	18581	18648
20. 14 12–14 56	18586	18653
22. 12 12–12 52	18562	18648
24. 9 50–10 43	18546	18646
27. 15 5–15 54	18600	18658
28. 9 23–10 16	18573	18649
29. 10 19–11 0	18569	18649
30. 10 26–11 29	18569	18651
31. 9 32–10 21	18585	18648
Nov. 2. 14 32–15 22	18596	18654
3. 14 41–15 25	18590	18651
4. 11 16–11 58	18545	18647
5. 14 28–15 25	18589	18649
6. 10 58–12 5	18579	18656
9. 10 57–12 3	18557	18651
10. 11 15–12 13	18553	18649
12. 10 2–11 30	18560	18654
13. 14 27–15 44	18579	18582
14. 9 51–10 52	18565	18573
16. 11 10–12 7	18561	18574
17. 9 57–11 0	18553	18580
Nov. 18. 10 39–11 22	18569	18582
19. 9 43–10 30	18564	18574
20. 9 55–10 44	18574	18574
23. 14 8–14 51	18591	18583
24. 10 56–11 47	18594	18584
25. 12 9–12 53	18593	18580
26. 10 42–11 28	18595	18588
27. 14 45–15 28	18590	18560
28. 10 14–11 16	18592	18564
28. 11 59–12 38	18589	18560
30. 10 10–10 56	18590	18557
Dec. 1. 10 32–11 25	18580	18557
2. 11 30–12 10	18585	18557
4. 14 37–15 18	18612	18561
5. 10 1–10 45	18594	18558
7. 11 44–12 33	18556	18557
9. 14 56–15 45	18588	18560
10. 10 43–11 41	18592	18568
11. 14 42–15 25	18591	18557
14. 10 17–11 0	18590	18554
15. 9 49–10 36	18578	18552
17. 9 44–10 45	18597	18562
18. 10 2–10 51	18595	18556
21. 10 9–11 4	18583	18553
23. 10 11–10 58	18577	18554
24. 10 32–11 14	18583	18555
28. 14 28–15 25	18559	18556
29. 10 39–11 43	18565	18551
30. 10 49–11 44	18562	18549

TABLE A XIX.—DAILY MEAN VALUE of the BASE-LINE of the VERTICAL FORCE MAGNETOGRAMS at ABINGER MAGNETIC STATION, deduced from OBSERVATIONS of MAGNETIC DIP made with the DIP INDUCTOR.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1		—	43040	43080	42865	42878	43009	43060	43084	42990	—	43048
2		—	43026	43062	42852	—	43035	43080	43088	42998	43033	43050
3		43037	43030	43071	—	—	43046	43058	43068	42973	43070	43050
4		42971	43028	43065	42836	—	43050	43052	43083	43010	43019	43049
5		42990	43015	43074	42852	—	43049	43069	43085	42994	43044	43036
6		42988	43003	43060	42860	43008	43073	43053	43064	42972	43057	43049
7		42981	43026	43064	42842	43029	43046	43057	43075	43009	43046	43035
8		—	43008	43064	42886	43056	—	43087	43077	43020	43045	43051
9	43036	42988	43025	43072	42864	43079	43122	—	43080	43023	43048	43047
10	—	42981	43024	43084	42864	43087	43111	43072	43068	43009	43049	43063
11	—	42984	43041	43087	42869	43087	43122	43054	43102	—	43066	43052
12	43045	42977	43015	43058	42848	43081	—	43030	43005	43037	43034	43056
13	—	42985	43019	43083	42870	43104	43091	43074	43038	43039	43069	—
14	—	42974	43004	43061	42864	—	43071	43055	42995	43028	43064	43059
15	43004	42990	42991	43085	42851	43110	43051	43043	—	43023	43079	43045
16	—	42990	43021	43092	—	43117	43061	43097	43011	43034	43040	43040
17	—	42990	43020	43096	—	43138	43099	43052	43011	43026	43058	43045
18	—	42998	43030	43094	42868	43109	43085	43073	43007	—	43044	43042
19	—	42986	43035	—	42861	43127	43068	43069	43005	43036	43040	43042
20	—	42975	43010	43108	42877	—	43047	43069	43022	43029	43047	—
21	—	43006	43032	43091	42880	—	43051	43041	43000	43037	43043	43053
22	43015	—	—	43104	42880	43099	43044	43071	(42975)	43039	—	43037
23	42986	43000	43023	43099	42867	43017	43069	43057	43006	43042	43070	43024
24	42982	43010	43034	43105	—	43034	43082	43062	43023	43044	43059	43035
25	—	43016	43025	43091	42855	43048	43074	43052	43026	—	43050	43038
26	43011	43016	43031	43099	42874	43011	43056	43066	43030	43046	43050	43070
27	42999	43021	43048	43099	42889	43065	43059	43068	—	43034	43042	43049
28	42996	43013	43035	43102	—	43054	43057	43076	43014	43068	43040	43047
29	42985		43053	43109	42881	43062	43057	43076	42998	43027	43047	43046
30	42986		43052	—	42856	43055	43056	43054	43043	43050	43050	43042
31	42995		43057		—		43059	43055		43014		43041

TABLE A XX.—ANNUAL SUMMARY of the MAGNETIC ELEMENTS AT ABINGER MAGNETIC STATION.

Month. 1925.	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.	Horizontal Force.	Vertical Force.	Declination.	Horizontal Force.	Vertical Force.
	° ′		° ′				′			′		
February.....	13. [28·1]	·18599	66. 34·6	·04332	·18088	·42931	...	15γ	13γ	...	79γ	78γ
March	13. [27·5]	·18603	34·3	·04329	·18092	·42931	...	24	22	...	138	102
April	13. [25·6]	·18600	34·5	·04319	·18091	·42931	10·1	34	30	47·5	205	140
May	13. 23·6	·18602	34·7	·04309	·18096	·42942	9·4	32	32	45·8	196	147
June	13. 22·6	·18603	35·2	·04303	·18098	·42961	10·0	44	32	57·4	270	167
July.....	13. 22·0	·18606	35·1	·04301	·18102	·42964	9·9	39	29	54·2	245	137
August	13. 21·0	·18597	35·4	·04294	·18094	·42953	10·7	45	24	54·4	276	127
September ...	13. 19·6	·18586	35·6	·04284	·18086	·42938	9·1	33	22	50·7	224	114
October	13. 18·9	·18581	36·5	·04280	·18082	·42954	8·5	30	19	50·4	179	122
November ...	13. 18·1	·18589	36·0	·04277	·18090	·42958	6·4	24	14	36·4	129	84
December ...	13. 17·2	·18590	35·9	·04273	·18093	·42956	5·3	17	14	31·0	88	93
Mean Feb.–Nov. (1925·5)	13. 22·7	·18597	66. 35·1	·04303	·18092	·42946	...	...	...	...	...	...

NOTE.—For the months February to April the mean value of Declination is derived from the Greenwich Magnetograms, by applying + 12′·8 for station difference.

ROYAL OBSERVATORY, GREENWICH

Magnetic Disturbances

1925

GREENWICH

MAGNETICAL AND METEOROLOGICAL RESULTS 1925

MAGNETIC DISTURBANCES IN DECLINATION, NORTH FORCE, and VERTICAL FORCE, recorded at the ROYAL OBSERVATORY, GREENWICH, in the Year 1925.

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 Mean Time (commencing at midnight, and counting the hours from 0 to 24).

1925.

January

5^d 1^h to $1\frac{1}{2}^h$ Decrease in Dec. (−3′). $5\frac{1}{4}^h$ to $6\frac{1}{4}^h$ Wave in Dec. (+3′). $5\frac{1}{2}^h$ to $7\frac{1}{2}^h$ Wave in N.F. (+35)

7^d 20^h to 21^h Wave in N.F. (+20).

13^d $22\frac{1}{2}^h$ Decrease in Dec. (−3′), returning gradually till $23\frac{3}{4}^h$.

16^d $19\frac{1}{2}^h$ to 20^h Rapid decrease in Dec. (−15′), followed till $20\frac{1}{2}^h$ by a wave (+4′), and then by an irregular increase (+10′) till 23^h. $21\frac{1}{4}^h$ to $22\frac{1}{2}^h$ Domed wave in N.F. (−30). 20^h to $20\frac{1}{2}^h$ Increase in V.F. (+20).

17^d 2^h to 3^h Wave in N.F. (+25). 2^h to $2\frac{2}{3}^h$ Wave in Dec. (+6′). $2\frac{1}{3}^h$ to $2\frac{2}{3}^h$ Decrease in V.F. (−15). 3^h to 4^h Wave in Dec. (−6′). 4^h to $5\frac{2}{3}^h$ General decrease in V.F. (−20). $5\frac{1}{2}^h$ to $5\frac{3}{4}^h$ Rapid decrease in Dec. (−8′). $5\frac{2}{3}^h$ to $6\frac{2}{3}^h$ Decrease in N.F. (−40). $5\frac{2}{3}^h$ to 9^h Increase in V.F. (+35). $21\frac{1}{4}^h$ to $22\frac{3}{4}^h$ Flattened wave in Dec. (−4′).

18^d $15\frac{3}{4}^h$ to $17\frac{1}{4}^h$ Wave in Dec. (−6′). 20^h to $21\frac{1}{4}^h$ Wave in Dec. (−9′). 21^h to $21\frac{1}{2}^h$ Accelerated decrease in N.F. (−40). 22^h to $23\frac{2}{3}^h$ Serrated wave in Dec. (−4′).

19^d $0\frac{1}{2}^h$ to $2\frac{1}{2}^h$ Two consecutive waves in N.F. (+25). 13^h to 19^h General increase in V.F. (+50). $14\frac{1}{3}^h$ to 16^h Wave in N.F. (−40). 15^h to 16^h Wave in Dec. (−10′). 16^h to $16\frac{3}{4}^h$ Double-crested wave in N.F. (−25). $16\frac{1}{4}^h$ to 17^h Wave in Dec. (−5′). 17^h to 18^h Double-crested wave in N.F. (−20). 17^h to $21\frac{1}{4}^h$ General decrease in Dec. (−16′), with several oscillations, the principal of which occurred between 19^h and 20^h. 19^h to $19\frac{3}{4}^h$ Two consecutive waves in N.F. (−25, −20). 20^h to 20^d $1\frac{2}{3}^h$ Fluctuating decrease in V.F. (−80). $21\frac{1}{4}^h$ to $22\frac{1}{2}^h$ Double wave in Dec. (±7′), followed immediately till 24^h by a serrated wave (−10′). $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Wave in N.F. (+30). $23\frac{2}{3}^h$ to 20^d $0\frac{2}{3}^h$ Increase in N.F. (+50).

20^d 0^h to 2^h Irregular double wave in Dec. (∓7′), followed till $4\frac{1}{3}^h$ by an increase (+8′). 1^h to 3^h Two consecutive waves in N.F. (+25, +20). $1\frac{2}{3}^h$ to 8^h Increase in V.F. (+50). 8^h to 9^h Decrease in Dec. (−5′). $18\frac{2}{3}^h$ to $20\frac{1}{4}^h$ Wave in Dec. (−3′).

21^d $18\frac{3}{4}^h$ to $20\frac{1}{2}^h$ Wave in Dec. (−6′). 19^h to $20\frac{1}{4}^h$ Wave in N.F. (+25).

23^d 15^h to 18^h Slow wave in N.F. (−30). 21^h to 24^h Three consecutive waves in Dec. (−5′, −8′, −3′). 21^h to 22^h Truncated wave in N.F. (−20).

30^d $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Wave in Dec. (−4′), with wave in N.F. (+20).

February

1^d $12\frac{1}{2}^h$ Very sharp wave in Dec. (+3′), and N.F. (+20). $21\frac{1}{4}^h$ to 22^h Wave in Dec. (−3′). $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Wave in Dec. (−5′). $22\frac{1}{2}^h$ to 24^h Wave in N.F. (+25).

7^d 22^h to $22\frac{1}{2}^h$ Double wave in N.F. (±15).

8^d 22^h to $22\frac{2}{3}^h$ Wave in Dec. (−4′). $23\frac{1}{3}^h$ to 9^d 1^h Wave in N.F. (+50). $23\frac{1}{3}^h$ to $23\frac{2}{3}^h$ Rapid decrease in Dec. (−12′), followed by a fluctuating increase till 9^d 2^h (+13′).

9^d 2^h to 3^h Wave in Dec. (−4′). 5^h to $6\frac{1}{4}^h$ Increase in Dec. (+13′.) $6\frac{2}{3}^h$ to $7\frac{1}{3}^h$ Wave in Dec. (−3′). $7\frac{3}{4}^h$ to $8\frac{1}{4}^h$ Increase in N.F. (+30). $11\frac{1}{2}^h$ to 12^h Wave in Dec. (+3′). $19\frac{3}{4}^h$ to $20\frac{3}{4}^h$ Wave in Dec. (−6′). 20^h to $20\frac{1}{4}^h$ Increase in N.F. (+20).

February

10d 22⅔h to 23⅓h Wave in Dec. (−3′).

12d 19⅔h to 21h Wave in Dec. (−4′). 17¾h to 19h Increase in N.F. (+30).

13d 20⅔h to 22½h Wave in Dec. (−5′).

14d 20¼h to 21½h Wave in Dec. (−4′). 20⅓h to 21¼h Wave in N.F. (+20).

16d 20h to 22¼h Slow wave in Dec. (−4′). 22h to 22¾h Wave in N.F. (+20). 22⅓h to 23½h Wave in Dec. (−5′).

17d 20½h to 21¾h Wave in Dec. (−3′). 22⅓h to 23⅓h Wave in Dec. (−4′). 22½h to 24h Wave in N.F. (+25).

19d 0⅓h to 1⅓h Wave in Dec. (−3′).

24d 21½h to 22½h Double wave in Dec. (±3′). 21½ to 22⅓h Wave in N.F. (−20). 23h to 24h Increase in Dec. (+4′).

25d 2h to 3½h Flattened wave in Dec. (+3′). 2¼h to 3h Increase in N.F. (+20).

28d 22½h to 23½h Wave in Dec. (−4′).

March

1d 4¼h to 5¾h Wave in Dec. (+5′). 4¾h to 6¼h Wave in N.F. (+40), with partial return (−20). 13⅔h to 14h Decrease in Dec. (−3′). 13⅔h to 14h Decrease in N.F. (−20), followed till 15½h by an increase (+35). 20¾h to 22h Wave in N.F. (−20).

5d 2½h to 3½h Wave in Dec. (+5′). 2½h to 4h Wave in N.F. (+20).

6d 2⅔h to 4h Wave in Dec. (+4′).

9d 5h to 6⅓h Wave in N.F. (+20) with rapid decline. 19h to 20h Wave in N.F. (+50). 19h to 19½h Wave in Dec. (−4′). 21½h to 22h Rapid increase in N.F. (+35), returning irregularly till 24h.

10d 1½h to 2½h Wave in Dec. (+3′). 1½h to 3h Wave in N.F. (+25). 16h to 18h Wave in Dec. (−9′). 16½h to 16¾h Increase in N.F. (+30). 21⅔h to 22⅔h Wave in N.F. (+25).

11d 0h to 1h Increase in Dec. (+4′). 4h to 5h Decrease in Dec. (−5′).

12d 18¾h to 20¼h Wave in Dec. (−3′).

13d 21h to 22½h Wave in Dec. (−3′).

15d 10¾h to 11½h Decrease in N.F. (−30). 11½h to 12¼h Wave in N.F. (−20). 12h to 12½h Increase in Dec. (+5′). 13½h to 15h Wave in N.F. (−40). 14h to 14⅔h Decrease in Dec. (−5′). 20¾h to 22½h Two consecutive waves in Dec. (−5′). 20¾h to 21¼h Rapid increase in N.F. (+45), followed till 22½h by a fluctuating return.

24d 15⅓h to 15½h Sharp wave in Dec. (+3′), and in N.F. (+20).

26d 16h to 16⅓h Wave in V.F. (+15).

27d 21h to 22½h Wave in Dec. (−5′).

29d 23½h to 30d 1¼h Wave in Dec. (−3′).

April

2d 16½h to 17h Wave in N.F. (+25). 21¾h to 22¼h Decrease in Dec. (−4′).

3d 1h to 1½h Wave in Dec. (+3′). 2h to 2½h Wave in Dec. (+3′). 14h to 15½h Serrated wave in N.F. (−25).

5d 2h to 3½h Wave in Dec. (+3′). 23½h to 24h Wave in Dec. (+3′).

6d 17¾h to 19h Wave in Dec. (−7′). 18h to 19h Wave in N.F. (+40), with partial return (−20). 21¼h to 22h Wave in N.F. (+35). 22h to 23½h Wave in Dec. (−5′).

7d 0⅓h to 2h Wave in Dec. (+5′), followed till 3¾h by an increase (+7′). 3h to 4½h Wave in N.F. (−20). 4¾h to 5¾h Wave in Dec. (−3′). 19½h to 20½h Wave in N.F. (+25).

8d 1½h to 3h Wave in Dec. (+7′), with steep ascent. 1⅔h to 2h Decrease in V.F. (−12).

9d 20⅔h to 21¾h Two consecutive waves in Dec. (−5′, −4′). 20¾h to 22h Wave in N.F. with steep ascent. 21h to 22h Decrease in V.F. (−15). 23½h to 10d 1½h Double wave in Dec. (−6′, +3′).

10d 0⅓h to 1½h Wave in N.F. (−35). 1h to 3h Decrease in V.F. (−20). 1⅔h to 2¼h Wave in Dec. (−5′). 1½h to 3h Decrease in N.F. (−60), followed till 4h by an increase (+40). 3h to 3⅔h Increase in Dec. (+3′). 3h to 8h Increase in V.F. (+30). 19½h to 21¼h Truncated wave in Dec. (−5′). 19¾h to 21h Irregular wave in N.F. (+25). 22⅔h to 24h Wave in Dec. (+9′). 23h to 23½h Decrease in V.F. (−15).

April

11d 2h to 3⅓h Wave in N.F. (−25). 2h to 2⅔h Increase in Dec. (+7′). 20h to 21h Wave in Dec. (−4′). 22¾h to 23¾h Wave in Dec. (+3′).

12d 1½h to 3½h Wave in Dec. (+4′). 15¾h to 16h Increase in N.F. (+20). 18h to 19h Wave in N.F. (−20). 18¼h to 20h Wave in Dec. (−4′).

14d 11½h to 15d 11½h No record of V.F.

15d 12h to 19h Steady increase in V.F. (+55). 19h to 21h Decrease in V.F. (−20). 19½h to 19¾h Several small, but sharply distinct oscillations superposed on a wave in Dec. (+5′). 20h to 20½h Decrease in Dec. (−7′). 20h to 21⅓h Wave in N.F. (+40). 20½h to 21½h Domed wave in Dec. (+4′). 22h to 23h Increase in Dec. (+6′).

16d 0h to 1¾h Wave in Dec. (+6′).

18d 20¾h to 21½h Wave in N.F. (+20).

20d 9h to 12h Oscillating increase in Dec. (+13′). 12h to 12¾h Domed wave in Dec. (−3′). 11¾h to 12¾h Wave in N.F. (−35). 20h to 22h Wave in Dec. (−9′).

21d 1¾h to 3½h Flattened wave in Dec. (+5′).

26d 15h to 15½h Decrease in Dec. (−3′).

27d 15h Sudden increase in N.F. (+25). 18h to 18⅔h Wave in N.F. (+25). 18h to 19h Wave in Dec. (−5′).

29d 0h to 1¼h Wave in N.F. (+20). 0½h to 1¾h Wave in Dec. (−4′). 4¼h to 4¾h Wave in Dec. (+3′).

May

3d 22½h Sharp movement in N.F. (+20).

4d 0h to 24h See Plate I.

5d 1¼h to 2¼h Wave in N.F. (−20). 1⅓h to 2h Wave in Dec. (+3′). 9½h to 10½h Wave in N.F. (−25) 22h to 22½h Increase in Dec. (+6′).

7d 23⅔h to 24h Increase in Dec. (+5′).

8d 2h to 3⅓h Decrease in N.F. (−30).

9d 0⅔h to 2¼h Flattened wave in Dec. (+3′). 17⅓h to 17⅔h Increase in N.F. (+25). 18¼h to 20h Wave in Dec. (−7′). 19¼h to 19¾h Decrease in N.F. (−20). 22¾h to 23¾h Wave in Dec. (+3′).

18d 1¾h to 3½h Irregular wave in Dec. (+5′). 23¼h to 19d 0⅓h Wave in N.F. (+20).

19d 1½h to 2½h Wave in Dec. (+7′). 1¾h to 2½h Wave in N.F. (+20). 1⅔h to 4h Wave in V.F. (−15). 15h to 16h Increase in N.F. (+30).

24d 22¾h to 23¼h Wave in Dec. (+3′).

25d 4½h to 5¾h Wave in Dec. (+3′). 4¾h to 5⅓h Increase in N.F. (+20).

27d 23⅔h to 28d 0¼h Wave in Dec. (−5′), with partial return. 23h to 28d 1h Decrease in V.F. (−15).

28d 0⅓h to 1½h Domed wave in Dec. (−6′). 1⅔h to 2⅓h Wave in Dec. (+3′). 1⅓h to 2½h Wave in N.F. (−20). 2⅔h to 3½h Wave in N.F. (−25). 2¾h to 3¾h Sharp wave in Dec. (+12′). 3¼h to 3½h Rapid decrease in V.F. (−25), followed till 7h by a steady increase (+40). 4h to 4¾h Decrease in N.F. (−25) and increase in Dec. (+6′). 6h to 6¾h Increase in Dec. (+3′). 18½h to 19½h Wave in Dec. (−3′). 23h to 29d 0⅓h Wave in N.F. (+20).

30d 0h to 3½h Two consecutive waves in Dec. (+7′, +5′). 1½h to 2½h Wave in N.F. (−20). 13h to 18½h Increase in V.F. (+60), followed till 23½h by a steady decrease (−45), and a further accelerated decrease till 24h (−25). 17¼h to 19h Double wave in N.F. (−40, +30). 17½h to 18¼h Rapid decrease in Dec. (−12′), returning irregularly till 20h (+8′). 19½h to 20h Wave in N.F. (+20). 23h to 24h Wave in Dec. (+7′). 23¾h to 31d 2h Two consecutive waves in N.F. (+30).

31d 0½h to 2h Domed wave in Dec. (−7′). 4h to 4¼h Decrease in N.F. (−20). 3¾h to 4½h Increase in Dec. (+4′). 16h to 16¾h Increase in N.F. (+35). 17⅓h to 18h Wave in N.F. (+30). 23½h to June 1d 2h Slow wave in Dec. (+4′).

June

1d 12h to 12½h Wave in N.F. (−20). 14½h to 16h Increase in N.F. (+65). 16h to 17½h Truncated wave in N.F. (−30).

2d 17¼h to 18¼h Wave in N.F. (−25). 22h to 24h Three consecutive waves in Dec., the first being the greatest (+3′). 22h to 23⅔h Wave in N.F. (+35).

3d 0½h to 0¾h Accelerated decrease in N.F. (−30). 0⅔h to 1h Increase in Dec. (+5′). 4¾h to 6h Increase in Dec. (+7′). 14½h to 15⅓h Wave in N.F. (+30). 15¾h to 17h Wave in N.F. (+25). 18½h to 18¾h Increase in N.F. (+25). 20h to 21⅓h Decrease in N.F. (−40). 21¼h to 22h Wave in Dec. (−3′).

June

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

$6^d\ 13^h$ to $16\frac{1}{4}^h$ Wave in N.F. (+55), with a second wave superposed from $14\frac{1}{2}^h$ to 15^h (−20). $13\frac{1}{2}^h$ to $15\frac{3}{4}^h$ Increase in V.F. (+25). $14\frac{1}{2}^h$ to 16^h Domed wave in Dec. (−5′). $18\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Domed wave in N.F. (+25).

$11^d\ 22\frac{3}{4}^h$ to $23\frac{3}{4}^h$ Wave in N.F. (+30).

$13^d\ 0\frac{1}{2}^h$ to 1^h Decrease in Dec. (−4′). 5^h to 18^h Continuous small movements in Dec. and N.F. superposed on the larger movements particularly mentioned. $5\frac{1}{2}^h$ to 8^h General decrease in N.F. (−90). $6\frac{1}{2}^h$ to $7\frac{1}{4}^h$ Wave in Dec. (−4′). $7\frac{3}{4}^h$ to 8^h Rapid increase in Dec. (+6′), continuing into a wave 8^h to $8\frac{3}{4}^h$ (+8′). $8\frac{1}{4}^h$ to $8\frac{1}{2}^h$ Decrease in V.F. (−15). $8\frac{1}{2}^h$ to $9\frac{1}{3}^h$ Wave in N.F. (−20). $9\frac{1}{2}^h$ to $10\frac{1}{2}^h$ Two consecutive waves in N.F. (+25, +20). 11^h to $11\frac{3}{4}^h$ Wave in N.F. (+20). 13^h to 14^h Truncated wave in Dec. (−3′). 13^h to $14\frac{3}{4}^h$ Wave in N.F. (+40), continuing into a further sharp wave till 15^h (−25). 16^h to $16\frac{1}{2}^h$ Serrated wave in N.F. (+40), followed immediately till 18^h by an irregular increase (+70). $21\frac{1}{2}^h$ to $22\frac{1}{4}^h$ Decrease in Dec. (−4′). $22\frac{1}{2}^h$ to $23\frac{1}{2}^h$ Decrease in V.F. (−25). $22\frac{1}{2}^h$ to $14^d\ 1^h$ Irregular wave in Dec. (−7′). $23\frac{1}{4}^h$ to 24^h Decrease in N.F. (−40).

$14^d\ 5\frac{1}{4}^h$ to $6\frac{1}{4}^h$ Wave in Dec. (+5′).

$15^d\ 22\frac{3}{4}^h$ to 24^h Wave in Dec. (+3′).

$16^d\ 16^h$ to $17\frac{1}{4}^h$ Wave in Dec. (−3′). 16^h to $16\frac{1}{2}^h$ Wave in N.F. (−20). 23^h to 24^h Wave in Dec. (+4′). 23^h to $17^d\ 0\frac{1}{2}^h$ Increase in N.F. (+35). 23^h to $17^d\ 2\frac{1}{2}^h$ Slow double-crested wave in V.F. (−20).

$17^d\ 0\frac{1}{4}^h$ to $2\frac{1}{4}^h$ Two consecutive waves in Dec. (−7′, −6′). 3^h to 4^h Domed wave in Dec. (+4′). $4\frac{1}{2}^h$ to $5\frac{1}{2}^h$ Wave in N.F. (−25). 5^h to $6\frac{1}{3}^h$ Double wave in Dec. (+3′, −4′).

$18^d\ 2^h$ to 3^h Wave in Dec. (+3′). $2\frac{1}{4}^h$ to 3^h Decrease in V.F. (−12).

$23^d\ 4\frac{1}{4}^h$ to 6^h Wave in Dec. (+8′). 5^h to $5\frac{1}{2}^h$ Increase in N.F. (+20); decrease in V.F. (−12). $8\frac{3}{4}^h$ to $10\frac{1}{4}^h$ Rapid decrease in N.F. (−60), and increase in Dec (+10′). 12^h to 13^h Wave in N.F. (−30). 14^h to $15\frac{1}{4}^h$ Wave in N.F. (+35). $14\frac{1}{3}^h$ to $14\frac{2}{3}^h$ Increase in V.F. (+20). $15\frac{3}{4}^h$ to 21^h A series of small oscillations in N.F.

$24^d\ 1\frac{2}{3}^h$ to $2\frac{1}{2}^h$ Wave in Dec. (+4′). $3\frac{1}{2}^h$ to 5^h Wave in Dec. (+5′).

$24^d\ 8^h$ to $25^d\ 8^h$. See Plate I.

$25^d\ 13^h$ to 21^h Slow wave in V.F. (+35). 13^h to $14\frac{1}{2}^h$ Accelerated increase in N.F. (+50). 16^h to $17\frac{1}{2}^h$ Double-crested wave in N.F. (+40, +55). 16^h to 18^h Two consecutive waves in Dec. (−4′, −3′).

$27^d\ 14\frac{2}{3}^h$ to $15\frac{1}{2}^h$ Double-crested wave in N.F. (+30, +20). 15^h to $15\frac{3}{4}^h$ Decrease in Dec. (−6′). $20\frac{1}{2}^h$ to 23^h Two consecutive waves in Dec. (−8′. −7′). $22\frac{1}{3}^h$ to $23\frac{1}{4}^h$ Wave in N.F. (+40).

$28^d\ 0^h$ to $2\frac{1}{2}^h$ Serrated wave in Dec. (+10′). 1^h to 4^h Wave in V.F. (−40). $1\frac{1}{4}^h$ to $1\frac{1}{2}^h$ Increase in N.F. (+25). 5^h to $8\frac{1}{4}^h$ Wave in Dec. (+8′), with oscillating return. $16\frac{1}{2}^h$ to $17\frac{1}{3}^h$ Wave in N.F. (+20), followed immediately till $18\frac{1}{2}^h$ by an irregular wave (+30). $16\frac{1}{2}^h$ to $16\frac{3}{4}^h$ Decrease in Dec. (−4′). $17\frac{1}{4}^h$ to $18\frac{1}{4}^h$ Wave in Dec. (−5′). $21\frac{1}{3}^h$ to $22\frac{2}{3}^h$ Double-crested wave in Dec. (−5′), followed immediately till 23^h by a decrease (−4′).

$29^d\ 0\frac{1}{2}^h$ to $1\frac{1}{2}^h$ Wave in N.F. (+20). 0^h to 4^h Slow wave in V.F. (−15). $1\frac{1}{4}^h$ to $1\frac{2}{3}^h$ Accelerated decrease in Dec. (−5′). $14\frac{3}{4}^h$ to $15\frac{1}{4}^h$ Increase in N.F. (+40). $23\frac{1}{4}^h$ to $30^d\ 0\frac{1}{2}^h$ Wave in Dec. (+4′).

$30^d\ 1^h$ to $1\frac{1}{2}^h$ Decrease in N.F. (−20). $6\frac{1}{2}^h$ to $8\frac{1}{2}^h$ Wave in N.F. (−25). 16^h to $16\frac{2}{3}^h$ Truncated wave in Dec. (−3′). 16^h to $17\frac{1}{4}^h$ Truncated wave in N.F. (+20), with steep ascent. $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in Dec. (−3′).

July

$1^d\ 17^h$ to $18\frac{2}{3}^h$ Double-crested wave in N.F. (+25, +35). $22\frac{3}{4}^h$ to 24^h Wave in Dec. (−5′).

$2^d\ 22\frac{1}{2}^h$ to 24^h Wave in Dec. (+4′).

$3^d\ 0^h\ 48^m$ to $2^h\ 1^m$ All traces lost through failure of electric current supply.

$5^d\ 13^h$ to 14^h Wave in N.F. (−20). $13\frac{1}{2}^h$ to 14^h Increase in V.F. (+12). 18^h to $18\frac{1}{2}^h$ Increase in N.F. (+25).

$9^d\ 4^h\ 9^m$ Sudden movement in Dec. and N.F. $20\frac{2}{3}^h$ to $21\frac{1}{2}^h$ Two consecutive waves in N.F. (−30).

$10^d\ 13^h$ to 19^h General increase in V.F. (+55), followed till 23^h by a decrease (−40). 18^h to $19\frac{1}{2}^h$ Two consecutive waves in N.F. (+30). $18\frac{1}{3}^h$ to 19^h Decrease in Dec. (−6′). 22^h to $23\frac{3}{4}^h$ Two consecutive waves in Dec. (−3′). $22\frac{1}{3}^h$ to $22\frac{1}{2}^h$ Rapid increase in N.F. (+25).

$14^d\ 22\frac{3}{4}^h$ to 24^h Decrease in Dec. (−9′).

$15^d\ 0^h$ to 1^h Wave in Dec. (+11′), followed till 4^h by a general increase (+10′). $0\frac{1}{3}^h$ to 3^h Wave in V.F. (−20), with irregular return. $0\frac{2}{3}^h$ to $2\frac{1}{2}^h$ Wave in N.F. (+35). $3\frac{1}{3}^h$ to 4^h Increase in N.F. (+30). $4\frac{1}{4}^h$ to $5\frac{1}{2}^h$ Wave in Dec. (−6′). $10\frac{1}{3}^h$ to $12\frac{1}{2}^h$ Truncated wave in N.F. (−35). $10\frac{1}{3}^h$ to $11\frac{1}{4}^h$ Increase in Dec. (+5′).

July

19d 4¼h to 10¾h Loss of register of Dec. and N.F. 18¼h to 19½h Wave in Dec. (−4′).

21d 11h to 12⅓h Wave in N.F. (−20). 12½h to 17¾h Five consecutive waves in N.F. (+25, +25, +25, +45, +40). 16h to 16½h Decrease in Dec. (−5′). 17h to 18h Increase in V.F. (+15).

22d 2¾h to 4h Wave in N.F. (−20). 3½h to 4¾h Irregular decrease in N.F. (−8′). 7h to 9¾h Accelerated decrease in N.F. (−60). 18h to 19¼h Flattened wave in Dec. (−3′). 18¼h to 18¾h Wave in N.F. (−20). 19h to 20⅓h Irregular decrease in N.F. (−35).

23d 16¾h to 18h Double wave in N.F. (∓15).

24d 22½h to 24h Truncated wave in N.F. (+20).

25d 18h to 18½h Wave in N.F. (+30). 22½h to 26d 1h Double wave in Dec. (+4′, −6′), the return of the second part only gradual. 23h to 26d 0⅓h Wave in N.F. (+25).

26d 2h to 4½h Wave in Dec. (+10′). 2½h to 5½h Wave in V.F (−25). 3h to 3½h Increase in N.F. (+35). 5⅔h to 6⅔h General increase in Dec. (+7′). 6h to 6⅓h Decrease in N.F. (−45). 6¾h to 7¾h Serrated wave in N.F. (+30). 8h to 9h Wave in Dec. (+6′). 14h to 15⅓h Wave in N.F. (+40), followed immediately till 16h by a rapid increase (+40). 14¼h to 15¼h Wave in Dec. (+3′). 21¼h to 21⅔h Wave in Dec. (−3′). 21h to 22⅓h Wave in N.F. (+20). 23h to 24h Truncated wave in Dec. (−3′).

27d 0h to 2h Wave in V.F. (−12). 0h to 1h Decrease in Dec. (−5′). 2½h to 5½h Wave in Dec. (+8′). 15h to 16h Wave in N.F. (+20), followed till 17h by an increase (+50). 16h to 18h Truncated wave in Dec. (−6′). 17h to 18h Increase in V.F. (+12). 19h to 19½h Wave in Dec. (−5′). 19h to 20h Wave in N.F. (+35). 21h to 22⅔h Wave in Dec. (−8′). 21½h to 22¼h Wave in N.F. (+20). 23h to 24h Wave in N.F. (+30). 22⅔h to 23¾h Oscillating increase in Dec. (+5′), followed till 28d 1h by a decrease (−8′). 23h to 28d 1½h Wave in V.F. (−18).

28d 1h to 4½h Wave in Dec. (+12′), the ascent delayed from 2h to 2⅓h, and then very rapid till 2½h. 2½h to 5h Wave in V.F. (−25). 6½h to 9h Wave in Dec. (+6′). 5⅔h to 8⅓h Wave in N.F. (−35). 19½h to 20¼h Increase in Dec. (+4′). 22h to 22½h Decrease in V.F. (−15), and wave in Dec. (+7′).

31d 3½h to 4½h Wave in Dec. (+3′). 21⅔h to 23h Wave in Dec. (−3′).

August

1d 18¼h to 19¼h Wave in N.F. (+20). 21⅔h to 23h Double wave in Dec. (+2′, −3′).

3d 13½h to 14½h Wave in N.F. (+20). 18h to 19⅓h Wave in N.F. (+40). 19½h to 20¼h Wave in Dec. (−4′). 21½h to 24h Wave in V.F. (−20). 21½h to 21¾h Decrease in N.F. (−20), followed immediately till 23h by a wave (+60). 21⅔h to 22¼h Wave in Dec. (—7′), the return incomplete. 23⅓h to 4d 0½h Wave in Dec. (+3′). with slow ascent.

4d 0½h to 2⅔h Wave in Dec. (+8′). 19h to 20h Wave in Dec. (−3′). 22⅓h to 23¼h Wave in N.F. (+20). 23½h to 5d 0½h Wave in Dec. (+4′).

6d 20½h to 22½h Several irregular oscillations in N.F. 21⅔h to 22¼h Irregular decrease in Dec. (−4′).

7d 6h to 9h Fluctuating decrease in N.F. (−75). 13h to 13¾h Increase in N.F. (+50). 12h to 12½h Increase in Dec. (+4′). 12h to 16h Increase in V.F. (+45). 15½h to 16⅓h Decrease in Dec. (−8′). 15¾h to 18h Two consecutive waves in N.F. (−30, −20). 21h to 23h Two consecutive waves in Dec. (−6′, −5′). 22¼h to 23½h Wave in N.F. (+35). 23h to 23¾h Decrease in Dec. (−5′).

8d 0½h to 1½h Wave in Dec. (−4′), the return continuing further till 2½h (+8′). 2⅓h to 4½h Wave in N.F. (+40). 3h to 5h Wave in V.F. (−18). 4½h to 7h Flattened double-crested wave in Dec. (+5′, +6′). 5h to 6½h Wave in N.F. (−30). 13h to 14h Increase in N.F. (+40). 14⅓h to 15⅓h Wave in N.F. (−30). 14½h to 15h Rapid decrease in Dec. (−7′). 18h to 19⅓h Wave in Dec. (−5′). 21¾h to 22h Wave in Dec. (−4′). 21¾h to 22¼h Wave in N.F. (+30), followed immediately till 23½h by a double-crested wave (+30, +35). 22½h to 23½h Wave in Dec. (−5′).

9d 0h to 0½h Wave in Dec. (+4′). 5½h to 8½h Numerous small oscillations in Dec., the greatest at 7½h (−3′). 17⅔h to 18⅔h Wave in N.F. (+20).

10d 0¾h to 1¼h Increase in Dec. (+5′), gradually returning till 3h. 7h to 8h Several small oscillations in Dec., the amplitude of the largest being +2′.

17d 16h to 16⅔h Wave in N.F. (−30). 17½h to 18½h Wave in N.F. (−30). 22h to 23½h Double-crested wave in N.F. (+20). 22½h to 24h Wave in Dec. (−4′).

18d 4h to 5¼h Wave in N.F. (−25). 4h to 4¾h Increase in Dec. (+4′). 12½h to 13¼h Wave in N.F. (+25). 13h to 16h Increase in V.F. (+35). 13¾h to 14¾h Wave in N.F. (+30). 15h to 16½h Double-crested wave in N.F. (+30, +35), followed till 17½h by an oscillating increase (+35). 18¼h to 19¼h Wave in N.F. (+25). 20h to 21h Semi-truncated wave in Dec. (−4′, −7′). 20h to 21½h Two consecutive waves in N.F. (+20, +50). 21½h to 23½h Flattened wave in Dec. (+5′). 23½h to 24h Wave in Dec. (+3′).

August

19d 0h to 1h Wave in Dec. (+3′). 1h to 4h Wave in Dec. (+6′), with wave in N.F. (−40). 7½h to 9½h Wave in N.F. (−25).

21d 13h to 13⅔h Increase in V.F. (+15). 23h to 23½h Wave in Dec. (−3′).

22d 2⅔h to 4h Wave in Dec. (+4′). 2⅔h to 3½h Wave in N.F. (−20). 14h 48m Sudden movement in Dec. (+3′), and N.F. (+40). 15¾h to 16⅓h Irregular wave in N.F. (+20), followed till 18h by a general increase (+40). 18h to 19½h Double-crested wave in N.F. (−50, −40). 18h to 21h Slow wave in Dec. (−6′). 21h to 21¾h Decrease in Dec. (−4′). 21¾h to 23½h Oscillating increase in Dec. (+11′), followed till 24h by a rapid decrease (−10′). 22h to 22⅓h Wave in N.F. (+20). 22⅓h to 23¼h Oscillating increase in N.F. (+50). 22h to 23⅔h Accelerated decrease in V.F. (−50). 23¼h to 23d 2h Serrated wave in N.F. (−80), with a secondary wave superposed from 23⅔h to 24h (+35).

23d 0h to 1⅔h Wave in Dec. (+9′). 0h to 1¼h Wave in V.F. (+18), followed till 3⅓h by an irregular decrease (−40). 2h to 3½h Two consecutive waves in Dec. (+5′), the second truncated. 3h to 4¼h Accelerated decrease in N.F. (−70), followed immediately till 5⅓h by a wave (+30). 3⅓h to 9h Fluctuating increase in V.F. (+65). 3½h to 7h Two consecutive waves in Dec. (+15′, +10′), coalescing at 5½h. 6h to 6⅓h Rapid increase in N.F. (+35), returning irregularly till 8½h. 7⅓h to 8h Wave in Dec. (+3′). 10⅔h to 10¾h Decrease in N.F. (−20). 11h to 12h Increase in N.F. (+65), rapid at first. 15¾h to 16h Increase in N.F. (+30), followed till 19⅔h by a series of irregular oscillations, of which the principal were a wave from 16½h to 16¾h (+20), and a wave from 19h to 19½h (+40). 22⅓h to 23h Truncated wave in N.F. (+20), with serrations.

24d 23⅓h to 25d 0⅓h Wave in Dec. (+3′).

25d 22h to 23¼h Wave in N.F. (+40). 22⅓h to 23h Decrease in Dec. (−5′), followed till 26d 1⅓h by an irregular increase (+7′).

26d 21¾h to 23¼h Wave in N.F. (+30), the ascent rather steep, accompanied by a similar wave in Dec. (−4′).

30d 0h to 0⅓h Wave in N.F. (−20). 0⅔h to 3½h Double wave in Dec. (+6′, −8′), accompanied by a double-crested wave in N.F. (+30). 1h to 1⅔h Decrease in V.F. (−20). 11½h to 12h Increase in N.F. (+35).

31d 16h 16m Sudden movement in Dec. (+2′) and N.F. (+30), with decelerated return till 16½h.

31d 23¾h to Sept. 1d 1h Wave in N.F. (+20).

September

1d 0h to 1½h Wave in Dec. (−4′).

1d 15h to 2d 15h See Plate II.

3d 11h to 11½h Increase in Dec. (+5′). 11½h to 12⅔h Wave in N.F. (−20). 17½h to 18¼h Wave in Dec. (−5′), the return continued further till 18¾h (+3′). 20¾h to 22½h Flattened wave in Dec. (−4′).

4d 2⅓h to 4h Wave in Dec. (+4′). 16¼h to 17h Wave in Dec. (−4′). 16½h to 17h Increase in N.F. (+30).

5d 18¾h to 19¾h Wave in Dec. (−5′).

6d 21¾h to 23¼h Wave in N.F. (+25). 21½h to 24h Double-crested wave in Dec. (−4′).

7d 2½h to 4h Wave in N.F. (−30). 3h to 4½h Wave in Dec. (+5′). 11¼h to 11¾h Increase in Dec. (+4′). 17¾h to 19¾h Double-crested wave in Dec. (−6′), with corresponding movement in N.F. (+20). 21¾h to 22h Increase in Dec. (+3′), followed immediately till 23¼h by a wave (−5′). 22h to 22½h Wave in N.F. (+30). 12h to 16h Irregular increase in V.F. (+45). 22h to 22½h Decrease in V.F. (−15).

9d 22h to 23½h Wave in N.F. (+30), and in Dec. (−4′).

14d 3¼h to 4⅓h Wave in Dec. (+3′). 8h to 9h Decrease in N.F. (−50).

14d 12h to 15d 12h. See Plate III.

15d 12h to 15¾h Accelerated increase in V.F. (+60). 13¾h to 14¼h Increase in N.F. (+30). 15h to 15½h Rapid decrease in Dec. (−10′), with partial return till 15¾h (+4′). 15¼h to 17⅓h Serrated wave in N.F. (+50). 15⅔h to 17½h Wave in V.F. (−12). 17h to 17¾h Sharp wave in Dec. (−9′). 17⅛h to 17⅔h Wave in N.F. (+40). 21⅔h to 16d 1h Two consecutive waves in Dec. (−5′, −8′), and in N.F. (+35), the decline of the second wave in N.F being slow and irregular. 22½h to 16d 1h Wave in V. F.(−20).

16d 6¼h to 7⅛h Decrease in Dec. (−7′). 11¼h to 12¼h Decelerated increase in N.F. (+50). 21¼h to 21¾h Wave in N.F. (+25). 21¼h to 21½h Decrease in Dec. (−5′), returning irregularly till 22½h. 22½h to 23h Wave in Dec. (+3′). 22¾h to 23½h Wave in N.F. (+20).

September

17d 0¾h to 1½h Wave in Dec. (+6′). 1h to 1⅓h Decrease in V.F. (−12). 1¾h to 2½h Truncated wave in Dec. (+3′), with wave in N.F. (−25). 3h to 5h Wave in Dec. (+6′). 5h to 7h Wave in Dec. (+7′). 5h to 6½h Wave in N.F. (−20). 8h to 8¾h Decrease in N.F. (−30). 11⅔h to 12¼h Increase in N.F. (+30). 13h to 14h Increase in N.F. (+30). 19½h to 20½h Truncated wave in Dec. (−3′).

18d 20h to 20¾h Wave in Dec. (−4′). 20h to 21½h Two consecutive waves in N.F. (+15, +25).

19d 16h to 18h Wave in Dec. (−4′).

21d 0h to 22d 0h See Plate III. Disturbance begins suddenly at 2h 15m.

22d 7¾h to 8¾h Increase in Dec. (+7′), rapid at first. 13h to 13¼h Increase in N.F. (+20), and wave in Dec. (−3′). 15⅓h to 16h Wave in Dec. (−4′), and increase in N.F. (+35), rapid at first. 20¾h to 21½h Wave in N.F. (+30). 21h Steep wave in Dec. (−3′). 21½h to 22¼h Wave in Dec. (−8′). 21½h to 22½h Wave in N.F. (+30), with steep ascent.

23d 21h to 22⅔h Double-crested wave in Dec. (−10′, −7′). 22½h to 23h Wave in N.F. (−30). 23h to 24h Wave in Dec. (−4′).

24d 1h to 18h Dec. and N.F. traces continuously disturbed by small movements. 1½h to 2h Truncated wave in Dec. (+5′), with similar wave in N.F. (+25). 2h to 2¼h Sharp wave in N.F. (+40). 2h to 3½h General decrease in V.F. (−30). 2h to 4h Double wave in Dec. (∓8′). 3h to 5h Two consecutive waves in N.F. (−30, −35), coalescing at 4h. 3½h to 4½h Wave in Dec. (−6′). 5h to 5¾h Double-crested wave in Dec. (−4′). 5¾h to 6¼h Rapid decrease in N.F. (−55), continuing further, generally, till 8¼h (−50). 6h to 6½h Domed wave in Dec. (−5′). 7⅔h to 8⅔h Double-crested wave in Dec. (−6′, −4′). 8h to 8½h Wave in N.F. (−20). 10¼h to 10⅓h Sharp wave in Dec. (−4′). 12½h to 14h Increase in V.F. (+25). 15h to 16h Wave in N.F. (−35). 15½h to 16½h Oscillating decrease in Dec. (−10′). 15½h to 16½h Increase in V.F. (+30), followed till 21h by a steady decrease (−55), and till 22½h by a further and more rapid decrease (−35). 16⅓h to 17½h Two consecutive waves in N.F. (+40, +35), the second double-crested. 16½h to 17½h Double-crested wave in Dec. (−7′). 20h to 20¾h Wave in N.F. (+30). 20h to 21⅓h Triple-crested wave in Dec. (−8′), followed immediately till 23h by an irregular double-crested wave (−10′). 21h to 21¾h Double wave in N.F. (±40). 22h to 23¼h Wave in N.F. (−60), the return incomplete (+35). 22½h to 23h Increase in V.F. (+15).

25d 17h to 18h Wave in Dec. (−5′). 17h to 18½h Wave in N.F. (+25).

26d 4h 27m to 4h 42m Simultaneous temporary displacement of all traces, viz. Dec. (−1′), N.F. (−10γ), V.F. (−20γ): probably artificial in origin. 17⅔h to 18½h Wave in Dec. (−3′). 23h to 27d 0½h Double wave in Dec. (∓3′), and wave in N.F. (+30), interrupted at 23¼h to 23⅓h.

28d 18h to 19h Wave in N.F. (−15). 18½h to 19½h Wave in Dec. (−3′).

30d 13h to 15h Increase in V.F. (+30).

October

1d 3h 27m Sudden movement in Dec. (+4′), and N.F. (+10). 4⅓h to 5⅓h Decrease in Dec. (−6′). 19½h to 20½h Three consecutive waves in N.F. (+20).

4d 2h to 2¼h Decrease in Dec. (−6′). 14h to 15¼h Wave in N.F. (−20). 18½h to 19⅔h Wave in Dec. (−3′), followed immediately till 20h by a decrease (−7′). 21h to 22h Double wave in Dec. (+5′, −10′), the second part incomplete (+5′). 21h to 23h Wave in N.F. (+90). 21h to 22h Accelerated decrease in V.F. (−25). 22⅓h to 23⅓h Increase in Dec. (+9′).

5d 22¾h to 24h Wave in N.F. (+30), with steep ascent.

6d 3⅓h to 5h Truncated wave in Dec. (+4′). 10¾h to 11¼h Increase in Dec. (+5′), followed till 12h by a wave (−3′).

8d 19⅔h to 20½h Serrated wave in N.F. (+20). 20¾h to 21½h Wave in Dec. (−5′), followed immediately till 22h by a rapid decrease (−13′). 21⅔h to 23¼h Double wave in N.F. (+50, −20), with a sharp wave superposed from 22½h to 22¾h (+45). 21½h to 21¾h Decrease in V.F. (−15). 22¼h to 23½h Wave in V.F. (−25). 22h to 22¾h General increase in Dec. (+5′), followed till 23½h by a double wave (−4′, +2′).

9d 0⅔h to 1½h Accelerated increase in Dec. (+16′), followed immediately till 3½h by a serrated wave (−15′). 1¼h to 2½h Irregular wave in N.F. (+60). 1⅓h to 1⅔h Decrease in V.F. (−25). 3½h to 4¼h Wave in Dec. (−4′). 4½h to 5¼h Wave in N.F. (−20). 4¾h to 5¼h Wave in Dec. (+6′). 5¾h to 6h Increase in N.F. (+25). 9h to 9¾h Wave in Dec. (+3′). 14h to 15h Flattened wave in N.F. (−20). 15½h to 16h Decrease in Dec. (−3′). 18h to 18⅓h Decrease in N.F. (−20), followed immediately till 19½h by a steep wave (+120), and then till 19⅔h by an increase (+25). 18h to 19¼h Steep wave in Dec. (−18′), followed immediately till 19½h by a rapid decrease (−10′). 18½h to 19½h Decrease in V.F. (−25), followed till 19¾h by an increase (+12). 20½h to 21h Decrease in Dec. (−6′). 21¼h to 22h Two consecutive waves in N.F. (+20). 21½h to 22h Wave in Dec. (−4′). 22h to 24h General increase in Dec. (+6′). 22½h to 23h Wave in Dec. (−3′). 23¼h to 24h Wave in Dec. (−3′). 23¾h to 10d 0½h Double wave in N.F. (∓20).

October

10d 0¼h to 1½h Double wave in Dec. (±7′). 0¼h to 3h Wave in V.F. (−30), the decline gradual. 17⅓h to 19h Wave in Dec. (−7′). 17⅔h to 19h Wave in N.F. (+30).

11d 1h to 1⅔h Wave in Dec. (+3′). 1h to 3h Accelerated decrease in V.F. (−20). 2h to 3⅓h Wave in N.F. (+25). 2½h to 4⅓h Wave in Dec. (−5′). 16h to 18h Wave in V.F. (+15). 16h to 19h Two consecutive waves in Dec. (−8′, −6′). 16½h to 17½h Wave in N.F. (+30). 17⅔h to 18h Increase in N.F. (+20). 20⅓h to 20¾h Decrease in Dec. (−6′). 21h to 21½h Wave in Dec. (−12′), with partial decline (+7′). 21h to 22h Wave in N.F. (+70). 23h to 12d 1h Wave in N.F. (+30). 23¾h to 12d 1h Wave in Dec. (−7′).

12d 2¼h to 3¼h Wave in Dec. (+4′). 4h to 6h General increase in Dec. (+9′). 10¾h to 11h Increase in Dec. (+6′). 12¼h to 14½h Increase in N.F. (+50), rapid at first. 12h to 13h Serrated wave in Dec. (−5′). 17¼h to 18½h Double wave in N.F. (−40, +80). 17⅓h to 19h Steep wave in Dec. (−26′).

13d 1½h to 3h Truncated wave in Dec. (+3′). 4⅓h to 5h Increase in Dec. (+3′). 17h to 20h Two consecutive waves in N.F. (−25). 18h to 19h Wave in Dec. (−6′). 21½h to 22h Wave in N.F. (+30). 23h to 24h Wave in Dec. (−5′). 23½h to 23¾h Decrease in N.F. (−20).

14d 1h to 3h Flattened wave in N.F. (+30). 2h to 3½h Flattened wave in Dec. (−4′). 3⅔h to 5½h Wave in N.F. (−25). 4h to 5h Wave in Dec. (+3′). 11¼h to 12½h Truncated wave in Dec. (+4′). 11½h to 12½h Wave in N.F. (−20).

15d 14h to 15½h Wave in Dec. (−6′). 16¼h to 17½h Wave in Dec. (−5′). 20¾h to 21½h Wave in Dec. (−4′). 20¾h to 22h Wave in N.F. (+40). 23h to 16d 2h Two consecutive waves in Dec. (+7′).

16d 0h to 1½h Wave in N.F. (−20). 10h to 11h Increase in Dec. (+5′). 11⅓h to 12h Increase in Dec. (+4′). 20½h to 22h Wave in Dec. (−4′).

17d 0h to 2h Wave in Dec. (+3′). 11¼h to 12h Increase in Dec. (+6′). 22½h to 24h Wave in Dec. (−3′). 22½h to 23⅓h Wave in N.F. (+20).

19d 19h to 22h Wave in Dec. (−7′).

20d 1½h to 3h Wave in Dec. (+4′). 17¼h to 18¾h Wave in Dec. (−8′). 17½h to 19h Wave in N.F. (+30).

21d 6h to 22d 6h See Plate IV.

22d 12⅔h to 12¾h Increase in Dec. (+4′). 14h to 15h Wave in N.F. (−40). 14½h to 15h Wave in Dec. (−3′). 16h to 18½h Three consecutive waves in Dec. (−3′, −4′, −5′). 14⅔h to 16h Increase in V.F. (+25). 16h to 16⅔h Wave in N.F. (+20). 17⅔h to 18½h Wave in N.F. (+25). 19h to 21h Wave in Dec. (−9′). 19⅔h to 20h Increase in N.F. (+25).

23d 10h to 24d 10h See Plate IV.

24d 10h to 17h Continuous small disturbances in Dec. and N.F., of which the chief were two very steep waves in N.F. at 15⅔ to 16h (+30), which coalesced, and a sharp wave in N.F. at 16½h (−30). 18¾h to 20½h Wave in Dec. (−10′), with slow oscillating decline. 19h to 21h Serrated wave in N.F. (+50).

25d 21h to 21½h Wave in Dec. (−7′), and in N.F. (+40).

27d 17⅔h to 17¾h Decrease in N.F. (−30). 22h to 22½h Accelerated decrease in Dec. (−6′). 22⅓h to 23h Wave in N.F. (+30).

28d 0h to 1½h Increase in Dec. (+7′). 13¼h to 13¾h Wave in Dec. (+3′). 22⅔h to 23¼h Wave in N.F. (+20).

31d 12½h to 13⅓h Wave in Dec. (+4′). 16½h to 17h Accelerated decrease in Dec. (−5′), followed till 19h by a wave (+7′). 16⅓h to 19h Two consecutive waves in N.F. (−30, −40).

November

1d 1h to 3h General increase in N.F. (+50), with a sudden movement at 1⅔h (+20). 1h to 1¾h Fluctuating increase in Dec. (+7′), followed immediately till 4⅓h by a wave (−19′), with incomplete return (+12′). 1½h to 4½h Wave in V.F. (−35). 4½h to 5½h Wave in Dec. (−4′), and in N.F. (+25). 7h Sharp wave in Dec. (+3′), the trace in continuous minor disturbance thereafter till 12h. 12h to 13h Wave in Dec. (+4′). 19⅓h to 21¼h Two consecutive waves in Dec. (−4′, −5′). 20h to 21h Wave in N.F. (+40).

2d 17⅔h to 18h Wave in N.F. (+25). 18h to 18¾h Wave in N.F. (+60). 18h to 18⅔h Wave in Dec. (−7′). 19½h to 19¾h Wave in N.F. (+20). 20½h to 21¼h Decrease in Dec. (−6′). 23h to 3d 1h Wave in Dec. (−5′).

3d 20h to 21h Wave in Dec. (−4′).

4d 23¾h to 24h Wave in N.F. (+25). 22¾h to 5d 0⅔h Wave in Dec. (−4′).

6d 19h to 20h Wave in Dec. (−3′).

November

7^d $21\frac{1}{2}^h$ to 23^h Wave in Dec. ($-3'$).

8^d $1\frac{3}{4}^h$ to $2\frac{3}{4}^h$ Wave in Dec. ($+4'$). $20\frac{1}{2}^h$ to $20\frac{3}{4}^h$ Decrease in N.F. (-40). $20\frac{1}{2}^h$ to 21^h Decrease in Dec. ($-5'$). $21\frac{3}{4}^h$ to $22\frac{1}{4}^h$ Decrease in Dec. ($-6'$). $22\frac{2}{3}^h$ to 9^d $0\frac{1}{2}^h$ Wave in Dec. ($-10'$).

9^d 0^h to 10^d 0^h. See Plate V.

10^d 0^h to 1^h Increase in Dec. ($+18'$), followed till $2\frac{1}{2}^h$ by a general decrease ($-8'$). $0\frac{1}{4}^h$ to $0\frac{2}{4}^h$ Wave in N.F. (-20). $0\frac{2}{3}^h$ to 5^h Two consecutive waves in V.F. (-20). $2\frac{3}{4}^h$ to 4^h Wave in Dec. ($+6'$), followed immediately till 5^h by an increase ($+6'$). $3\frac{1}{2}^h$ to $4\frac{1}{2}^h$ Wave in N.F. ($+30$). 8^h to 9^h Flattened wave in Dec. ($-3'$). $14\frac{2}{3}^h$ to 15^h Decrease in N.F. (-20). 15^h to $16\frac{1}{3}^h$ Increase in V.F. ($+15$). $17\frac{1}{2}^h$ to $17\frac{3}{4}^h$ Wave in Dec. ($-4'$). $18\frac{1}{3}^h$ to $19\frac{1}{4}^h$ Double wave in N.F. (∓ 25), followed till $19\frac{1}{2}^h$ by a wave ($+25$). $18\frac{1}{2}^h$ to $19\frac{1}{2}^h$ Wave in Dec. ($-15'$), with oscillating return. $21\frac{1}{2}^h$ to $22\frac{1}{4}^h$ Wave in Dec. ($-4'$). $23\frac{1}{2}^h$ to $23\frac{3}{4}^h$ Increase in Dec. ($+7'$). $23\frac{3}{4}^h$ to 11^d 1^h Decrease in V.F. (-30).

11^d $0\frac{1}{4}^h$ to $2\frac{1}{2}^h$ Two consecutive waves in N.F. ($+30$). $1\frac{1}{2}^h$ to $3\frac{1}{4}^h$ Wave in Dec. ($-5'$). 10^h to $10\frac{2}{3}^h$ Double-crested wave in N.F. (-20). 10^h to $10\frac{1}{3}^h$ Wave in V.F. ($+15$), possibly of artificial origin. $10\frac{2}{4}^h$ to 11^h Increase in Dec. ($+4'$). 22^h to $22\frac{1}{4}^h$ Decrease in Dec. ($-3'$). 23^h to 12^d $0\frac{1}{2}^h$ Wave in Dec. ($+8'$). $23\frac{1}{3}^h$ to 12^d $0\frac{1}{2}^h$ Wave in N.F. ($+30$), with slow decline. $23\frac{1}{2}^h$ to 24^h Decrease in V.F. (-18).

12^d $0\frac{1}{2}^h$ to 1^h Increase in Dec. ($+5'$).

13^d 2^h to $3\frac{2}{3}^h$ Wave in Dec. ($+3'$). $2\frac{3}{4}^h$ to 4^h Wave in N.F. ($+20$). $16\frac{1}{2}^h$ to $17\frac{1}{4}^h$ Wave in N.F. (-20). $16\frac{3}{4}^h$ to $18\frac{1}{3}^h$ Truncated wave in Dec. ($-5'$), followed immediately till $19\frac{1}{2}^h$ by a wave ($-13'$), with incomplete return ($+6'$). 19^h to 20^h Wave in N.F. ($+50$).

14^d 15^h to 19^h Wave in V.F. ($+40$). 15^h to 16^h Wave in Dec. ($-4'$). 15^h to $15\frac{2}{3}^h$ Increase in N.F. ($+30$). $15\frac{2}{3}^h$ to $16\frac{1}{3}^h$ Wave in N.F. (-30), followed immediately till $17\frac{1}{4}^h$ by a steep double-crested wave (-60). $16\frac{1}{2}^h$ to $16\frac{2}{3}^h$ Decrease in Dec. ($-9'$). $16\frac{3}{4}^h$ to $17\frac{1}{2}^h$ Wave in Dec. ($-9'$). $19\frac{3}{4}^h$ to 21^h Irregular double wave in Dec. ($-10'$, $+6'$). $19\frac{1}{4}^h$ to 20^h Decrease in N.F. (-30). 20^h to $21\frac{1}{2}^h$ Wave in V.F. ($+12$). $20\frac{1}{2}^h$ to 21^h Wave in N.F. ($+30$), followed immediately till $21\frac{1}{4}^h$ by a rapid increase ($+60$). $21\frac{1}{3}^h$ to $22\frac{1}{2}^h$ Wave in Dec. ($-4'$).

15^d $12\frac{1}{2}^h$ to 13^h Wave in Dec. ($+3'$). 16^h to $18\frac{1}{4}^h$ Two consecutive waves in Dec. ($-5'$, $-6'$). 16^h to $17\frac{1}{4}^h$ Wave in N.F. ($+30$). $18\frac{1}{4}^h$ to $18\frac{3}{4}^h$ Wave in N.F. (-20). $21\frac{1}{2}^h$ to $22\frac{1}{2}^h$ Wave in N.F. ($+30$). $21\frac{1}{3}^h$ to $22\frac{1}{2}^h$ Wave in Dec. ($-6'$), followed immediately till $23\frac{3}{4}^h$ by a flattened wave ($-3'$).

20^d $17\frac{3}{4}^h$ to $18\frac{1}{4}^h$ Decrease in Dec. ($-3'$). 21^h to $21\frac{1}{2}^h$ Decrease in Dec. ($-3'$).

23^d $11\frac{1}{4}^h$ to 12^h Wave in Dec. ($+3'$). $23\frac{2}{3}^h$ to 24^d $0\frac{1}{2}^h$ Wave in Dec. ($-3'$).

25^d $18\frac{3}{4}^h$ to 20^h Wave in Dec. ($-4'$).

26^d 21^h to 22^h Wave in N.F. ($+20$).

28^d $22\frac{1}{4}^h$ to 29^d 11^h Loss of register of Dec. and N.F.

December

5^d $21\frac{1}{4}^h$ to 24^h Wave in Dec. ($-12'$), with steep ascent. $21\frac{1}{4}^h$ to 23^h Wave in N.F. ($+60$).

6^d 1^h to $2\frac{1}{2}^h$ Wave in Dec. ($+5'$). $8\frac{2}{3}^h$ to 10^h Double-crested wave in Dec. ($-3'$, $-4'$). $10\frac{1}{2}^h$ to $11\frac{1}{4}^h$ Wave in N.F. ($+20$). $10\frac{2}{4}^h$ to $11\frac{2}{4}^h$ General increase in Dec. ($+7'$). $11\frac{3}{4}^h$ to $13\frac{3}{4}^h$ Wave in N.F. ($+30$). $11\frac{3}{4}^h$ to 13^h Serrated wave in Dec. ($-4'$). 13^h to $13\frac{1}{2}^h$ Wave in Dec. ($-3'$), followed till $14\frac{1}{4}^h$ by a fluctuating decrease ($-6'$). 14^h to $14\frac{1}{2}^h$ Increase in N.F. ($+20$). 12^h to 14^h General increase in V.F. ($+15$). 14^h to 18^h Wave in V.F. ($+25$). 15^h to 16^h Two consecutive waves in N.F. ($+30$, $+15$). 15^h to $15\frac{1}{2}^h$ Wave in Dec. ($-4'$). $15\frac{1}{2}^h$ to $16\frac{1}{3}^h$ Double-crested wave in Dec. ($-5'$, $-4'$), followed immediately till $17\frac{1}{2}^h$ by a decrease ($-4'$). $16\frac{1}{3}^h$ to 18^h Increase in N.F. ($+50$), rather rapid till 17^h. $19\frac{1}{2}^h$ to $20\frac{3}{4}^h$ Wave in Dec. ($-5'$).

7^d $2\frac{1}{4}^h$ to 3^h Wave in Dec. ($+6'$). 8^h to 9^h Decrease in Dec. ($-4'$). 15^h to $15\frac{3}{4}^h$ Wave in Dec. ($-5'$).

9^d 16^h to 17^h Wave in Dec. ($-3'$).

10^d 16^h to $17\frac{2}{4}^h$ Double-crested wave in Dec. ($-3'$, $-5'$), and in N.F. (-15, -20). $21\frac{2}{3}^h$ to 23^h Truncated wave in N.F. ($+45$), and serrated wave in Dec. ($-5'$).

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

12^d $23\frac{3}{4}^h$ to 13^d $2\frac{1}{2}^h$ Wave in Dec. ($-5'$).

13^d $20\frac{2}{3}^h$ to 22^h Wave in Dec. ($-5'$). $23\frac{1}{2}^h$ to 14^d 1^h Wave in N.F. ($+20$).

15^d $17\frac{1}{2}^h$ to $21\frac{1}{2}^h$ General decrease in Dec. ($-17'$). $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ Wave in N.F. ($+20$).

16^d 0^h to $3\frac{1}{2}^h$ General increase in Dec. ($+11'$). $0\frac{3}{4}^h$ to 3^h Wave in N.F. ($+25$). $3\frac{1}{2}^h$ to 5^h Wave in Dec. ($-3'$).

December 18d 16¼h to 17¼h Wave in N.F. (−25). 16¾h to 18h Double wave in Dec. (∓6′). 17⅓h to 17¾h Decrease in N.F. (−40), followed till 19⅓h by a fluctuating increase (+65). 19⅓h to 20¾h Two consecutive waves in N.F. (−20). 20¼h to 20¾h Wave in Dec. (+3′).

20d 0h to 1¾h Wave in N.F. (+30). 0h to 0¾h Oscillating decrease in Dec. (−5′).

23d 20¾h to 22½h Two consecutive waves in Dec. (−4′, −3′).

24d 1⅔h to 3h Wave in Dec. (−4′). 13h to 14¾h Irregular serrated wave in Dec. (+6′). 21h to 22½h Irregular wave in Dec. (−4′), with steep decline. 21¼h to 22¾h Truncated wave in N.F. (+20).

25d 20⅔h to 21h Wave in Dec. (−4′).

27d 15h to 20¼h Steady increase in V.F. (+70), followed till 21⅓h by an accelerated decrease (−55). 14h 50m Sudden increase in Dec. (+3′), followed till 19¼h by a general increase (+9′), with a wave superposed from 17⅔h to 18⅓h (+3′). 15h to 18¼h Fluctuating decrease in N.F. (−55). 18¼h to 20h Double wave in N.F. (∓20), the second part double-crested. 19¼h to 20⅓h Rapid decrease in Dec. (−20′). 20⅔h to 20¾h Increase in Dec. (+5′). 20¾h to 21¼h Steep wave in N.F. (+70), followed immediately till 22h by a truncated wave (+25). 21h to 21⅓h Steep wave in Dec. (+8′), the decline prolonged further till 21½h (−9′), followed by an oscillating return till 24h.

28d 6¾h to 8½h Wave in N.F. (−50). 7⅓h to 7¾h Rapid increase in Dec. (+18′), followed till 10h by a return in two main stages, namely, 7¾h to 8¼h (−6′) and 9h to 10h (−11′). 7¾h to 10½h Wave in V.F. (−50). 8⅔h to 9h Rapid decrease in N.F. (−60). 9½h to 9¾h Decrease in N.F. (−20), followed till 12h by an oscillating increase (+70). 10½h to 11½h Serrated wave in Dec. (+5′). 14⅔h to 15¾h Irregular wave in Dec. (+4′). 15h to 16½h Wave in N.F. (−30). 18½h to 19½h Wave in Dec. (−3′). 20¾h to 22h Truncated wave in Dec. (−4′). 22h to 24h Two consecutive waves in Dec. (−4′).

29d 21¼h to 30d 1h A series of small oscillations in Dec., the greatest a double-crested wave from 22¼h to 23¼h (−3′).

30d 20½h Steep wave in N.F. (+20).

31d 22¼h to 23h Wave in Dec. (−3′), and in N.F. (+20).

EXPLANATION OF THE PLATES.

The magnetic changes figured on the Plates are those for days of disturbance selected by the International Committee—May 4d 0h to 24h; June 24d 8h to 25d 8h; August 22d 12h to 23d 12h; September 1d 15h to 2d 15h, 14d 12h to 15d 12h, and 21d 0h to 24h; October 21d 6h to 22d 6h and 23d 10h to 24d 10h; November 9d 0h to 24h.

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

Simultaneous traces recorded at Greenwich and Abinger are placed in corresponding positions on pages facing one another, except in the case of November 9, where they occupy the upper and lower half respectively of the same page.

Magnetic declination, horizontal force, north force and vertical force are indicated by the letters D, H, N, V respectively.

Scales for reading the traces in units of γ (0·00001 C.G.S.) are given at the foot of each page, and a datum line is marked for each trace at the sides of the diagram.

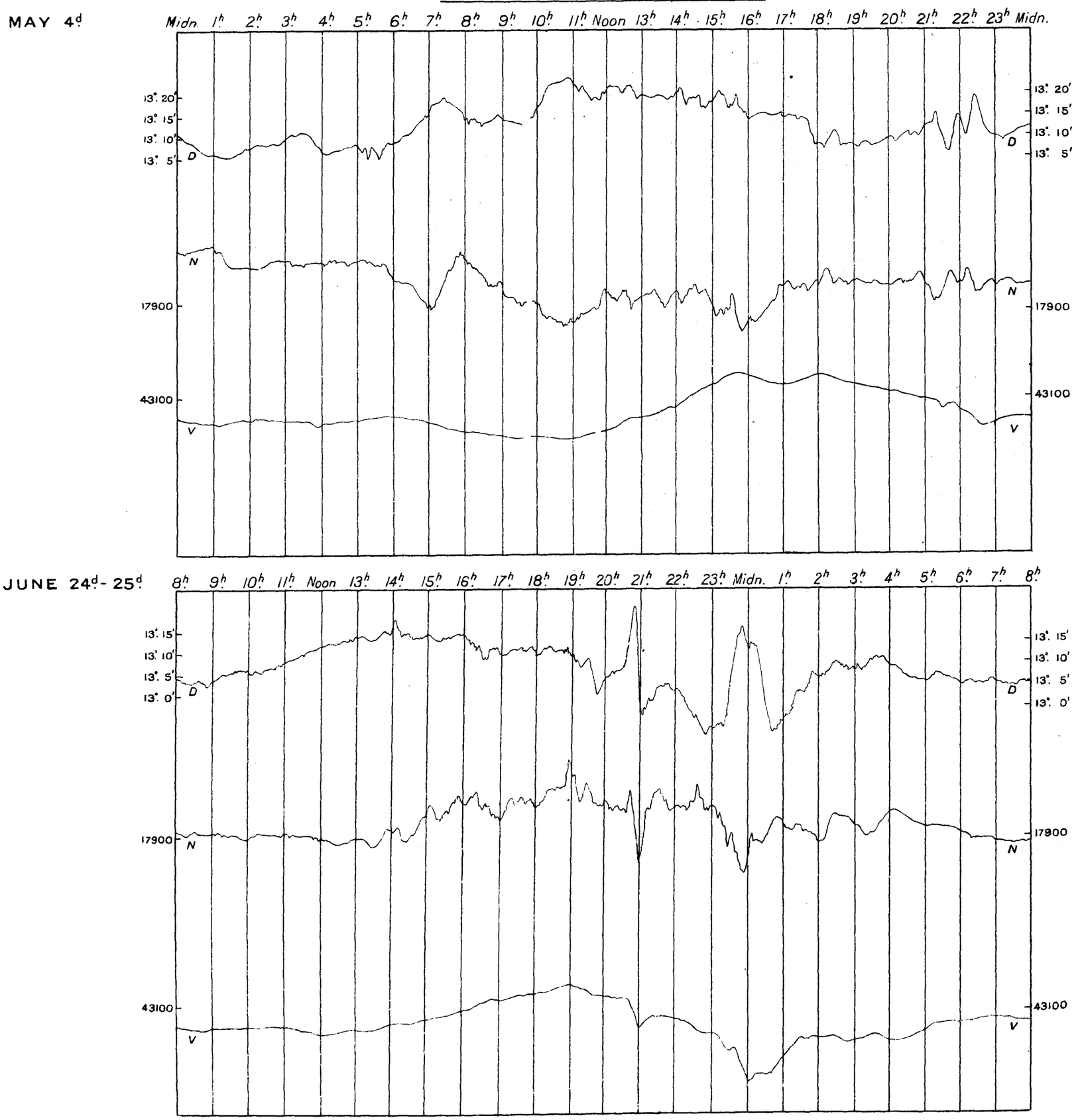
Declination may be read in arc by the scale on the side of the diagram.

Upward motion indicates increase of declination west, and increase of force in all cases.

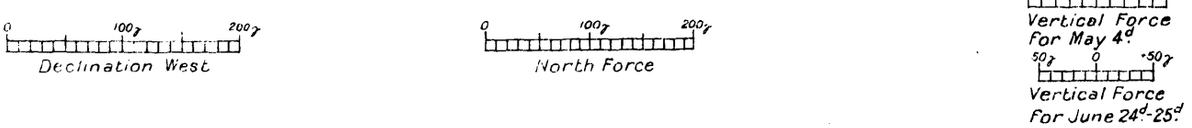
In the case of the Greenwich vertical force trace the scale is not uniform. The contraction during an increase of 100γ varies from 10 to 20 per cent. according to the actual position of the trace on the recording cylinder.

In comparing the traces obtained at the two observatories it should be noted particularly that the Greenwich trace marked N is a record of the *north* component, whereas the Abinger trace marked H is a record of the *horizontal* component of magnetic force.

MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH IN THE YEAR 1925.



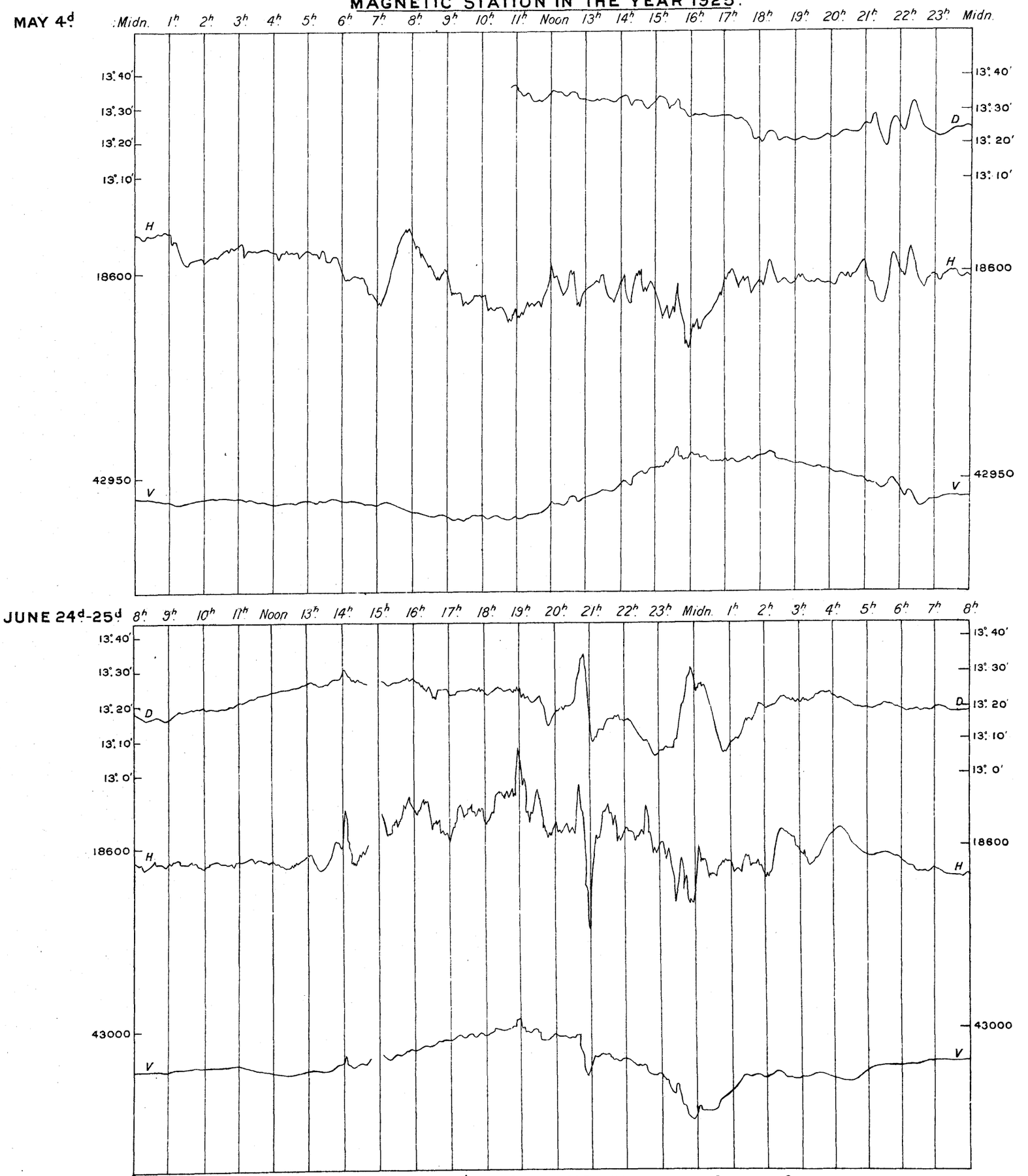
SCALES FOR MAGNETIC ELEMENTS IN C. G. S. UNITS.



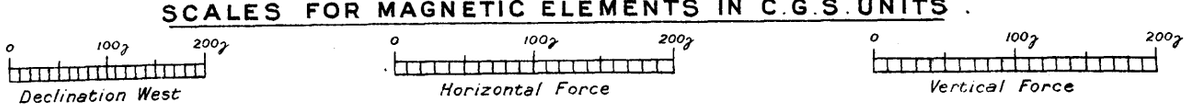
498.497.5 & 176.305.525 1.27.

Malby & Sons, Lith.

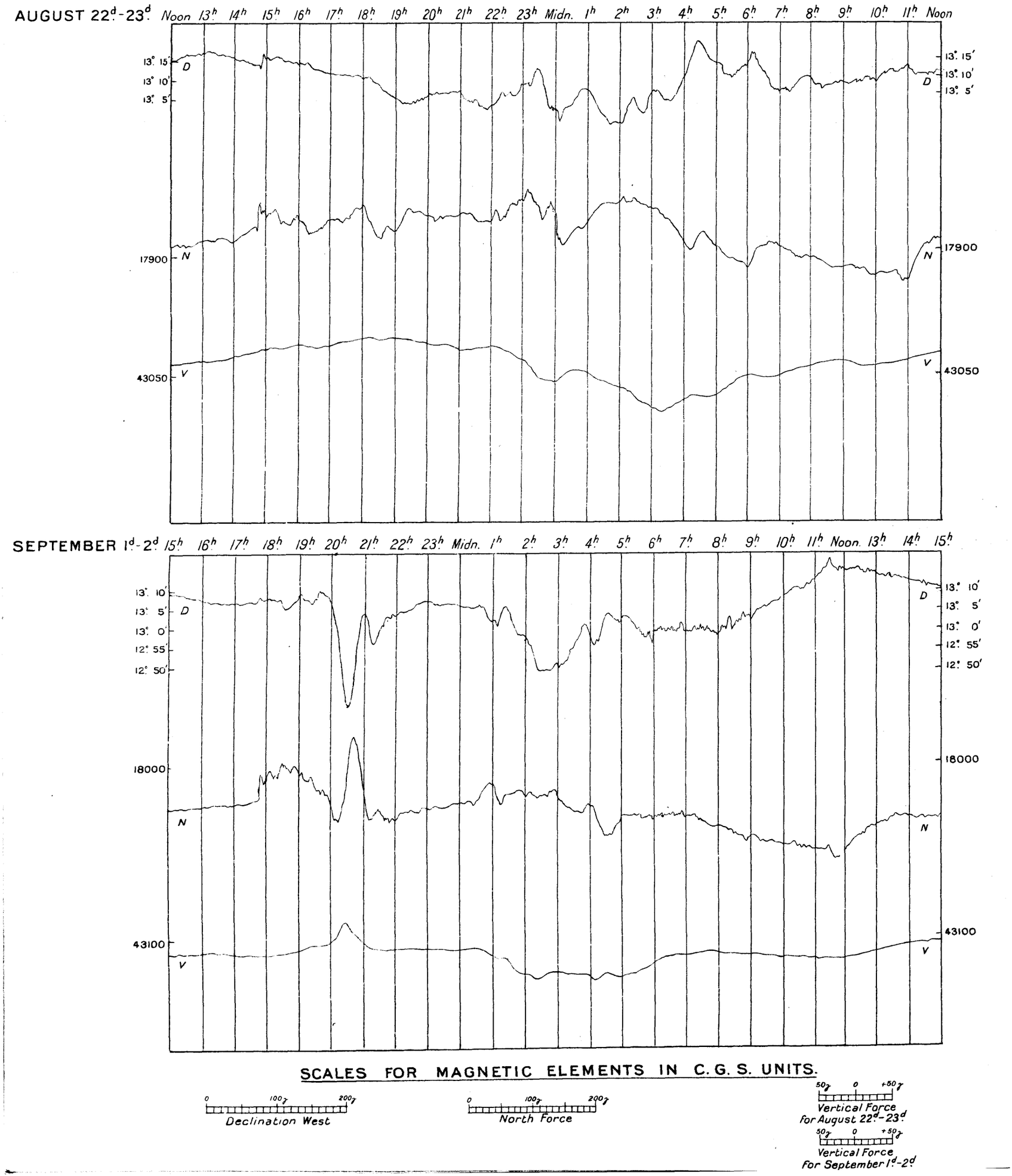
MAGNETIC DISTURBANCES AS RECORDED AT THE ABINGER (SURREY) MAGNETIC STATION IN THE YEAR 1925.



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



MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH IN THE YEAR 1925.



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

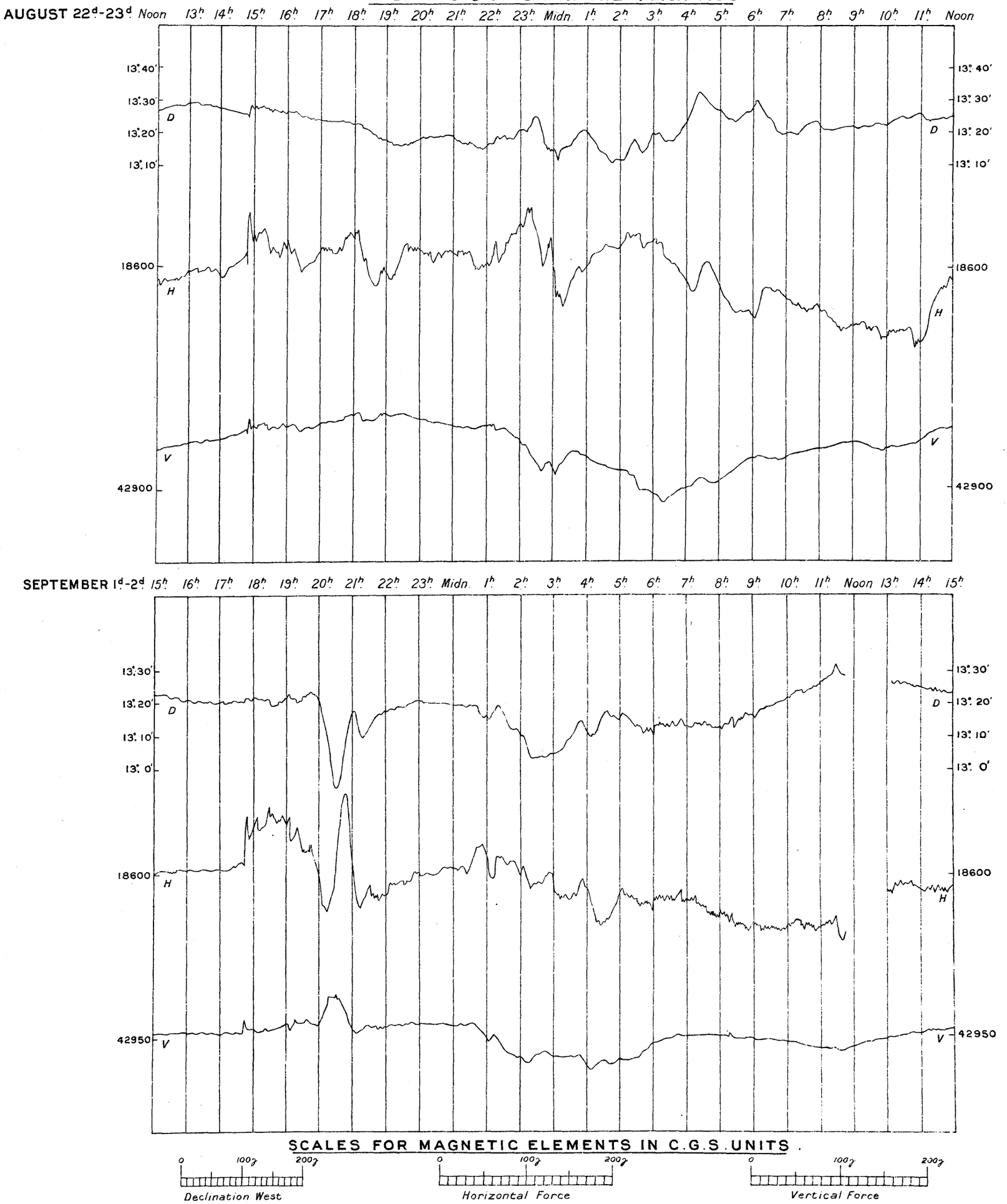
0 100γ 200γ
Declination West

0 100γ 200γ
North Force

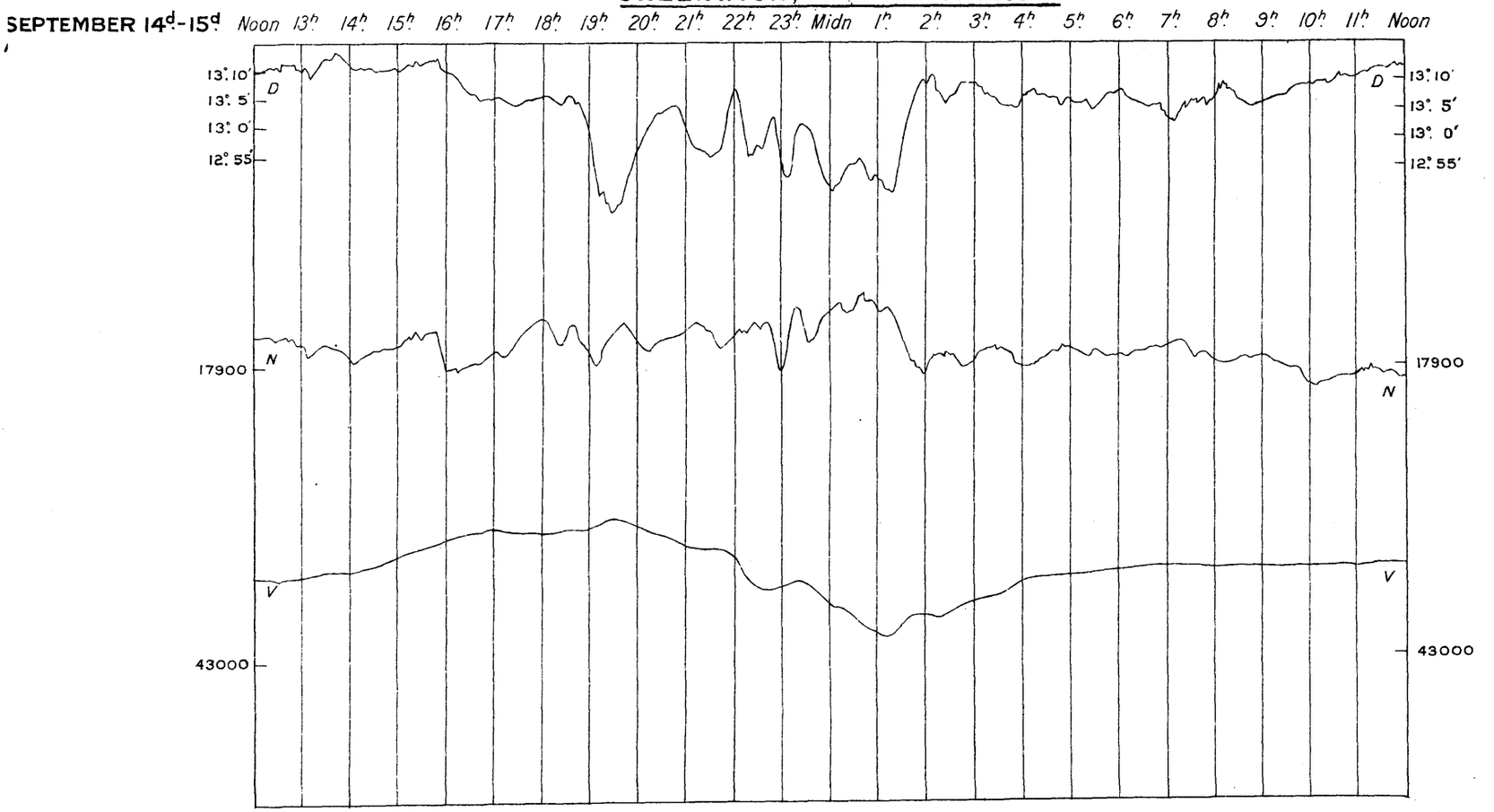
50γ 0 +50γ
Vertical Force for August 22d-23d

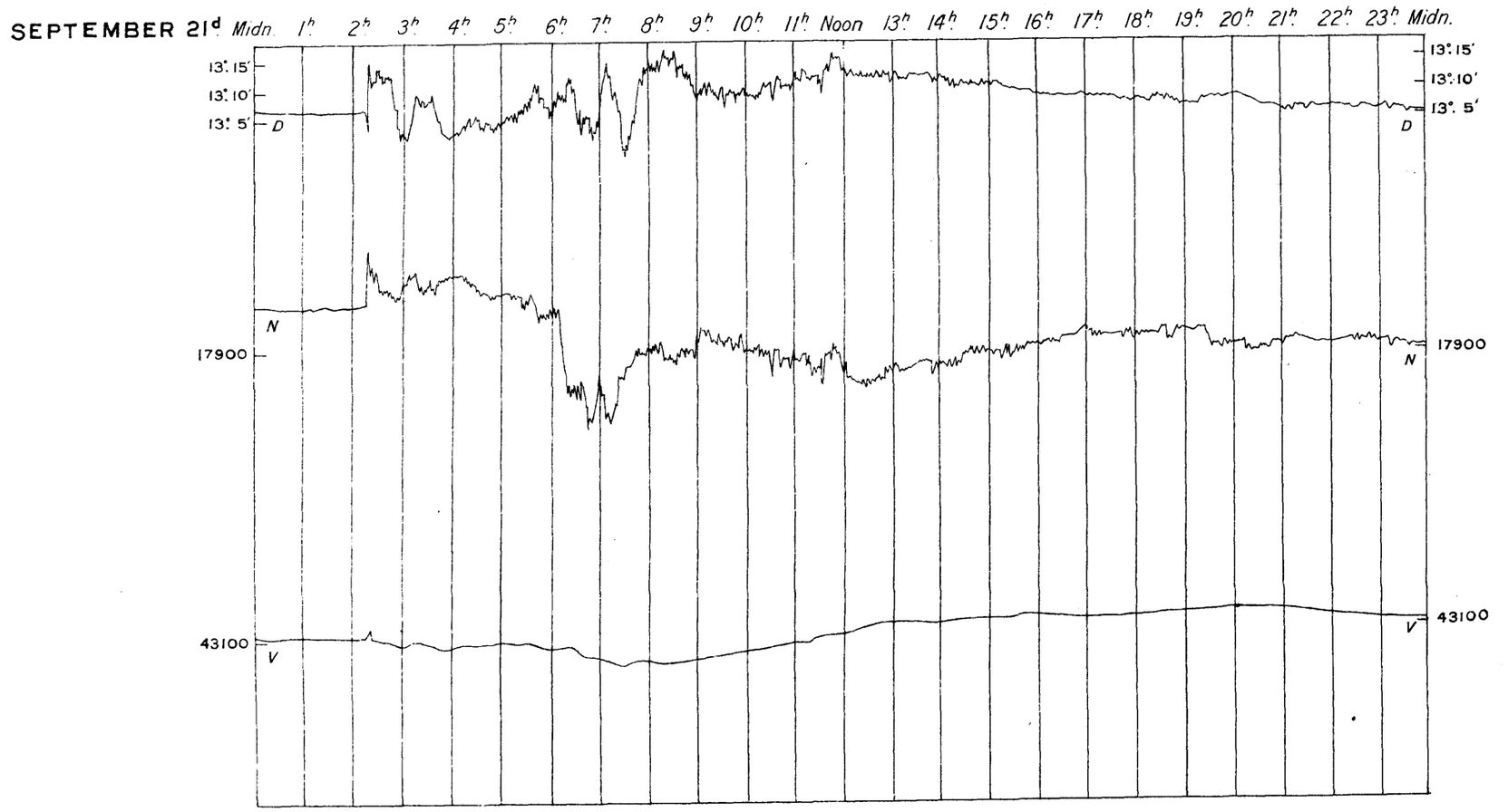
50γ 0 +50γ
Vertical Force for September 1d-2d

MAGNETIC DISTURBANCES AS RECORDED AT THE ABINGER (SURREY) MAGNETIC STATION IN THE YEAR 1925.

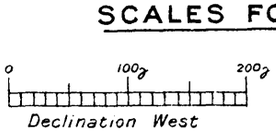


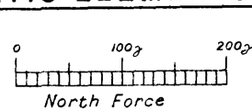
MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1925.

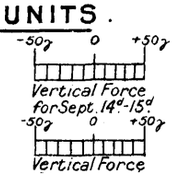




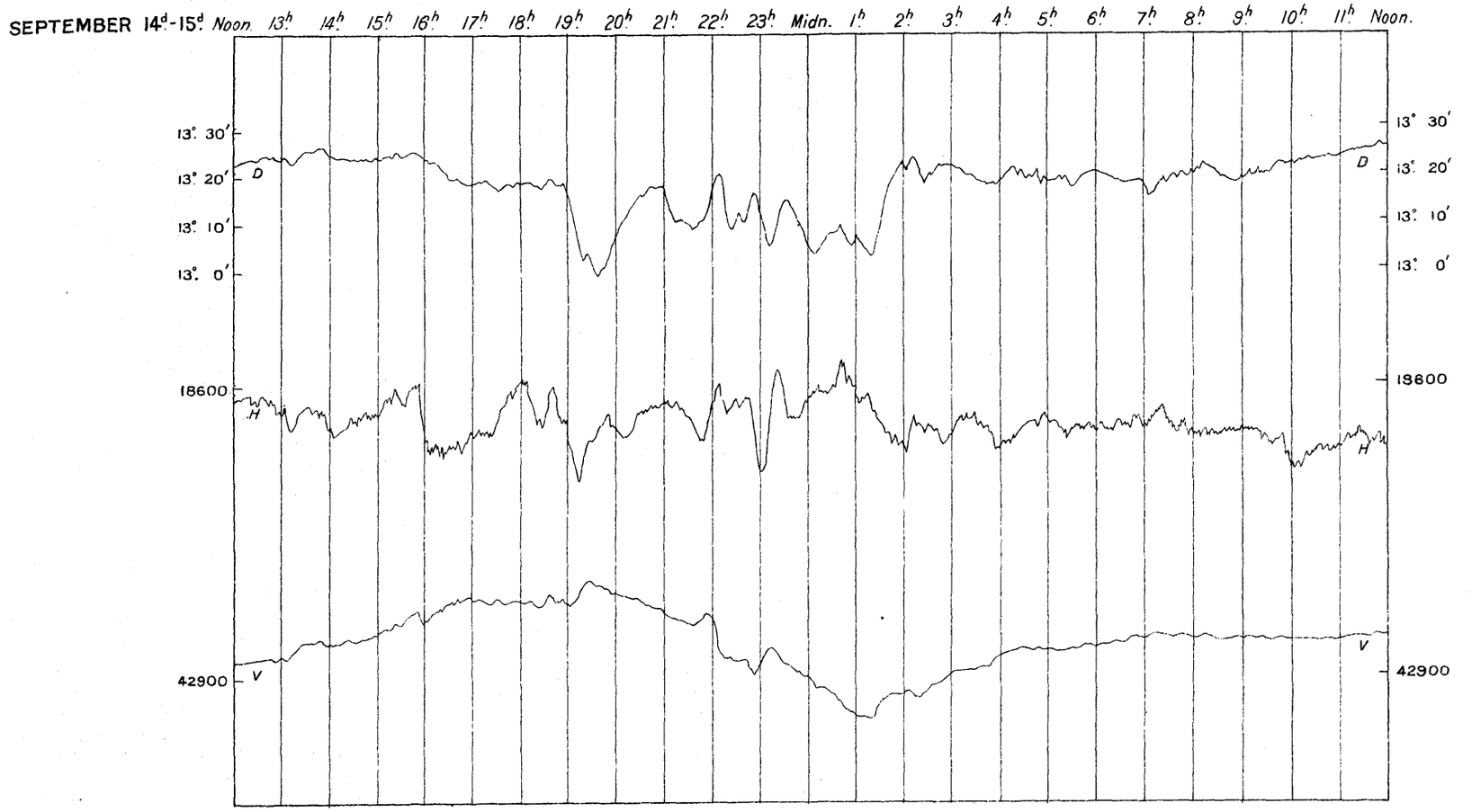
SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS.

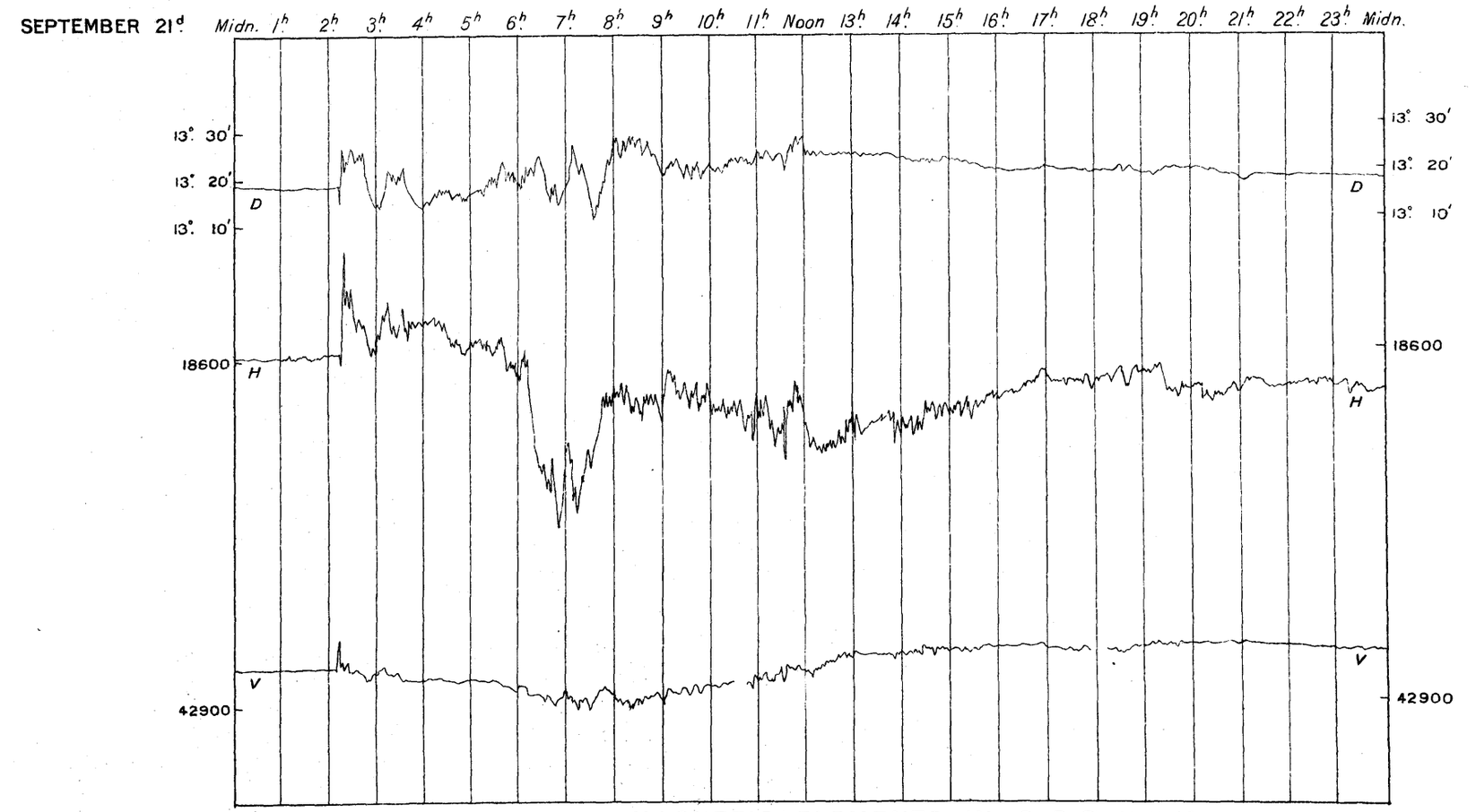




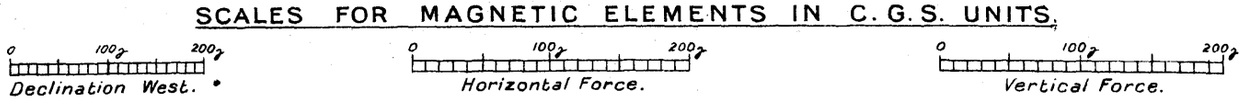


MAGNETIC DISTURBANCES AS RECORDED AT THE ABINGER (SURREY) MAGNETIC STATION IN THE YEAR 1925.

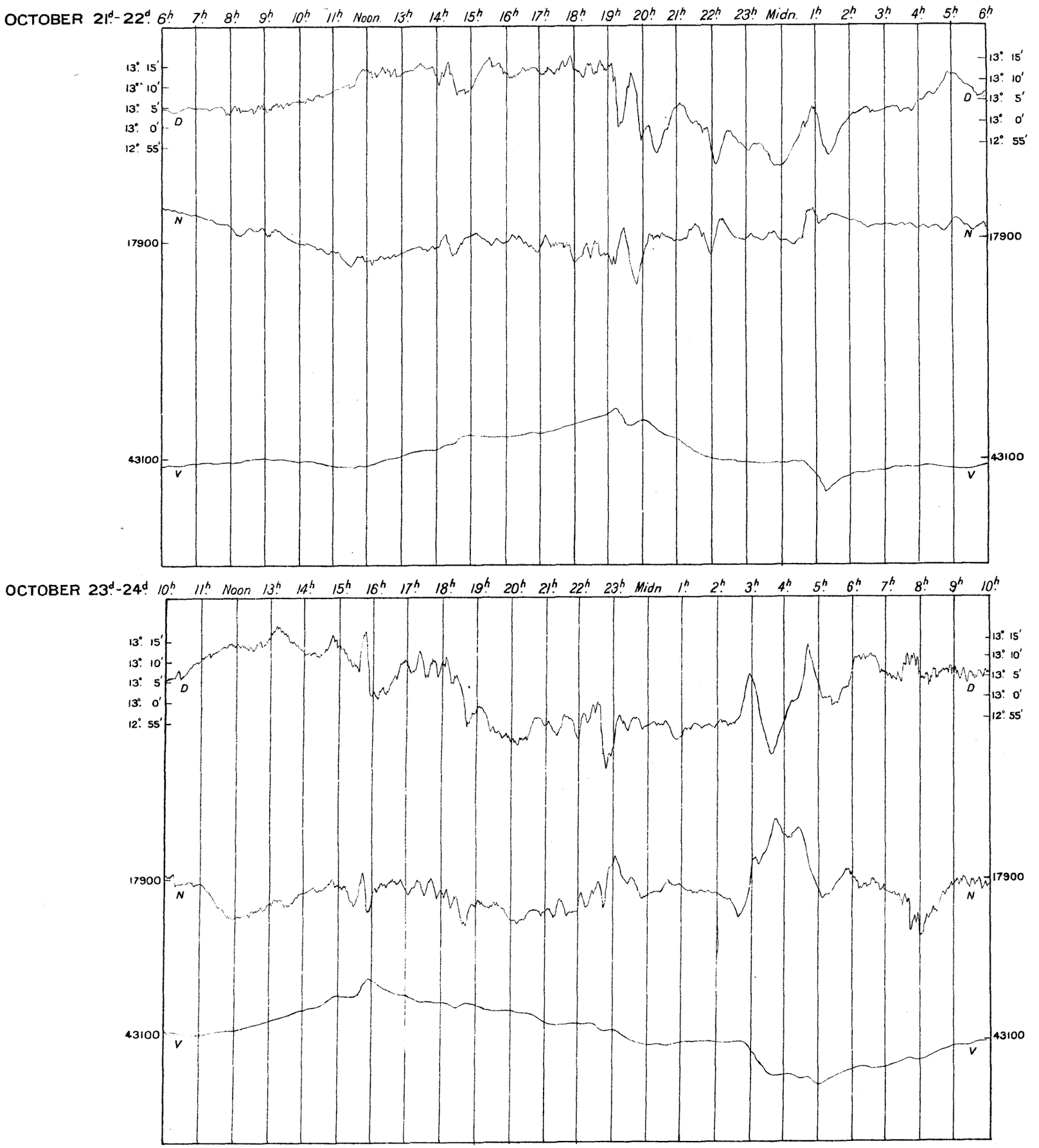




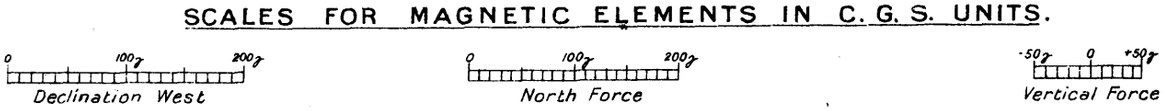
SCALES FOR MAGNETIC ELEMENTS IN C. G. S. UNITS.



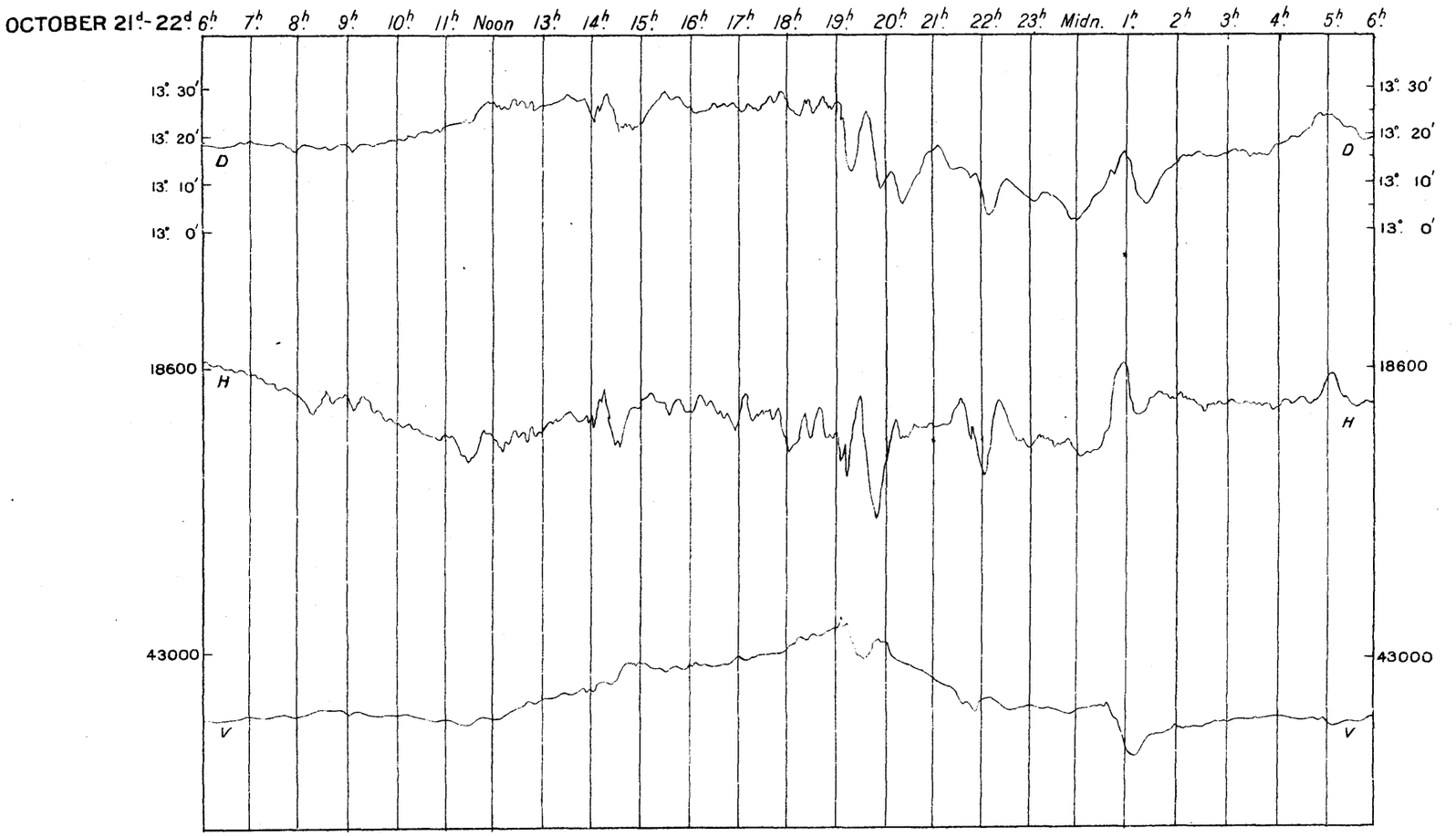
MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWIGH IN THE YEAR 1925.

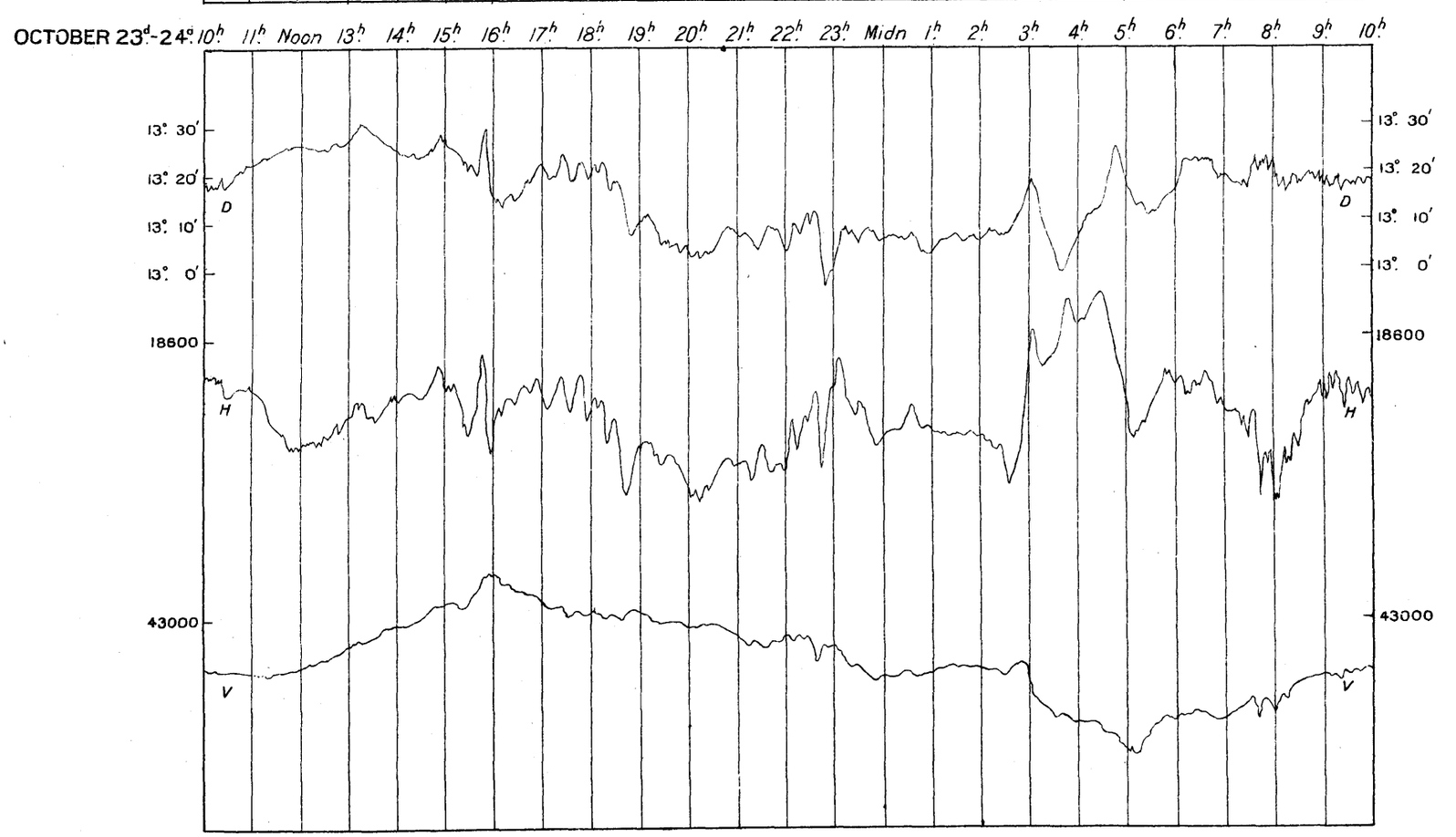


SCALES FOR MAGNETIC ELEMENTS IN C. G. S. UNITS.

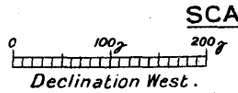


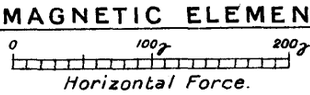
MAGNETIC DISTURBANCES AS RECORDED AT THE ABINGER (SURREY) MAGNETIC STATION IN THE YEAR 1925.





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





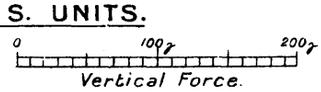


Plate V.

MAGNETIC DISTURBANCES AS RECORDED AT THE ROYAL OBSERVATORY, GREENWICH IN THE YEAR 1925..

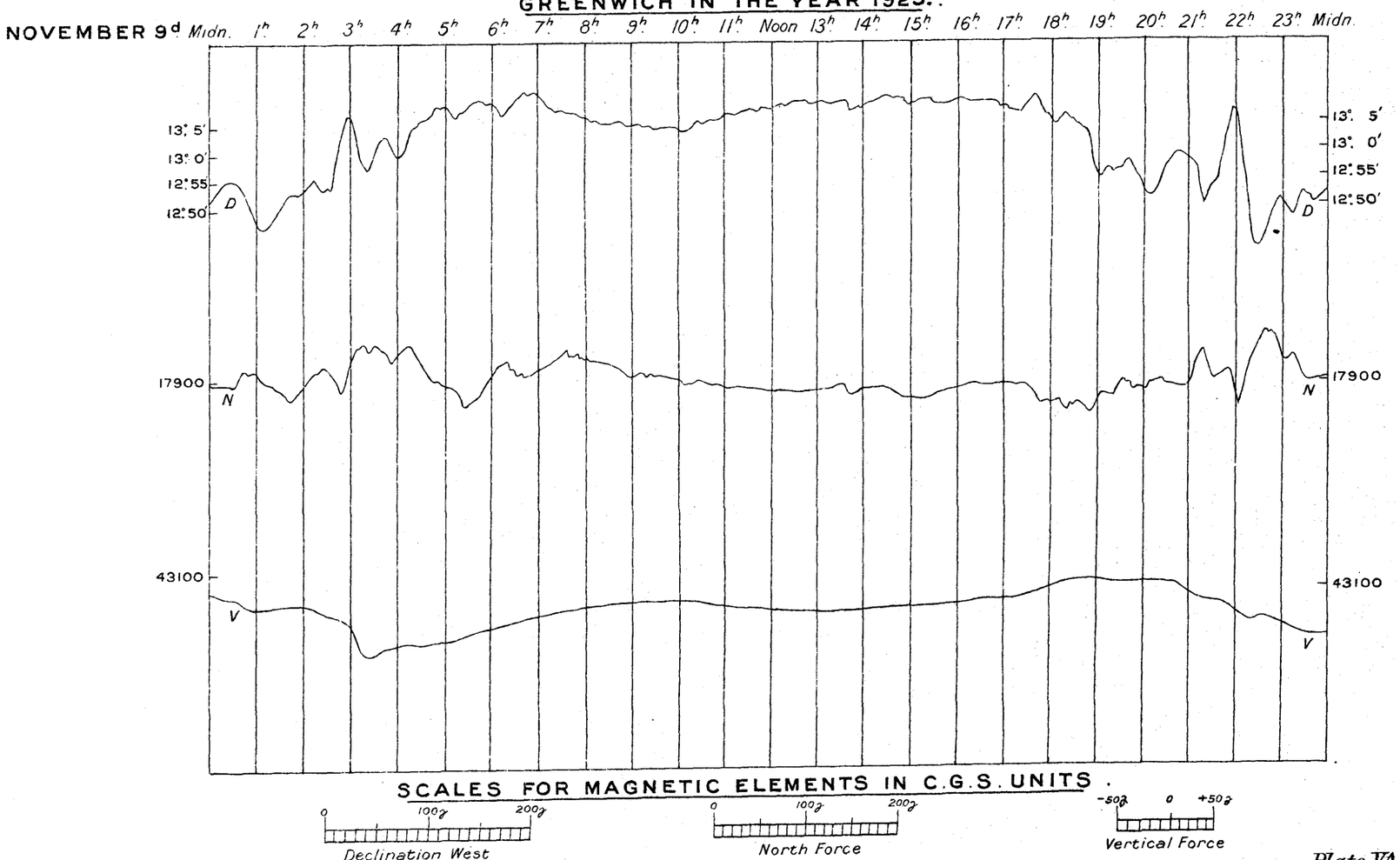
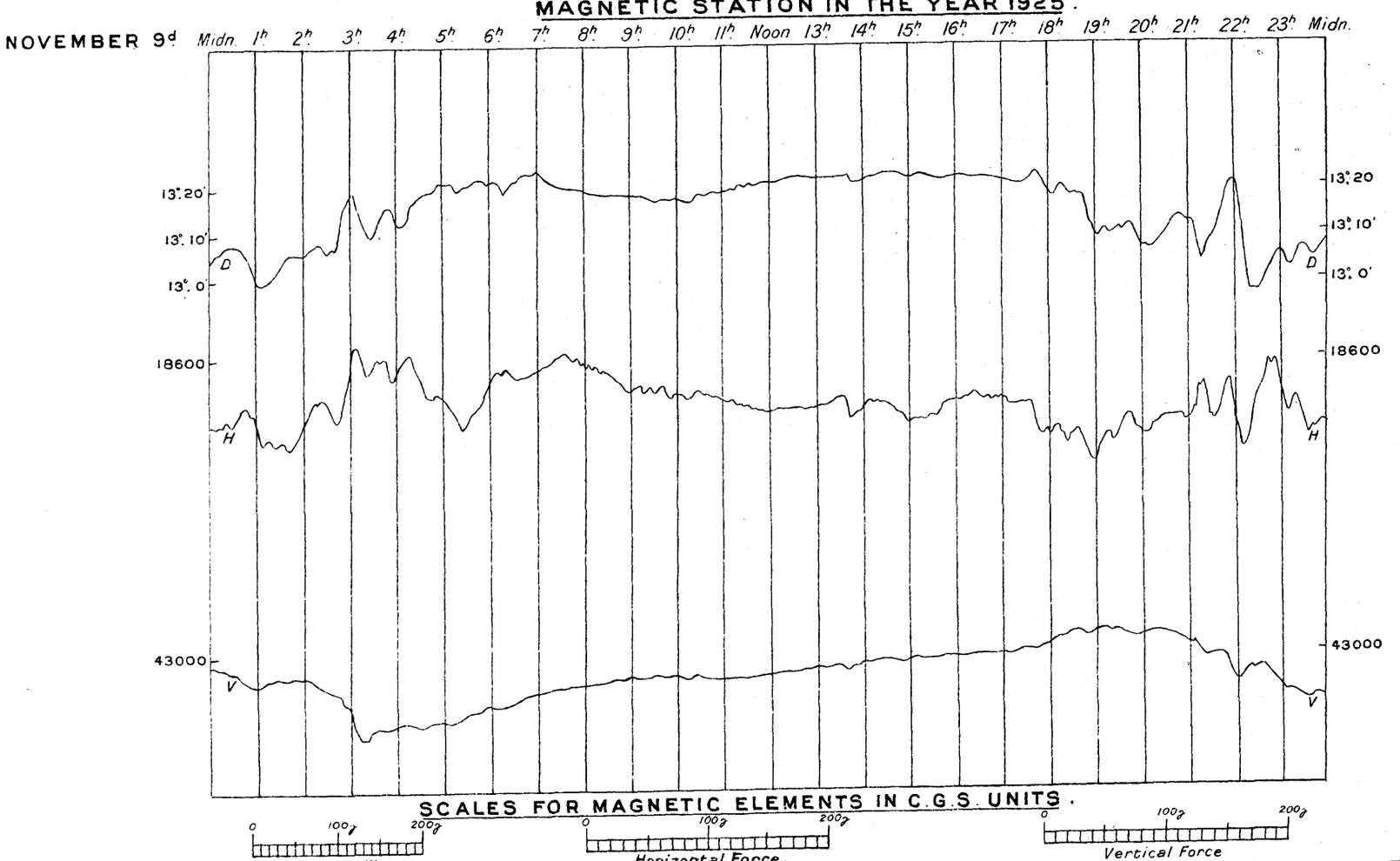


Plate VA.

MAGNETIC DISTURBANCES AS RECORDED AT THE ABINGER (SURREY) MAGNETIC STATION IN THE YEAR 1925.



ROYAL OBSERVATORY, GREENWICH.

Results of Meteorological Observations

1925

MONTH and DAY, 1925.	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	29·522	50·0	37·7	12·3	45·3	+ 6·7	42·6	39·5	5·8	8·7	3·3	80	56·0	31·0	46·3	0·169	... : wP : wP	0·0	7·9
2	29·149	54·7	42·8	11·9	49·9	+11·5	47·7	45·3	4·6	10·0	2·2	85	53·6	41·3	46·2	0·540	wP, wN : ... : wP	0·0	7·9
3	29·345	51·3	42·7	8·6	48·0	+ 9·7	44·8	41·3	6·7	12·6	2·0	78	56·9	40·8	46·1	0·057	wP	0·0	7·9
4	29·460	53·4	41·1	12·3	46·7	+ 8·4	42·9	38·7	8·0	13·5	0·8	74	76·7	34·3	46·0	0·000	wP	3·4	7·9
5	29·919	46·9	37·6	9·3	41·6	+ 3·4	39·2	36·2	5·4	9·1	3·0	82	72·9	30·1	46·0	0·000	wP	5·4	7·9
6	30·213	42·5	33·5	9·0	37·3	− 0·8	34·9	31·6	5·7	11·5	2·3	80	56·9	25·2	46·0	0·002*	wP : mP : mP	2·3	8·0
7	30·325	42·4	32·9	9·5	39·1	+ 1·1	37·0	34·3	4·8	6·3	2·4	83	47·4	24·0	46·0	0·002*	mP	0·0	8·0
8	30·064	45·0	37·3	7·7	42·1	+ 4·2	38·6	34·3	7·8	11·0	3·9	75	79·0	29·7	45·8	0·072	mP : wP : wP, v	3·1	8·0
9	29·999	47·0	32·4	14·6	43·3	+ 5·4	41·1	38·5	4·8	11·2	0·6	83	70·2	23·5	45·8	0·009	wwP, wP : wP : wP	1·7	8·1
10	30·355	43·7	28·1	15·6	34·7	− 3·2	33·6	31·8	2·9	9·0	0·0	89	52·0	19·4	45·3	0·000	wP : ... mP	1·4	8·1
11	30·329	34·2	27·0	7·2	30·3	− 7·6	30·0	29·2	1·1	2·0	0·0	96	39·2	20·0	45·0	0·000	...	1·2	8·1
12	30·200	33·7	27·3	6·4	30·0	− 7·9	29·8	29·2	0·8	2·0	0·0	96	35·6	27·3	44·8	0·005*	...	0·0	8·1
13	30·061	46·9	28·1	18·8	38·0	− 0·0	37·3	36·3	1·7	4·9	0·0	94	85·9	23·3	44·7	0·000	sP, mP : mP : mP	1·4	8·2
14	29·888	50·9	40·1	10·8	46·3	+ 8·3	45·1	43·8	2·5	7·4	1·2	92	53·3	39·8	44·6	0·073	wP : wP, mP : wP	0·0	8·2
15	30·139	54·0	31·2	22·8	46·2	+ 8·1	45·1	43·9	2·3	4·5	0·0	93	53·0	28·4	44·3	0·186	wP : wP, mP : ...	0·0	8·3
16	30·439	49·8	31·7	18·1	41·5	+ 3·2	41·2	40·9	0·6	1·5	0·0	98	53·9	30·8	44·3	0·008*	...	0·0	8·3
17	30·371	52·0	44·2	7·8	48·7	+10·2	47·4	46·0	2·7	7·2	0·8	91	73·2	35·7	44·6	0·000	... : wP : ...	0·1	8·4
18	30·435	47·6	38·0	9·6	42·6	+ 4·0	41·8	40·8	1·8	5·1	0·0	94	61·8	29·0	44·5	0·000	... : wP : ...	0·3	8·4
19	30·547	43·8	34·3	9·5	38·8	+ 0·1	38·8	38·8	0·0	1·7	0·0	100	54·1	27·6	44·8	0·000	... : ... : wP	0·0	8·4
20	30·496	40·0	34·5	5·5	37·6	− 1·2	36·9	36·0	1·6	3·1	0·0	94	47·0	35·1	44·6	0·000	wP	0·0	8·5
21	30·308	38·7	35·4	3·3	36·5	− 2·3	35·5	34·1	2·4	4·0	1·8	91	47·0	35·0	44·6	0·000	wwP	0·0	8·5
22	30·132	51·3	33·7	17·6	40·6	+ 1·8	38·7	36·3	4·3	12·0	0·5	85	81·2	30·0	44·6	0·000	wwP	5·1	8·6
23	30·096	50·1	39·0	11·1	44·3	+ 5·4	41·3	37·8	6·5	11·2	2·7	77	82·6	29·3	44·5	0·000	... : wwP, wP : wwP	4·3	8·6
24	30·191	47·2	36·2	11·0	40·8	+ 1·9	38·8	36·3	4·5	8·3	0·0	85	74·4	27·4	44·5	0·000	... : wwP : ...	3·9	8·7
25	30·223	42·2	34·1	8·1	38·4	− 0·7	37·7	36·8	1·6	5·6	0·5	94	52·2	24·9	44·4	0·021	wwP : ...	0·0	8·7
26	30·273	40·5	37·1	3·4	39·0	− 0·3	37·3	35·1	3·9	5·5	3·0	86	47·5	35·0	44·3	0·000	...	0·0	8·8
27	30·008	40·4	35·2	5·2	38·3	− 1·2	37·2	35·7	2·6	5·0	0·2	91	42·0	30·2	44·1	0·018	...	0·0	8·8
28	29·902	47·2	38·1	9·1	41·7	+ 2·1	40·9	39·9	1·8	4·9	0·7	94	71·0	34·5	44·1	0·369	...	0·5	8·9
29	29·859	53·2	35·4	17·8	44·8	+ 5·1	42·6	40·0	4·8	6·3	2·5	84	52·2	29·0	44·0	0·089	... : wP	0·0	8·9
30	29·862	54·1	47·3	6·8	51·2	+11·5	47·4	43·5	7·7	11·4	1·7	75	68·4	43·0	44·1	0·011	wP	0·0	9·0
31	29·814	54·3	40·0	14·3	49·0	+ 9·3	45·8	42·4	6·6	10·1	3·5	78	80·9	35·0	44·2	0·091	wwP, wP : wP : v, wP	0·3	9·0
Means	30·062	46·7	35·9	10·8	41·7	+ 3·1	40·0	37·9	3·8	7·3	1·3	87·0	60·6	30·6	44·9	Sum 1·722	...	1·1	8·4
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 HygrometricalTables. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly photographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

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

*Rainfall (Column 16). The amounts entered on January 6, 7, 12, and 16 are derived from fog or frost.

The mean reading of the *Barometer* for the month was 30in.062, being 0in.268 ***higher*** than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 54°·7 on January 2; the lowest in the month was 27°·0, on January 11; and the range was 27°·7.
The mean of all the highest daily readings in the month was 46°·7, being 3°·6 ***higher*** than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 35°·9, being 2°·2 ***higher*** than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 10°·8, being 1°·4 ***greater*** than the average for the 65 years, 1841–1905.
The mean for the month was 41°·7, being 3°·1 ***higher*** than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Jan. 1	0·0	0·00	0·0	0·00	SW	SW : SSW	23·0	1·75	644	10, slt.-r : 2	10, r, slt.-r, st.-w: 10, g : 10, r, st.-w
2	2·4	0·18	2·1	0·15	SW : SSW	SSW : SW	15·6	2·20	712	10, r, st.-w : 10, r, st.-w, g	10, n, r, st.-w : 10, st.-w, w, fq.-lu.-ha: 10, w
3	3·0	0·22	2·9	0·21	SW	SW : SSW : SSE	6·0	0·75	435	10, w : 10, n, w	10, n, w : 10, n, r : 10, m.-r
4	13·3	0·96	12·9	0·94	SSE : SW	SW	9·5	1·21	617	9, slt.-sh, w: 1, w : 1, w	3, w : 8, slt.-sh : 0, slt.-d, w
5	13·8	1·00	13·8	1·00	SW	SW : WSW	1·6	1·20	381	0, w : 0 : 1, h	p.-cl : 0, m
6	12·1	0·88	11·4	0·83	WSW : NW	NNW : WSW	1·1	0·10	287	0, ho.-fr : 0, m : 0, m, h	7, th.-cl, h : 1, m : 0, m, ho.-fr
7	0·0	0·00	0·0	0·00	WSW : SW	WSW	1·1	0·07	275	1, ho.-fr : 7 : 9, n	10, n : 10
8	2·9	0·21	2·4	0·17	SW : SSW	SSW	2·9	0·21	294	10 : 10 : p.-cl, th.-cl	8, th.-cl : 10, th.-cl : 10, lu.-ha, sh
9	13·6	0·99	13·2	0·96	SSW: WSW: NNW	NNW : NW : SW	3·0	0·25	323	10 : 10, r, m.-r : 9, cu.-s	8, th.-cl, ci, h : th.-cl : th.-cl, m, ho.-fr
10	9·2	0·69	8·7	0·66	SW : Calm	SW : Calm	0·1	0·00	144	0, h, ho.-fr: 0, m, ho.-fr: 0, ho.-fr, m, h	3, h : 0, m : 0, m, ho.-fr
11	0·0	0·00	0·0	0·00	Calm	Calm	0·0	0·00	33	0, m, f, ho.-fr : f, ho.-fr : f, ho.-fr	0, f, ho.-fr : f, ho.-fr
12	2·6	0·20	2·4	0·18	Calm	Calm	0·0	0·00	44	f, ho.-fr : f, ho.-fr	f, ho.-fr : f, ho.-fr
13	0·0	0·00	0·0	0·00	Calm : S	S	2·2	0·13	269	0, f, h, ho.-fr, m: 9, m : 10, m	9, s, n : 10, slt.-m.-r : 10
14	0·0	0·00	0·0	0·00	S : SSW	SSW	5·0	0·64	450	10 : 10, w, slt.-sh: 10, s, sc, r, w	10, r, slt.-r : 10, oc.-slt.-m.-r : 10, slt.-m.-r, w
15	4·1	0·31	1·2	0·09	SW : N	Calm	4·2	0·28	249	10, m.-r : 10, r : 10, r, glm	10, r, slt.-r : 2, f : tk.-f.
16	0·0	0·00	0·0	0·00	Calm	Calm : SW	0·5	0·01	109	f : f : 10, f, m, slt.-m.-r	10, m, slt.-m : 10, slt.-m : 10
17	6·4	0·48	6·3	0·48	SW : WSW	W : WSW	1·3	0·08	245	10 : 10 : 10, s, slt.-, m-r.-sh	10, n : 5 : 9
18	5·4	0·41	4·4	0·33	W : Calm	WSW : Calm	0·5	0·01	165	7 : 0, f : f, th.-cl	8, th.-cl, slt.-f : 5, th.-cl : 3, th.-cl
19	0·0	0·00	0·0	0·00	Calm	Calm : ESE	0·1	0·00	111	0, f : f : 10, m	10, n, ci, m : 10, m : 10, m, f
20	0·0	0·00	0·0	0·00	Calm	Calm : SE	0·2	0·00	110	10, m, f : 10, m, f : 10, m	10, m : 10
21	0·0	0·00	0·0	0·00	Calm : SSE	Calm : SE	0·2	0·00	120	10 : 10, n	10, n : 10
22	9·0	0·68	7·5	0·57	Calm : SE	SSE : S	1·6	0·06	173	10 : 10 : 9, th.-cl, ci.-s	8, ci.-s : 2 : 1
23	10·8	0·81	10·5	0·79	S : SW	WSW : SW	2·0	0·19	343	4 : 4 : 3, th.-cl	6, cu.-s, n, ci: 6, slt.-shs : 1
24	4·3	0·33	3·6	0·28	WSW	WSW : Calm	1·2	0·09	261	0, slt.-ho.-fr : 0 : 1, cu.-s.	6 : 6 : 3
25	0·0	0·00	0·0	0·00	Calm	ENE : E	1·2	0·05	145	10, f : 10, f : 10, s, n, f	10, slt.-sh : 10, r : 10
26	2·5	0·20	2·3	0·18	E	E	3·0	0·43	380	10 : 10	10 : 10
27	0·0	0·00	0·0	0·00	E	E	1·3	0·12	247	8 : 10 : 10, r, slt.-r	10, n : 10 : 10, slt.-m.-r
28	7·3	0·57	1·9	0·15	Calm : SW	SSW : WSW	1·9	0·08	219	10, slt.-r, r : 10, th.-cl, m	9, cu.-s, r : 10, r, slt.-r : 3, slt.-m.-r
29	0·0	0·00	0·0	0·00	WSW : SSW	SW : WSW	10·0	1·15	613	0 : 8 : 10, r, w	10, r, oc.-m.-r, w: 10, oc.-slt.-m.-r, st.-w: 9, st.-w
30	0·2	0·02	0·1	0·01	WSW : NW	WSW	12·0	0·78	582	10, oc.-m.-r, w : 10, oc.-slt.-m.-r: 10, n, w	10, w : 10, w
31	7·7	0·61	7·5	0·60	WSW	SW : W	14·5	1·63	700	10, w : 10, st.-w : 10, cu.-n, st.-w	10, w, st.-w : 10, sh, st.-w, w : 8, w, sh
Means	4·2	0·31	3·7	0·28	...	...	...	0·40	312		
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 40°·0, being 2°·8 *higher* than
The mean *Temperature of the Dew Point* for the month was 37°·9, being 2°·6 *higher* than
The mean *Degree of Humidity* for the month was 87·0, being 1·0 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·228, being 0in·022 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·6, being 0grs·2 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 555 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 7·5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·133, The maximum daily amount of *Sunshine* was 5·4 hours on January 5.

The highest reading of the *Solar Radiation Thermometer* was 85°·9 on January 13; and the lowest reading of the *Terrestrial Radiation Thermometer* was 19°·4 on January 10.

The *Proportions of Wind* referred to the cardinal points were N.0, E.4, S.10, W.10. Seven days were calm.

The *Greatest Pressure of the Wind* in the month was 23·0 lbs. on the square foot on January 1. The mean daily *Horizontal Movement of the Air* for the month was 312 miles; the greatest daily value was 712 miles on January 2, and the least daily value was 33 miles on January 11.

Rain (0in·005 or over) fell on 15 days in the month, amounting to 1in·722, as measured by gauge No. 6 partly sunk below the ground; being 0in·159 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	30·108	46·1	36·1	10·0	40·6	+ 1·0	37·2	32·9	7·7	11·2	4·2	74	71·2	29·0	44·2	0·000	... : ... : wP, mP	1·7	9·1
2	30·314	47·9	33·9	14·0	40·8	+ 1·3	38·1	34·7	6·1	10·6	2·2	79	71·0	24·7	44·4	0·000	mP : mP, wP : wP	0·2	9·2
3	30·241	54·0	42·2	11·8	48·7	+ 9·2	46·5	44·1	4·6	6·8	0·8	85	73·1	36·7	44·4	0·024	wP	0·1	9·2
4	30·286	52·9	43·3	9·6	48·4	+ 8·9	45·3	41·9	6·5	13·5	1·5	79	84·7	32·8	44·4	0·000	wwP, wP : wP : wP	4·6	9·3
5	30·081	54·2	46·4	7·8	49·6	+10·0	47·1	44·4	5·2	9·0	2·8	83	97·0	41·3	44·5	0·000	wP	2·5	9·3
6	29·708	48·9	37·1	11·8	44·6	+ 5·0	42·6	40·3	4·3	8·4	1·7	85	58·6	31·3	44·5	0·401	wP : v, mP : mP	0·0	9·4
7	29·756	44·3	33·1	11·2	37·0	− 2·5	34·4	30·7	6·3	11·3	2·8	78	72·9	23·9	44·5	0·000	wP, mP : mP : mP	5·7	9·4
8	29·495	54·3	36·2	18·1	48·0	+ 8·7	46·0	43·8	4·2	6·5	1·7	86	73·1	27·9	44·8	0·093	wP	0·5	9·5
9	29·599	53·5	43·4	10·1	50·5	+11·4	45·9	41·1	9·4	13·7	5·6	71	92·0	35·5	44·6	0·013	wP	5·3	9·6
10	29·660	55·1	41·3	13·8	48·3	+ 9·4	45·7	42·9	5·4	7·8	3·9	82	89·3	33·1	44·8	0·000	wP	0·6	9·6
11	29·257	52·5	37·9	14·6	50·3	+11·5	46·7	42·9	7·4	10·6	4·6	77	66·3	35·1	44·8	0·070	wP : wP : wP, v	0·1	9·7
12	29·254	45·0	35·2	9·8	39·6	+ 0·8	37·3	34·3	5·3	9·1	3·0	82	90·0	31·3	44·9	0·102	wP : v, wP : wP, v	4·2	9·7
13	28·993	46·7	40·2	6·5	43·2	+ 4·2	42·1	40·7	2·5	4·8	0·7	91	56·0	35·0	45·0	0·815	wP, v : vN : mP, v	0·0	9·8
14	28·930	45·6	35·2	10·4	39·6	+ 0·3	38·1	36·2	3·4	7·5	1·5	88	102·4	29·2	44·9	0·189	v : mP : v, mP	1·8	9·9
15	29·144	46·7	33·6	13·1	39·6	+ 0·2	38·3	36·6	3·0	7·1	0·0	90	69·4	24·7	45·0	0·012	vN, wP : wP : wP	0·0	9·9
16	29·284	48·4	33·1	15·3	39·2	− 0·3	37·3	34·8	4·4	9·4	0·5	85	88·8	23·1	44·7	0·003*	wP	5·6	10·0
17	29·405	45·8	35 4	10·4	39·1	− 0·5	37·3	35·0	4·1	9·9	1·2	86	65·8	28·2	44·5	0·018	wP : wP : mP, wP	0·5	10·1
18	29·560	46·9	34·6	12·3	39·5	− 0·0	37·1	34·0	5·5	9·2	1·2	81	89·5	27·8	44·3	0·015	wP : mP : v, mP	2·5	10·1
19	29·679	41·4	34·9	6·5	37·4	− 2·1	35·6	33·1	4·3	10·1	1·7	85	67·5	26·9	44·1	0·026	mP : mP : mP, wP	1·4	10·2
20	29·740	45·6	34·7	10·9	38·5	− 1·0	36·1	32·9	5·6	13·3	2·2	81	92·4	31·1	44·0	0·000	wP, mP : mP : mP	2·0	10·3
21	29·677	42·9	30·8	12·1	35·7	− 3·9	33·4	29·8	5·9	9·8	4·0	79	82·6	24·2	43·9	0·000	wP, mP : mP, wP : wP	2·3	10·3
22	29·695	40·1	28·8	11·3	33·8	− 5·9	31·9	28·5	5·3	9·3	2·9	80	72·2	20·2	43·9	0·005	wP	0·2	10·4
23	29·343	38·9	32·7	6·2	36·1	− 3·7	35·3	34·1	2·0	7·2	0·7	93	50·4	27·1	43·7	0·140	wP : wP, vN : wP	0·0	10·4
24	29·210	42·7	29·0	13·7	36·7	− 3·3	35·7	34·3	2·4	6·7	1·3	92	76·0	21·8	43·6	0·239	wP : wP, v : v, mP	1·5	10·5
25	29·021	46·0	35·2	10·8	40·8	+ 0·7	39·0	36·7	4·1	9·1	0·9	86	86·7	29·0	43·4	0·354	wP : wP, vN : wP	2·5	10·6
26	28·605	48·9	40·4	8·5	44·2	+ 4·0	42·2	39·8	4·4	8·9	2·5	84	99·8	35·9	43·2	0·557	wN : wP, v : v, wP	2·8	10·6
27	28·736	50·2	39·6	10·6	43·2	+ 2·9	40·2	36·6	6·6	9·0	4·3	78	102·0	32·9	43·1	0·045	wP	2·2	10·7
28	29·153	54·2	38·5	15·7	44·4	+ 4·1	41·0	37·1	7·3	15·6	1·8	75	113·5	30·0	43·2	0·000	... : wP : wP	6·7	10·8
																Sum			
Means	29·498	47·8	36·5	11·3	42·1	+ 2·5	39·8	36·9	5·1	9·5	2·2	82·7	80·5	29·6	44·3	3·121	...	2·1	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.

*Rainfall (Column 16). The amount entered on February 16 is derived from frost.

The mean reading of the *Barometer* for the month was 29in·498, being 0in·304 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°·1 on February 10; the lowest in the month was 28°·8 on February 22; and the range was 26°·3.
The mean of all the highest daily readings in the month was 47°·8, being 2°·6 higher than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 36°·5, being 2°·3 higher than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 11°·3, being 0°·3 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 42°·1, being 2°·5 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	Record of the Night Sky.				Wind as Deduced from Self-Registering Anemometers.					Clouds and Weather.	
	Polaris.		δ Ursæ Minoris.		Osler's.				Robinson's.		
					General Direction.		Pressure on the Square Foot.			A.M.	P.M.
	Duration.	Fraction of Total Exposure.	Duration.	Fraction of Total Exposure.	A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.	Horizontal Movement of the Air.		
	hours.		hours.				lbs.	lbs.	miles.		
Feb. 1	12·0	0·96	11·9	0·95	W	W	3·5	0·43	455	1 : 1, th.-cl,w:,8 th.-cl, ci.-s,w	10, w : 6 : 5
2	6·5	0·52	6·3	0·50	WSW	WSW	2·0	0·15	333	0, h, ho.-fr: 1, ho.-fr : 9, fr.-cu	9, cu : 3 : 3, ci.-cu, d
3	4·5	0·36	4·1	0·33	WSW	WSW	3·3	0·35	436	9, sh : 10 :10, n, s, oc.-slt.-r	10, n, oc.-slt.-r : 9 : v.-cl
4	7·5	0·60	6·1	0·48	WSW : WNW	W : SW	2·2	0·23	341	10, m.-r : 10 : 7, cu.-s,h	7, h : 2, cu.-s : 3, d
5	1·5	0·12	0·8	0·07	SW	SW	4·9	0·85	495	10 : 10, slt.-sh : 9, w	9, w :10, w : 9, w
6	12·4	0·99	12·2	0·97	SW : N	WSW	3·2	0·44	389	9, r, w : 10, r : 10, n, r	10, so.-ha, prh : 3, h : 2, m
7	4·5	0·37	3·9	0·32	WSW : W	WNW : SW : SSW	1·9	0·20	334	0, ho.-fr : 0, ho.-fr : 5, cu	8, cu : 3, slt.-m : 7, ho.-fr, lu.-ha
8	2·8	0·23	2·6	0·22	SSW : WSW	WSW	9·2	0·99	604	10, r, slt.-r : 10, slt.-r, r : 10, n	10, w :10, w, st.-w :10, slt.-m.-r, st-w
9	11·0	0·92	10·2	0·85	WSW	WSW : SW : W	15·0	1·75	762	10, slt.-shs, w : 9, w : 6, cu, w	9, cu, w : 10,w,st.-w, g : 1, g,st.-w,w
10	1·8	0·15	0·5	0·04	WSW : SW	SW	10·7	1·20	592	0, w : 0 : 9, w, slt.-m.-r	10, fq.-slt.-m.-r,w: 10, w : 10,slt.-sh, w
11	5·5	0·46	5·1	0·42	SW	SSW	21·0	1·92	724	10, w : 10, st.-w :10, fq.-slt.-m.-r,w	10, slt.-m.-r, w : 10, oc.-slt.-m.-r, w : 10, r, st.-w
12	4·7	0·39	3·9	0·33	WSW : SSW	SSW	4·8	0·35	402	2 : 9 : 9, sl.-shs	1, p.-so.-ha : 7, shs
13	0·7	0·06	0·3	0·02	SSE : SSW	SSW : SE	11·1	0·74	391	9, r : 10, r, w, st.-w, w: 10, n, r, w	10, n, r : 9, sh
14	7·3	0·64	5·2	0·44	SW : SSW	SSW : S	4·1	0·14	280	10, r : 8 : 8, slt.-sh	8, n, s, shs : 8, sh : 1
15	5·8	0·49	3·6	0·31	S : SSE	Calm	0·9	0·03	159	4, sh : p.-cl : 9, n	10, n : 2, m : 1, m
16	4·3	0·39	3·4	0·30	Calm : SW	SW : SSW	1·2	0·04	217	1, slt.-ho.-fr : 7 : 2, cu, h	9, cu.-s, n : 4 : 4
17	9·5	0·81	8·9	0·75	Calm : WSW	WSW	2·6	0·13	309	9, r, sl.-sh : 10 :10, n, slt.-m.-r.-sh	9, n : 3 : p.-cl
18	5·3	0·45	4·6	0·39	SW : WSW	SW : WSW	2·6	0·28	404	3, ho.-fr : 1 : 9, cu.-s	7, cu : 8,r,oc.-slt.-r,h,m : 1,th.-cl,h,m
19	1·1	0·09	0·7	0·06	WSW	NNW : N	1·4	0·05	223	9 : 10,r,m.-r,m: 7, cu, n	9 : 10
20	0·0	0·00	0·0	0·00	NNW : N	N : Calm	0·9	0·03	170	10 : 10 : 9, cu.-n	7, cu.-s : 10 : 10
21	4·0	0·36	2·3	0·21	Calm : E	E : Calm	0·9	0·03	139	10 : 9	9 : 10
22	8·0	0·71	7·2	0·64	Calm	S : SSE	0·2	0·01	120	10, slt.-ho.-fr : 10,slt.-sn,m:10,n,oc.-slt.-sn	10 : 8 : 6, sn.-shs, ho.-fr
23	7·5	0·66	7·0	0·63	SSE	SSE : Calm : SW	2·9	0·20	269	0 : 9 : 10, slt.-r, sl, w	10, r, sl : 10, r : p.-cl
24	8·7	0·77	7·9	0·71	SW : SSE	SSE : SSW : S	5·4	0·23	324	0, ho.-fr : 0 : 7,th.-cl,so.-ha	10,n,r,sl,w : 7, r.-sq : 1
25	2·0	0·17	1·7	0·15	S	S : SSW	6·5	0·37	424	1, slt.-ho.-fr : 1, ci : 9, n, s	10,r,hy.-r,w: 9, r : 8, cu, r
26	4·3	0·38	3·9	0·34	S	S	7·3	0·89	538	10, r, w : 10, r, w : 9, r, sq,w	9, shs, w : 9, r, w : 9, r
27	4·6	0·41	4·1	0·36	SSW	SSW : SW	7·2	0·80	562	3 : 3, w : 9, w	9, oc.-slt.-m.-r,w: 7, w, slt.-sh : 9, sh, w
28	10·8	1·00	10·7	0·99	SW : SSW	SW : S	2·5	0·25	372	8, slt.-shs, w : 9, slt.-sh : 6	7 : 1 : 0
Means	5·6	0·48	5·0	0·42	...	...	...	0·47	385		
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°·8, being 2°·1 *higher* than
The mean *Temperature of the Dew Point* for the month was 36°·9, being 1°·5 *higher* than
The mean *Degree of Humidity* for the month was 82°·7, being 2°·8 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·219, being 0in·012 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·5, being 0grs·1 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 545 grains, being 8 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 7·3.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·207. The maximum daily amount of *Sunshine* was 6·7 hours on February 28.
The highest reading of the *Solar Radiation Thermometer* was 113°·5 on February 28; and the lowest reading of the *Terrestrial Radiation Thermometer* was 20°·2 on February 22.
The *Proportions of Wind* referred to the cardinal points were N. 2, E. 1, S. 12, W. 11. Two days were calm.
The *Greatest Pressure of the Wind* in the month was 21·0 lbs. on the square foot on February 11. The mean daily *Horizontal Movement of the Air* for the month was 385 miles; the greatest daily value was 762 miles on February 9; and the least daily value was 120 miles on February 22.
Rain (0in·005 or over) fell on 18 days in the month, amounting to 3in·121, as measured by gauge No. 6 partly sunk below the ground; being 1in 641 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	Barometer.	Temperature.							Difference between the Air Temperature and Dew Point Temperature.			Degree of Humidity (Saturation = 100).	Temperature.			Rain collected in Guage 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	29·423	50·2	35·5	14·7	41·4	+ 1·0	40·1	38·5	2·9	7·9	0·2	90	98·3	27·4	43·1	0·035	wP, mP : mP : v	0·9	10·8
2	29·813	47·0	38·9	8·1	42·3	+ 1·9	40·4	38·1	4·2	6·9	2·2	86	79·5	30·8	43·1	0·002*	v, mP : mP, wP : wP	0·5	10·9
3	30·046	46·1	38·2	7·9	40·7	+ 0·2	38·3	35·3	5·4	11·6	3·5	82	89·0	35·8	43·1	0·033	wwP, wP : wP : wP, wN	0·4	11·0
4	30·260	44·0	37·6	6·4	40·2	− 0·5	36·9	32·6	7·6	10·1	3·1	74	91·0	31·7	43·2	0·000	wP : wP, sP : sP, mP	0·9	11·0
5	30·195	49·6	39·6	10·0	43·5	+ 2·6	40·1	36·1	7·4	11·8	3·0	75	77·0	32·9	43·2	0·000	mP : mP, sP : sP, mP	0·2	11·1
6	29·897	50·1	42·3	7·8	46·5	+ 5·5	43·6	40·3	6·2	7·7	4·0	80	61·3	35·4	43·3	0·000	mP	0·0	11·2
7	29·689	54·2	44·2	10·0	48·2	+ 7·2	44·5	40·4	7·8	13·9	3·4	75	100·9	36·1	43·4	0·004	wP, mP : mP : mP	1·4	11·2
8	29·615	44·9	31·0	13·9	39·7	− 1·4	36·0	31·2	8·5	15·9	2·6	72	97·8	23·9	43·5	0·045	... : vv, wP	6·4	11·3
9	29·935	42·9	29·9	13·0	35·7	− 5·3	32·2	26·9	8·8	16·9	2·7	70	90·0	23·0	43·5	0·002*	wP : wP : wP, v	6·1	11·3
10	30·181	44·1	32·2	11·9	37·7	− 3·2	33·4	27·5	10·2	17·9	2·3	67	91·3	24·9	43·7	0·000	wP : wP, mP : mP	5·9	11·4
11	30·048	44·0	32·5	11·5	36·7	− 4·3	34·5	31·3	5·4	11·6	2·0	82	91·1	27·6	43·3	0·061	... : wP, mP	2·1	11·5
12	30·197	39·3	29·7	9·6	33·8	− 7·3	30·9	25·7	8·1	15·2	3·2	71	111·3	22·2	43·2	0·000	mP, ... : wP	5·9	11·6
13	30·205	43·1	24·0	19·1	34·2	− 7·1	31·1	25·7	8·5	14·6	2·7	72	85·1	11·0	43·1	0·117	wP : mP, vN	1·6	11·6
14	29·941	53·0	39·2	13·8	45·3	+ 3·8	43·0	40·4	4·9	11·4	1·6	83	90·0	36·7	43·0	0·023	wP : mP : mP, wP	0·7	11·7
15	30·137	51·7	36·0	15·7	46·9	+ 5·2	43·3	39·2	7·7	11·5	1·9	76	110·9	25·3	43·0	0·000	... : wP : wP	1·2	11·7
16	30·363	55·3	35·4	19·9	45·5	+ 3·6	42·0	38·0	7·5	13·3	1·4	75	110·6	24·6	43·0	0·000	wP	6·7	11·8
17	30·256	54·6	39·4	15·2	46·8	+ 4·8	44·0	40·8	6·0	11·1	3·2	80	97·9	32·8	43·0	0·000	wP	1·0	11·9
18	30·314	50·4	30·9	19·5	39·6	− 2·4	36·9	33·4	6·2	13·9	0·0	79	111·4	23·9	43·0	0·000	wP	8·5	12·0
19	30·287	50·3	26·9	23·4	40·0	− 1·9	36·9	32·9	7·1	12·8	0·4	75	74·3	22·6	43·1	0·000	wP : wP : sP	1·4	12·0
20	29·975	47·4	35·0	12·4	43·9	+ 2·0	40·7	37·6	6·9	9·8	1·3	76	51·7	32·8	43·3	0·092	mP : mP : mP, v	0·0	12·1
21	29·831	43·1	32·1	11·0	35·3	− 6·6	33·6	31·0	4·3	10·9	3·0	84	99·4	27·5	43·2	0·026	wP, mP : mP : v, wP	1·2	12·1
22	29·954	45·2	31·1	14·1	35·5	− 6·5	33·6	30·7	4·8	9·6	1·1	82	101·0	23·0	43·3	0·068	wP : v, mP	3·0	12·2
23	29·962	45·2	27·3	17·9	36·4	− 5·8	33·4	29·0	7·4	13·4	2·0	75	76·9	21·9	43·3	0·000	mP	2·1	12·3
24	29·715	51·0	37·0	14·0	41·9	− 0·5	39·0	35·4	6·5	14·3	1·8	79	111·3	28·4	43·2	0·070	wP, vN : mP : mP, v	1·4	12·3
25	29·656	48·9	32·2	16·7	38·9	− 3·8	36·3	32·8	6·1	13·4	1·5	80	88·9	22·8	43·0	0·024	wP : wP, v : v, mP	0·8	12·4
26	29·816	47·7	34·2	13·5	39·7	− 3·3	36·8	33·1	6·6	13·7	1·6	78	90·2	26·1	43·0	0·002*	wP, mP : mP : mP	0·8	12·5
27	29·826	44·1	35·7	8·4	39·9	− 3·4	36·6	32·4	7·5	12·0	3·6	75	67·4	28·1	43·0	0·000	mP	0·1	12·5
28	30·022	50·4	34·3	16·1	39·6	− 4·1	36·5	32·5	7·1	11·7	3·6	76	114·0	26·2	43·0	0·000	wP, mP	0·9	12·6
29	30·091	49·1	31·7	17·4	41·1	− 3·0	37·7	33·4	7·7	11·1	4·2	74	75·7	20·0	43·0	0·000	mP, wP : wP : wP, mP	0·0	12·7
30	30·005	49·7	42·9	6·8	45·3	+ 0·8	41·6	37·3	8·0	10·8	4·8	74	73·0	39·3	43·0	0·000	wP : mP, wP : mP, wP	0·0	12·7
31	29·792	51·3	40·7	10·6	45·8	+ 0·9	42·6	38·9	6·9	11·8	3·9	77	86·5	31·6	43·0	0·000	wP	0·1	12·8
Means	29·982	48·0	34·8	13·2	40·9	− 1·0	38·0	34·1	6·8	12·2	2·4	77·2	90·2	27·6	43·2	Sum 0·604	...	2·0	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 2, 9, and 26 are derived from frost or dew.

The mean reading of the *Barometer* for the month was $29^{in}\cdot982$, being $0^{in}\cdot236$ *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°·3 on March 16; the lowest in the month was 24°·0 on March 13; and the range was 31°·3.
The mean of all the highest daily readings in the month was 48°·0, 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 34°·8, being 0°·3 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 13°·2, being 1°·5 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 40°·9, being 1°·0 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	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	1·5	0·14	0·9	0·08	SSE : Calm	SSE : Calm	0·3	0·01	159	0, slt.-ho.-fr : 3, cu.-s, w	9, m : 10, shs : 10
2	1·3	0·12	0·8	0·07	NE : NNE	NNE : N	2·0	0·15	327	10 : 1, h, d	10, n : 10
3	0·8	0·07	0·5	0·05	N : NNE	NNE	5·3	0·66	605	10 : 10, w	10, cu.-n, st.-w : 10, slt.-r, w : 10, sh, w
4	3·2	0·29	3·0	0·27	N : NNE	NNE : N	3·5	0·43	491	10, w : 10, cu.-s, w	10, n, cu.-s : 9, th.-cl, lu.-ha : 6, slt.-sh
5	1·5	0·14	0·9	0·08	NNW : NW	WNW : W : WSW	2·0	0·12	277	10 : 10, m : 10, n	9 : 10
6	0·0	0·00	0·0	0·00	WSW : W	WSW	2·3	0·31	409	10 : 10, n	10, cu.-n : 10, slt.-m.-r.-shs
7	3·8	0·36	3·5	0·33	SW : W	WNW : WSW	4·0	0·36	444	10 : 10 : 9, cu, n	10 : v.-cl : 9, sh
8	10·5	1·00	10·5	1·00	WSW : W : WNW	NW: NNW:WNW	9·4	0·71	540	10, shs, w : v.-cl, w, st.-w	v.-cl,sl.-shs,st.-w,w : v.-cl, sl.-sh, sn : 2, m,ho.-fr
9	10·3	0·98	10·2	0·97	WNW : NW	NW	5·3	0·38	460	0, ho.-fr : 0 : 2,th.-cl,h	1, h : 1 : 2, h,sn.-sh
10	1·3	0·12	0·0	0·00	NW : NNW	NNW:NW : WSW	2·5	0·24	369	0, ho.-fr : 0, h : 0, h	1, h, fr.-cu : 7, th.-cl, so.-ha : 10, th.-cl. lu.-ha
11	9·0	0·86	8·4	0·80	WSW: NW : NNE	NNE : NNW	4·4	0·19	372	10, sh, sn : 10, r, slt.-r, m : 10, cu.-n, m	9,slt.-sl.-sh: 3, sn.-sh : 1, ho.-fr
12	10·5	1·00	10·5	1·00	NNW : NNE	NNE : NNW	4·2	0·26	373	6, ho.-fr : v.-cl,oc.-slt. sn : p.-cl,slt.-sn.-sh	4, slt.-sn.-shs : 2, sn.-sh : 0, ho.-fr
13	0·0	0·00	0·0	0·00	SW	SW : WSW	4·0	0·28	415	0, ho.-fr : 0, ho.-fr:8, th.-cl,fq.-so.-ha	10, w : 10, r, w
14	0·0	0·00	0·0	0·00	SW : WNW	WNW	1·2	0·10	314	10 : 10 : 8, cu, h	9, s, n : 10,oc.-m.-r, r : 10, slt.-r
15	5·0	0·49	4·6	0·45	NW: NNW : NNE	NNE : Calm	1·3	0·06	197	10 : 10, m.-r : 9, m.-r	10 : 6 : 3
16	1·3	0·12	1·0	0·09	Calm : SW	SW	1·5	0·09	225	8 : 9 : p.-cl, th.-cl, h	0, h : 8 : 8
17	8·7	0·85	8·7	0·85	W : NW : NNW	N : NNE	1·4	0·11	273	9 : 9	9 : 8 : 1
18	10·3	1·00	10·3	1·00	NNE : ENE	ENE : E : Calm	1·6	0·06	185	0, ho.-fr : 1 : 2, h	1, h : 0, h : 0, h, ho.-fr
19	0·0	0·00	0·0	0·00	Calm	Calm	0·1	0·00	118	0, ho.-fr : 0, ho.-fr : o, tk.-h,glm,m	9, cu.-n, m : 10, m
20	1·5	0·14	1·4	0·13	Calm : WSW	WSW : N	2·4	0·10	220	10, m : 10, n	10, oc.-slt.-m.-r : 10,oc.-m.-r, r : 10, r, m.-r
21	2·5	0·26	2·1	0·22	NNW	N : NNW	2·6	0·11	251	9, slt.-ho.-fr : 2 : 10	9, oc.-sn : 4, sn.-sh : 7,m.-r.-sh
22	9·3	0·96	0·0	0·00	N	N : NE : NNW	4·0	0·15	290	10 : 10,cu.-s,n,sn.-sh: 9, slt.-sn.-sh	8, cu.-s, n, sn.-shs : 0
23	4·7	0·49	4·6	0·49	NW : Calm	WSW : SW	0·8	0·03	205	0 : 0, m, h : 9,th.-cl,h	9, h : 3 : 6
24	5·5	0·58	5·1	0·54	SW	W : WSW	1·4	0·08	250	10, slt.-sh : 10, m.-r, r : 10, cu, n	10, n, cu.-s : 10, r : 10
25	6·4	0·68	6·2	0·65	WSW : Calm	Calm	0·5	0·01	139	5, ho.-fr : 7 : 8, cu, h, glm	8, sh : 1, h : tk, h
26	0·8	0·08	0·4	0·04	Calm : NNE	NNE : N	4·0	0·30	382	0, h, slt.-ho.-fr : 6, slt.-ho.-fr : 10	9, w : 9 : 10
27	9·1	0·97	8·9	0·95	N	N : NNE	4·1	0·59	480	10 : 10	10, cu, n : 10 : 1, ho.-fr
28	6·1	0·67	5·6	0·62	N : NNW	N : NNW	2·7	0·20	300	3, ho.-fr : 8, ho.-fr : 9, oc.-m.-r	9, n : 10 : 1
29	0·0	0·00	0·0	0·00	Calm : WSW	WNW : W	1·6	0·10	284	4 : 9, oc.-slt.-m.-r : 10, n, s, slt.-m	10 : 10
30	0·0	0·00	0·0	0·00	WSW : SW	SW : SSW	1·8	0·15	297	10 : 10, n, s	10 : 10
31	5·0	0·55	4·0	0·44	SSW	SSW	2·1	0·17	278	10 : 10, n, oc.-slt.-m.-r	10, cu.-n : 10 : 7, lu.-ha
Means	4·2	0·42	3·6	0·36	...	...	...	0·21	320		
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 38°·0, being 1°·4 *lower* than
The mean *Temperature of the Dew Point* for the month was 34°·1, being 2°·2 *lower* than
The mean *Degree of Humidity* for the month was 77·2, being 3·3 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·196, being 0in·018 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·3, being 0grs·2 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 555 grains, being 6 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·4.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·170. The maximum daily amount of *Sunshine* was 8·5 hours on March 18.
The highest reading of the *Solar Radiation Thermometer* was 114°·0 on March 28; and the lowest reading of the *Terrestrial Radiation Thermometer* was 11°·0 on March 13.
The *Proportions of Wind* referred to the cardinal points were N. 12, E. 2, S. 4, W. 10. Three days were calm.
The *Greatest Pressure of the Wind* in the month was 9·4 lbs. on the square foot on March 8. The mean daily *Horizontal Movement of the Air* for the month was 320 miles; the greatest daily value was 605 miles on March 3; and the least daily value was 118 miles on March 19.
Rain (0in·005 or over) fell on 11 days in the month, amounting to 0in·604, as measured by gauge No. 6 partly sunk below the ground; being 0in·916 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·734	52·5	34·9	17·6	44·0	− 1·3	40·7	36·8	7·2	14·6	2·8	75	102·1	25·7	43·0	0·046	wP : mP : mP	1·2	12·9
2	29·735	55·6	32·4	23·2	43·8	− 1·9	42·3	40·5	3·3	9·6	1·3	88	91·0	23·8	43·0	0·210	wP : v, wP : vN, wP	0·1	12·9
3	29·843	50·0	32·8	17·2	42·8	− 3·2	38·9	34·2	8·6	20·1	2·9	73	117·3	22·9	43·1	0·009	wP	6·1	13·0
4	29·791	49·3	28·1	21·2	38·1	− 8·1	35·5	32·0	6·1	13·4	0·9	78	124·8	16·1	43·2	0·000	wP	5·2	13·1
5	29·477	55·6	38·8	16·8	46·6	+ 0·3	43·1	39·2	7·4	14·2	2·1	76	115·8	35·8	43·4	0·031	wwP : wP : mN	0·4	13·1
6	29·340	59·2	46·2	13·0	49·8	+ 3·5	47·6	45·3	4·5	12·2	1·1	85	125·0	42·9	43·5	0·370	wN : wP : wP, v	2·4	13·2
7	29·526	55·0	38·1	16·9	46·9	+ 0·6	45·4	43·8	3·1	8·6	0·2	90	76·5	31·2	43·7	0·021	wP : wP : v, wP	0·0	13·3
8	29·703	56·6	41·5	15·1	49·6	+ 3·5	46·5	43·2	6·4	9·8	2·0	79	79·6	31·9	43·9	0·010	wP : mP : mP, wP	2·2	13·3
9	29·610	61·2	38·8	22·4	49·7	+ 3·7	45·2	40·4	9·3	19·4	1·8	71	112·8	28·4	44·0	0·000	wwP, wP : wP : wP, mP	0·7	13·4
10	29·694	57·6	43·1	14·5	48·6	+ 2·7	45·7	42·6	6·0	12·5	1·9	80	92·2	36·3	44·2	0·140	... : wP	0·4	13·5
11	29·901	62·6	35·4	27·2	49·1	+ 3·3	45·1	40·8	8·3	16·1	0·2	73	123·8	27·2	44·5	0·000	wP : mP, wP : wP	7·2	13·5
12	29·865	61·4	35·3	26·1	48·8	+ 2·9	44·3	39·4	9·4	19·2	0·2	70	102·6	25·5	44·5	0·000	wP	6·0	13·6
13	29·770	59·8	37·1	22·7	47·8	+ 1·7	44·3	40·5	7·3	17·2	2·1	76	130·6	25·6	44·9	0·048	wP	4·0	13·6
14	29·734	56·6	37·6	19·0	46·1	− 0·3	42·4	38·2	7·9	16·8	0·6	75	123·3	28·5	44·9	0·148	wP : wP : ...	5·0	13·7
15	29·490	56·0	40·2	15·8	49·6	+ 2·8	44·9	39·9	9·7	16·2	2·3	69	110·9	33·8	45·0	0·015	... : wP : wP, v	1·3	13·8
16	29·461	52·8	39·1	13·7	46·0	− 1·2	41·7	36·8	9·2	13·8	5·8	71	98·0	31·3	45·5	0·003	wP	2·3	13·9
17	29·798	57·1	43·1	14·0	48·7	+ 1·1	43·5	37·8	10·9	16·7	4·5	66	114·0	32·1	45·1	0·000	wP	3·0	13·9
18	29·611	53·5	41·7	11·8	47·3	− 0·7	45·6	43·7	3·6	6·5	2·2	88	74·4	31·9	45·3	0·014	wP	0·0	14·0
19	29·702	58·8	41·8	17·0	46·7	− 1·6	44·1	41·2	5·5	11·3	2·2	82	128·6	32·7	45·3	0·000	wP	0·7	14·0
20	29·965	50·6	40·9	9·7	44·7	− 3·8	39·8	34·1	10·6	14·8	7·4	66	123·0	34·3	45·3	0·000	wP : wP : mP, wP	4·0	14·1
21	30·019	57·0	34·5	22·5	45·5	− 3·2	41·1	36·1	9·4	16·8	0·2	70	127·7	19·7	45·6	0·000	wwP, wP : mP : wP	8·7	14·2
22	29·927	61·1	30·8	30·3	46·0	− 2·7	41·5	36·4	9·6	17·5	0·0	70	127·2	15·8	45·9	0·000	wP : mP : mP, wP	3·9	14·2
23	29·600	54·3	39·2	15·1	47·0	− 1·6	43·3	39·1	7·9	12·9	2·1	75	106·9	29·9	45·6	0·183	wP : mP : mP, wP	0·3	14·3
24	29·605	53·7	36·2	17·5	44·1	− 4·5	40·3	35·8	8·3	14·1	1·9	72	131·6	27·9	45·8	0·024	wP : mP, vv : v, mP	7·2	14·3
25	29·528	58·9	33·0	25·9	45·2	− 3·4	41·2	36·6	8·6	16·6	1·9	72	136·8	23·2	45·9	0·001	wP, mP : mP : mP	8·1	14·4
26	29·499	55·4	38·4	17·0	45·3	− 3·3	41·4	36·9	8·4	16·2	2·5	73	121·8	28·2	46·0	0·022	wP : v, mP	2·8	14·4
27	29·585	49·5	38·1	11·4	43·5	− 5·2	41·4	38·9	4·6	8·8	1·9	84	115·0	27·9	45·8	0·010	wP : mP, v : wP	0·3	14·5
28	29·531	53·0	40·3	12·7	45·2	− 3·6	43·0	40·5	4·7	12·2	1·6	84	120·2	33·6	46·0	0·495	wP, mP : vv, mP	1·0	14·6
29	29·734	58·9	37·2	21·7	45·2	− 3·8	41·8	37·9	7·3	17·6	2·3	76	120·7	27·8	45·9	0·000	mP : sP, mP : sP, mP	2·3	14·6
30	29·606	57·9	37·1	20·8	46·4	− 2·7	42·6	38·3	8·1	17·2	1·7	74	131·0	27·7	46·0	0·052	... : ... : mP, v	4·5	14·7
Means	29·679	56·0	37·7	18·3	46·3	− 1·0	42·8	38·9	7·4	14·4	2·0	76·0	113·5	28·7	44·8	Sum 1·852	...	3·0	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.

The mean reading of the *Barometer* for the month was 29in·679, being 0in·069 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 62°·6 on April 11 ; the lowest in the month was 28°·1 on April 4 ; and the range was 34°·5.
The mean of all the highest daily readings in the month was 56°·0, being 1°·2 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 37°·7, being 1°·3 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 18°·3, being 0°·1 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 46°·3, being 1°·0 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY. 1925.	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.		
Apr. 1	8·8	0·97	8·8	0·97	SSW : W	WNW : W : SW	2·0	0·10	228	10 : 10, slt.-r : 10, r,glm	9, h : 7 : 1, lu.-ha, ho.-fr
2	0·0	0·00	0·0	0·00	SW	SW : WSW	2·9	0·10	261	0, ho.-fr : 6 : 10, fq.-r	10 : 10, r, hy.-r : 10, r
3	8·0	0·89	7·8	0·86	WSW : N : NE	NNE : E	2·1	0·19	311	10 : 10, r : 7, cu	1, fr.-cu : 1, slt.-ho.-fr.
4	5·0	0·58	4·5	0·53	Calm : ESE	ESE : S : SSE	1·4	0·11	194	3, ho.-fr : 9 : 9, cu	6, cu : 1 : 6
5	0·0	0·00	0·0	0·00	SSE : S	S : SSE	3·3	0·41	342	9, h : 10 : 10, s,n,w	10,s,n,cu.-n,oc.m.-r,w: 10,m.-r,r : 10, r
6	1·8	0·22	1·4	0·16	SSE : SE	SSW : Calm	1·5	0·18	231	10, r : 10, n, r	9 : 10, slt.-r
7	2·1	0·25	2·0	0·24	Calm	Calm : S	0·6	0·01	95	9 : 10, f : 10, f, m	10, m : 10, m, slt.-r : 10, m
8	7·0	0·82	5·7	0·67	SW : Calm	Calm : SW : SSW	0·3	0·01	143	8 : 8, h : 4, cu, h	9, cu, h,sh : 9, h : 0, h
9	0·8	0·09	0·3	0·03	SSW : SE : SSE	S : Calm	1·4	0·10	225	8, th.-cl,lu.-ha : 8,th.-cl:10,th.-cl,cu.-n,so.-ha	10, so.-ha : 10 : 10, slt.-sh
10	6·7	0·78	6·1	0·72	Calm	NW : Calm	0·3	0·02	105	10, r : 10, r : 9	9 : 10 : v.-cl, th.-cl
11	7·9	0·99	7·7	0·96	Calm	Calm : SE	0·3	0·01	122	0, h, lu.-ha : 0, m, h : 1, cu, h	7 : p.-cl : 1
12	7·9	0·99	7·7	0·96	Calm	Calm	0·2	0·00	87	0 : 1, m, h, d	9, th.-cl., cu, h : p.-cl, h, slt.-m : 1
13	7·7	0·96	6·7	0·83	SSW	SSW : W	2·0	0·15	298	0 : 2, th.-cl	10, r : 10, sh : 3
14	0·2	0·02	0·2	0·02	SW	SSW : SSE : S	1·8	0·20	346	1 : 0 : 4, fr.-cu	9 : 10, oc.-m.-r,r : 10, r
15	7·1	0·88	6·6	0·83	SSW : SW	W	12·0	1·16	728	10, w : 8, w : 9,s,cu.-n,st.-w	9,cu.-n,st.-w,sh : 8, st.-w : 4 fq.-slt.-r, w
16	0·1	0·01	0·1	0·01	W	W : WNW	16·7	1·94	791	0, w : p.-cl, g : 9, cu, g	8, g, st.-w : 10, oc.-m.-r,st.-w,w
17	6·5	0·81	5·7	0·71	WNW	W : WSW : SW	3·0	0·21	334	10 : 9 : 8, cu	8, cu : 6, so.-ha : 1
18	2·5	0·33	2·2	0·28	SW : SSW	SSW	1·8	0·16	259	8, th.-cl : 10, r : 10, r, oc.-m.-r	10, slt.-sh : 10 : 9
19	0·3	0·04	0·1	0·01	Calm : NNE	NNE : NE	3·1	0·29	328	9 : 10 : 9	10 : 10
20	5·5	0·74	4·7	0·62	NE	NE	5·0	0·88	540	10 : 10, w : 9, w	9, cu.-s, n, w : v.-cl, w : 6, w
21	7·5	1·00	7·5	1·00	NE	ENE : ESE : Calm	2·5	0·36	341	8, w : 9, w : 6, cu	0 : 0
22	0·0	0·00	0·0	0·00	Calm : SSW	SSW	2·5	0·18	263	0, ho.-fr : 2, th.-cl:6,ci.-s,th.-cl,so.-ha	9,ci.-s,oc.-p.-so.-ha : 10, s, n
23	7·5	1·00	7·5	1·00	SSW : W	W : WSW	3·2	0·29	360	10 : 10, r : 10, r	9 : p.-cl,slt.-sh : 0
24	6·7	0·89	6·7	0·89	WSW : SW	W : WNW	2·9	0·19	313	0 : 0 : 7, oc.-slt.-r	7, slt.-sh, sh : 7, sh : 2
25	1·7	0·24	1·7	0·24	WSW : SW	SW : SSW : W	1·7	0·09	235	0, slt.-ho.-fr : 2 : 6, cu.-s	8, slt.-shs : 10, sh : 10, sh
26	4·2	0·60	3·5	0·50	WNW : NW	NNW : NW : W	6·0	0·18	270	3 : 9 : 8, cu.-s,n	7, sh, t : 8 : 1
27	0·6	0·08	0·3	0·05	W : WNW	SE : Calm	1·1	0·04	161	6 : 10, slt.-m.-r.-sh : 10, fq.-m.-r	10, fq.-slt.-r: 10 : 9
28	6·5	0·93	6·5	0·93	ENE : NE	NNE : N	5·4	0·44	391	10, m : 10 : 10,cu.-n,fq.-slt.-r	10,oc.-slt.-r,shs,t: 6, r, hl, t : 2
29	5·5	0·79	3·7	0·52	NNW : Calm	SW : W : S	1·1	0·05	177	p.-cl : 9, th.-cl,h : 10, cu.-s	8, cu, ci, h : 10, th.-cl : 10, th.-cl, d
30	0·0	0·00	0·0	0·00	S : SW	SW : E : N	2·3	0·05	200	6, h : 9, sh : 4, cu, h	8, cu : 8, r, t : 10, r
Means	4·2	0·53	3·9	0·48	...	...	...	0·27	289		
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°·8, being 1°·1 *lower* than
The mean *Temperature of the Dew Point* for the Month was 38°·9, being 1°·2 *lower* than
The mean *Degree of Humidity* for the month was 76·0, being 0·2 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·237, being 0in·011 *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 543 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 7·5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·221. The maximum daily amount of *Sunshine* was 8·7 hours on April 21.

The highest reading of the *Solar Radiation Thermometer* was 136°·8 on April 25; and the lowest reading of the *Terrestrial Radiation Thermometer* was 15°·8 on April 22.

The *Proportions of Wind* referred to the cardinal points were N. 4, E. 3, S. 8, W. 9. Six days were calm.

The *Greatest Pressure of the Wind* in the month was 16·7 lbs. on the square foot on April 16. The mean daily *Horizontal Movement of the Air* for the month was 289 miles; the greatest daily value was 791 miles on April 16; and the least daily value was 87 miles on April 12.

Rain (0in·005 or over) fell on 18 days in the month, amounting to 1in·852, as measured by gauge No. 6 partly sunk below the ground; being 0in·286 *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·589	50·8	37·1	13·7	43·2	− 6·1	41·0	38·4	4·8	10·0	1·8	83	94·9	30·6	45·9	0·197	v, wP : wP, v : wP	0·5	14·8
2	29·929	59·1	34·1	25·0	46·8	− 2·7	43·1	38·9	7·9	14·7	1·3	75	115·7	23·8	46·0	0·000	wP	3·3	14·8
3	29·836	60·2	39·8	20·4	48·6	− 1·2	45·5	42·2	6·4	19·0	1·8	79	119·8	27·1	46·0	0·119	wP : wP : wwP, wwN	0·6	14·9
4	29·583	60·2	47·2	13·0	52·5	+ 2·5	50·2	47·9	4·6	9·3	0·4	84	110·7	43·4	46·1	0·028	... : wP : wP	1·2	14·9
5	29·497	56·5	40·2	16·3	49·6	− 0·7	46·8	43·8	5·8	11·7	1·2	81	108·8	27·8	46·2	0·111	wwP : wP : wP	0·8	15·0
6	29·465	58·9	39·5	19·4	48·2	− 2·3	45·3	42·1	6·1	15·5	0·7	80	143·5	27·2	46·4	0·013	wP	8·8	15·0
7	29·341	58·1	43·9	14·2	49·2	− 1·5	46·4	43·4	5·8	12·0	1·7	81	133·0	35·5	46·7	0·146	...	4·0	15·1
8	29·359	57·5	43·1	14·4	48·6	− 2·4	46·4	44·0	4·6	10·9	1·1	85	105·3	32·6	46·7	0·046	... : ... : wP	0·8	15·2
9	29·551	61·2	42·3	18·9	50·0	− 1·2	46·7	43·2	6·8	15·1	1·1	78	131·3	32·6	47·0	0·000	wwP : wP : wP	7·6	15·2
10	29·686	60·5	39·5	21·0	49·7	− 1·8	46·7	43·5	6·2	12·6	0·7	80	131·5	28·0	47·0	0·049	wP : wP, v : wP	4·4	15·3
11	29·794	63·0	39·1	23·9	51·4	− 0·4	48·4	45·3	6·1	15·0	0·0	80	132·8	27·8	47·4	0·000	wP	6·8	15·3
12	29·915	69·9	48·6	21·3	57·3	+ 5·2	52·4	47·9	9·4	18·0	2·4	71	142·9	35·9	47·5	0·000	wP	8·4	15·4
13	30·033	74·5	44·4	30·1	58·4	+ 6·0	54·2	50·4	8·0	17·3	1·3	75	151·4	30·4	47·8	0·000	wP	9·2	15·4
14	30·010	72·2	48·0	24·2	58·9	+ 6·3	54·5	50·5	8·4	17·9	0·8	74	145·4	33·7	48·0	0·000	wP	11·8	15·5
15	29·865	67·9	44·7	23·2	55·8	+ 3·0	52·1	48·6	7·2	16·7	0·0	78	141·5	34·6	48·3	0·000	wP	11·6	15·5
16	29·603	80·3	50·1	30·2	63·5	+10·5	58·8	54·8	8·7	22·7	0·2	74	146·4	42·7	48·8	0·000	wP, v : wP : wP	9·8	15·6
17	29·587	75·1	48·9	26·2	62·3	+ 9·2	56·5	51·5	10·8	22·4	1·7	68	143·8	37·3	49·0	0·000	wwP	9·6	15·6
18	29·573	73·7	53·2	20·5	64·1	+10·8	60·0	56·6	7·5	15·5	0·0	76	144·8	40·4	49·3	0·000	wwP : wP : wP	4·7	15·7
19	29·650	71·4	51·9	19·5	60·2	+ 6·7	57·5	55·1	5·1	10·4	0·4	84	140·0	38·2	49·7	0·000	...	1·7	15·7
20	29·803	68·5	47·0	21·5	56·4	+ 2·6	51·0	46·0	10·4	19·9	1·2	68	143·3	31·7	49·9	0·044	... : ... : wP	5·8	15·8
21	29·783	68·6	43·0	25·6	54·5	+ 0·3	48·4	42·5	12·0	22·4	2·4	64	140·9	26·3	50·1	0·000	... : wwP : wP	8·0	15·8
22	29·601	71·0	45·7	25·3	58·2	+ 3·6	51·8	46·1	12·1	22·6	1·9	64	144·1	30·1	50·3	0·000	wP	5·7	15·8
23	29·361	68·6	51·8	16·8	59·5	+ 4·6	55·6	52·1	7·4	12·0	2·4	77	133·0	47·9	50·4	0·197	wP	1·2	15·9
24	29·347	64·8	50·7	14·1	54·6	− 0·7	51·4	48·3	6·3	15·1	0·8	79	149·9	46·5	50·7	0·155	... wP : ...	3·3	15·9
25	29·457	67·7	47·0	20·7	56·2	+ 0·7	52·0	48·0	8·2	14·6	0·6	74	146·6	32·6	50·8	0·013	... : wP : wP, mP	4·6	16·0
26	29·624	70·7	43·5	27·2	57·2	+ 1·4	52·1	47·4	9·8	19·4	0·4	70	144·5	30·2	50·9	0·000	wP	7·7	16·0
27	29·356	59·1	51·0	8·1	54·8	− 1·2	53·2	51·6	3·2	4·9	1·4	89	86·0	47·7	51·0	0·215	wP : ... : ...	0·0	16·0
28	29·222	65·4	47·1	18·3	55·3	− 0·9	50·0	45·0	10·3	17·7	1·6	68	159·6	38·2	51·2	0·052	wP	12·8	16·1
29	29·533	62·8	46·6	16·2	53·9	− 2·5	49·6	45·4	8·5	13·2	3·0	73	137·8	37·8	51·1	0·000	... : wP : wP	4·3	16·1
30	29·697	68·4	50·0	18·4	57·8	+ 1·1	52·4	47·5	10·3	17·0	1·8	69	151·6	40·1	51·4	0·065	wP	11·0	16·2
31	29·988	67·4	47·5	19·9	55·7	− 1·4	50·2	45·0	10·7	18·4	1·3	67	153·8	37·6	51·6	0·056	wP : wP : wP, wN	10·8	16·2
Means	29·633	65·6	45·4	20·2	54·6	+ 1·5	50·7	46·9	7·7	15·6	1·2	75·7	134·7	34·7	48·7	Sum 1·506	...	5·8	15·5
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.

The mean reading of the *Barometer* for the month was 29^{in}·633, being 0^{in}·161 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 80°·3 on May 16; the lowest in the month was 34°·1 on May 2; and the range was 46°·2.
The mean of all the highest daily readings in the month was 65°·6, being 1°·7 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 45°·4, being 1°·7 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 20°·2, being *equal* to the average for the 65 years, 1841–1905.
The mean for the month was 54°·6, being 1°·5 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	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.		
May 1	7·0	1·00	7·0	1·00	N : NW	NNW : NW	4·6	0·45	401	10, r : 10, r : 10, s, n, so.-ha	10, cu.-s, n, shs : v.-cl : 0
2	4·2	0·64	4·1	0·63	W : WSW : WNW	SW	2·0	0·08	232	1, h : 2, h : 8, h	9 : 9, th.-cl
3	0·0	0·00	0·0	0·00	SSW : S	S : SSW : SSE	2·0	0·15	226	2 : 8, th.-cl : 10, s	10, slt.-r : 10, r : 10, slt.-r, sh
4	0·0	0·00	0·0	0·00	SSE : SSW	SSW : SSE	1·4	0·15	267	10, r, slt.-r : 10, slt.-r : 10	10 : 9 : 10, m.-r
5	6·4	0·99	6·4	0·99	S : SW : SSW	SSW : S	2·2	0·19	270	10, r : 10, r : 10, cu.-s, n	10, so.-ha : 6 : 0
6	2·9	0·44	2·9	0·44	SE : S	S : SE : S	2·7	0·17	262	1 : 3, sl : 8, slt.-sh	p.-cl : p.-cl : 8, slt.-sh
7	5·6	0·87	5·2	0·80	ESE : SE : S	S : SSE	2·3	0·23	290	8, shs : 7, oc.-shs : 9, cu, ci, n, sh	9, cu.-n, cu.-s : 4 : 1, lu.-ha
8	5·8	0·89	5·7	0·87	SSE	S : SSW	3·9	0·27	301	p.-cl : 9, r : 10, fq.-r	10, oc.-m.-r : 1 : 1, th.-cl
9	5·8	0·97	5·5	0·91	SSW : SW	SSW : S	4·4	0·29	308	p.-cl : 6 : 6	7, slt.-shs : 2
10	4·0	0·66	4·0	0·66	S : SW	W : WSW : SSW	1·3	0·03	173	3 : 5 : 9, slt.-sh	8, r, h : 6 : 2
11	0·3	0·06	0·2	0·04	SSW : SW	SW : SSW	2·8	0·35	319	0 : 1 : 3, th.-cl	9, so.-ha : 10 : 10, oc.-m.-r
12	6·0	1·00	6·0	1·00	SW	SW	1·3	0·15	258	10 : 10, cu.-s : 6, cu	1, h : 1
13	5·0	0·83	4·9	0·81	SW : WSW	SW : Calm	0·7	0·04	140	0 : 0	8, cu.-n : 8 : 3
14	6·0	1·00	6·0	1·00	Calm : NE	ENE : E	1·2	0·10	166	8 : 1 : 1, cu	1, cu : 0
15	0·0	0·00	0·0	0·00	ENE : NE	E	2·8	0·15	227	0 : 0	2 : 1 : 10, m
16	5·4	0·98	5·4	0·98	Calm	SSW	1·9	0·07	146	10, slt.-sh, t, m : 1, h	2 : 2
17	2·8	0·51	2·3	0·41	SW : Calm	E : Calm	1·0	0·05	163	1 : 1	1 : 5 : 3
18	3·5	0·64	3·4	0·61	Calm : ENE	E : ENE	1·0	0·04	160	3 : 2 : 3	10, shs : 10, oc.-slt.-shs : 9, t, l, slt.-r
19	4·3	0·79	4·2	0·77	Calm : SSW	SSW : SW	1·1	0·05	175	1 : 4 : 10, n	8 : 1
20	5·5	1·00	5·5	1·00	WNW : WSW	WSW : SW	1·1	0·09	236	7, slt.-sh : 10, fq.-slt.-r : 9 s.-cu, oc.-slt.-r	5, cu : p.-cl : 1
21	4·9	0·90	4·4	0·80	SW	SSW : Calm	1·1	0·05	185	0 : 1 : 7, cu	8 : p.-cl, th.-cl, so.-ha, prh : 6, th.-cl
22	2·0	0·37	1·8	0·33	Calm : S	SE : E	2·5	0·19	208	6 : p.-cl : 6, th.-cl, so.-ha	8, th.-cl, slt.-sh, p.-so.-ha : 7 : 8
23	0·0	0·00	0·0	0·00	E : Calm : SSE	S : SW : WSW	1·2	0·06	198	8, sh, slt.-r : 8, sh : 9, sh	9, slt.-sh : 10, slt.-sh : 10, sh, r
24	1·3	0·27	1·2	0·24	SW : SSW : S	S	2·8	0·23	275	10, r : 10 : 9, cu, ci	10, slt.-shs : 10, r : 7
25	5·0	1·00	5·0	1·00	S : SSW	S : SSW : Calm	1·5	0·12	223	10, r : 10 : 9	8, cu, cu.-n : 3 : 0
26	0·0	0·00	0·0	0·00	SSW : SW	W : SW	1·6	0·12	257	0 : 8, cu.-n	9 : 7 : 10, n
27	0·0	0·00	0·0	0·00	SW : SSW	SSW	4·9	0·56	431	10, sh, r : 10, r, slt.-r, w	10, r, w : 10, sc, r, fq.-slt.-r : 10, slt.-r, r
28	5·0	1·00	5·0	1·00	SSW : SW	SW	2·8	0·33	365	9, r, sh : 2, w : 5, cu.-n, ci, w	6, cu, ci.-s : 1 : 0
29	0·0	0·00	0·0	0·00	SSW : SW	SW : SSW	5·0	0·63	440	1 : 5 : 10, n, s, slt.-shs	10 : 10, w : 10, w
30	5·0	1·00	5·0	1·00	SSW : SW	SW	6·4	1·00	532	10, r, w : 8, w : 6, w	7, w : 6, w : 1
31	5·0	1·00	5·0	1·00	SW	WSW : SW	3·1	0·48	398	0 : 1 : 8, cu.-n	7 : 8, shs, l : 1
Means	3·5	0·61	3·4	0·59	...	...	...	0·22	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 50°·7, being 1°·7 *higher* than
The mean *Temperature of the Dew Point* for the month was 46°·9, being 1°·9 *higher* than
The mean *Degree of Humidity* for the month was 75·7, being 1·5 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·322, being 0in·023 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·6, being 0grs·2 *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 533 grains, being 5 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 6·5.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·375. The maximum daily amount of *Sunshine* was 12·8 hours on May 28.
The highest reading of the *Solar Radiation Thermometer* was 159°·6 on May 28; and the lowest reading of the *Terrestrial Radiation Thermometer* was 23°·8 on May 2.
The *Proportions of Wind* referred to the cardinal points were N. 2, E. 3, S. 14, W. 8. Four days were calm.
The *Greatest Pressure of the Wind* in the month was 6·4 lbs. on the square foot on May 30. The mean daily *Horizontal Movement of the Air* for the month was 266 miles; the greatest daily value was 532 miles on May 30; and the least daily value was 140 miles on May 13.
Rain (0in·005) fell on 16 days in the month, amounting to 1in·506, as measured by gauge No. 6 partly sunk below the ground; being 0in·409 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·998	67·0	44·6	22·4	54·7	− 2·7	49·7	44·9	9·8	19·1	0·6	69	157·2	31·9	51·6	0·000	... : wP : wP	9·2	16·2
2	30·019	66·6	43·2	23·4	55·4	− 2·4	49·4	43·7	11·7	20·1	1·3	65	138·8	28·8	51·9	0·000	wP : mP : sP, mP	5·7	16·3
3	30·131	72·6	42·1	30·5	58·4	+ 0·3	50·7	43·8	14·6	23·7	0·7	58	151·1	26·8	51·9	0·000	... : mP, wP : mP, wP	12·7	16·3
4	30·094	77·2	46·4	30·8	62·3	+ 4·0	54·4	47·6	14·7	24·8	2·1	58	151·5	27·6	52·0	0·000	... : mP, wP : wP	14·1	16·3
5	29·939	77·0	45·3	31·7	62·1	+ 3·7	55·8	50·4	11·7	24·5	1·7	66	154·0	26·6	52·0	0·000	wP	13·2	16·3
6	29·818	83·7	54·1	29·6	68·4	+10·1	61·8	56·7	11·7	21·7	0·8	66	156·0	40·5	52·2	0·000	... : wP : wP	8·9	16·4
7	29·983	77·4	52·7	24·7	63·7	+ 5·5	58·8	54·7	9·0	16·6	1·6	73	156·0	44·6	52·5	0·000	... : wP : wP	9·3	16·4
8	30·063	78·1	50·7	27·4	63·1	+ 5·0	56·8	51·5	11·6	25·1	1·8	66	153·6	42·8	52·7	0·000	... : wP : wP	10·8	16·4
9	30·135	81·9	52·3	29·6	67·1	+ 9·1	58·1	50·9	16·2	31·8	4·0	56	157·0	38·4	52·9	0·000	... : wP : wwP	14·1	16·4
10	30·235	81·5	54·5	27·0	68·4	+10·3	58·6	50·9	17·5	28·4	5·1	53	160·5	39·6	53·1	0·000	wwP : wP : wP	14·4	16·4
11	30·136	87·1	49·9	37·2	69·7	+11·5	60·0	52·5	17·2	31·7	2·0	54	158·0	35·2	53·3	0·000	wwP : wP : wP	13·2	16·5
12	29·991	82·0	54·3	27·7	67·2	+ 8·8	61·8	57·5	9·7	22·5	0·0	71	148·5	40·0	53·6	0·000	... : wP : wP ...	7·3	16·5
13	29·928	76·0	56·1	19·9	66·1	+ 7·6	59·0	53·2	12·9	19·0	2·8	64	161·0	48·5	53·8	0·000	... : wP : wP	9·3	16·5
14	29·907	72·2	51·5	20·7	61·2	+ 2·5	55·3	50·2	11·0	18·2	5·2	68	142·7	37·6	53·6	0·000	wP	3·1	16·5
15	29·928	83·9	51·2	32·7	67·8	+ 9·0	60·4	54·6	13·2	23·4	1·8	62	163·0	37·1	54·1	0·000	... : wP : wP, ...	13·2	16·5
16	29·841	82·6	58·1	24·5	69·1	+10·2	60·2	53·3	15·8	25·7	6·7	56	161·5	45·3	54·2	0·000	... : wP : wP	9·8	16·5
17	29·914	69·9	50·6	19·3	60·2	+ 1·2	53·7	48·0	12·2	21·4	5·8	64	153·9	36·4	54·2	0·000	wP : wP, mP : mP, ...	3·7	16·6
18	29·944	67·5	47·7	19·8	57·1	− 2·1	49·6	42·7	14·4	22·9	3·7	59	156·7	34·8	54·5	0·000	... : mP : mP	13·1	16·6
19	29·959	73·9	41·9	32·0	59·4	− 0·1	50·9	43·4	16·0	29·7	1·5	55	146·0	27·0	54·6	0·000	wP, mP : mP : mP	11·7	16·6
20	29·842	76·0	54·4	21·6	63·2	+ 3·3	56·0	50·0	13·2	20·1	7·4	62	164·2	46·6	54·7	0·000	wP : mP, wP : wP	9·8	16·6
21	29·734	70·5	53·6	16·9	58·7	− 1·6	52·4	46·8	11·9	22·3	7·1	65	150·7	44·3	54·5	0·000	wP	1·9	16·6
22	29·820	59·2	51·8	7·4	54·5	− 6·1	49·6	44·9	9·6	12·7	5·3	69	98·1	49·0	54·4	0·000	wP, mP : mP, wP	2·5	16·6
23	29·866	63·0	51·9	11·1	54·7	− 6·2	49·8	45·1	9·6	17·7	5·0	70	113·5	49·6	54·5	0·000	wP : wP, mP : wP	2·3	16·6
24	29·809	53·3	49·8	3·5	51·8	− 9·4	49·7	47·6	4·2	7·1	2·2	86	67·0	48·8	54·4	0·110	wP : ...	0·0	16·6
25	29·833	66·8	48·1	18·7	54·3	− 7·1	49·8	45·4	8·9	18·7	1·0	71	156·7	42·2	54·5	0·000	... : mP, wP : wP	9·4	16·6
26	29·820	60·3	48·6	11·7	54·3	− 7·2	50·6	47·0	7·3	13·5	1·6	76	109·0	38·5	54·3	0·009	wwP : wP, mP : mP, wP	0·8	16·6
27	29·854	61·7	48·1	13·6	52·6	− 9·0	48·8	45·0	7·6	16·1	1·5	76	111·9	37·0	54·2	0·000	... : wP, mP : mP, wP	0·2	16·5
28	30·017	67·5	46·6	20·9	55·8	− 5·8	50·9	46·4	9·4	17·4	2·1	70	149·4	30·9	54·3	0·000	wP : mP, wP : wP	3·2	16·5
29	29·988	77·0	42·8	34·2	60·7	− 0·9	53·6	47·4	13·3	26·0	0·0	62	169·0	27·1	54·5	0·000	wP	11·2	16·5
30	29·947	76·8	46·3	30·5	62·3	+ 0·8	55·4	49·5	12·8	25·1	1·5	62	166·4	33·0	54·4	0·000	... : wP : wP	12·6	16·5
Means	29·950	73·0	49·6	23·4	60·8	+ 1·4	54·4	48·9	12·0	21·6	2·8	65·1	146·1	37·9	53·6	Sum 0·119	...	8·4	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 from dusk extending 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·950, being 0in·135 *higher* than the average for the 65 years, 1841–1905.

Temperature of the Air.

The highest in the month was 87°·1 on June 11; the lowest in the month was 41°·9 on June 19; and the range was 45°·2.
The mean of all the highest daily readings in the month was 73°·0, being 2°·3 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 49°·6, being 0°·3 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 23°·4, being 2°·6 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 60°·8, being 1°·4 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
June 1	4·0	0·80	3·5	0·69	SW : WSW	WSW : W	2·0	0·14	259	0 : 1 : 7	8 : 9 : 9
2	4·3	0·85	4·1	0·82	Calm	NNW	0·5	0·05	132	3 : 9, so.-ha : 6, cu.-n, h	8, cu, h : 7, h : 3, fr.-cu, n
3	5·0	1·00	5·0	1·00	Calm : SW	SW : WSW	1·2	0·08	171	1 : 1, h : p.-cl, cu, h, so.-ha	4, fq.-so.-ha : 1, th.-cl : 1, h, d
4	5·0	1·00	5·0	1·00	SW : Calm	Calm : SE	0·4	0·03	125	0 : 0 : 1, ci	0 : 0 : 0
5	5·0	1·00	5·0	1·00	Calm : ENE : E	E	3·0	0·27	219	0 : 0 : 1, ci, ci.-s	1, ci.-cu, ci.-s : 1 : 0
6	4·5	1·00	4·5	1·00	Calm	NE : E : NNE	1·0	0·03	143	0 : 0, h : 1, cu, h	8, cu, slt.-sh : p.-cl, h : 2
7	2·8	0·61	2·8	0·61	NNE : N	N : NNE	1·3	0·13	248	1 : 1 : 1, h	9, th.-cl, h : 0, h : 1, h
8	4·5	1·00	4·5	1·00	NNE	NE : ENE	1·8	0·11	243	6 : 8 : 3	th.-cl, so.-ha : 2, h
9	4·5	1·00	4·5	1·00	NNE : NE	ENE	2·4	0·18	257	0 : 1 : 0, h	0, h : 0, slt.-d
10	4·5	1·00	4·5	1·00	ENE : NE	ENE : E	1·1	0·05	180	0, h : 0	0 : 0, h
11	4·5	1·00	4·5	1·00	Calm	NNE : Calm	1·0	0·01	100	0 : 0, h	0, h : 0, h
12	0·0	0·00	0·0	0·00	Calm : NE	ENE	0·8	0·02	134	0 : 0, h : p.-cl, h	8, h : 9
13	...	...	...	...	NE	Calm : NNW	1·8	0·10	194	10 : p.-cl : 3, cu, h	3, cu : 8, th.-cl : th.-cl
14	3·8	0·85	3·6	0·80	NNW	N : NE : Calm	1·5	0·13	223	7 : 10, n, oc.-slt.-m.-r	10 : p.-cl : 1
15	4·5	1·00	4·5	1·00	Calm : SW : WSW	WSW : SW	1·4	0·12	243	1 : 0 : 1, ci	p.-cl, cu : p.-cl, h : 0, h
16	4·5	1·00	4·5	1·00	SW : WSW	WNW : NW : N	1·3	0·11	236	1 : 0 : 5, cu	8, cu, n, h : 9, th.-cl : 3, slt.-d
17	2·8	0·63	2·5	0·57	NW : N	N : Calm	2·1	0·13	229	3 : 8 : 10, slt.-m.-r	9, cu : 9, th.-cl : p.-cl
18	4·5	1·00	4·5	1·00	W : NW : N	NNW : NNE	2·8	0·26	297	1 : 2 : p.-cl, cu	7, cu : 3 : 0
19	0·4	0·09	0·0	0·00	Calm : NNW	NNW : Calm	1·1	0·08	155	0 : 1 : 7, ci.-s, fq.-so.-ha	5, th.-cl, so.-ha : 7, th.-cl : 9
20	1·2	0·26	1·0	0·21	NW	NW : N	1·9	0·12	246	9, slt.-sh : 2 : p.-cl, cu	8, cu : 8 : 8
21	0·0	0·00	0·0	0·00	NW	NNW : NE : Calm	3·1	0·18	284	6 : 9 : 10, slt.-sh	9, n : 10 : 10
22	0·0	0·00	0·0	0·00	N : NNW	NNW : N	2·5	0·24	293	10 : 8 : 10, n, s	10 : 10, slt.-m.-r.-sh
23	0·0	0·00	0·0	0·00	NNW	NNW : N	2·1	0·19	304	10 : 10	9, cu.-s : 9 : 10
24	0·0	0·00	0·0	0·00	NNW	NNW	3·4	0·35	389	10 : 10, oc.-m.-r : 10, oc.-m.-r, r	10, r, slt.-r : 10, oc.-m.-r : 10, slt.-m.-r
25	0·8	0·17	0·6	0·13	NNW : N	N	3·2	0·36	389	10 : 10 : 6, cu	v.-cl, ci.-s, fr.-cu : v.-cl : 9
26	2·6	0·59	2·5	0·55	N : NNW	WNW : WSW : N	1·5	0·09	216	10, m.-r.-sh : 8 : 10, s, n	10, slt.-sh : 10, slt.-r : 7, slt.-sh
27	0·0	0·00	0·0	0·00	NNW	NNW : N	2·0	0·18	288	3 : 9 : 10, n, cu.-s	10 : 10
28	4·5	1·00	4·5	1·00	N : NNW	N : Calm	0·8	0·05	163	10 : 10	8 : 7, th.-cl : 1
29	4·5	1·00	4·5	1·00	Calm	ESE : S : Calm	0·8	0·03	119	0 : 0 : 3, cu	4, cu : 0
30	4·0	0·89	3·9	0·88	Calm	E	1·8	0·07	158	0 : 0 : 1, cu, h	3 : 5 : 5, lu.-ha
Means	3·0	0·65	2·9	0·63	...	...	...	0·13	221		
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°·4, being 0°·5 *lower* than
The mean *Temperature of the Dew Point* for the month was 48°·9, being 2°·0 *lower* than
The mean *Degree of Humidity* for the month was 65·1, being 8·5 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·346, being 0in·027 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·8, being 0grs·4 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 532 grains, being 1 grain *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5·6.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·507. The maximum daily amount of *Sunshine* was 14·4 hours on June 10.
The highest reading of the *Solar Radiation Thermometer* was 169°·0 on June 29; and the lowest reading of the *Terrestrial Radiation Thermometer* was 26°·6 on June 5.
The *Proportions of Wind* referred to the cardinal points were N. 13, E. 5, S. 1, W. 5. Six days were calm.
The *Greatest Pressure of the Wind* in the month was 3·4 lbs. on the square foot on June 24. The mean daily *Horizontal Movement of the Air* for the month was 221 miles; the greatest daily value was 389 miles on June 24 and 25; and the least daily value was 100 miles on June 11.
Rain (0in·005 or over) fell on 2 days in the month, amounting to 0in·119, as measured by gauge No. 6 partly sunk below the ground; being 1in·919 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·807	80·7	50·3	30·4	63·8	+ 2·3	58·0	53·2	10·6	25·5	0·6	69	164·0	37·8	54·6	0·000	... : wwP : wwP	10·7	16·5
2	29·543	81·8	52·0	29·8	66·2	+ 4·6	59·7	54·4	11·8	28·6	0·2	66	173·0	37·0	54·6	0·021	... : wP : wP, v	8·1	16·5
3	29·477	73·1	57·4	15·7	64·4	+ 2·6	61·4	58·9	5·5	12·8	1·9	82	111·5	48·4	54·7	0·000	... : wP : wP	1·4	16·5
4	29·598	68·8	57·2	11·6	61·7	− 0·4	57·9	54·7	7·0	12·2	2·1	78	112·9	56·4	54·7	0·000	... : wP : wP	0·1	16·4
5	29·717	71·8	56·4	15·4	61·4	− 0·9	57·8	54·7	6·7	15·6	3·6	79	134·2	44·5	54·8	0·000	wwP : wP : wP	0·4	16·4
6	29·787	81·5	55·2	26·3	66·5	+ 4·1	59·8	54·4	12·1	26·0	1·5	65	169·8	41·6	55·0	0·003	... : wP : wP	9·7	16·4
7	29·868	70·9	55·1	15·8	61·9	− 0·5	56·9	52·6	9·3	20·5	0·9	72	145·3	42·5	55·0	0·407	... : wP	5·5	16·4
8	30·022	68·7	50·2	18·5	59·3	− 3·1	51·7	45·0	14·3	22·0	4·9	59	159·0	36·2	55·0	0·000	wP : wP, mP : mP	2·3	16·3
9	29·992	69·4	51·2	18·2	60·1	− 2·3	53·7	48·1	12·0	20·0	5·5	64	139·0	39·6	55·2	0·000	wP, ... : mP	7·2	16·3
10	29·953	69·7	51·0	18·7	60·5	− 2·0	56·4	52·9	7·6	13·1	2·6	76	125·4	38·6	55·1	0·002	... : wP, mP	2·3	16·3
11	30·085	80·3	53·1	27·2	66·1	+ 3·4	57·9	51·2	14·9	24·6	4·4	59	157·3	44·0	55·5	0·000	... : mP, wP : wP	12·6	16·3
12	30·119	84·6	55·2	29·4	69·1	+ 6·2	62·1	56·6	12·5	26·2	1·5	64	165·3	44·0	55·5	0·000	... : wP : wP	8·5	16·2
13	30·120	75·1	53·6	21·5	63·9	+ 0·8	58·8	54·5	9·4	19·5	1·6	72	159·9	41·8	55·6	0·000	wP	11·4	16·2
14	30·007	86·1	49·9	36·2	68·1	+ 4·8	59·6	52·9	15·2	28·6	0·2	58	164·0	36·4	55·9	0·000	... : wP : wP	11·7	16·2
15	29·897	87·8	52·3	35·5	70·7	+ 7·3	60·9	53·3	17·4	31·2	2·8	54	173·0	38·8	56·1	0·000	... : wP : mP	10·8	16·1
16	29·802	84·8	56·2	28·6	69·9	+ 6·5	61·5	55·0	14·9	27·6	1·5	58	156·8	42·9	56·3	0·000	... : wP : wP, mP	5·3	16·1
17	29·699	80·0	60·2	19·8	68·5	+ 5·1	60·5	54·2	14·3	23·6	4·8	60	170·5	47·3	56·6	0·000	wP, mP : wP : wP, wwP	10·2	16·1
18	29·555	77·0	52·6	24·4	63·4	+ 0·1	57·3	52·2	11·2	24·5	3·4	67	161·0	41·0	56·6	0·000	... : wP	4·1	16·0
19	29·664	74·3	52·0	22·3	61·9	− 1·3	55·3	49·6	12·3	23·1	2·0	65	...	40·3	56·9	0·146	wP, v : wP : wP	9·9	16·0
20	29·738	75·0	56·4	18·6	64·4	+ 1·2	60·6	57·5	6·9	13·7	1·3	78	122·2	43·6	57·0	0·041	wP : wP : v, wP	1·3	15·9
21	29·850	82·9	61·1	21·8	69·3	+ 6·1	65·4	62·4	6·9	21·0	0·6	78	158·5	51·9	57·1	0·220	..., v : wP : wP	6·9	15·9
22	29·778	89·5	62·1	27·4	71·8	+ 8·7	67·2	63·7	8·1	27·7	0·9	75	170·0	59·0	57·5	1·249	v, wP : wP, v : v	7·5	15·8
23	29·731	70·9	61·3	9·6	64·7	+ 1·7	62·4	60·5	4·2	10·9	0·6	87	128·2	58·1	57·8	0·507	v, wP : wP : wP	0·1	15·8
24	29·746	79·9	56·2	23·7	67·1	+ 4·2	62·4	58·6	8·5	19·4	0·8	75	161·8	47·2	58·0	0·043	wP : mP, wP	6·8	15·8
25	29·673	84·9	61·1	23·8	69·9	+ 7·2	64·2	59·8	10·1	24·9	0·4	70	149·6	52·0	58·1	0·000	... : mP, wP	8·9	15·7
26	29·473	71·3	51·9	19·4	60·6	− 1·9	55·7	51·4	9·2	22·6	3·2	71	150·0	42·7	58·2	0·031	... : wP	6·9	15·7
27	29·338	66·5	51·1	15·4	55·3	− 7·1	53·2	51·2	4·1	12·1	1·4	87	141·1	42·0	58·2	0·655	... : wP : v, wP	2·2	15·6
28	29·559	67·3	52·6	14·7	58·3	− 4·0	53·5	49·2	9·1	18·0	2·4	72	118·1	41·3	58·3	0·000	wP : mP, wP	5·2	15·6
29	29·679	65·9	50·9	15·0	59·4	− 2·9	56·4	53·7	5·7	10·5	2·7	82	110·2	39·5	58·1	0·031	wP	1·5	15·5
30	29·650	70·1	53·3	16·8	61·5	− 0·8	56·8	52·7	8·8	20·3	2·3	73	139·7	43·4	58·2	0·004	wP	5·9	15·5
31	29·568	67·0	50·0	17·0	57·4	− 4·8	55·4	53·6	3·8	9·5	1·0	87	109·3	38·2	58·0	0·297	wP, vN : wP : wP	1·8	15·4
Means	29·758	76·1	54·5	21·6	64·1	+ 1·4	58·7	54·3	9·8	20·5	2·1	71·1	146·7	43·8	56·4	Sum 3·657	...	6·0	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 $29^{in}\cdot758$, being $0^{in}\cdot041$ *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·5 on July 22 ; the lowest in the month was 49°·9 on July 14 ; and the range was 39°·6.
The mean of all the highest daily readings in the month was 76°·1, being 1°·9 *higher* than the average for the 65 years, 1841–1905.
The mean of all the daily readings in the month was 54°·5, being 1°·2 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 21°·6, being 0°·7 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 64°·1, being 1°·4 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY. 1925.	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.	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	4·5	1·00	4·4	0·99	Calm : NE	E : ENE	1·9	0·10	185	5 : 3, th.-cl : 4, ci.-s, cu.-n, h	4, cu.-n, ci.-s, h: 4, th.-cl, h : 1, h, d
2	3·2	0·71	2·8	0·63	Calm : ENE	ENE : NE	3·9	0·24	241	1 : 9, h, m : 3, cu.-s, h	6, p.-so.-ha : 3 : 5, sh
3	0·0	0·00	0·0	0·00	NNE	Calm: ENE: NNE	1·8	0·09	198	7 : 10 : 9, slt.-r, m.-r	10, m.-r, oc.-m.-r : 7, oc.-m.-r : 10, l
4	0·0	0·00	0·0	0·00	N	N : NNW	3·3	0·38	351	10 : 10	10 : 10
5	2·9	0·62	2·8	0·59	NNW	NNW : Calm	1·0	0·07	180	10 : 10, slt.-sh	10 : 10 : 8
6	2·3	0·47	2·1	0·44	SW : WSW	SW	2·0	0·15	291	2 : 1 : 5, ci.-s, ci.-cu	8 : 10 : 9, shs
7	4·8	1·00	4·8	1·00	SW : Calm : NW	NW : NNW	2·4	0·20	298	8 : 10, r : 9, r, slt.-sh	8, cu.-n : 2
8	0·9	0·19	0·9	0·19	NNW : N	N	1·3	0·07	199	1 : 5, fq.-so.-ha : 9, s, n	10, s, n : 9 : 10, cu.-n
9	3·8	0·81	3·8	0·79	N	NNW: WNW: WSW	1·1	0·10	233	3 : 1 : 7, cu	9, cu, n : 10 : 2
10	4·5	0·95	4·5	0·95	WSW	WSW : NNW	1·1	0·09	237	2 : 4 : 10, slt.-r	10, slt.-sh : 8, th.-cl : 3, th.-cl
11	4·3	0·83	4·1	0·79	NNW	NNW: NNE : Calm	1·1	0·10	201	0 : 3, ci	p.-cl : 7 : 3
12	5·3	1·00	5·3	1·00	Calm	Calm : SSW : S	0·6	0·02	118	3 : 6, th.-cl, h : 4, cu, n, h	7, n : 6 : 1, h
13	5·2	0·99	5·2	0·98	Calm : E	ESE : Calm	0·8	0·05	169	1 : 2 : 1, ci.-s, h	2, th.-cl : 1, ci.-s : 1, d, m
14	5·3	1·00	5·3	1·00	Calm	Calm : S	0·4	0·01	123	1 : 1, f, h : 0, h	1, h : 0, h
15	4·5	0·85	4·5	0·85	Calm	SW : W : N	0·4	0·01	150	0, h : 0, h : 2, th.-cl	5, cu, ci.-s, so.-ha: 9 : 4
16	1·4	0·27	1·3	0·25	Calm : SW	SW : W	1·0	0·05	166	0 : 1, h : 3	9, h, so.-ha : 10, so.-ha : 10
17	4·0	0·77	3·9	0·75	WNW : W : SW	SW	1·7	0·09	220	6 : 7 : 7, ci, fr.-cu	9 : 2 : 2
18	4·5	0·79	4·4	0·77	SW	SW : SSW	2·2	0·17	278	2 : 8 : 9, slt.-r, shs	8 : 7 : 0
19	1·3	0·22	1·3	0·22	S : SE : SSE	SSW : Calm	2·0	0·10	206	2 : 8, r, t : v.-cl	4, ci.-s, cu.-n : 4 : 7
20	2·0	0·34	1·7	0·30	Calm : NE	Calm	0·5	0·02	107	8 : 10 : 10, sh	10, r, oc.-shs : 8, oc.-slt.-shs : 9
21	1·5	0·26	1·3	0·23	Calm : NE	ENE	0·9	0·05	188	10, hy.-sh, t, l : 10, hy.-r : 10, th.-cl	5, th.-cl : 2 : 4, l
22	0·0	0·00	0·0	0·00	ENE : SE	SE : Var	2·8	0·08	180	10, t.-sm : 5 : 1, cu.-s, ci.-s	7 : 10, sh, hy.-r, hl, t.-sm
23	0·0	0·00	0·0	0·00	Calm	SE : Calm	0·8	0·03	126	10, r : 10 : 10	10, slt.-shs : 10, r : 10, oc.-slt.-r
24	2·1	0·37	1·5	0·26	Calm	Calm	0·2	0·00	95	8, shs : 4 : 5, cu.-s, ci.-s	9, slt.-sh : 8. slt.-m : 4, l
25	3·0	0·49	2·9	0·48	N : NNW	N : Calm : SW	0·7	0·04	176	10 : 10 : 6, h	2 : 2 : 1
26	1·8	0·31	1·7	0·29	SW	WSW : SW : SSW	4·7	0·37	344	10 : 10, r : 9, r, m.-r	8, sh : 0 : 4, r
27	5·4	0·90	5·3	0·89	SW	SW : WSW	8·3	0·75	425	10, r, m.-r : 9, fq.-r : 10, r, shs, sq, w	10, fq.-r, w : 9, shs, t, l : 1
28	5·9	0·99	5·9	0·99	WSW	W : WSW	4·4	0·48	448	4 : 9, m.-r.-sh: 9	9 : 3 : 0
29	0·8	0·13	0·5	0·08	SW	SW	2·6	0·22	312	0 : 3 : 10, fq.-slt.-r	10, slt.-r : 10 : 9, sh
30	5·8	0·96	5·5	0·91	WSW	WSW : SW	4·3	0·30	352	9 : 9 : 9, shs	8 : 3 : 1
31	1·1	0·18	1·0	0·17	SW : Calm : ENE	NE : Calm : W	0·7	0·03	181	2 : 9, sh, r : 10, r, slt.-r, m	10, slt.-r : 5 : 9
Means	3·0	0·56	2·9	0·54	...	...	...	0·14	225		
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 58°·7, being 0°·8 *higher* than
The mean *Temperature of the Dew Point* for the month was 54°·3, being 0°·5 *higher* than
The mean *Degree of Humidity* for the month was 71·1, being 1·7 *less* than
The mean *Elastic Force of Vapour* for the month was $0^{in}\cdot422$, being $0^{in}\cdot007$ *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was $4^{grs}\cdot7$, being $0^{grs}\cdot1$ *greater* than
The mean *Weight of a Cubic Foot of Air* for the month was 525 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 6·9.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·376. The maximum daily amount of *Sunshine* was 12·6 hours on July 11.
The highest reading of the *Solar Radiation Thermometer* was 173°·0 on July 2 and 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 36°·2 on July 8.
The *Proportions of Wind* referred to the cardinal points were N. 6, E. 4, S. 7, W. 7. Seven days were calm.
The *Greatest Pressure of the Wind* in the month was 8·3 lbs. on the square foot on July 27. The mean daily *Horizontal Movement of the Air* for the month was 225 miles; the greatest daily value was 448 miles on July 28; and the least daily value was 95 miles on July 24.
Rain ($0^{in}\cdot005$ or over) fell on 12 days in the month, amounting to $3^{in}\cdot657$, as measured by gauge No. 6 partly sunk below the ground; being $1^{in}\cdot258$ *greater* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·646	70·2	53·2	17·0	59·7	− 2·5	54·9	50·6	9·1	16·3	4·5	72	141·7	45·6	57·9	0·098	wP : v, mP : mP, sP	5·2	15·4
2	29·685	68·7	51·0	17·7	57·9	− 4·2	52·6	47·8	10·1	18·3	3·8	69	139·2	37·9	58·0	0·000	mP : wP	8·4	15·3
3	29·875	72·1	48·1	24·0	59·1	− 3·0	54·0	49·4	9·7	18·4	1·7	71	139·9	35·0	58·0	0·000	wP, mP : mP, wP : wP,mP	6·1	15·3
4	29·694	66·0	52·0	14·0	58·0	− 4·1	55·4	53·1	4·9	14·2	1·0	83	95·5	40·9	57·8	0·150	wP : mP : v, wP	0·0	15·2
5	29·570	73·1	55·1	18·0	61·8	− 0·3	58·8	56·3	5·5	13·7	0·8	83	122·8	47·3	57·8	0·361	wP	2·8	15·2
6	29·673	69·0	54·1	14·9	61·6	− 0·6	58·9	56·6	5·0	11·7	1·6	84	127·0	44·2	57·9	0·023	wP : wP, v : wP	3·4	15·1
7	29·874	74·4	54·0	20·4	61·8	− 0·4	57·2	53·2	8·6	17·2	0·0	74	151·1	43·9	57·9	0·000	wP, mP : mP, wP : wP	8·8	15·0
8	29·886	74·3	52·7	21·6	62·7	+ 0·4	59·0	55·8	6·9	14·6	1·0	79	147·8	42·7	58·0	0·000	wP	5·9	15·0
9	29·727	76·4	59·0	17·4	65·8	+ 3·5	62·0	58·9	6·9	13·8	1·5	79	145·5	54·5	58·0	0·136	wP	1·9	14·9
10	29·683	69·0	56·8	12·2	61·4	− 0·9	60·3	59·3	2·1	8·3	0·6	93	106·9	47·8	58·1	0·065	... : wP : ...	0·1	14·9
11	29·787	72·0	51·8	20·2	60·4	− 2·0	56·7	53·5	6·9	15·3	0·6	78	155·2	39·1	58·4	0·060	... : mP, v : mP, wP	8·6	14·8
12	29·938	65·3	50·2	15·1	58·6	− 3·9	55·9	53·5	5·1	10·0	1·2	83	116·9	37·3	58·2	0·011	... : wP : ...	2·9	14·8
13	29·959	70·0	57·3	12·7	62·2	− 0·3	60·4	58·9	3·3	7·9	0·0	89	115·4	47·0	58·3	0·086	... : wP : ...	0·0	14·7
14	30·086	76·2	57·0	19·2	63·7	+ 1·2	60·5	57·8	5·9	15·3	0·2	82	145·9	46·1	58·5	0·000	... : wP, mP : mP, wP	4·0	14·7
15	30·167	69·3	50·8	18·5	60·3	− 2·1	55·4	50·9	9·4	18·9	2·4	72	155·3	39·4	58·4	0·000	... : mP, wP : wP	12·3	14 6
16	30·100	77·8	48·9	28·9	63·0	+ 0·7	56·2	50·5	12·5	29·2	1·0	64	145·5	37·6	58·7	0·000	... : wP : wP	12·8	14·5
17	29·929	83·1	49·4	33·7	65·6	+ 3·5	59·7	54·9	10·7	24·5	0·6	69	149·0	35·6	58·8	0·000	... : wP : wP, ...	12·1	14·5
18	29·759	68·8	57·1	11·7	61·6	− 0·3	59·0	56·8	4·8	9·9	0·6	84	120·0	44·6	58·7	0·000	...	0·3	14·4
19	29·699	61·4	57·0	4·4	59·3	− 2·4	57·2	55·3	4·0	5·3	1·0	87	96·0	55·8	58·7	0·000	... : ... : wwP	0·0	14·4
20	29·681	68·4	56·2	12·2	61·8	+ 0·3	57·6	54·0	7·8	13·1	2·3	76	114·5	54·5	58·9	0·000	wP	0·6	14·3
21	29·464	70·3	52·7	17·6	60·8	− 0·5	58·5	56·4	4·4	13·9	0·4	86	145·4	42·3	58·8	0·229	... : wP : wP	2·4	14·2
22	29·384	70·4	52·6	17·8	58·9	− 2·2	56·3	54·0	4·9	15·7	0·0	83	148·1	41·3	58·9	0·214	wwP	6·5	14·2
23	29·436	71·1	50·1	21·0	58·9	− 2·0	56·6	54·5	4·4	13·5	0·0	85	140·1	39·0	58·8	0·138	...	2·8	14·1
24	29·456	64·3	56·1	8·2	59·2	− 1·6	57·9	56·7	2·5	6·1	0·2	92	91·9	51·3	59·6	0·437	...	0·0	14·0
25	29·695	62·2	50·5	11·7	57·6	− 3·1	54·9	52·5	5·1	7·9	1·2	83	115·3	41·0	58·6	0·000	... : wP	0·4	14·0
26	29·912	71·1	46·7	24·4	58·1	− 2·6	54·9	52·0	6·1	17·8	0·0	80	142·1	34·8	58·7	0·000	... : wP : ...	5·3	13·9
27	29·915	74·2	58·1	16·1	63·9	+ 3·3	60·5	57·7	6·2	14·9	0·9	80	135·7	49·5	58·5	0·303	... : ... : mP, wP	3·6	13·9
28	30·025	75·0	55·2	19·8	63·4	+ 3·0	59·0	55·3	8·1	15·7	1·9	75	152·0	45·1	58·6	0·000	... : mP, wP : mP, wP	9·8	13·8
29	30·051	75·3	55·0	20·3	64·2	+ 3·9	58·9	54·4	9·8	18·3	2·8	71	145·8	43·7	58·6	0·000	... : wP : wP	7·1	13·7
30	30·184	70·8	49·4	21·4	59·7	− 0·4	54·1	49·1	10·6	16·1	3·7	68	135·8	36·4	58·6	0·000	wP	7·4	13·7
31	30·084	80·6	56·6	24·0	67·2	+ 7·3	62·9	59·5	7·7	15·3	1·1	76	144·3	49·5	58·8	0·000	... : wP, wwP	6·6	13·6
Means	29·807	71·3	53·4	17·9	61·2	− 0·4	57·6	54·5	6·7	14·6	1·2	79·0	133·1	43·6	58·4	Sum 2·311	...	4·8	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.

The mean reading of the *Barometer* for the month was 29in·807, being 0in·024 *higher* than the average for the 65 years, 1841–1905.

Temperature of the Air.

The highest in the month was 83°·1 on August 17; the lowest in the month was 46°·7 on August 26; and the range was 36°·4.
The mean of all the highest daily readings in the month was 71°·3, being 1°·4 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 53°·4, being 0°·4 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 17°·9, being 1°·8 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 61°·2, being 0°·4 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	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.		
Aug. 1	4·2	0·64	3·5	0·54	NW : WSW	SW : W : NW	4·8	0·09	214	10 : 8 : 9,cu.-n,fq.-shs	9, r, t : 8, oc.-shs : 6
2	6·1	0·94	6·1	0·94	NW : NNW	NW : W	2·8	0·28	306	5 : 6 : 9	8 : 0
3	5·5	0·85	5·2	0·80	WSW	SW	2·1	0·15	239	0 : 3 : 9,th.-cl,so.-ha,oc.-slt.-r	10, m.-r : 10, slt.-sh : 3
4	0·0	0·00	0·0	0·00	SW : Calm : WSW	WSW : Calm	0·3	0·00	132	8 : 9 : 10, oc.-slt.-r	10, oc.-slt.-r : 10, shs : 10, sh, r
5	2·1	0·32	2·0	0·31	Calm : WSW	W : WSW	1·9	0·07	203	10, slt.-r,r : 10, r : 10, m	9, s, h : 4, h
6	3·8	0·58	3·5	0·54	SW	SW	1·5	0·11	206	8, sh : 4 : 9,cu.-s,n,fq.-m.-r	10,n,oc.-slt.-r : 10 : 4
7	6·4	0·99	6·4	0·99	WSW	SW : SSW	1·5	0·10	219	7 : 8, h : 9, cu.-s,n	7 : p.-cl : 1
8	0·9	0·12	0·7	0·10	S : SW	SW : S	1·9	0·11	238	3 : 7 : 8, ci.-cu,s	10 : 10, th-cl
9	0·5	0·06	0·3	0·04	SSE : SW	SW	1·8	0·15	247	10, slt.-sh : 10 : 9, cu.-s, n	10, n : 10, oc.-m.-r : 10, r
10	5·4	0·77	5·4	0·77	SSW : Calm	SW	0·4	0·02	159	10 : 10,oc.-slt.-r : 10, fq.-slt.-r	10, r : 2
11	7·0	1·00	7·0	1·00	SW : WSW	WNW : WSW	2·6	0·07	215	v.-cl : 7 : 9, t	7,t,slt.-r,hy.-sh: 5, sh : 1
12	0·7	0·10	0·5	0·07	SW	SW : SSW	4·0	0·38	332	0 : 4 : 10,fq.-slt.-r	10,fq.-slt.-r, w : 10, s, n : 9, shs
13	4·1	0·59	3·8	0·55	SSW : SW	SW : Calm	0·6	0·05	174	9 : 10, r	10, n, s : 9 : 1, d
14	0·0	0·00	0·0	0·00	Calm : NNE	NNE : NE	1·5	0·07	183	10, m, d : 10, f, m : 9, cu.-s,m,h	9, cu.-s, n : 8 : 10
15	7·5	1·00	7·4	0·99	NE	NE : Calm	1·3	0·12	253	8 : 3 : 4	6 : 2 : 0
16	7·5	1·00	7·5	1·00	WSW : W : NW	N : Calm	0·5	0·03	159	0, d : 1, m : 0, h	0 : 0
17	6·1	0·81	6·0	0·80	Calm	WSW : Calm	0·2	0·02	127	1, d : 1 : 1, slt.-h	1, cu, h : 1, h
18	0·0	0·00	0·0	0·00	Calm : E	E	1·4	0·12	225	6, m : 10 : 10, s	10, cu.-s : 10
19	0·0	0·00	0·0	0·00	E : ENE	ENE	0·4	0·05	183	10, m.-r : 10 : 10, slt.-r	10, oc.-m.-r : 10 : 10
20	2·7	0·36	2·2	0·29	Calm : ENE	Calm : SSW	0·1	0·00	98	10, m.-r.-sh : 10, m : 10	10, th.-cl,m : 10 : 7
21	5·4	0·72	4·2	0·56	Calm : SE	S : SE	2·0	0·11	186	9, sh : 10, m.-r : 10,cu,n,hy.-sh	10, n : 10, sh : 3, sh
22	5·4	0·67	5·3	0·66	SE : SSE	SE : Calm	1·0	0·07	157	v.-cl, sh : 7 : 7,cu.-n,ci,sh	9, r : v.-cl, r : 2
23	0·0	0·00	0·0	0·00	Calm : SW	SW : Calm : E	1·5	0·08	161	6 : 9 : 9,cu,cu.-s, m	9, r : 10,m.-r.-sh : 10, r
24	1·4	0·17	0·6	0·07	Calm	N : NNW	0·4	0·02	174	10, r : 10, r, fq.-slt.-r	10, slt.-r : 10, sh : 9
25	7·7	0·96	7·4	0·92	NW : NNW	N : Calm	3·7	0·23	284	10 : 10	10 : 10 : 4
26	1·0	0·13	1·0	0·13	Calm : SW : WSW	W : WSW	2·0	0·15	236	0, m : 2 : 5, cu, ci.-s	9 : 10 : 6
27	...	...	...	...	WSW	W : WNW	2·2	0·16	292	10 : 10, r, oc.-slt.-r,sh	8 : 7 : p.-cl
28	3·3	0·41	2·7	0·34	W	W : WSW	1·4	0·10	236	2 : 10 : 7, cu	6, cu : 2 : 3
29	7·6	0·90	7·3	0·86	WSW : W : WNW	WNW : NW : N	2·0	0·20	323	9 : 10 : 9	7 : 7 : 1
30	3·2	0·37	2·6	0·31	NW : W	WNW : W	1·4	0·10	235	1 : 8 : 9,th.-cl,cu.-s,ci	9 : 9 : 6
31	5·3	0·63	4·9	0·58	W	W	2·9	0·15	312	9 : 10, m : 6	3 : 1, h, d
Means	3·7	0·50	3·5	0·47	...	...	...	0·11	216		
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 57°·6, being 0°·1 *higher* than
The mean *Temperature of the Dew Point* for the month was 54°·5, being 0°·5 *higher* than
The mean *Degree of Humidity* for the month was 79·0, being 2·7 *greater* than
The mean *Elastic Force of Vapour* for the month was 0in·425, being 0in·007 *greater* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 4grs·7, being 0grs·1 *greater* 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 7·3.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·329. The maximum daily amount of *Sunshine* was 12·8 hours on August 16.

The highest reading of the *Solar Radiation Thermometer* was 155°·3 on August 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 34°·8 on August 26.

The *Proportions of Wind* referred to the cardinal points were N. 5, E. 3, S. 7, W. 11. Five days were calm.

The *Greatest Pressure of the Wind* in the month was 4·8 lbs. on the square foot on August 1. The mean daily *Horizontal Movement of the Air* for the month was 216 miles; the greatest daily value was 332 miles on August 12; and the least daily value was 98 miles on August 20.

Rain (0in·005 or over) fell on 14 days in the month, amounting to 2in·311, as measured by gauge No. 6 partly sunk below the ground; being 0in·033 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·933	68·4	53·0	15·4	61·0	+ 1·2	58·5	56·4	4·6	8·9	1·7	85	97·7	47·3	58·9	0·081	... : wP	0·0	13·6
2	29·926	65·9	50·3	15·6	57·4	− 2·3	51·2	45·6	11·8	17·7	3·5	64	131·0	43·0	58·9	0·018	wP	9·5	13·5
3	29·767	64·4	48·4	16·0	56·5	− 3·1	50·9	45·7	10·8	20·1	3·6	68	122·0	38·0	58·8	0·003	wP : wP : mP	6·9	13·4
4	29·838	60·5	44·4	16·1	50·2	− 9·3	46·0	41·6	8·6	14·5	3·0	73	121·9	30·4	58·6	0·023	mP : mP, v : mP	5·3	13·3
5	29·785	60·7	40·5	20·2	49·6	− 9·8	46·8	43·8	5·8	15·8	1·2	81	123·4	30·1	58·6	0·147	wP : mP, v : wwP, wP	1·7	13·3
6	29·805	61·0	46·7	14·3	52·7	− 6·5	48·7	44·7	8·0	14·6	2·7	75	119·9	38·6	58·2	0·000	wP : mP : mP	4·9	13·2
7	29·964	61·0	42·8	18·2	52·2	− 6·8	48·2	44·1	8·1	13·0	0·9	74	92·8	31·6	58·0	0·000	mP	1·9	13·2
8	29·826	64·5	48·1	16·4	54·7	− 4·1	51·4	48·2	6·5	13·1	1·6	78	115·0	35·6	57·9	0·028	wP	3·2	13·1
9	29·639	59·3	46·7	12·6	53·0	− 5·6	51·1	49·2	3·8	5·8	1·0	87	86·8	35·6	57·7	0·103	wP	0·3	13·0
10	29·566	59·0	43·9	15·1	50·7	− 7·7	46·4	41·9	8·8	12·2	4·5	73	98·4	37·2	57·3	0·000	wP	3·5	13·0
11	29·800	63·0	47·8	15·2	53·7	− 4·4	50·7	47·8	5·9	13·5	2·1	80	122·6	41·6	57·4	0·129	v, wP : wP, v : ...	5·7	12·9
12	29·983	61·1	43·0	18·1	51·1	− 6·9	47·5	43·8	7·3	14·4	1·3	76	117·0	34·6	57·1	0·000	... : wP, sP : mP, wP	6·2	12·8
13	30·200	62·2	41·7	20·5	50·5	− 7·3	48·0	45·4	5·1	15·0	0·4	83	122·0	31·1	57·0	0·000	mP : mP : mP	4·9	12·8
14	30·210	67·5	39·1	28·4	51·3	− 6·4	47·9	44·4	6·9	16·7	0·2	78	138·1	26·1	56·9	0·000	... : wP : mP, wP	9·7	12·7
15	30·048	65·9	40·1	25·8	53·5	− 4·1	48·4	43·3	10·2	22·2	0·0	69	138·9	25·8	56·6	0·000	wP	10·7	12·7
16	29·777	67·4	50·4	17·0	56·9	− 0·6	54·5	52·3	4·6	11·2	1·3	85	132·9	42·0	56·5	0·147	wP : ...	1·2	12·6
17	29·711	66·6	48·1	18·5	56·2	− 1·0	52·5	49·0	7·2	18·6	1·2	77	131·7	40·0	56·4	0·000	...	5·0	12·5
18	29·726	66·3	44·8	21·5	57·0	+ 0·1	52·5	48·4	8·6	17·8	1·9	72	131·2	34·1	56·2	0·000	... : wP, mP	8·2	12·4
19	29·424	64·7	43·6	21·1	52·8	− 3·7	51·1	49·4	3·4	8·1	1·7	89	72·6	34·8	56·2	0·260	wP : v, wP : ...	0·0	12·4
20	29·467	62·2	48·6	13·6	54·5	− 1·7	51·5	48·6	5·9	12·2	1·4	80	110·8	40·2	56·2	0·350	... : v ... : ...	3·0	12·3
21	29·455	62·4	45·3	17·1	52·2	− 3·7	49·5	46·8	5·4	12·1	1·3	82	128·7	34·3	56·2	0·084	...	7·8	12·2
22	29·275	61·0	45·1	15·9	54·0	− 1·6	52·4	50·8	3·2	6·4	0·8	89	89·5	36·2	56·0	0·410	...	0·3	12·2
23	29·257	60·6	45·0	15·6	53·6	− 1·8	50·9	48·3	5·3	11·0	1·9	82	108·4	35·5	56·2	0·000	...	1·8	12·1
24	29·668	62·0	43·1	18·9	51·0	− 4·3	47·3	43·4	7·6	6·5	1·3	76	118·2	33·0	55·9	0·000	...	6·2	12·1
25	29·805	63·3	38·2	25·1	51·1	− 4·1	47·8	44·4	6·7	17·1	0·9	78	134·1	27·6	55·9	0·082	...	4·6	12·0
26	29·753	59·1	47·9	11·2	52·9	− 2·3	49·2	45·5	7·4	16·3	1·0	77	108·0	39·9	55·7	0·121	...	6·8	11·9
27	30·088	62·5	45·2	17·3	52·2	− 2·9	47·6	42·9	9·3	15·2	3·0	71	124·0	34·1	55·6	0·000	...	5·3	11·9
28	30 151	60·0	41·1	18·9	51·0	− 3·9	48·5	45·9	5·1	12·0	1·8	83	96·8	29·5	55·4	0·000	... : ... : wP	0·0	11·8
29	30·071	65·6	54·1	11·5	58·9	+ 4·2	57·7	56·6	2·3	4·4	0·8	93	92·0	53·0	55·3	0·037	wP	0·0	11·7
30	30·104	65·2	58·0	7·2	61·3	+ 6·9	60·5	59·8	1·5	3·2	0·6	95	73·0	53·3	55·2	0·000	wP	0·0	11·7
Means	29·801	63·1	45·8	17·3	53·8	− 3·4	50·5	47·3	6·5	13·3	1·6	79·1	113·3	36·5	56·9	Sum 2·023	...	4·2	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.

The mean reading of the *Barometer* for the month was 29in·801, being 0in·010 *lower* than the average for the 65 years, 1841–1905.

Temperature of the Air.

The highest in the month was 68°·4 on September 1; the lowest in the month was 38°·2 on September 25; and the range was 30°·2.
The mean of all the highest daily readings in the month was 63°·1, being 4°·2 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 45°·8, being 3°·3 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 17°·3, being 0°·9 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 53°·8, being 3°·4 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Sept.1	5·3	0·63	5·1	0·60	W	WSW: NW:WNW	2·9	0·22	371	9 : 6 : 10, n	10, n, m.-r : 10,fq.-m.-r,r: 5
2	0·5	0·06	0·5	0·06	WNW : NW	WNW : W	3·0	0·25	385	6 : 2 : 4, cu	7 : 8 : 10, shs
3	8·5	1·00	8·4	0·99	WSW : W : NW	NNW : NW	3·2	0·27	402	10 : 8 : 9, r	7, sh : 3 : 0
4	8·3	0·98	8·3	0·98	WSW : W : NW	NNW : N : NW	3·9	0·16	313	1 : 8 : 7	v.-cl,shs,r : 4 : 0, slt.-m
5	2·1	0·23	1·8	0·20	W	W : WSW : N	2·1	0·13	310	0 : 10, cu.-s, n	10, r : 10, r, oc.-r : 10
6	6·1	0·67	6·0	0·67	NW : W : N	NNW : NW	2·4	0·11	247	10 : 10, m : 9	8 : 5 : 6
7	0·0	0·00	0·0	0·00	WSW : WNW	WNW	2·0	0·14	312	1 : 9, cu.-s, m	10, cu.-s : 10, cu.-s, s
8	5·1	0·57	4·7	0·52	W	W	1·5	0·11	282	10, m.-r : 10, sh : 9	10 : v.-cl, slt.-r : 1
9	5·0	0·56	4·8	0·53	WSW	WSW	2·1	0·13	297	7 : 10,fq.-m.-r,sh : 10,fq.-slt.-r	10,fq.-slt.-r,hy.-shs: 8 : 5, sh
10	1·8	0·20	1·6	0·18	WSW : WNW	NW	5·8	0·51	486	5, w : 7, w : 9, cu, n, w	9, w : 2 : 9
11	7·1	0·79	7·1	0·79	NW : N	N	3·2	0·20	330	10, r : 10, r : 8, sh	8, cu.-n, sh: 9 : 3
12	9·2	0·97	9·1	0·95	NNW : N	N : NNE	1·8	0·09	252	0 : 1 : 8, cu.-s, cu, n	6 : 1
13	9·5	1·00	9·5	1·00	N : NNW : Calm	Calm : SSW	0·1	0·00	104	1, d : 9, m, d : 1, m, h	4, h : 5, m, h : 1, m
14	9·5	1·00	9·5	1·00	Calm : SW	SW : SSW : S	0·5	0·02	141	2, m, d : 2, m : 2, cu, m	5, cu : 0, d, slt.-ho.-fr
15	4·0	0·43	2·2	0·22	SSE : S	S : SSE	2·0	0·12	225	0, ho.-fr : 0 : 1, ci	1 : 4 : 6
16	5·3	0·56	4·2	0·45	S : SSW	SW : WSW	1·5	0·10	220	9 : 10 : 10,cu.-s,n,slt.-r	10, slt.-r, r : 10 : v.-cl, h
17	0·0	0·00	0·0	0·00	Calm : SW	SSW	0·8	0·05	165	5 : 9 : 7, fq.-so.-ha	9 : 10, m.-r
18	4·8	0·50	3·4	0·36	SW : W : WNW	WNW : Calm	1·7	0·11	243	10 : 6, cu, cu.-s	4, th.-cl, so.-ha : 3 : 1
19	8·5	0·85	8·3	0·83	Calm : S : SE	S : SW : WSW	13·3	0·64	361	8 : 10, fq.-r,-slt.-r	10, r, w : 10, r,st.-w : 3, w
20	3·9	0·39	3·9	0·39	WSW : SW	SW : WSW	4·0	0·29	328	1, w : th.-cl : 9, ci.-cu,n,oc.-slt.-r	10, r : 10, r, oc.-slt.-r : 10, r
21	7·5	0·75	7·5	0·75	WSW : SW	SW : WSW	6·4	0·39	351	2, sh : 2 : 6, w	8,hy.-sh,fq.-shs,w: 2, oc.-slt.-r : 1
22	4·8	0·48	4·5	0·45	SSW : S	SSW : SW	5·6	0·39	351	4 : 10, fq.-slt.-r : 10, fq.-r, -slt.-r	10, r, w : 3 : 7, fq.-hy.-r
23	7·6	0·76	7·1	0·71	SW : WSW : W	WNW : W	4·9	0·31	336	10, m.-r, w: 10 : 10, n	8 : 2 : 0
24	7·6	0·76	7·6	0·76	W : NW : NNW	NW : W	1·4	0·11	275	1 : 10 : 7, cu	7, ci.-s, cu.-n : 8, m : 1, m
25	0·0	0·00	0·0	0·00	WSW	WSW : SW:SSW	1·2	0·09	207	1 : 7 : 7, cu.-s, m	9 : 10,slt.-r : 10, r
26	6·0	0·59	5·9	0·57	SSW : NW	NW : WNW	9·7	0·65	500	10, r : 9 : 7, cu, w	6,sh,sq,t,l,hy.-r, st.-w: 8, sh, w : 2
27	5·5	0·54	4·8	0·47	WNW:NW:NNW	NNW	2·4	0·18	306	3 : 5 : 4	5 : 6, th.-cl : 4
28	0·0	0·00	0·0	0·00	Calm : WSW	WSW : SW	0·2	0·02	159	5 : 10, m : 10, m	10, m : 10, slt.-m.-r.-sh
29	0·0	0·00	0·0	0·00	Calm : SW	WSW : Calm	0·2	0·00	149	10, r, sh : 10 : 10, s, n	10, r,fq.-m.-r : 10 : 10
30	1·5	0·15	1·5	0·14	Calm	Calm	0·1	0·00	87	10 : 10, m : 10, glm, m	10, m : 10, d, slt.-m
Means	4·8	0·51	4·6	0·49	...	...	...	0·19	283		
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°·5, being 3°·6 *lower* than
The mean *Temperature of the Dew Point* for the month was 47°·3, being 3°·9 *lower* than
The mean *Degree of Humidity* for the month was 79·1, being 1·1 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·327, being 0in·050 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 3grs·7, being 0grs·5 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 537 grains, being 4 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·0.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·329. The maximum daily amount of *Sunshine* was 10·7 hours on September 15.
The highest reading of the *Solar Radiation Thermometer* was 138°·9 on September 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 25°·8 on September 15.
The *Proportions of Wind* referred to the cardinal points were N. 6, E. 1, S. 6, W. 14. Three days were calm.
The *Greatest Pressure of the Wind* in the month was 13·3 lbs. on the square foot on September 19. The mean daily *Horizontal Movement of the Air* for the month was 283 miles; the greatest daily value was 500 miles on September 26; and the least daily value was 87 miles on September 30.
Rain (0in·005 or over) fell on 15 days in the month, amounting to 2in·023, as measured by gauge No. 6 partly sunk below the ground; being 0in·125 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	30·249	70·0	54·1	15·9	60·8	+ 6·7	59·3	58·0	2·8	9·0	0·4	91	111·5	45·0	55·4	0·002*	WP	3·1	11·6
2	30·268	59·2	53·8	5·4	56·3	+ 2·6	55·3	54·4	1·9	3·4	1·2	93	64·2	52·8	55·6	0·002	WP	0·0	11·5
3	30·162	70·6	50·3	20·3	58·7	+ 5·4	55·2	52·1	6·6	15·7	1·4	79	119·4	47·0	55·6	0·000	wP : mP, wP	7·3	11·5
4	30·192	65·9	55·5	10·4	60·1	+ 7·1	58·6	57·3	2·8	5·6	0·6	91	91·2	50·2	55·7	0·011	wP	0·0	11·4
5	30·250	65·9	46·7	19·2	57·1	+ 4·3	54·5	52·1	5·0	12·4	0·4	84	119·2	36·6	55·9	0·000	wP, mP : mP, wP : wP, wwP	8·9	11·3
6	30·088	70·0	41·8	28·2	54·7	+ 2·2	51·8	49·0	5·7	16·7	0·0	81	125·1	32·0	55·9	0·000	... : wP : ...	7·6	11·3
7	29·981	65·0	44·0	21·0	52·6	+ 0·3	51·4	50·2	2·4	7·8	0·0	92	109·9	34·0	55·9	0·008	... : wP : wP	0·5	11·2
8	30·209	54·4	41·6	12·8	48·5	− 3·5	44·7	40·6	7·9	13·2	4·1	74	104·1	32·7	55·6	0·000	wwP : wP, mP : mP, wP	2·1	11·2
9	30·323	58·1	38·7	19·4	47·4	− 4·2	44·2	40·6	6·8	15·2	1·1	76	125·5	28·7	55·5	0·000	wP : mP : wP	6·7	11·1
10	30·150	59·6	36·9	22·7	47·0	− 4·3	44·7	42·1	4·9	12·0	0·0	84	125·5	25·9	55·4	0·000	wP : mP, wP : wP ...	6·3	11·0
11	29·954	58·6	36·6	22·0	46·8	− 4·1	45·1	43·2	3·6	10·0	0·2	88	96·0	26·7	55·1	0·000	... : wP, ...	1·2	10·9
12	29·841	56·9	41·1	15·8	50·3	− 0·3	48·5	46·6	3·7	7·4	0·4	88	78·9	29·0	54·9	0·005	...	0·0	10·9
13	29·640	56·9	41·4	15·5	49·6	− 0·7	48·1	46·5	3·1	9·5	1·2	89	75·0	36·8	54·8	0·169	... : wP, mP	0·0	10·8
14	29·806	48·9	35·4	13·5	42·3	− 7·8	37·1	30·8	11·5	17·2	5·4	65	96·5	27·4	54·5	0·000	wP : mP	5·8	10·8
15	29·925	52·0	33·4	18·6	42·6	− 7·3	38·6	33·8	8·8	14·2	4·2	72	92·6	24·9	54·3	0·000	... : mP, wP	4·3	10·7
16	29·900	46·7	42·0	4·7	44·6	− 5·2	43·6	42·5	2·1	9·4	0·4	93	60·7	38·6	54·0	0·276	v, wP : wP : wP	0·0	10·6
17	29·787	65·7	45·4	20·3	54·1	+ 4·5	51·3	48·6	5·5	13·5	0·6	81	108·9	44·6	53·9	0·021	wP	4·2	10·6
18	29·711	59·2	45·4	13·8	53·4	+ 4·1	50·3	47·2	6·2	10·5	1·4	79	98·1	38·3	53·6	0·066	... : wP	2·0	10·5
19	29·812	51·3	38·1	13·2	45·5	− 3·6	43·7	41·6	3·9	9·6	0·6	87	71·6	27·5	53·4	0·282	... : wP : wP, ...	0·0	10·5
20	29·570	62·1	46·9	15·2	55·7	+ 6·9	54·2	54·2	1·5	2·8	0·4	95	71·8	46·0	53·5	0·572	...	0·0	10·4
21	29·354	66·1	58·2	7·9	60·2	+11·6	58·7	57·4	2·8	8·2	1·9	91	111·0	54·0	53·5	0·400	...	1·2	10·3
22	28·960	63·0	54·7	8·3	58·2	+ 9·9	55·9	53·8	4·4	8·7	1·0	85	107·5	51·5	53·4	0·260	... : wP	1·6	10·2
23	28·681	60·0	48·0	12·0	53·9	+ 5·8	51·7	49·6	4·3	8·5	2·9	85	89·5	39·7	53·5	0·161	wP : mP, wP : wP	1·0	10·2
24	28·890	61·2	43·5	17·7	50·2	+ 2·3	47·9	45·5	4·7	13·0	0·9	84	113·3	33·2	53·5	0·020	wP : wP, v : wP	5·8	10·1
25	29·350	56·5	38·1	18·4	47·2	+ 0·5	45·2	43·0	4·2	10·3	0·5	86	84·0	28·0	53·4	0·002*	wP	7·3	10·1
26	29·467	56·9	43·9	13·0	52·2	+ 4·6	50·6	49·0	3·2	7·4	1·6	89	68·0	30·8	53·6	0·160	wP : wP, v : wP	0·0	10·0
27	29·400	59·0	49·0	10·0	54·3	− 6·8	51·1	48·0	6·3	11·5	3·0	79	86·9	41·3	53·4	0·000	wP	...	...
28	29·779	61·1	43·7	17·4	51·0	+ 3·6	48·1	45·1	5·9	13·6	1·5	81	107·7	33·9	53·3	0·000	wP	7·0	9·9
29	29·730	59·9	49·1	10·8	53·8	+ 6·5	51·0	48·3	5·5	9·8	3·1	81	83·5	40·8	53·1	0·000	wP	0·1	9·8
30	29·571	63·9	46·5	17·4	53·9	+ 6·7	51·4	49·0	4·9	11·7	1·6	83	110·3	35·8	53·0	0·000	wP	7·0	9·7
31	29·661	61·6	47·9	13·7	53·6	+ 6·5	52·8	52·0	1·6	11·3	0·4	94	87·2	36·9	53·0	0·000	wP	0·1	9·7
Means	29·763	60·2	44·9	15·3	52·1	+2·2	49·8	47·5	4·7	10·6	1·4	84·5	96·6	37·1	54·4	Sum 2·417	...	3·0	10·7
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 on 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 1 and 25 are derived from fog or dew.

The mean reading of the *Barometer* for the month was 29in·763, being 0in·042 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 70°·6 on October 3; the lowest in the month was 33°·4 on October 15; and the range was 37°·2.
The mean of all the highest daily readings in the month was 60°·2, being 2°·7 *higher* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 44°·9, being 1°·7 *higher* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 15°·3, being 1°·0 *greater* than the average for the 65 years, 1841–1905.
The mean for the month was 52°·1, being 2°·2 *higher* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	General Direction. P.M.	Pressure on the Square Foot. Greatest.	Pressure on the Square Foot. Mean of 24 Hourly Measures.	Robinson's. Horizontal Movement of the Air.	Clouds and Weather. A.M.	Clouds and Weather. P.M.
	hours.		hours.				lbs.	lbs.	miles.		
Oct. 1	0·0	0·00	0·0	0·00	Calm	ENE : NNE	0·2	0·02	120	9, m, f : 10, m : 8, cu.-s,m	7, cu.-s, n, h : 10, slt.-sh : 10
2	0·0	0·00	0·0	0·00	NNE	Calm	0·1	0·00	123	10 : 10,oc.-m.-r : 10, oc.-slt.-m.-r	10, n, s : 10
3	3·9	0·36	3·9	0·36	Calm : SW	WSW	0·2	0·01	161	10, m : 10, m : 2, m	0, slt.-h : 1 : 6
4	1·9	0·18	1·4	0·13	Calm	Calm : ENE	0·6	0·01	130	9 : 10 : 10	10, oc.-m.-r, slt.-r : 10
5	10·7	0·99	10·7	0·99	Calm	Calm	0·1	0·00	98	8 : 9 : 3, h	1, h : 1 : 0, m, hy.-d
6	5·9	0·55	2·7	0·25	Calm	Calm	0·0	0·00	65	0 : 0, f, m : 0, m	0 : 7 : 6, m
7	0·0	0·00	0·0	0·00	Calm	N : NE : NNE	1·8	0·12	211	5, m : 10, m, f, d : 9, f, d	10, cu.-s : 10, fq.-m.-r : 10
8	10·5	0·98	10·5	0·98	NNE : NE	NNE	3·0	0·18	296	10 : 3 : 10	v.-cl : 1
9	8·8	0·81	8·8	0·81	NNE : NE	NE : ENE	1·3	0·08	236	0 : 6 : 1	p.-cl : 5 : 1
10	4·1	0·36	3·9	0·35	Calm	Calm	0·4	0·00	86	3 : 10, m : 8, m, h	1 : 0, m : 0, m, f
11	3·8	0·34	3·7	0·33	Calm	NE : ENE : Calm	0·4	0·01	115	10, f : 10, f, m	9, m : 9, m
12	0·0	0·00	0·0	0·00	Calm : N	N : Calm	0·3	0·02	131	10 : 9, m, f : 10, m	10, cu.-s : 10, slt.-m.-r, glm : 10, m.-r, r
13	6·3	0·56	5·6	0·50	Calm : W	WNW : N	3·0	0·16	323	10, r, m.-r : 10, r : 10, slt.-r	10, slt.-sh : 10, slt.-sh : 8
14	9·6	0·85	9·4	0·83	NNW	NNW : NW : W	2·4	0·18	355	v.-cl : 1 : 4	9 : 10, th.-cl : 3
15	0·0	0·00	0·0	0·00	WSW	WNW : WSW	1·1	0·05	228	1 : 7 : 5	8 : 10 : 10, m.-r
16	0·0	0·00	0·0	0·00	WSW : ENE : E	Calm	0·6	0·03	148	10, m.-r, sh, r : 10, r : 10, r, m.-r	10, r : 10, oc.-m.-r : 10, m
17	1·1	0·10	1·1	0·10	Calm : WSW	W	6·2	0·55	390	10, r : 10, m : 10, w	4, w : 5, w : 10, w
18	5·3	0·45	4·7	0·40	WSW : WNW	W : NNW : NNE	3·0	0·24	337	10 : 10 : 10, r, m.-r	8, ci, n : 10, th.-cl : 9, cu.-s
19	0·0	0·00	0·0	0·00	Calm	Calm : SE	1·4	0·01	135	8 : 2, h : 9	10, slt.-r : 10, r : 10, r
20	0·0	0·00	0·0	0·00	SE : SW	SW	3·9	0·27	320	10, r : 10, r	10, fq.-r,hy.-sh : 10, oc.-m.-r : 10
21	3·7	0·32	1·0	0·09	SW	SW	4·4	0·48	425	10, r, w : 10, r, w : 10, m.-r,w	10, m.-r, r : 9, fq.-r, hy.-sh
22	4·0	0·34	3·5	0·30	SW	SW : SSW	13·5	1·00	557	10, r : 10, fq.-r : 9, sh	10, fq.-r, w : 10, r, oc.-r, st.-w : 8,m.-r,sh,w
23	9·5	0·81	9·1	0·77	SW	SW : SSW	9·9	0·61	426	10,sh,r,w : 10, r, w : 9	9, sh : 9, r : 1
24	11·1	0·93	11·1	0·93	SSW : WSW	SW : SSW	3·7	0·10	277	1 : v.-cl : 6	v.-cl, shs : 1
25	7·2	0·60	6·8	0·57	SW : WSW	WSW : SW	0·5	0·03	200	0 : 0, m, d : 0,m,h,d	0, h, m : 1, lu.-ha : 1, d, lu.-ha
26	1·8	0·15	0·2	0·02	SSW	SSW	7·8	0·66	432	9 : 10, r : 10, sh,w,r	10,hy.-sh,fq.-r,w: 10,lu.-ha,oc.-m.-r,w: 10, lu.-ha
27	8·3	0·69	7·2	0·60	SSW : SW	SW : WSW	5·0	0·43	432	9 : 9 : 7, w	7,w,so.-ha : 8 : 9, lu.-ha
28	4·7	0·39	4·7	0·39	WSW	SW	1·4	0·12	290	1 : 1	7, th.-cl : 9 : 8
29	7·7	0·64	6·3	0·53	SW	SSW : SSE	2·4	0·29	355	9 : 10 : 10	10, th.-cl, so.-ha : 10, lu.-ha : 8, lu.-ha
30	10·5	0·88	10·2	0·85	SSE	S : SSE. : Calm	1·9	0·07	191	8, d : 7 : 1	0 : 0 : 1, d
31	6·9	0·55	6·7	0·54	SSE : Calm	Calm : SSW	0·1	0·00	120	4 : 9 : 10	9, m : 8 : 4
Means	4·8	0·41	4·3	0·37	...	...	...	0·18	249		
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°·8, being 1°·9 *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 84·5, being 0·5 *less* 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 7·0.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·286. The maximum daily amount of *Sunshine* was 8·9 hours on October 5.

The highest reading of the *Solar Radiation Thermometer* was 125°·5 on October 9 and 10; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°·9 on October 15.

The *Proportions of Wind* referred to the cardinal points were N. 3, E. 4, S. 8, W. 8. Eight days were calm.

The *Greatest Pressure of the Wind* in the month was 13·5 lbs. on the square foot on October 22. The mean daily *Horizontal Movement of the Air* for the month was 249 miles; the greatest daily value was 557 miles on October 22; and the least daily value was 65 miles on October 6.

Rain (0in·005 or over) fell on 14 days in the month, amounting to 2in·417, as measured by gauge No. 6 partly sunk below the ground; being 0in·365 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·680	58·7	46·4	12·3	53·1	+ 6·1	51·5	49·9	3·2	8·2	0·6	89	93·0	35·0	53·0	0·212	wP : wP : wP, wwP	1·5	9·6
2	29·545	61·4	48·1	13·3	54·2	+ 7·4	52·1	50·0	4·2	11·1	1·8	86	100·7	38·0	53·0	0·036	wwP : wP : wP	6·6	9·6
3	29·336	61·0	50·0	11·0	55·7	+ 9·1	54·3	53·0	2·7	5·3	1·6	91	67·0	43·4	52·9	0·320	wN, wP : wP : wP	0·0	9·5
4	29·709	59·4	44·7	14·7	51·1	+ 4·7	48·5	45·8	5·3	12·9	1·5	82	104·1	33·0	52·9	0·070	wP : mP, wP : wP, v	6·8	9·5
5	29·652	51·2	45·1	6·1	48·8	+ 2·7	47·0	45·0	3·8	5·7	1·7	87	59·9	34·5	52·7	0·072	wP : mP : mP, wP	0·0	9·4
6	29·739	52·0	40·3	11·7	45·1	− 0·7	43·2	41·0	4·1	8·6	1·1	86	68·6	28·2	52·5	0·000	wP : mP, wP	1·7	9·3
7	28·953	56·0	43·7	12·3	47·9	+ 2·5	46·0	43·9	4·0	7·3	1·5	87	86·2	37·5	52·6	0·372	v : wP, v : v, wP	1·7	9·3
8	28·903	48·6	36·0	12·6	43·9	− 1·1	41·5	38·7	5·2	7·0	2·1	82	78·0	32·0	52·2	0·000	wP	0·6	9·2
9	29·357	42·7	30·0	12·7	36·5	− 8·1	33·5	29·1	7·4	13·2	3·0	75	72·2	20·6	52·0	0·000	wP : mP : ...	5·1	9·2
10	29·605	38·2	28·1	10·1	34·1	−10·2	33·2	31·6	2·5	5·5	1·0	90	43·0	18·8	51·8	0·093	...	0·0	9·1
11	30·024	43·4	34·2	9·2	39·4	− 4·6	37·6	35·3	4·1	6·0	2·6	86	48·9	29·2	51·3	0·044	...	0·0	9·0
12	30·246	46·0	32·7	13·3	37·6	− 6·1	34·6	30·5	7·1	13·9	4·7	76	81·5	24·3	51·0	0·000	...	7·5	9·0
13	29·997	40·1	30·9	9·2	36·0	− 7·5	33·3	29·2	6·8	8·5	1·4	76	54·9	22·6	50·7	0·000	...	0·0	9·0
14	29·930	43·7	26·6	17·1	35·2	− 8·1	33·7	31·4	3·8	8·8	0·0	85	69·2	18·0	50·1	0·000	...	1·6	8·9
15	29·970	45·6	29·1	16·5	35·9	− 7·2	34·4	32·0	3·9	8·9	1·1	86	81·5	20·4	49·9	0·000	...	6·4	8·8
16	30·065	43·0	32·0	11·0	36·9	− 5·9	35·3	33·1	3·8	8·2	1·9	87	64·4	27·0	49·5	0·000	...	0·3	8·8
17	30·168	47·1	34·7	12·4	41·1	− 1·5	39·0	36·4	4·7	10·8	2·1	83	74·3	27·1	49·1	0·000	...	4·5	8·7
18	30·259	47·0	36·5	10·5	41·9	− 0·5	39·8	37·2	4·7	8·8	1·9	85	86·1	27·1	49·0	0·001*	...	6·3	8·7
19	30·304	44·6	35·2	9·4	40·6	− 1·7	38·7	36·3	4·3	7·0	0·3	85	62·5	26·1	48·7	0·000	...	0·1	8·6
20	30·288	45·4	35·0	10·4	39·3	− 2·9	38·3	37·0	2·3	4·1	0·9	92	77·0	25·8	48·4	0·000	...	0·0	8·6
21	30·111	47·4	40·2	7·2	43·0	+ 0·9	41·1	38·8	4·2	8·1	2·9	85	81·1	37·0	48·3	0·000	...	1·3	8·6
22	29·841	46·0	39·6	6·4	41·9	− 0·2	40·2	38·1	3·8	7·4	2·0	87	77·0	36·1	48·1	0·000	...	0·3	8·5
23	29·833	46·0	36·8	9·2	41·3	− 0·7	39·5	37·2	4·1	6·3	2·0	86	52·2	32·7	48·0	0·000	...	0·0	8·5
24	29·939	41·8	32·1	9·7	37·2	− 4·8	35·4	32·9	4·3	9·6	2·0	85	52·0	25·1	48·0	0·000	...	0·0	8·4
25	29·698	40·5	33·0	7·5	36·3	− 5·6	34·1	30·9	5·4	11·0	1·8	81	64·0	27·7	47·9	0·076	...	4·0	8·4
26	29·962	33·0	25·5	7·5	29·4	−12·4	28·6	26·0	3·4	6·1	0·0	87	35·0	16·6	47·6	0·000	...	0·0	8·3
27	29·654	35·9	24·9	11·0	31·4	−10·3	30·0	26·5	4·9	8·9	1·8	81	41·3	14·8	47·4	0·072	...	0·0	8·3
28	29·478	34·9	26·0	8·9	31·2	−10·3	29·6	25·4	5·8	7·3	0·0	77	51·6	19·7	47·0	0·000	...	2·9	8·2
29	29·551	37·0	29·2	7·8	32·8	− 8·4	31·2	27·9	4·9	6·0	0·0	82	48·9	22·4	46·9	0·005	...	1·4	8·2
30	29·210	42·0	33·1	8·9	37·7	− 3·3	35·5	32·5	5·2	8·7	1·4	82	64·0	27·5	46·6	0·063	...	2·2	8·2
Means	29·767	46·0	35·3	10·7	40·5	− 3·0	38·7	36·1	4·5	8·3	1·6	84·3	68·0	27·6	50·0	Sum 1·436	...	2·1	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.

*Rainfall (Column 16). The amount entered on November 18 is derived from dew.

The mean reading of the *Barometer* for the month was 29in·767, being 0in·009 *higher* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 61°·4 on November 2 ; the lowest in the month was 24°·9 on November 27 ; and the range was 36°·5.
The mean of all the highest daily readings in the month was 46°·0, 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 35°·3, being 2°·6 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 10°·7, being 0°·4 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 40°·5, being 3°·0 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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.	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.		
Nov. 1	1·3	0·10	1·1	0·08	Calm : SSW	SSW	3·0	0·15	261	7 : 6 : 6	10 : 10 : 10, r
2	2·2	0·18	2·2	0·18	SW : WSW	SW : SSW	2·1	0·17	302	9, r : 4, sh : 2	4, cu : 4, sh : 10
3	10·0	0·80	9·9	0·79	SSW : WSW	WSW : W	6·6	0·63	477	10, r : 10, r : 10, r, oc.-m.-r	10, slt.-sh : 10, fq.-r : 2
4	7·1	0·57	7·1	0·57	W : WSW	WSW : SW	2·1	0·18	313	0 : 0 : 3, cu.-s	7, fr.-cu : 9, oc.-slt.-m.-r : 1
5	3·5	0·28	3·5	0·28	WSW : SW	W : NW	2·0	0·10	279	4 : 5 : 10, m, fq.-m.-r, sh	10 : 10
6	2·6	0·21	2·6	0·21	NW : W	WNW:SSW:SSE	1·0	0·03	209	2, d : 9, h : 7, h	7, h, d : v.-cl, h : 10, slt.-h
7	1·7	0·13	1·1	0·09	SE : WSW	WSW	2·6	0·13	294	10, r : 10, r : 8, h	9, sh, r : 10, r, sh : 10, f
8	8·2	0·63	7·8	0·60	N	N	6·4	0·58	483	10 : 10, slt.-sh : 10, oc.-slt.-shs,w	10, oc.-slt.-r, w : 10, w : 5, w
9	5·5	0·40	4·4	0·34	N	NNW : NW:WSW	3·5	0·20	321	1,ho.-fr,w: 0 : 0	6, h : 1, m
10	5·8	0·44	5·1	0·39	Calm	N	1·2	0·05	184	9 : 10,r,sn,sl: 10,gt.-glm,m,hl,fq.-sl	10, m, oc.-m.-r : 1 : 10
11	10·1	0·78	10·1	0·78	N : NE	ENE	6·0	0·39	442	6 : 6, w : 10,fq.-r, w	9, w : 5, oc.-m.-r : 1
12	6·8	0·52	6·3	0·48	NE : ENE	ENE : NE	2·3	0·10	294	0, ho.-fr : 0	1, cu : 1 : 3
13	7·2	0·56	5·2	0·40	ENE : NE	NE : Calm	0·6	0·05	230	10 : 10	10 : 5 : 8
14	7·7	0·58	7·3	0·55	Calm	Calm	0·0	0·00	84	4, ho.-fr : 1 : 7, cu.-s	9 : 9, m : 6, m
15	3·7	0·28	2·7	0·20	Calm : S	SSE : SE	0·4	0·02	149	1, ho.-fr : 1, ho.-fr : th.-cl,ho.-fr	2, ci.-s, d : 9 : 10, s, m
16	13·0	0·98	12·1	0·92	Calm : E	E : ENE	1·6	0·12	251	10,m,slt.-ho.-fr: 10 : 9	10 : 1 : 0
17	13·2	0·99	13·2	0·99	ENE : E	ESE : E	5·2	0·34	372	0 : v.-cl : th.-cl	3, ci : 1 : 0, d
18	0·3	0·03	0·0	0·00	ENE : E	E : ENE	4·2	0·30	365	0, slt.-ho.-fr : 0, d : 1, cu.-s,w	3, cu, w : 10, cu : 10
19	4·7	0·35	4·6	0·35	ENE : E	ENE : NE	2·6	0·13	306	10 : 10	9, cu, h : 0 : 5
20	0·0	0·00	0·0	0·00	NE	NE : ENE	0·7	0·05	199	10 : 10, m : 10	10 : 10, m
21	0·0	0·00	0·0	0·00	ENE : E	Calm	0·7	0·03	152	10 : 10 : 9, cu.-s	8 : 10 : 10
22	0·0	0·00	0·0	0·00	Calm : E	Calm : NNE	0·2	0·02	98	10 : 9	10 : 10
23	7·5	0·56	7·1	0·54	Calm : NNE	NNE	1·1	0·08	203	10 : 10, m, oc.-m.-r	10, n : 10 : 8
24	2·6	0·20	2·3	0·18	NNE : N : NNW	NNW : WNW	0·9	0·07	225	1, ho.-fr, m : 1, m : 7,cu.-s, m	9,slt.-f,th.-cl. : 10, m : 10, slt.-m.-r.-sh
25	11·5	0·87	10·7	0·81	WSW : N	N	11·2	0·81	550	v.-cl,m.-r.-shs : 10, slt.-shs,r: 3,n,cu.-s,slt.-sn,w,sh	2,fr.-cu,st.-w,w,slt.-sn : v.-cl, w: 6, w
26	8·8	0·67	8·0	0·60	NNW : NW	WSW	1·4	0·03	183	1, ho.-fr : 0, ho.-fr, m, f	0, f, ho.-fr : 0, f : 1, f, ho.-fr
27	13·3	1·00	13·3	1·00	WSW : W	N : NW	3·1	0·25	389	1, f, ho.-fr: 7 : 9, sn	5, cu : 1, h, w : 1, ho.-fr
28	13·6	0·99	13·6	0·99	WNW: NW:NNW	NNW : NW	3·5	0·28	422	0, hr.-fr : 0, h	2 : 0 : 0
29	0·8	0·06	0·4	0·03	NW : NNW	NW : SW	3·0	0·22	334	0 : 0 : 2, h	6 h, f, : 10, f : 10, sl, r
30	2·8	0·20	1·1	0·08	SW : WSW	WSW : NW	1·5	0·11	318	10, r : 9, m.-r.-sh: 4, slt.-ho.-fr	8 : 10, m, h : 10, m, ho.-fr, sn
Means	5·9	0·45	5·4	0·41	...	...	...	0·19	290		
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 38°·7, being 3°·2 *lower* than
The mean *Temperature of the Dew Point* for the month was 36°·1, being 3°·9 *lower* than
The mean *Degree of Humidity* for the month was 84·3, being 3·0 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·213, being 0in·034 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·5, being 0grs·3 *less* than
The mean *Weight of a Cubic Foot of Air* for the month was 551 grains, being 3 grains *greater* than
} the average for the 65 years, 1841–1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·4.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·237. The maximum daily amount of *Sunshine* was 7·5 hours on November 12.

The highest reading of the *Solar Radiation Thermometer* was 104°·1 on November 4; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·8 on November 27.

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

The *Greatest Pressure of the Wind* in the month was 11·2 lbs. on the square foot on November 25. The mean daily *Horizontal Movement of the Air* for the month was 290 miles; the greatest daily value was 550 miles on November 25; and the least daily value was 84 miles on November 14.

Rain (0in·005 or over) fell on 12 days in the month, amounting to 1in·436, as measured by gauge No. 6 partly sunk below the ground; being 0in·784 *less* than the average fall for the 65 years, 1841–1905.

MONTH and DAY, 1925.	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	29·602	40·4	32·3	8·1	36·6	− 4·3	34·3	31·0	5·6	10·1	2·5	80	66·7	26·2	46·1	0·005	...	2·3	8·1
2	29·918	36·4	29·1	7·3	32·7	− 8·2	31·0	27·5	5·2	8·7	0·0	81	38·8	21·9	46·0	0·000	...	0·0	8·1
3	30·164	34·4	26·8	7·6	30·9	−10·2	30·6	29·9	1·0	5·8	0·0	95	40·5	21·0	45·8	0·000	...	0·0	8·1
4	30·397	31·7	29·0	2·7	30·2	−11·1	30·1	29·9	0·3	1·8	0·0	99	31·9	29·0	45·4	0·000	...	0·0	8·0
5	30·297	35·1	21·4	13·7	28·9	−12·6	27·6	22·8	6·1	8·9	0·0	78	61·0	12·4	45·0	0·000	...	4·8	8·0
6	30·065	42·7	23·5	19·2	32·5	− 9·0	31·2	28·5	4·0	6·0	0·0	85	65·8	10·4	45·0	0·000	...	5·7	8·0
7	29·815	45·4	32·4	13·0	39·1	− 2·2	37·6	35·6	3·5	5·6	1·4	88	59·3	19·0	44·8	0·008	...	2·3	7·9
8	29·517	50·9	44·6	6·3	47·8	+ 6·8	47·0	46·1	1·7	3·5	1·5	94	58·2	40·1	44·7	0·097	...	0·0	7·9
9	29·488	47·6	40·0	7·6	43·0	+ 2·4	40·4	37·3	5·7	9·1	3·9	80	68·0	32·0	44·4	0·000	...	5·2	7·9
10	29·511	48·2	39·8	8·4	43·2	+ 2·8	40·5	37·3	5·9	8·9	3·9	80	62·3	31·4	44·4	0·000	...	2·6	7·9
11	29·625	43·0	35·9	7·1	39·9	− 0·3	37·7	34·8	5·1	10·2	3·0	82	54·1	29·6	44·3	0·000	...	2·2	7·9
12	29·731	41·3	32·3	9·0	37·5	− 2·8	35·6	33·0	4·5	7·5	2·6	84	48·9	23·6	44·3	0·000	...	1·0	7·9
13	29·763	34·6	26·0	8·6	31·2	− 9·3	30·1	27·3	3·9	6·6	0·0	84	34·0	15·0	44·0	0·002	...	0·0	7·8
14	29·731	34·4	28·4	6·0	31·7	− 9·0	31·0	29·4	2·3	8·1	0·0	91	44·6	22·5	44·0	0·000	...	0·0	7·8
15	29·958	31·6	23·7	7·9	29·3	−11·5	28·6	26·3	3·0	3·0	0·0	88	34·0	13·5	44·0	0·000	...	0·0	7·8
16	30·157	36·9	25·5	11·4	32·5	− 8·2	31·3	28·8	3·7	6·6	2·7	86	36·8	14·9	43·7	0·000	...	0·0	7·8
17	30·113	45·8	36·8	9·0	40·9	+ 0·5	38·7	35·9	5·0	7·6	3·9	83	59·6	33·7	43·5	0·000	...	0·0	7·8
18	29·908	42·2	38·3	3·9	40·7	+ 0·7	38·7	36·2	4·5	7·8	3·2	85	44·6	30·8	43·6	0·000	...	0·0	7·8
19	29·356	41·6	33·1	8·5	37·6	− 1·9	36·2	34·3	3·3	6·2	1·8	88	62·0	28·2	43·3	0·023	...	0·1	7·8
20	28·598	41·3	33·1	8·2	38·0	− 1·0	37·7	37·3	0·7	4·7	0·0	97	42·0	32·0	43·4	0·251	...	0·0	7·8
21	28·666	38·9	33·6	5·3	36·9	− 1·8	36·2	35·3	1·6	2·6	1·2	94	43·6	28·9	43·4	0·131	...	0·0	7·8
22	28·648	43·2	33·7	9·5	39·5	+ 1·1	39·1	38·6	0·9	3·3	0·4	97	43·0	29·1	43·3	0·702	...	0·0	7·7
23	29·331	38·7	31·0	7·7	34·7	− 3·5	33·1	30·5	4·2	7·5	2·5	84	45·1	22·0	43·2	0·041	...	0·5	7·8
24	29·553	40·4	33·0	7·4	36·3	− 1·9	33·5	29·4	6·9	8·8	3·6	76	50·2	27·5	43·3	0·000	...	2·0	7·8
25	29·511	36·7	31·9	4·8	34·5	− 3·9	33·8	32·7	1·8	5·4	0·2	93	42·6	26·5	43·0	0·075	...	0·0	7·8
26	29·481	51·8	36·1	15·7	45·7	+ 7·1	44·4	42·9	2·8	4·8	0·7	90	56·3	24·9	43·1	0·054	...	0·9	7·8
27	29·357	52·0	45·4	6·6	49·2	+10·4	47·3	45·2	4·0	5·0	1·2	87	60·3	39·6	43·0	0·148	...	0·0	7·8
28	29·377	53·7	43·4	10·3	47·8	+ 8·9	45·6	43·2	4·6	7·1	2·2	85	51·0	36·3	43·1	0·151	...	0·0	7·8
29	29·234	56·6	50·1	6·5	53·8	+14·8	51·5	49·3	4·5	6·8	2·6	85	55·6	43·9	43·4	0·063	...	0·0	7·8
30	29·091	55·3	46·0	9·3	50·5	+11·6	48·2	45·8	4·7	8·7	2·6	84	51·0	39·4	43·6	0·753	...	0·0	7·8
31	29·469	49·9	41·2	8·7	46·9	+ 8·2	44·1	40·9	6·0	9·2	3·5	80	57·7	37·3	43·8	0·197	...	0·2	7·8
Means	29·595	42·7	34·1	8·6	38·7	− 1·2	37·2	34·9	3·8	6·6	1·6	86·5	50·6	26·9	44·1	Sum 2·701	...	1·0	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.

The mean reading of the *Barometer* for the month was 29in·595, being 0in·190 *lower* than the average for the 65 years, 1841–1905.

TEMPERATURE OF THE AIR.

The highest in the month was 56°·6 on December 29; the lowest in the month was 21°·4 on December 5; and the range was 35°·2.
The mean of all the highest daily readings in the month was 42°·7, being 1°·5 *lower* than the average for the 65 years, 1841–1905.
The mean of all the lowest daily readings in the month was 34°·1, being 0°·9 *lower* than the average for the 65 years, 1841–1905.
The mean of the daily ranges was 8°·6, being 0°·6 *less* than the average for the 65 years, 1841–1905.
The mean for the month was 38°·7, being 1°·2 *lower* than the average for the 65 years, 1841–1905.

MONTH and DAY, 1925.	Record of the Night Sky.				Wind as Deduced from Self-Registering Anemometers.					Clouds and Weather.	
	Polaris.		δ Ursæ Minoris.		Osler's.				Robinson's.		
					General Direction.		Pressure on the Square Foot.			A.M.	P.M.
	Duration.	Fraction of Total Exposure.	Duration.	Fraction of Total Exposure.	A.M.	P.M.	Greatest.	Mean of 24 Hourly Measures.	Horizontal Movement of the Air.		
	hours.		hours.				lbs.	lbs.	miles.		
Dec. 1	3·1	0·22	1·5	0·11	NW : N	NNE : N : NW	3·0	0·20	327	9 : 9, slt.-sh : 2, cu	3, cu : 10, f
2	12·2	0·89	10·3	0·75	WSW : NW	NW : NNW	1·1	0·07	232	10 : 10,m,ho.-fr : 10, f	3, h : 1, h : 0, h, ho.-fr
3	0·0	0·00	0·0	0·00	NNW : N	Calm	1·1	0·04	168	8, ho.-fr : 8 : 10, s, m, ho.-fr	1, h, m, ho.-fr.: f,tk.-f : tk.-f, ho.-fr
4	6·0	0·44	5·8	0·42	Calm	Calm	0·0	0·00	68	tk.-f, ho.-fr : tk.-f, ho.-fr	tk.-f,ho.-fr : tk.-f, ho.-fr : f, ho.-fr
5	13·8	1·00	13·8	1·00	Calm : SE	SE : Calm	0·7	0·03	152	1, f, ho.-fr: 0, ho.-fr : 0, ho.-fr	0 : 0, ho.-fr
6	13·8	1·00	13·8	1·00	Calm : SSE	S	0·4	0·03	185	0, ho.-fr : 0, ho.-fr	0 : 0, ho.-fr
7	3·4	0·24	3·3	0·24	S : SSE	S	2·4	0·24	349	0, ho.-fr : 0, ho.-fr : 3, fr.-cu,s	8 : 1, w : 9, m.-r, r, w
8	6·3	0·46	5·9	0·43	S : SSW	SSW : SW	3·0	0·33	421	10, r : 10,oc.-m.-r : 10,m.-r,sh	10, n : 10, n, m.-r : 10, r
9	12·2	0·89	11·1	0·81	SW : WSW	SW : WSW	2·9	0·26	413	4 : 1 : 0	1, w : 1 : 0, d
10	2·7	0·20	2·0	0·14	WSW	WSW	3·2	0·35	484	0, w : 6, w : 3	2, cu.-s : 9, m.-r.-shs: 9
11	8·0	0·58	6·5	0·48	WSW : W : NW	WNW : W	2·5	0·29	432	v.-cl : 9, m.-r, r : 2, m, h	0, h : 1, h : 3
12	11·3	0·81	9·9	0·71	W : NW	NW : NNW	0·9	0·08	255	8 : 6, m : v.-cl, h, m	9, oc.-m.-r : 10 : 1
13	2·2	0·15	0·6	0·04	NW : WSW	WSW : W : NW	0·4	0·02	181	1 : 8,th.-cl,m,ho.-fr: 10,th.-cl,m,h,ho.-fr,so.-ha	10,h,m,ho.-fr. : 10,fq.-slt.-sn: 8
14	7·3	0·53	4·8	0·34	N	N	2·1	0·13	253	8 : 9, ho.-fr : 8, cu, n, h	9, n : 10, sn.-shs : 1
15	5·7	0·40	2·4	0·17	N	WSW : SSW	2·0	0·07	206	6 : 9 : 10, m	3, m, cu.-s : tk.-h, slt.-f : v.-cl, slt.-f
16	0·0	0·00	0·0	0·00	Calm	W : WSW	0·5	0·03	166	9, m, f : 10, sn.-sh, m : 10, cu, m	10, m, m.-r.-sh. : 10, m, m.-r.-sh : 10, m.-r.-sh
17	3·7	0·26	1·8	0·13	W	W	2·6	0·20	402	10, sh : 10 : 10, th.-cl	10, th.-cl : 9, th.-cl : 9
18	6·3	0·45	4·9	0·35	W	W : WSW	1·5	0·12	341	9 : 10,oc.-slt.-r: 10, m.-r	10, th.-cl : 9 : 6
19	0·0	0·00	0·0	0·00	WSW : SW : Calm	Calm : SE : ESE	1·5	0·07	201	10, m.-r : 7 : 10,th.-cl,so.-ha,prb	10 : 10, oc.-m.-r : 10, m.-r, r
20	0·0	0·00	0·0	0·00	ESE : E	NE : NW : W	1·2	0·11	241	10, r : 10, r, m.-r : 10, m.-r, r, m	10, r, m : 10, oc.-m.-r, m
21	0·7	0·05	0·0	0·00	Calm : NE	N : WSW : SSW	1·1	0·04	189	10 : 10, slt.-m : 10, r	10, n, r : 10, n : 9, h
22	1·8	0·13	0·0	0·00	SE : E : NE	NE : NW	8·2	0·28	286	10, m.-r : 10, r : 10, r	10, r : 9, fq.-r : 10, r, w
23	9·0	0·64	7·5	0·53	NW : W	WSW : SSW	12·6	0·39	347	10,m.-r,r,sl,w: v.-cl, w : 4, th.-cl,h	6, ci, ci.-cu: 5, th.-cl : 9,r,m.-r, sl,w
24	4·3	0·31	2·0	0·14	WSW : W	WNW : WSW	7·0	0·66	489	1, w : 4, st.-w : 6, w	7 : th.-cl, lu.-ha : 10, th.-cl,lu.-ha
25	0·2	0·01	0·0	0·00	Calm : ESE	Calm	0·9	0·04	144	10 : 10, sn : 10	10, n : 10 : 10, m.-r, r
26	0·3	0·02	0·1	0·01	WSW : W	W : SW	3·9	0·30	365	10, r : 10, sh : 9, cu, m, sh	9 : 10, r : 10, r, m.-r
27	9·8	0·70	8·9	0·63	SW : WSW	SW : WSW	3·4	0·38	413	10 : 9, r : 10, th.-cl,so.-ha	10,th.-cl,so.-ha : 10, s, sh, lu.-ha : 6
28	1·3	0·09	0·3	0·02	WSW : SW	SW : WSW	6·1	0·72	546	1 : 1 : 9, m.-r, r	10, r, w : 10, s, sh, w
29	0·0	0·00	0·0	0·00	WSW : SW	SW	12·4	2·00	741	10, w : 10, w : 10, slt.-r,w,st.-w	10, sh, st.-w: 10, oc.-slt.-r, g, st.-w : 10, r,m.-r,st.-w
30	10·7	0·77	10·7	0·77	SW	SW : WSW	10·5	1·49	672	10,r,m.-r,st.-w,w: 10, r, m.-r, w : 10, r, w	10,r,m.-r, w: 3, sh, st.-w : v.-cl, r, st.-w
31	8·3	0·60	7·0	0·50	WSW	WSW : W	18·9	0·99	642	v.-cl,r,by.-r,sq,st.-w,w: 0, w : 8, m.-r,sh	9, n, cu, w, sh : v.-cl, sh, w : 9, w
Means	5·3	0·38	4·4	0·31	...	...	...	0·32	333		
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 37°·2, being 1°·3 *lower* than
The mean *Temperature of the Dew Point* for the month was 34°·9, being 1°·8 *lower* than
The mean *Degree of Humidity* for the month was 86·5, being 2·1 *less* than
The mean *Elastic Force of Vapour* for the month was 0in·203, being 0in·015 *less* than
The mean *Weight of Vapour in a Cubic Foot of Air* for the month was 2grs·4, being 0grs·2 *less* than
The mean *Weight of a Cubit Foot of Air* for the month was 550 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 7·3.
The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·122. The maximum daily amount of *Sunshine* was 5·7 hours on December 6.
The highest reading of the *Solar Radiation Thermometer* was 68°·0 on December 9; and the lowest reading of the *Terrestrial Radiation Thermometer* was 10°·4 on December 6.
The *Proportions of Wind* referred to the cardinal points were N. 4, E. 3, S. 8, W. 12. Four days were calm.
The *Greatest Pressure of the Wind* in the month was 18·9 lbs. on the square foot on December 31. The mean daily *Horizontal Movement of the Air* for the month was 333 miles; the greatest daily value was 741 miles on December 29; and the least daily value was 68 miles on December 4.
Rain (0in·005 or over) fell on 15 days in the month, amounting to 2in·701, as measured by gauge No. 6 partly sunk below the ground; being 0in·874 *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, 1925.	Reading.	Greenwich Civil Time, 1925.	Reading.	Greenwich Civil Time, 1925.	Reading.	Greenwich Civil Time, 1925.	Reading.	Greenwich Civil Time, 1925.	Reading.	Greenwich Civil Time, 1925.	Reading.
January.		January.		April.		April.		September.		September.	
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
1. 7. 30	29·646	2. 13. 45	28·983	14. 9. 5	29·820	16. 9. 30	29·340			1. 17. 50	29·872
3. 18. 25	29·419	4. 1. 35	29·213	17. 13. 0	29·843	18. 17. 0	29·515	2. 11. 35	29·978	3. 8. 50	29·703
6. 23. 0	30·377	9. 4. 0	29·714	21. 10. 25	30·047	25. 18. 0	29·440	4. 22. 35	29·904	5. 20. 0	29·643
10. 21. 30	30·379	14. 5. 30	29·837	27. 12. 35	29·606	28. 12. 20	29·475	7. 10. 20	29·994	10. 4. 0	29·452
16. 10. 5	30·483	17. 14. 0	30·345	29. 8. 0	29·763			14. 2. 0	30·242	18. 0. 10	29·618
19. 23. 40	30·584	23. 3. 0	29·989					18. 15. 0	29·772	19. 16. 30	29·099
26. 2. 20	30·320	28. 2. 0	29·879					20. 9. 40	29·554	21. 4. 0	29·402
28. 9. 55	29·956	28. 16. 30	29·845	May.		May.		21. 22. 40	29·572	23. 0. 40	28·970
29. 5. 0	29·999	29. 19. 30	29·713			1. 3. 10	29·414	25. 9. 10	29·869	26. 3. 0	29·575
30. 18. 10	29·912	31. 17. 40	29·658	2. 21. 20	29·969	5. 2. 30	29·458	28. 2. 0	30·192	29. 4. 10	30·058
				5. 21. 0	29·518	7. 6. 25	29·292				
				13. 9. 35	30·075	16. 17. 30	29·528				
February.		February.		20. 21. 20	29·827	23. 16. 0	29·323	October.		October.	
2. 10. 40	30·353	3. 15. 0	30·208	26. 20. 40	29·660	28. 3. 0	29·114	2. 10. 0	30·286	3. 17. 0	30·098
4. 11. 30	30·352	6. 22. 0	29·643	29. 18. 0	29·643	30. 2. 35	29·542	5. 9. 0	30·279	7. 4. 15	29·925
7. 19. 5	29·844	8. 7. 0	29·431					9. 9. 25	30·355	13. 15. 55	29·528
9. 11. 0	29·705	9. 19. 0	29·486					15. 10. 0	29·954	16. 4. 0	29·819
10. 2. 10	29·765	11. 22. 45	28·917	June.		June.		16. 19. 15	29·944	18. 16. 10	29·690
12. 19. 10	29·325	14. 3. 0	28·761	3. 9. 15	30·157	6. 12. 0	29·790	19. 12. 35	29·838	23. 3. 35	28·581
20. 9. 5	29·775	21. 13. 0	29·652	10. 8. 0	30·257	14. 5. 5	29·856	26. 0. 0	29·617	27. 6. 0	29·307
22. 9. 55	29·769	23. 7. 55	29·269	15. 6. 0	29·978	16. 16. 30	29·795	28. 19. 20	29·840	30. 14. 30	29·527
24. 1. 0	29·442	24. 15. 30	28·964	19. 9. 5	29·995	21. 15. 40	29·678				
25. 7. 20	29·103	26. 20. 5	28·449	23. 9. 30	29·884	24. 17. 0	29·790				
				25. 21. 45	29·881	26. 20. 0	29·765	November.		November.	
				28. 11. 25	30·038					3. 9. 35	29·220
								4. 11. 30	29·772	5. 15. 5	29·589
March.		March.						6. 10. 20	29·819	7. 22. 55	28·726
4. 19. 5	30·300	8. 5. 55	29·503					12. 4. 0	30·296	14. 15. 30	29·917
10. 12. 0	30·235	11. 7. 20	29·946	July.		July.		19. 10. 30	30·332	22. 17. 0	29·791
13. 2. 20	30·321	14. 16. 35	29·900			3. 3. 15	29·431	24. 10. 0	29·998	25. 7. 5	29·523
16. 9. 5	30·415	17. 14. 0	30·232	8. 7. 0	30·052	10. 13. 0	29·922	26. 10. 0	30·020	28. 13. 0	29·413
18. 22. 0	30·350	20. 19. 40	29·766	13. 10. 0	30·144	18. 6. 15	29·536	29. 11. 30	29·627	30. 16. 0	29·159
22. 23. 40	30·053	25. 4. 0	29·622	21. 10. 55	29·874	23. 4. 15	29·618				
26. 11. 0	29·852	27. 5. 30	29·783	24. 0. 0	29·780	27. 16. 40	29·300				
29. 0. 40	30·154			29. 8. 50	29·716	31. 12. 0	29·494	December.		December.	
								5. 0. 0	30·427	8. 22. 0	29·389
								9. 9. 55	29·531	10. 4. 55	29·435
				August.		August.		13. 0. 0	29·810	14. 5. 10	29·692
April.		April.		1. 8. 0	29·696	2. 3. 0	29·564	16. 19. 40	30·202	20. 16. 40	28·387
		1. 4. 35	29·666	3. 8. 20	29·915	5. 5. 0	29·545	21. 23. 45	28·938	22. 20. 0	28·484
1. 23. 0	29·792	3. 1. 0	29·701	7. 22. 0	29·914	9. 6. 5	29·667	23. 16. 0	29·560	24. 5. 0	29·338
3. 21. 50	29·965	6. 4. 25	29·280	9. 22. 10	29·762	10. 15. 35	29·604	24. 20. 10	29·750	26. 7. 0	29·408
8. 10. 0	29·731	9. 17. 35	29·542	15. 8. 30	30·197	22. 4. 0	29·368	26. 16. 30	29·589	27. 19. 0	29·279
11. 9. 0	29·939	13. 18. 0	29·679	30. 9. 55	30·230			28. 10. 0	29·486	30. 14. 50	29·008

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 reading to reduce to sea level.

HIGHEST and LOWEST READINGS of the BAROMETER in each Month for the YEAR 1925.

	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	30·584	30·353	30·415	30·047	30·075	30·257	30·144	30·230	30·242	30·355	30·332	30·427
Lowest	28·983	28·449	29·503	29·280	29·114	29·678	29·300	29·368	28·970	28·581	28·726	28·387
Range	1·601	1·904	0·912	0·767	0·961	0·579	0·844	0·862	1·272	1·774	1·606	2·040

The highest reading in the year was 30in.·584 on Jan. 19. The lowest reading in the year was 28in.·387 on Dec. 20. The range of reading in the year was 2in.·197.

MONTHLY RESULTS of METEOROLOGICAL ELEMENTS for the YEAR 1925.

MONTH, 1925.	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	30·062	54·7	27·0	27·7	46·7	35·9	10·8	41·7	+ 3·1	40·0	37·9	87·0
February	29·498	55·1	28·8	26·3	47·8	36·5	11·3	42·1	+ 2·5	39·8	36·9	82·7
March	29·982	55·3	24·0	31·3	48·0	34·8	13·2	40·9	− 1·0	38·0	34·1	77·2
April	29·679	62·6	28·1	34·5	56·0	37·7	18·3	46·3	− 1·0	42·8	38·9	76·0
May	29·633	80·3	34·1	46·2	65·6	45·4	20·2	54·6	+ 1·5	50·7	46·9	75·7
June	29·950	87·1	41·9	45·2	73·0	49·6	23·4	60·8	+ 1·4	54·4	48·9	65·1
July	29·758	89·5	49·9	39·6	76·1	54·5	21·6	64·1	+ 1·4	58·7	54·3	71·1
August	29·807	83·1	46·7	36·4	71·3	53·4	17·9	61·2	− 0·4	57·6	54·5	79·0
September	29·801	68·4	38·2	30·2	63·1	45·8	17·3	53·8	− 3·4	50·5	47·3	79·1
October	29·763	70·6	33·4	37·2	60·2	44·9	15·3	52·1	+ 2·2	49·8	47·5	84·5
November	29·767	61·4	24·9	36·5	46·0	35·3	10·7	40·5	− 3·0	38·7	36·1	84·3
December	29·595	56·6	21·4	35·2	42·7	34·1	8·6	38·7	− 1·2	37·2	34·9	86·5
		Highest	Lowest	AnnualRange								
Means	29·775	89·5	21·4	68·1	58·0	42·3	15·7	49·7	+ 0·2	46·5	43·2	79·0

MONTH, 1925.	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	h	lbs.	miles.
January	0·228	2·6	555	44·9	7·5	15	1·722	8	2	64	24	84	273	93	19	177	0·40	312
February	0·219	2·5	545	44·3	7·3	18	3·121	24	2	13	30	144	270	118	15	56	0·47	385
March	0·196	2·3	555	43·2	7·4	11	0·604	197	64	10	3	26	156	92	118	78	0·21	320
April	0·237	2·7	543	44·8	7·5	18	1·852	32	73	22	48	100	160	105	41	139	0·27	289
May	0·322	3·6	533	48·7	6·5	16	1·506	12	29	51	41	166	305	34	15	91	0·22	266
June	0·346	3·8	532	53·6	5·6	2	0·119	194	86	67	11	12	50	43	115	142	0·13	221
July	0·422	4·7	525	56·4	6·9	12	3·657	100	54	41	24	45	209	43	55	173	0·14	225
August	0·425	4·7	529	58·4	7·3	14	2·311	52	41	39	26	43	218	132	66	127	0·11	216
September	0·327	3·7	537	56·9	7·0	15	2·023	75	2	0	13	56	167	193	132	82	0·19	283
October	0·329	3·7	538	54·4	7·0	14	2·417	53	72	18	36	54	205	80	28	198	0·18	249
November	0·213	2·5	551	50·0	6·4	12	1·436	107	109	91	25	32	99	91	64	102	0·19	290
December	0·203	2·4	550	44·1	7·3	15	2·701	71	20	19	44	65	190	176	59	100	0·32	333
Sums	...	...	...	...	...	162	23·469	925	554	435	325	827	2302	1200	727	1465	...	...
Means	0·289	3·3	541	50·0	7·0	...	...	...	...	...	...	...	...	...	...	...	0·24	282

The greatest recorded pressure of the wind on the square foot in the year was 23·0 lbs. on January 1.
The greatest recorded daily horizontal movement of the air in the year was 791 miles on April 16.
The least recorded daily horizontal movement of the air in the year was 33 miles on January 11.

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

Hour, Greenwich Civil Time.	1925. 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	30·057	29·516	29·981	29·691	29·629	29·961	29·776	29·807	29·805	29·777	29·788	29·582	29·781
1h	30·051	29·513	29·979	29·686	29·622	29·958	29·771	29·804	29·801	29·772	29·782	29·581	29·777
2	30·052	29·508	29·973	29·681	29·617	29·954	29·765	29·802	29·798	29·766	29·777	29·585	29·773
3	30·052	29·497	29·966	29·677	29·612	29·952	29·760	29·799	29·795	29·758	29·769	29·587	29·769
4	30·051	29·489	29·964	29·674	29·613	29·953	29·755	29·796	29·795	29·756	29·760	29·585	29·766
5	30·051	29·486	29·966	29·676	29·618	29·956	29·757	29·799	29·797	29·757	29·754	29·582	29·767
6	30·054	29·489	29·971	29·682	29·627	29·960	29·760	29·803	29·803	29·758	29·750	29·582	29·770
7	30·060	29·494	29·979	29·687	29·632	29·963	29·763	29·809	29·811	29·763	29·750	29·587	29·775
8	30·068	29·504	29·986	29·689	29·637	29·962	29·763	29·813	29·818	29·770	29·761	29·595	29·781
9	30·076	29·511	29·991	29·691	29·638	29·961	29·761	29·816	29·821	29·774	29·766	29·606	29·784
10	30·085	29·516	29·994	29·690	29·640	29·959	29·761	29·818	29·818	29·774	29·772	29·614	29·787
11	30·086	29·519	29·994	29·686	29·639	29·957	29·758	29·815	29·811	29·773	29·772	29·616	29·786
Noon	30·078	29·512	29·991	29·681	29·638	29·951	29·753	29·810	29·805	29·768	29·768	29·607	29·780
13h	30·065	29·500	29·985	29·677	29·637	29·946	29·752	29·808	29·798	29·959	29·761	29·598	29·774
14	30·057	29·491	29·978	29·672	29·634	29·941	29·749	29·805	29·790	29·753	29·757	29·595	29·768
15	30·052	29·486	29·972	29·664	29·631	29·934	29·746	29·801	29·784	29·749	29·755	29·590	29·764
16	30·052	29·484	29·971	29·662	29·632	29·930	29·741	29·798	29·780	29·748	29·758	29·595	29·763
17	30·054	29·482	29·976	29·663	29·631	29·927	29·739	29·796	29·780	29·751	29·764	29·598	29·763
18	30·059	29·487	29·982	29·666	29·634	29·927	29·741	29·797	29·788	29·760	29·769	29·600	29·768
19	30·062	29·489	29·990	29·672	29·639	29·933	29·749	29·803	29·798	29·764	29·772	29·599	29·772
20	30·064	29·489	29·994	29·683	29·649	29·941	29·756	29·815	29·805	29·766	29·775	29·597	29·778
21	30·065	29·493	29·997	29·685	29·654	29·952	29·766	29·820	29·809	29·768	29·777	29·594	29·782
22	30·066	29·493	29·999	29·686	29·655	29·958	29·770	29·823	29·812	29·769	29·775	29·596	29·783
23	30·067	29·494	29·997	29·685	29·651	29·960	29·771	29·823	29·813	29·767	29·773	29·600	29·783
24	30·064	29·497	29·994	29·682	29·647	29·958	29·767	29·819	29·810	29·764	29·769	29·601	29·781
Means 0h.–23h.	30·062	29·498	29·982	29·679	29·633	29·950	29·758	29·807	29·801	29·763	29·767	29·595	29·775
Means 1h.–24h.	30·062	29·497	29·983	29·679	29·634	29·950	29·758	29·808	29·801	29·763	29·766	29·595	29·775
Number of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Greenwich Civil Time.	1925. January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	40·4	40·3	38·5	42·0	49·2	53·8	58·4	56·4	50·0	49·6	39·1	37·6	46·3
1h	40·1	40·1	38·1	41·5	48·6	52·9	57·5	55·9	49·5	49·0	38·7	37·2	45·8
2	40·1	39·9	37·7	40·9	48·0	52·2	56·6	55·5	48·8	48·4	38·4	37·2	45·3
3	39·7	39·8	37·3	40·5	47·3	51·3	56·2	55·3	48·5	48·0	38·3	37·3	45·0
4	39·3	39·6	37·2	40·3	46·8	50·6	55·8	55·2	48·1	47·9	38·0	37·0	44·7
5	39·1	39·5	37·1	40·4	47·2	51·3	56·5	55·2	47·9	47·8	37·7	37·1	44·7
6	39·5	39·9	37·3	41·1	49·2	53·7	57·9	56·3	48·4	48·1	38·0	37·3	45·6
7	40·0	39·8	37·6	43·3	51·9	57·0	60·5	58·6	50·3	48·5	38·6	37·4	47·0
8	40·2	40·3	39·0	45·8	54·4	60·0	63·1	60·9	52·5	49·9	39·3	37·4	48·6
9	41·0	41·6	40·8	48·3	57·3	62·8	65·7	63·1	55·1	52·0	40·9	37·9	50·5
10	41·9	43·0	42·4	49·9	59·1	65·2	67·9	64·9	57·5	54·1	42·3	38·9	52·3
11	43·0	44·3	43·8	51·2	60·5	67·2	69·7	66·1	58·6	56·3	43·8	40·3	53·7
Noon	44·1	45·1	44·9	52·2	61·4	68·4	70·7	66·8	59·6	57·5	44·5	41·1	54·7
13h	44·8	45·8	45·6	52·7	61·9	69·5	71·9	66·9	59·9	58·3	44·8	41·3	55·3
14	45·2	45·6	45·9	52·8	62·3	70·6	72·4	67·8	60·0	58·3	44·4	41·1	55·5
15	45·0	45·4	45·8	52·4	61·8	70·0	72·0	67·6	59·8	57·7	43·7	40·8	55·2
16	44·0	45·0	45·2	51·9	61·5	69·8	71·9	67·2	58·9	56·7	42·6	40·0	54·6
17	43·3	44·1	44·0	50·5	60·4	68·7	70·7	66·2	58·0	54·9	41·5	39·4	53·5
18	42·7	42·9	42·8	48·9	58·6	66·8	69·1	64·5	56·4	53·5	40·9	39·1	52·2
19	42·4	42·1	41·7	47·0	56·2	64·3	66·9	62·7	54·8	52·5	40·3	38·9	50·8
20	41·9	41·7	40·7	45·7	53·9	61·5	64·2	61·0	53·6	51·6	39·8	38·8	49·5
21	41·4	41·3	39·8	44·6	52·1	59·1	62·5	59·2	52·4	51·0	39·4	38·8	48·5
22	40·9	41·2	39·4	43·6	50·9	57·3	60·9	58·1	51·5	50·3	38·9	38·5	47·6
23	40·6	40·9	38·8	42·7	50·1	55·5	59·8	57·1	50·9	49·7	38·7	38·2	46·9
24	40·4	40·2	38·6	42·0	49·4	54·0	58·6	56·4	50·0	49·3	38·5	38·0	46·3
Means 0h.–23h.	41·7	42·1	40·9	46·3	54·6	60·8	64·1	61·2	53·8	52·1	40·5	38·7	49·7
Means 1h.–24h.	41·7	42·1	40·9	46·3	54·6	60·8	64·1	61·2	53·8	52·1	40·5	38·7	49·7
Number of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Greenwich Civil Time.	1925. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	39·0	38·5	36·6	40·1	47·8	51·0	56·0	54·9	48·3	48·0	37·7	36·3	44·5
1h	38·9	38·3	36·2	39·7	47·1	50·3	55·5	54·5	47·9	47·5	37·4	35·8	44·1
2	38·7	38·2	35·8	39·2	46·7	49·7	55·1	54·2	47·5	47·0	37·0	35·8	43·7
3	38·3	38·1	35·6	38·9	46·1	49·1	54·7	54·3	47·1	46·7	36·8	35·6	43·4
4	37·8	38·0	35·4	38·7	45·7	48·6	54·4	54·1	46·8	46·6	36·6	35·5	43·2
5	37·6	37·8	35·5	38·7	46·1	49·1	54·9	54·0	46·5	46·6	36·4	35·8	43·3
6	37·9	38·1	35·7	39·4	47·7	50·9	55·8	54·8	46·9	46·9	36·7	36·1	43·9
7	38·4	38·2	36·0	41·2	49·6	52·8	57·4	56·3	48·3	47·3	37·4	36·3	44·9
8	38·8	38·7	37·0	43·0	51·1	54·5	58·8	57·8	50·0	48·5	38·1	36·5	46·1
9	39·6	39·6	38·4	44·5	52·6	55·8	59·9	59·0	51·6	50·2	39·4	36·8	47·3
10	40·4	40·5	39·3	45·2	53·7	56·7	60·9	59·9	52·7	51·6	40·2	37·6	48·2
11	41·1	41·3	40·1	45·9	54·3	57·5	61·5	60·4	53·3	52·8	41·2	38·2	49·0
Noon	41·8	41·8	40·4	46·6	54·4	58·2	61·8	60·8	53·8	53·4	41·5	38·9	49·4
13h	42·3	42·0	40·8	46·7	54·7	58·4	62·1	60·8	54·0	53·7	41·5	39·1	49·7
14	42·6	42·0	40·9	46·8	54·6	58·8	62·2	61·2	54·2	53·6	41·1	39·0	49·7
15	42·3	41·9	40·6	46·4	54·5	58·7	62·0	60·7	54·1	53·3	40·7	38·8	49·5
16	41·7	41·7	40·2	46·2	54·2	58·6	62·1	60·6	53·8	52·7	40·1	38·2	49·2
17	41·2	41·3	39·6	45·4	53·5	58·2	61·6	60·1	53·2	51·8	39·5	37·9	48·6
18	40·9	40·6	39·1	44·6	52·5	57·4	60·9	59·4	52·2	51·1	39·1	37·6	47·9
19	40·6	40·0	38·4	43·7	51·4	56·4	59·9	58·7	51·3	50·4	38·7	37·5	47·3
20	40·3	39·7	38·0	42·7	50·4	55·3	59·0	57·9	50·6	49·8	38·3	37·3	46·6
21	40·0	39·5	37·6	41·8	49·5	54·1	58·3	56·8	49·9	49·4	38·1	37·4	46·0
22	39·5	39·4	37·3	41·3	48·9	53·2	57·5	56·0	49·4	48·7	37·7	37·1	45·5
23	39·3	39·1	36·8	40·8	48·5	52·1	56·8	55·5	49·0	48·1	37·3	36·9	45·0
24	39·1	38·5	36·7	40·2	48·0	51·2	56·1	55·1	48·3	47·7	37·2	36·6	44·6
Means 0h–23h	40·0	39·8	38·0	42·8	50·7	54·4	58·7	57·6	50·5	49·8	38·7	37·2	46·5
Means 1h–24h	40·0	39·8	38·0	42·8	50·7	54·4	58·7	57·6	50·5	49·8	38·7	37·2	46·5
Number of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Greenwich Civil Time.	1925. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	37·2	36·2	34·0	37·7	46·3	48·3	53·8	53·5	46·5	46·3	35·9	34·5	42·5
1h	37·3	36·0	33·6	37·4	45·4	47·7	53·7	53·2	46·2	45·8	35·7	33·9	42·5
2	36·9	36·0	33·2	37·1	45·3	47·2	53·7	53·0	46·1	45·5	35·1	33·9	41·9
3	36·5	35·9	33·2	36·9	44·8	46·8	53·3	53·3	45·6	45·3	34·7	33·3	41·6
4	35·9	35·9	32·9	36·7	44·5	46·5	53·1	53·0	45·4	45·2	34·7	33·4	41·4
5	35·6	35·6	33·3	36·5	44·9	46·8	53·5	52·8	45·0	45·3	34·7	34·0	41·5
6	35·8	35·8	33·5	37·3	45·1	48·2	53·9	53·4	45·3	45·6	34·9	34·4	41·9
7	36·3	36·1	33·8	38·7	47·4	48·9	54·7	54·2	46·2	46·0	35·8	34·8	42·7
8	37·0	36·7	34·4	39·8	47·9	49·7	55·2	55·1	47·5	47·0	36·5	35·3	43·5
9	37·8	37·1	35·4	40·3	48·3	49·8	55·1	55·5	48·2	48·4	37·5	35·3	44·1
10	38·5	37·5	35·5	40·2	48·9	49·7	55·4	55·8	48·3	49·1	37·6	35·9	44·4
11	38·8	37·8	35·7	40·4	48·9	49·8	55·2	55·8	48·6	49·6	38·2	35·5	44·5
Noon	39·1	38·0	35·2	40·9	48·3	50·2	55·0	56·1	48·7	49·6	38·0	36·2	44·6
13h	39·4	37·6	35·4	40·7	48·5	49·8	54·7	56·0	48·8	49·6	37·7	36·4	44·6
14	39·6	37·8	35·3	40·8	48·0	49·7	54·6	56·0	49·1	49·4	37·3	36·4	44·5
15	39·2	37·8	34·7	40·3	48·2	50·0	54·5	55·2	49·1	49·3	37·2	36·3	44·3
16	39·0	37·9	34·4	40·4	47·9	50·0	54·7	55·3	49·3	49·0	37·1	35·9	44·2
17	38·7	38·0	34·4	40·1	47·4	50·0	54·6	55·1	48·9	48·8	37·0	35·9	44·1
18	38·8	37·9	34·6	40·0	47·1	49·9	54·5	55·2	48·3	48·7	36·9	35·7	44·0
19	38·4	37·4	34·4	40·0	46·9	49·9	54·3	55·3	47·9	48·3	36·7	35·6	43·8
20	38·3	37·2	34·6	39·3	47·0	50·0	54·6	55·2	47·7	48·0	36·4	35·3	43·6
21	38·2	36·8	34·7	38·5	46·9	49·6	54·7	54·7	47·4	47·7	36·4	35·5	43·4
22	37·8	37·1	34·6	38·6	46·8	49·4	54·6	54·1	47·3	47·0	36·1	35·2	43·2
23	37·7	36·9	34·1	38·6	46·8	48·9	54·2	54·1	47·0	46·4	35·4	35·1	42·9
24	37·4	36·3	34·1	38·0	46·5	48·5	53·8	53·9	46·5	46·0	35·4	34·7	42·6
Means 0h.–23h.	37·8	37·0	34·4	39·0	47·0	49·0	54·4	54·6	47·4	47·5	36·4	35·2	43·3
Means 1h.–24h.	37·8	37·0	34·4	39·1	47·0	49·0	54·4	54·6	47·4	47·5	36·4	35·2	43·3

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.	1925. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
Midnight	89	86	85	86	90	81	85	90	88	89	89	89	87
1h	90	86	84	87	90	83	87	91	89	90	90	88	88
2	89	86	85	86	91	83	90	91	91	90	88	88	88
3	89	86	86	88	92	85	90	93	90	91	88	86	89
4	88	87	85	87	92	87	91	93	91	91	88	87	89
5	88	86	86	87	92	85	89	92	91	92	89	89	89
6	87	86	86	87	90	81	86	90	90	92	89	89	88
7	87	87	86	84	85	74	82	84	86	92	90	90	86
8	89	87	84	80	78	69	76	82	83	90	90	92	83
9	89	85	82	74	72	63	70	77	78	87	88	91	80
10	89	81	77	70	69	57	64	73	72	83	84	90	76
11	85	77	73	67	66	53	59	70	70	78	80	84	72
Noon	82	76	69	66	62	51	58	69	68	75	78	83	70
13h	82	73	68	65	62	50	55	68	66	73	76	83	68
14	81	74	67	65	59	48	53	65	67	72	75	83	67
15	80	75	66	64	61	49	54	64	68	73	77	85	68
16	82	76	66	65	61	49	55	66	71	76	81	86	70
17	83	78	69	68	62	50	57	68	72	79	85	88	72
18	86	83	73	71	66	55	59	72	74	84	86	88	75
19	86	84	76	77	71	59	64	77	77	86	87	89	78
20	88	85	79	79	77	66	71	81	80	88	88	88	81
21	89	85	82	79	82	71	76	86	83	89	90	89	83
22	89	86	83	82	87	75	80	86	86	89	91	88	85
23	90	86	85	86	89	79	83	89	87	88	89	89	87
24	90	87	85	86	90	81	84	91	88	89	89	88	87
Means. 0h.–23h.	87	83	78	77	76	67	72	78	80	85	86	88	80
Means. 1h.–24h.	87	83	78	77	76	67	72	78	80	85	86	88	80

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 1925.

Month, 1925.	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	...	...	...	...	0·5	3·9	7·4	7·6	7·2	5·4	2·1	0·3	...	...	...	...	34·4	259·1	0·133	18
February	...	...	...	2·0	6·8	8·1	7·8	7·4	10·3	7·4	4·8	2·3	0·6	...	...	...	57·5	277·6	0·207	26
March	...	...	0·2	2·1	6·2	7·3	7·0	8·1	8·8	7·6	7·5	5·5	1·9	...	...	...	62·2	366·2	0·170	37
April	...	1·0	5·3	9·4	9·7	9·2	7·2	8·0	9·0	8·4	7·2	8·3	5·2	3·2	0·2	...	91·3	414·0	0·221	48
May	1·2	6·1	11·6	15·0	16·8	17·8	14·5	13·8	12·6	14·4	14·2	13·8	15·0	11·4	2·5	0·1	180·8	481·7	0·375	57
June	2·9	15·9	18·4	18·3	19·9	19·9	19·5	19·6	17·8	18·5	18·5	19·8	17·3	14·8	9·2	0·4	250·7	494·4	0·507	62
July	1·0	6·1	11·2	12·8	14·5	15·1	16·4	14·8	14·7	14·8	11·5	14·4	14·4	15·4	9·6	0·5	187·2	497·4	0·376	60
August	0·3	5·1	8·2	10·6	12·1	13·2	14·2	12·3	11·0	12·4	9·7	12·4	13·4	9·8	3·4	...	148·1	450·1	0·329	52
September ...	...	...	4·9	8·0	11·1	15·1	13·6	12·8	12·4	12·2	10·8	10·3	9·2	4·2	...	...	124·6	378·3	0·329	41
October.....	...	...	...	2·0	7·2	9·4	12·8	13·6	11·9	11·2	10·5	8·7	3·8	...	...	...	91·1	319·8	0·286	30
November.....	...	...	...	...	5·3	10·0	12·3	11·7	9·3	7·7	4·7	1·8	...	...	...	...	62·8	265·4	0·237	20
December ...	...	...	...	...	0·4	2·5	5·3	7·3	6·7	5·1	2·2	0·3	...	...	...	...	29·8	243·8	0·122	16
For the Year	5·4	34·2	59·8	80·2	110.5	131.5	138.0	137.0	131.7	125.1	103.7	97·9	80·8	58·8	24·9	1·0	1320·5	4447·8	0·297	...

The hours are reckoned from "apparent" midnight.

READINGS of THERMOMETERS on the ORDINARY STAND in the MAGNETIC PAVILION ENCLOSURE in the YEAR 1925.

(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	50·0	37·7	43·8	48·7	49·9	48·7	41·6	45·8	45·8	46·4
2	54·7	42·8	49·3	51·9	54·7	50·3	48·3	50·3	52·9	47·2
3	51·4	42·8	50·4	51·2	48·3	43·0	47·0	44·7	45·2	42·6
4	53·4	42·7	47·1	49·1	47·8	43·1	41·8	43·3	43·5	40·0
5	46·9	38·6	40·0	45·2	45·5	40·2	38·4	41·8	42·2	38·4
6	42·5	34·1	35·3	41·0	40·9	34·3	34·2	36·5	36·0	33·0
7	42·4	32·9	39·7	42·0	42·4	42·2	37·2	39·2	39·8	39·6
8	45·0	37·3	41·4	44·1	43·6	42·6	38·0	39·5	38·9	39·2
9	47·0	36·2	45·1	46·6	45·2	36·2	41·5	42·4	40·1	35·6
10	43·7	28·1	30·8	42·2	43·6	33·5	30·3	39·8	41·0	33·4
11	34·2	27·0	29·7	30·7	34·0	30·0	29·7	30·5	32·4	30·0
12	33·7	27·3	30·5	32·6	31·9	30·0	30·2	31·8	31·9	30·0
13	46·9	28·1	40·2	46·5	44·3	39·8	39·7	44·6	42·8	39·4
14	50·8	39·1	46·6	47·9	49·2	50·7	44·8	47·2	48·4	50·0
15	54·0	35·1	53·3	45·9	46·3	35·3	52·3	45·6	44·0	35·0
16	49·6	31·2	36·4	42·9	48·4	49·5	36·4	42·9	47·8	49·3
17	52·0	44·2	49·2	50·2	50·6	45·7	48·3	48·2	46·5	44·8
18	47·6	38·2	39·6	45·1	47·4	39·2	39·6	43·9	44·6	38·8
19	43·8	34·3	35·7	41·0	43·7	40·4	35·7	40·9	42·7	40·4
20	40·4	34·5	37·2	39·0	39·8	37·6	37·0	38·4	38·8	36·7
21	38·7	35·4	35·7	37·2	38·0	36·0	34·9	36·0	36·7	35·3
22	51·3	33·7	36·6	45·7	49·2	42·8	36·2	43·0	44·1	40·8
23	50·1	40·6	42·9	47·6	47·0	43·0	41·0	43·1	42·1	40·9
24	47·2	37·1	39·6	45·2	46·1	37·4	38·2	41·8	42·0	37·0
25	42·2	34·1	36·4	38·7	41·5	40·4	36·2	38·2	40·1	39·4
26	40·5	37·1	39·3	39·0	37·7	38·4	37·4	37·1	36·0	36·5
27	40·4	35·2	37·3	38·5	38·8	40·4	36·7	37·8	38·5	39·6
28	47·2	38·1	39·0	41·9	44·7	44·6	38·7	40·7	42·8	43·6
29	52·8	35·4	41·7	44·8	50·2	52·8	38·8	43·7	47·9	49·8
30	54·1	47·3	50·5	52·4	53·6	51·4	48·8	48·9	48·3	46·7
31	54·3	42·4	50·7	53·3	52·2	42·5	48·0	49·5	47·4	40·7
Means	46·7	36·4	41·0	44·1	45·0	41·4	39·6	41·8	42·3	40·0

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	46·1	36·1	37·9	42·6	45·7	41·0	34·8	38·4	40·4	38·3
2	47·9	33·9	37·5	45·6	47·2	41·8	35·9	40·8	42·7	39·8
3	54·0	41·5	47·3	52·2	52·9	50·0	46·7	50·1	49·8	47·7
4	52·9	43·3	46·4	49·6	52·5	43·3	43·1	43·2	46·4	42·5
5	54·2	43·3	50·1	51·5	51·0	49·4	47·2	47·8	47·0	47·3
6	50·2	39·5	43·4	44·7	45·7	39·8	42·8	42·9	41·4	37·8
7	44·3	33·1	35·7	41·8	42·3	33·2	33·6	37·8	37·7	31·6
8	54·3	33·2	49·4	53·5	52·9	50·8	48·2	50·8	50·1	48·3
9	53·5	48·5	49·5	52·4	52·8	49·8	44·8	46·2	46·9	44·2
10	55·1	41·3	49·6	52·6	51·6	50·5	46·6	49·4	49·5	47·0
11	52·5	48·1	49·3	50·1	52·1	51·3	46·8	47·8	47·8	46·1
12	51·3	35·2	38·5	40·9	44·6	40·7	36·8	39·3	40·6	39·0
13	46·7	38·8	45·9	44·7	43·4	41·3	44·8	43·2	42·6	41·0
14	45·6	35·2	36·8	41·8	44·2	37·5	36·0	39·8	40·8	36·7
15	46·7	35·0	38·9	45·9	43·3	35·0	38·3	43·2	41·6	35·0
16	48·4	33·1	37·8	45·6	45·7	38·4	37·5	41·9	41·7	37·5
17	45·8	35·4	36·2	40·0	43·5	37·7	35·8	38·2	40·9	34·9
18	46·9	34·6	39·6	44·2	45·0	38·2	37·1	40·8	40·7	36·9
19	41·4	34·9	36·5	38·9	39·6	37·3	35·6	35·6	36·4	35·6
20	45·6	35·8	37·0	42·6	41·7	37·2	35·8	38·3	37·1	35·5
21	42·9	32·3	35·7	40·6	38·8	33·3	33·4	37·0	35·7	31·7
22	40·1	28·8	33·0	35·7	38·6	33·0	31·5	32·8	35·4	31·8
23	38·9	32·5	38·8	36·6	36·2	36·2	36·2	35·8	35·6	35·8
24	42·7	29·0	40·0	42·4	37·9	36·8	36·6	39·7	37·2	36·5
25	46·0	35·2	41·9	44·6	41·3	44·9	39·8	41·5	40·2	41·8
26	48·9	40·4	46·4	42·2	44·6	42·7	42·4	40·4	41·6	40·9
27	50·2	39·6	41·8	47·8	46·5	43·4	39·4	43·5	42·3	40·3
28	54·2	40·9	45·1	50·5	49·6	41·1	41·7	43·6	42·9	39·8
Means	48·1	37·1	41·6	45·1	45·4	41·3	39·6	41·8	41·9	39·3

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	50·2	35·5	42·6	45·6	46·5	40·5	42·3	43·8	43·2	40·1
2	47·0	38·9	42·6	46·5	44·8	41·8	41·5	43·8	42·3	39·8
3	46·1	38·2	40·8	43·7	43·3	40·5	38·8	40·4	39·1	37·5
4	44·0	37·6	39·7	42·2	43·6	39·1	35·7	38·2	38·8	37·4
5	49·6	38·8	42·2	47·0	48·0	43·8	40·3	41·8	42·8	41·0
6	50·1	42·1	46·3	49·1	49·5	47·8	43·3	45·7	46·1	46·1
7	54·2	45·1	48·6	51·9	52·3	45·4	46·0	46·1	45·0	41·0
8	45·6	31·0	41·0	43·4	42·1	34·4	35·7	36·1	37·8	32·1
9	42·9	29·9	34·7	41·2	42·5	32·4	32·8	34·9	35·4	31·6
10	44·1	32·2	36·7	42·2	42·6	38·4	33·1	36·0	34·8	34·0
11	44·0	34·0	36·8	38·3	39·2	34·6	35·8	36·3	35·3	33·0
12	39·3	31·3	34·6	37·6	37·6	31·4	32·0	31·8	32·0	29·9
13	43·1	24·0	31·4	40·7	40·9	38·9	30·4	33·8	35·4	37·0
14	53·0	38·5	45·2	50·1	48·6	46·1	43·5	45·5	44·4	44·7
15	51·7	39·2	46·5	49·6	50·4	39·2	45·2	44·7	44·9	37·7
16	55·3	35·4	45·9	52·0	53·7	47·5	42·1	46·0	47·3	45·1
17	54·6	44·2	47·6	50·8	49·6	44·9	44·6	45·9	45·4	42·6
18	50·4	33·3	40·5	46·4	49·6	33·5	37·6	41·0	43·2	32·5
19	50·3	26·9	40·3	43·6	49·6	46·3	37·6	40·4	44·4	41·6
20	47·4	37·4	44·3	47·0	46·6	37·4	41·5	42·8	42·0	36·6
21	43·1	32·1	34·9	38·1	39·9	33·2	34·0	34·8	35·3	31·3
22	45·2	31·1	33·7	42·4	42·6	34·4	31·7	38·6	38·6	33·1
23	45·2	27·3	33·6	40·4	45·2	38·9	31·6	35·4	38·8	35·0
24	51·0	34·9	42·2	46·0	47·5	39·6	41·4	41·2	40·5	38·2
25	48·9	32·2	38·2	43·6	43·7	37·0	36·8	39·8	37·9	35·8
26	47·7	34·2	40·3	43·5	46·2	39·1	38·6	39·4	40·1	36·8
27	44·1	37·4	39·9	42·2	43·5	37·9	37·7	37·6	38·7	34·8
28	50·4	34·3	41·1	46·3	44·4	36·6	38·7	42·6	39·8	33·9
29	49·1	31·7	38·6	44·3	48·3	46·4	35·2	39·8	42·9	42·7
30	49·7	42·9	44·6	47·1	48·4	44·6	40·4	42·6	43·7	42·1
31	51·3	41·2	48·6	49·3	48·5	41·6	45·5	44·2	43·8	39·7
Means	48·0	35·3	40·8	44·9	45·8	39·8	38·4	40·4	40·6	37·6

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	52·5	38·0	43·8	44·7	50·2	38·0	42·8	42·2	42·5	36·0
2	55·6	32·4	46·5	49·0	53·6	45·5	44·8	47·8	49·0	44·8
3	50·0	36·3	41·8	45·8	49·9	36·3	38·4	39·4	40·7	33·6
4	49·3	28·1	41·2	46·2	45·6	37·1	37·4	40·9	40·1	36·1
5	55·6	37·1	47·3	53·7	50·8	48·0	42·8	46·8	45·5	45·1
6	59·2	46·8	48·3	50·4	56·9	47·6	47·4	49·7	50·8	46·0
7	55·0	38·1	44·8	53·6	53·6	48·1	44·8	49·6	49·8	45·8
8	56·6	41·5	51·5	53·5	54·8	50·4	47·4	49·9	49·8	46·1
9	61·2	38·8	54·1	60·6	56·8	49·7	49·0	50·2	48·5	45·7
10	57·6	44·8	46·8	50·8	55·7	48·4	45·9	46·7	48·6	45·8
11	62·6	35·4	52·1	59·5	59·0	47·5	48·0	51·1	50·8	44·7
12	61·4	35·3	50·2	58·6	59·5	49·0	47·3	50·1	49·9	44·3
13	59·8	37·1	54·9	57·7	50·3	48·1	48·2	49·3	49·2	42·7
14	56·6	37·6	48·6	51·8	51·7	46·6	44·3	44·1	44·9	46·0
15	56·0	42·6	51·0	52·7	51·6	42·6	44·8	45·0	45·2	39·9
16	52·8	39·1	47·6	51·0	51·4	46·6	41·4	44·7	46·3	44·0
17	57·1	43·3	49·3	51·5	54·0	46·4	44·1	44·9	46·2	41·4
18	53·5	41·7	47·4	50·0	51·5	48·3	46·6	48·2	49·1	46·2
19	58·8	41·9	55·4	53·7	47·0	43·3	49·8	49·7	45·0	40·4
20	50·6	41·3	46·5	48·1	49·8	42·2	41·7	42·4	42·3	38·1
21	57·0	38·5	45·5	53·5	54·6	38·5	41·0	45·9	47·3	37·6
22	61·1	30·8	50·4	58·5	57·2	46·1	43·4	50·2	48·6	39·8
23	54·3	42·8	46·6	48·3	50·5	43·4	45·8	44·1	44·5	38·7
24	53·7	36·2	46·9	50·9	51·4	43·3	42·3	45·2	45·6	40·4
25	58·9	33·0	48·4	55·0	49·6	48·1	42·8	47·0	44·2	43·4
26	55·4	38·4	48·6	52·8	52·7	41·0	43·9	46·6	46·1	39·0
27	49·5	38·1	45·6	45·5	45·7	42·1	43·0	42·7	42·8	40·8
28	53·0	40·3	48·1	52·7	46·6	42·6	44·8	47·7	44·7	41·6
29	58·9	37·2	47·4	50·6	56·0	41·1	43·4	45·9	47·1	40·3
30	57·9	37·1	51·2	56·2	52·7	42·3	46·6	48·8	45·4	40·9
Means	56·1	38·3	48·3	52·2	52·4	44·6	44·5	46·6	46·3	41·8

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).

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
MAY.										
d	°	°	°	°	°	°	°	°	°	°
1	50·8	37·1	41·2	47·2	49·2	42·8	38·7	43·4	45·4	40·1
2	59·1	34·1	48·2	51·6	55·0	49·3	44·9	45·4	47·8	44·8
3	60·2	39·8	54·6	57·8	51·6	46·3	48·8	48·8	47·8	45·6
4	60·2	45·8	55·6	54·1	57·6	51·7	51·8	50·8	52·8	50·7
5	56·5	44·2	51·4	53·2	54·2	44·2	47·2	48·7	49·0	42·5
6	58·9	39·5	48·7	54·6	54·9	46·5	45·7	48·4	48·2	44·0
7	58·1	43·9	53·1	54·6	55·0	45·4	49·8	49·3	49·2	44·0
8	57·5	43·1	48·5	53·6	51·6	46·5	46·9	50·4	49·8	45·3
9	61·2	42·3	54·4	58·7	52·4	47·1	49·9	51·9	47·6	44·7
10	60·5	39·5	54·5	55·2	56·7	49·6	49·5	49·8	50·6	46·7
11	63·0	39·1	56·6	59·7	59·6	51·7	51·9	53·0	53·1	49·9
12	69·9	50·2	58·3	63·6	67·0	53·3	53·8	56·0	57·6	48·8
13	74·5	44·4	60·6	67·9	69·8	56·9	56·6	60·1	60·9	55·4
14	72·2	48·0	63·5	68·7	69·6	52·3	57·7	60·0	60·7	50·9
15	67·9	44·7	59·8	66·3	65·7	50·6	55·2	58·4	57·4	50·6
16	80·3	50·1	63·7	78·5	78·4	61·3	60·4	68·8	67·7	58·1
17	75·1	48·9	62·5	71·9	73·4	62·4	57·6	62·6	62·8	57·4
18	73·7	53·2	68·5	70·5	69·7	63·2	62·4	63·7	62·2	61·4
19	71·4	51·9	62·5	68·7	67·7	54·1	60·3	62·8	62·6	52·6
20	68·5	51·2	53·1	62·3	65·7	53·4	50·1	54·8	54·8	47·8
21	68·6	43·0	59·6	60·6	64·4	51·1	52·1	52·6	52·9	47·6
22	71·0	45·7	65·4	67·8	67·8	55·6	57·7	57·8	55·0	50·7
23	68·6	53·9	65·9	65·4	66·4	57·6	60·4	59·8	60·6	52·8
24	64·8	50·7	60·5	58·4	56·9	52·3	54·3	50·6	51·1	50·4
25	67·7	50·8	56·6	62·3	61·7	50·8	52·6	54·1	54·2	49·2
26	70·7	43·5	61·9	64·1	64·1	57·7	56·2	56·8	54·8	52·9
27	59·1	51·0	55·9	57·6	57·5	53·6	54·3	56·0	56·0	52·4
28	65·4	49·1	57·4	60·5	63·6	49·9	49·8	50·7	54·3	47·5
29	62·8	46·6	56·3	58·4	58·3	53·8	50·1	52·4	51·4	50·2
30	68·4	52·5	60·4	66·0	64·7	53·1	53·0	55·4	55·6	49·7
31	67·4	48·0	57·9	63·6	64·2	50·9	51·1	52·5	54·8	50·0
Means	65·6	46·0	57·3	61·4	61·8	52·1	52·6	54·4	54·5	49·5
JUNE.										
d	°	°	°	°	°	°	°	°	°	°
1	67·0	44·6	56·6	60·2	62·2	53·7	50·7	51·9	53·3	50·5
2	66·6	43·2	58·2	62·5	63·8	55·7	52·0	52·1	53·7	49·1
3	72·6	42·1	62·2	67·1	69·7	57·6	52·7	54·7	55·8	51·2
4	77·2	47·3	66·3	74·6	75·2	57·0	57·1	60·4	60·8	51·7
5	77·0	45·3	69·1	75·6	74·3	60·3	62·2	62·7	62·3	57·6
6	83·7	54·1	72·5	81·2	77·9	67·3	64·9	68·0	68·3	61·4
7	77·4	53·9	67·8	75·8	75·7	58·6	61·0	65·7	66·6	56·5
8	78·1	50·7	60·3	73·7	76·2	63·5	56·7	63·6	64·8	56·5
9	81·9	52·3	67·8	80·6	80·0	65·5	60·9	63·4	61·8	59·3
10	81·5	54·5	73·8	79·4	80·2	64·2	62·3	64·7	64·4	55·0
11	87·1	49·9	74·3	83·6	86·1	67·4	63·3	65·6	67·3	62·0
12	82·0	54·3	70·5	78·7	81·3	62·3	64·8	68·4	68·9	59·0
13	76·0	56·1	66·5	72·9	75·4	65·6	59·0	62·9	64·4	56·8
14	72·2	57·5	61·6	61·3	67·8	59·6	57·1	57·4	59·0	53·2
15	83·9	51·2	71·8	77·9	80·7	68·6	61·8	65·1	67·5	63·3
16	82·6	58·1	73·7	76·1	76·5	65·2	62·9	64·7	64·6	58·4
17	69·9	55·5	57·9	63·7	67·2	55·6	53·1	53·3	55·3	52·2
18	67·5	49·8	57·5	64·1	63·9	54·5	49·5	52·3	52·1	48·2
19	73·9	41·9	62·1	67·8	71·0	62·8	52·8	54·3	53·8	54·7
20	76·0	54·4	62·9	69·6	69·7	62·8	55·6	59·8	59·8	56·7
21	70·5	53·6	58·0	61·6	67·4	56·2	52·9	55·1	54·7	49·8
22	59·2	51·8	52·5	54·9	56·6	54·6	47·6	49·1	50·6	51·8
23	63·0	51·9	52·8	55·0	59·6	53·7	48·9	49·8	51·4	49·4
24	54·1	49·8	52·2	51·7	52·5	52·1	49·8	50·9	50·8	50·8
25	66·8	48·1	50·8	60·9	62·4	51·9	45·9	52·3	52·9	48·0
26	60·3	50·5	56·6	57·4	57·6	52·9	51·1	51·8	51·9	51·7
27	61·7	48·1	52·4	54·9	56·2	51·7	48·6	49·4	50·1	48·7
28	67·5	48·1	57·1	62·2	64·3	51·7	51·3	53·8	55·4	49·8
29	77·0	42·8	68·6	73·9	73·6	59·6	58·0	60·6	59·1	54·4
30	76·8	46·3	70·6	74·3	75·6	59·3	59·9	61·0	60·9	55·9
Means	73·0	50·3	62·8	68·4	70·0	59·1	55·8	58·2	58·7	54·1

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
JULY.										
d	°	°	°	°	°	°	°	°	°	°
1	80·7	50·3	69·4	73·3	77·1	60·8	61·7	62·7	62·8	58·3
2	81·8	52·0	74·5	79·3	73·9	62·3	64·2	63·9	61·9	59·3
3	73·1	57·4	66·1	66·9	71·3	65·2	62·8	63·6	64·8	62·6
4	68·8	57·2	61·7	63·7	67·5	62·2	58·4	59·1	60·8	57·6
5	71·8	56·4	58·2	61·1	69·0	61·4	56·1	57·7	60·6	58·5
6	81·5	55·2	71·2	78·5	78·7	62·6	61·1	63·4	64·0	59·8
7	70·9	57·1	58·9	67·3	67·5	59·6	58·6	61·1	58·2	52·8
8	68·7	50·2	61·2	65·4	64·1	59·4	51·2	53·1	54·2	51·9
9	69·4	51·2	65·4	65·8	64·6	57·3	57·2	56·2	55·9	53·4
10	69·7	51·0	60·6	63·7	66·6	62·5	56·1	59·9	61·2	56·8
11	80·3	53·1	64·7	75·2	77·6	70·4	56·8	61·2	64·5	62·1
12	84·6	55·2	74·6	83·2	78·4	64·9	65·1	66·8	67·3	60·4
13	75·1	54·6	68·2	71·8	74·2	58·1	61·4	62·5	63·4	56·7
14	86·1	49·9	72·4	82·7	82·6	66·3	63·6	66·2	65·3	59·5
15	87·8	52·3	73·6	81·8	84·6	72·0	63·0	66·2	65·3	63·0
16	84·8	56·2	75·1	80·0	79·5	68·6	64·3	63·8	64·6	61·9
17	80·0	60·7	70·8	75·8	76·4	63·5	61·3	63·3	64·6	60·2
18	77·0	57·1	62·7	69·5	74·8	58·9	58·7	61·0	60·1	53·7
19	74·3	52·0	59·6	70·6	72·8	62·8	55·2	59·6	59·4	55·5
20	75·0	56·4	64·4	66·5	71·6	63·4	59·3	61·9	64·6	62·0
21	82·9	61·1	65·5	75·6	81·6	67·6	64·5	69·5	69·0	64·9
22	89·5	63·4	76·7	86·1	83·6	65·9	70·8	71·1	72·9	65·4
23	70·9	61·3	65·2	68·4	66·2	63·7	62·9	63·3	62·6	62·0
24	79·9	56·2	70·9	77·6	72·9	64·8	63·0	66·4	64·6	63·1
25	84·9	61·1	66·0	76·2	77·9	69·3	62·4	67·6	66·8	66·0
26	71·3	54·4	59·1	66·2	67·2	54·6	56·1	61·4	54·6	49·6
27	66·5	51·1	57·6	56·4	55·5	52·9	55·8	54·1	53·9	51·1
28	67·3	52·7	60·7	59·0	63·6	57·1	55·9	54·8	56·1	50·8
29	65·9	50·9	62·5	61·0	63·5	61 2	57·2	59·0	60·7	58·7
30	70·1	56·2	63·0	65·5	66·5	56·6	57·6	58·6	58·4	53·8
31	67·0	50·0	56·6	58·4	60·8	60·4	56·1	57·4	58·7	57·4
Means	76·1	55·0	65·7	70·7	72·0	62·5	59·9	61·8	62·0	58·3
AUGUST.										
d	°	°	°	°	°	°	°	°	°	°
1	70·2	53·9	62·7	59·6	63·4	56·6	57·0	57·2	58·0	52·7
2	68·7	51·3	58·0	64·6	64·9	55·9	53·5	55·9	55·0	51·4
3	72·1	48·1	63·6	66·7	67·9	58·0	57·0	58·7	57·9	54·2
4	66·0	52·0	61·1	61·8	62·8	56·5	57·4	57·8	58·8	56·1
5	73·1	55·1	59·1	67·0	70·6	60·9	58·5	62·8	63·3	57·0
6	69·0	54·1	67·3	64·8	66·1	59·8	61·3	62·1	62·1	57·9
7	74·4	54·3	61·5	68·5	71·8	57·4	55·0	60·6	61·5	54·8
8	74·3	52·7	67·9	70·6	69·4	61·6	62·2	63·3	63·7	59·8
9	76·4	59·7	71·6	71·8	72·7	61·3	65·0	64·8	65·4	60·3
10	69·0	58·3	63·6	65·3	63·6	59·7	61·5	62·5	62·2	59·0
11	72·0	53·8	61·6	68·1	67·6	55·3	57·8	60·5	59·3	53·8
12	65·3	50·2	62·6	63·1	62·5	60·2	57·7	58·1	58·9	58·0
13	70·0	57·3	61·6	66·6	67·8	60·2	60·4	62·9	64·3	60·0
14	76·2	57·0	65·7	68·8	70·8	61·4	62·4	62·4	63·0	59·9
15	69·3	53·7	60·9	64·0	68·0	54·5	54·9	56·0	57·9	53·0
16	77·8	48·9	66·7	73·7	77·1	58·5	58·6	63·4	59·7	55·5
17	83·1	49·4	71·5	78·2	80·2	62·6	64·6	65·9	66·8	60·8
18	68·8	57·1	63·6	67·2	64·6	60·4	61·0	62·0	60·8	57·8
19	61·4	57·0	59·8	58·5	60·0	59·8	57·1	58·0	58·3	57·3
20	68·4	56·2	62·5	65·2	67·5	61·4	57·3	58·8	59·8	58·1
21	70·3	56·2	62·5	66·5	66·6	56·2	60·8	64·2	58·8	55·3
22	70·4	52·7	63·4	68·9	58·3	54·8	58·1	61·0	57·3	54·4
23	71·1	50·1	60·2	70·4	63·5	57·7	58·4	62·2	58·8	57·3
24	64·3	46·6	59·4	60·6	61·6	58·5	58·7	58·8	58·9	57·0
25	62·2	55·4	58·6	59·6	58·6	57·6	55·5	55·6	55·4	54·8
26	71·1	46·7	62·5	66·9	65·6	59·5	57·8	56·9	59·8	58·6
27	74·2	59·1	62·7	65·2	69·6	61·2	61·9	63·0	60·8	56·7
28	75·0	55·2	63·0	71·0	72·6	61·9	58·8	62·4	63·0	59·7
29	75·3	58·5	65·5	70·6	72·7	58·5	61·4	62·4	62·6	52·5
30	70·8	49·4	60·4	63·1	69·4	61·6	54·9	55·2	59·4	56·8
31	80·6	56·6	66·2	74·6	78·8	65·5	63·4	68·4	69·2	61·4
Means	71·3	54·1	63·1	66·8	67·6	59·2	59·0	60·8	60·7	56·8

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.)

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
SEPTEMBER.										
d	°	°	°	°	°	°	°	°	°	°
1	68·4	55·8	64·9	66·7	65·4	56·2	62·0	63·0	63·3	51·8
2	65·9	50·3	58·3	61·8	62·5	57·5	51·9	53·2	52·8	51·4
3	64·4	53·1	55·5	57·5	62·0	53·6	51·4	53·1	51·3	47·8
4	60·5	44·4	50·8	54·7	59·6	46·6	46·7	47·9	51·6	41·8
5	60·7	40·5	51·4	58·4	53·4	53·2	46·4	49·9	51·1	52·4
6	61·0	46·7	51·6	59·2	58·4	54·1	48·8	52·5	50·7	48·9
7	61·0	42·8	53·2	57·1	59·0	54·0	49·7	51·0	51·8	49·6
8	64·5	50·1	55·8	60·5	59·6	52·6	53·5	53·7	53·9	51·0
9	59·3	48·1	54·3	58·0	58·5	50·5	52·7	55·9	55·7	48·3
10	59·0	43·9	50·0	54·9	56·6	52·2	45·8	50·0	50·3	47·4
11	63·0	49·1	53·6	61·6	58·8	51·9	51·4	54·6	52·8	49·8
12	61·1	43·0	52·3	56·7	58·6	51·0	48·2	50·1	51·0	48·3
13	62·2	43·1	49·2	57·7	60·7	45·5	48·0	51·7	52·8	45·3
14	67·5	39·1	56·5	65·1	64·1	45·2	52·2	56·7	56·4	44·8
15	65·9	40·1	60·6	64·5	64·6	53·6	54·4	53·6	53 4	50·1
16	67·4	52·2	59·5	61·6	59·9	55·3	55·4	58·2	59·7	53·1
17	66·6	48·1	58·8	63·4	62·6	56·0	54·7	55·1	55·0	55·0
18	66·3	47·7	58·2	63·1	63·1	47·7	54·0	54·0	53·1	46·6
19	64·7	43·6	52·7	58·3	60·8	51·4	51·7	56·1	59·5	48·6
20	62·2	50·2	58·0	59·2	55·2	52·8	52·8	54·8	53·6	51·5
21	62·4	45·3	56·9	56·8	58·7	51·4	51·0	52·1	52·9	49·5
22	61·0	45·1	54·6	60·5	60·4	54·9	52·7	57·9	58·8	52·6
23	60·6	48·3	54·5	56·7	57·1	48·7	51·8	52·7	53·0	47·6
24	62·0	43·1	52·1	56·6	58·4	49·0	49·2	50·7	50·4	46·5
25	63·3	38·2	51·4	62·7	57·5	52·2	48·1	53·5	50·9	51·2
26	59·1	49·6	52·2	56·6	55·7	50·0	47·4	49·2	49·8	46·0
27	62·5	47·0	53·6	56·4	58·6	49·6	49·3	49·6	50·8	45·8
28	60·0	41·1	49·8	57·5	57·5	54·5	47·6	51·1	52·4	53·5
29	65·6	54·1	59·7	61·8	62·2	59·6	58·7	60·0	60·2	58·8
30	65·2	58·0	62·5	62·8	64·2	62·4	60·9	61·8	62·7	60·8
Means	63·1	46·7	55·1	59·6	59·8	52·4	51·6	53·8	54·1	49·9
OCTOBER.										
d	°	°	°	°	°	°	°	°	°	°
1	70·0	54·1	59·6	67·1	67·5	59·7	59·4	62·8	63·2	58·9
2	60·0	54·7	56·2	56·8	57·6	55·2	55·3	55·8	56·1	54·4
3	70·6	50·3	51·5	66·0	69·2	59·5	50·7	59·0	61·0	56·6
4	65·9	56·5	62·4	64·6	63·5	56·7	60·8	61·8	61·7	56·4
5	65·9	49·6	62·7	63·6	64·6	49·6	58·7	58·3	58·5	49·2
6	70·0	41·8	54·1	65·6	69·7	53·7	52·0	57·3	59·8	53·6
7	65·0	44·0	51·5	61·2	58·3	52·2	51·4	57·8	56·7	50·2
8	54·4	44·1	49·2	50·4	52·1	44·4	45·1	46·7	46·4	42·2
9	58·1	38·7	49·4	56·1	53·8	46·5	45·8	49·0	49·3	45·4
10	59·6	36·9	49·4	59·2	58·0	41·8	47·5	52·9	52·0	41·7
11	58·6	36·6	42·8	51·2	57·7	50·0	42·7	49·7	52·4	49·0
12	56·9	41·1	48·6	53·6	55·6	49·2	47·7	51·1	51·8	48·3
13	56·9	44·7	50·5	54·6	55·7	44·7	49·7	52·5	52·3	41·4
14	48·9	35·4	41·0	46·8	47·4	42·6	35·3	38·8	39·9	37·9
15	52·0	33·4	41·2	50·0	49·7	44·9	37·7	43·9	43·4	41·0
16	46·7	42·0	42·6	44·6	45·2	45·5	41·9	43·3	44·3	44·9
17	65·7	45·1	51·7	60·8	64·5	55·2	51·4	57·5	56·9	52·3
18	59·2	51·1	53·2	56·2	54·9	51·1	52·8	52·8	50·4	46·8
19	51·8	38·1	45·5	50·6	49·4	45·1	43·6	46·4	45·9	44·6
20	62·1	45·0	54·6	61·5	60·8	60·6	54·6	60·2	59·9	59·6
21	66·1	58·2	59·0	64·0	61·0	58·8	58·2	60·1	59·4	57·8
22	63·0	54·8	57·8	61·6	58·4	56·7	55·6	57·4	56·8	54·8
23	60·0	51·0	54·6	57·1	58·6	51·1	52·8	54·4	54·8	49·3
24	61·2	44·1	52·5	56·0	55·8	46·4	50·4	51·5	50·8	45·4
25	56·5	38·1	45·3	53·3	55·6	49·1	43·8	49·5	50·3	47·3
26	56·9	43·9	53·9	54·2	54·8	54·5	51·8	51·7	53·8	52·9
27	59·0	51·7	55·6	58·6	57·6	51·7	51·8	52·7	52·1	49·7
28	61·1	43·7	51·0	57·5	56·2	50·5	48·7	51·6	50·6	48·2
29	59·9	50·2	55·6	58·1	55·2	51·2	53·0	53·6	51·3	49·3
30	63·9	46·5	53·6	63·5	61·6	51·6	51·8	57·3	55·2	50·7
31	61·6	49·4	54·5	58·7	58·7	50·6	54·4	57·5	56·8	50·5
Means	60·2	45·6	52·0	57·5	57·7	51·0	50·2	53·4	53·3	49·4

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
NOVEMBER.										
d	°	°	°	°	°	°	°	°	°	°
1	58·7	46·4	54·4	57·7	56·3	52·0	53·6	54·0	52·7	51·0
2	61·4	48·1	54·4	59·5	57·6	52·8	51·9	54·1	54·1	51·8
3	61·0	51·2	59·6	60·3	60·3	54·1	58·8	58·3	57·8	51·7
4	59·4	44·7	49·7	57·0	56·3	49·9	47·8	51·8	50·9	48·7
5	51·2	45·1	49·9	49·6	49·5	48·6	48·6	48·4	48·4	46·2
6	52·0	40·3	44·5	50·4	49·4	41·3	43·1	46·7	45·5	40·4
7	56·0	41·0	49·9	54·3	51·9	46·4	48·7	50·7	49·6	45·0
8	48·6	39·3	45·4	47·3	43·5	39·3	43·0	43·9	40·8	37·1
9	42·7	31·1	36·5	41·3	41·0	32·4	33·7	36·6	35·7	31·8
10	38·2	28·1	35·4	35·7	37·6	35·3	34·8	35·3	35·4	33·4
11	43·4	34·2	40·6	42·5	42·1	40·8	38·9	40·9	40·0	38·8
12	46·0	32·7	38·1	44·4	43·0	34·6	35·6	38·5	38·1	32·8
13	40·1	33·1	36·5	39·6	39·2	33·5	34·4	36·2	35·9	32·2
14	43·7	26·6	30·7	40·6	42·4	35·7	30·6	38·4	38·6	35·1
15	45·6	29·1	37·2	44·5	41·1	34·3	33·7	40·4	38·4	33·5
16	43·0	32·0	36·4	42·3	42·5	36·2	35·1	39·8	39·4	35·2
17	47·1	34·7	42·3	45·6	45·7	41·5	40·7	42·0	41·2	39·8
18	47·0	36·5	41·9	46·5	44·3	42·6	39·9	42·9	41·2	40·3
19	44·6	36·5	41·4	43·2	42·1	37·0	39·3	40·3	39·8	36·4
20	45·4	35·0	40·2	44·5	42·3	38·8	39·5	43·0	41·2	38·0
21	47·4	38·7	43·2	45·9	44·9	42·7	41·8	42·9	41·8	40·9
22	46·0	39·6	42·3	44·7	43·1	41·2	41·1	42·1	40·6	40·1
23	46·0	38·7	41·2	44·6	44·6	40·0	40·4	42·3	42·0	38·7
24	41·8	32·1	35·4	40·1	40·2	38·7	34·0	37·8	37·1	36·0
25	40·5	34·2	36·6	36·9	36·5	34·9	33·9	32·9	33·0	33·4
26	35·4	26·0	30·0	31·0	28·9	26·5	29·2	30·4	28·3	26·2
27	35·9	24·9	34·4	34·3	35·5	32·5	32·5	33·7	33·2	31·2
28	34·9	26·0	30·8	33·8	34·6	30·7	29·1	31·0	32·1	30·0
29	37·0	29·2	31·5	35·6	35·1	34·7	31·2	32·9	32·9	32·6
30	42·0	33·5	36·9	41·5	38·5	34·1	35·7	38·2	35·8	33·3
Means	46·1	35·6	40·9	44·5	43·7	39·4	39·4	41·5	40·7	38·1
DECEMBER.										
d	°	°	°	°	°	°	°	°	°	°
1	40·4	33·1	37·1	40·0	38·4	35·6	35·0	35·7	34·7	33·4
2	36·4	29·1	29·8	35·0	35·6	32·3	29·2	32·4	32·9	31·0
3	34·4	26·8	31·7	33·4	32·4	29·1	31·4	32·9	31·9	29·1
4	31·7	28·9	30·1	30·7	31·4	30·7	30·1	30·7	31·4	30·7
5	35·1	21·4	25·8	33·6	33·4	27·3	25·4	31·3	32·1	26·8
6	42·7	23·5	29·0	41·4	40·4	35·4	28·2	39·3	38·5	34·5
7	45·4	32·4	36·2	41·9	43·6	44·0	35·7	40·0	41·6	42·6
8	50·9	43·4	49·2	50·5	47·7	47·3	48·0	49·0	46·8	46·8
9	47·9	40·0	41·1	46·8	45·5	41·6	38·9	42·6	41·3	39·4
10	48·2	39·8	42·3	47·2	45·3	42·8	40·0	43·3	41·8	40·6
11	43·0	36·6	39·7	42·5	41·6	37·2	38·4	38·3	38·0	35·5
12	41·3	34·3	35·2	41·1	39·6	36·1	34·2	38·1	37·8	34·2
13	36·1	26·0	28·3	31·6	34·6	33·5	28·0	30·8	32·4	32·9
14	34·4	28·4	30·2	31·9	34·4	32·6	29·4	30·8	33·0	31·9
15	32·6	24·1	30·1	31·5	30·4	24·6	30·0	30·4	29·5	24·5
16	36·9	23·7	31·1	35·7	36·4	36·2	30·3	33·2	35·2	34·8
17	45·8	36·1	40·3	44·4	44·7	41·6	38·3	41·2	41·7	39·9
18	42·2	39·1	40·4	42·1	42·1	39·7	39·2	38·9	39·7	37·5
19	41·6	34·8	34·8	40·5	38·4	35·9	34·1	37·9	36·7	35·0
20	41·3	33·1	38·6	39·3	40·7	39·3	38·2	39·0	40·5	38·9
21	39·3	34·7	38·2	38·1	36·6	34·7	37·3	37·6	36·0	34·1
22	43·2	33·6	41·6	42·4	41·6	39·6	41·4	42·1	41·6	39·4
23	39·8	31·0	33·2	34·6	35·0	35·3	31·4	32·4	32·8	34·2
24	40·4	33·8	36·0	39·2	38·4	33·8	33·9	35·6	34·4	31·2
25	36·7	31·9	34·1	36·3	36·6	35·6	33·6	35·6	36·0	35·0
26	49·5	35·2	47·2	48·7	48·4	49·5	46·0	46·6	45·8	48·8
27	52·0	46·4	48·5	49·8	49·1	46·5	47·2	47·4	46·6	44·6
28	52·1	43·4	44·8	48·4	49·2	51·7	42·6	46·1	47·8	50·2
29	56·5	50·1	53·7	54·6	54·6	56·4	51·9	52·5	52·4	53·8
30	56·6	46·3	51·7	50·6	49·6	58·6	50·4	48·8	46·9	45·1
31	50·8	41·2	44·9	48·9	49·9	47·3	43·3	46·5	46·1	44·3
Means	42·7	34·3	37·9	41·1	40·8	38·8	36·8	38·9	38·8	37·4

AMOUNT of RAIN COLLECTED in each MONTH of the YEAR 1925.

Gauges partly sunk in the ground in the Magnetic Pavilion Enclosure.	Monthly Amount of Rain collected in each Gauge.													Height of Receiving Surface.	
	Number of Gauge.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Sums.	Above the Ground.	Above Mean Sea Level.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
	6	1·722	3·121	0·604	1·852	1·506	0·119	3·657	2·311	2·023	2·417	1·436	2·701	23·469	0 5	149 6
	8	1·748	3·141	0·593	1·839	1·497	0·110	3·621	2·332	1·977	2·374	1·430	2·706	23·368	1 0	150 1
Number of Rainy Days (0·005 in. or over).	...	15	18	11	18	16	2	12	14	15	14	12	15	162	...	...

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.	1925												Mean for the Year.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
h	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.	miles.
1	12·1	14·8	11·5	10·4	8·9	7·5	8·0	7·5	10·2	9·4	11·5	14·5	10·5
2	12·6	14·9	10·9	10·4	9·1	7·8	8·0	6·9	10·3	9·3	11·3	13·7	10·4
3	12·9	15·9	11·7	10·6	8·8	8·3	8·1	7·3	10·5	9·4	11·1	14·1	10·7
4	11·9	15·3	11·4	10·5	8·8	8·5	7·6	7·4	10·8	8·9	10·8	12·9	10·4
5	11·2	15·6	11·9	10·4	8·9	8·3	8·2	7·8	10·3	9·4	10·9	13·6	10·5
6	11·1	16·0	11·5	10·7	8·6	7·9	7·6	7·5	10·7	8·7	10·4	13·5	10·4
7	11·8	15·2	11·3	11·2	9·3	8·1	8·0	7·7	11·2	9·1	10·9	13·7	10·6
8	12·5	13·8	11·1	11·6	9·9	8·1	7·8	7·5	10·8	8·7	10·6	13·0	10·5
9	13·0	15·2	13·0	12·2	11·3	9·2	7·9	8·8	11·7	9·0	11·2	13·1	11·3
10	13·9	15·9	13·7	13·0	12·3	9·6	9·2	9·1	12·5	10·0	12·3	12·5	12·0
11	14·0	16·9	14·8	13·5	12·8	9·4	9·8	10·0	13·8	11·0	12·8	13·2	12·7
Noon	14·0	16·6	15·9	13·7	12·4	9·7	9·8	9·8	13·4	11·5	13·6	13·2	12·8
13h	13·6	17·7	15·6	13·7	14·2	10·3	10·6	11·1	14·8	12·5	14·2	15·2	13·6
14	14·7	18·7	16·8	15·0	14·5	10·8	11·3	11·4	14·5	12·7	14·0	14·1	14·0
15	14·1	17·7	16·6	13·6	14·5	10·7	11·5	11·6	14·7	13·0	13·5	14·7	13·8
16	14·0	17·3	17·0	14·5	14·4	11·1	11·6	11·6	14·1	12·8	12·6	13·6	13·7
17	12·5	16·2	15·8	14·5	13·8	10·9	11·4	11·6	13·3	11·6	12·0	13·7	13·1
18	13·2	16·4	14·6	12·5	12·6	10·8	11·4	11·5	12·1	11·1	12·3	14·1	12·7
19	13·5	16·1	13·8	12·0	11·7	10·5	11·0	9·5	11·0	11·1	12·6	14·5	12·3
20	13·5	15·8	12·8	10·8	10·8	10·2	10·4	8·4	10·9	10·4	12·6	13·5	11·7
21	13·2	16·0	12·5	11·6	9·5	9·4	9·6	8·0	11·1	10·4	12·1	13·8	11·4
22	13·6	16·2	12·9	11·8	9·6	7·9	8·4	8·3	10·2	9·4	12·0	14·6	11·2
23	13·1	15·9	11·7	10·9	9·7	8·2	8·8	8·4	10·8	9·9	12·6	15·1	11·3
Midnight	12·1	14·5	11·4	10·2	9·2	7·8	8·9	7·7	9·5	9·5	11·7	14·8	10·6
Means	13·0	16·0	13·3	12·1	11·1	9·2	9·4	9·0	11·8	10·4	12·1	13·9	11·8
Greatest Hourly Measures (1)	42	47	36	50	30	20	26	22	36	37	32	38	...
Greatest Hourly Measures (2)	32	35	28	37	24	17	21	19	28	29	25	29	...

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

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. 1925.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h	16h	17h	18h	19h	20†	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	165	151	137	147	179	179	182	210	224	214	186	186	207	217	207	207	217	238	238	235	217	203	186	182	196	
February	231	207	200	193	179	189	210	249	280	280	273	270	277	284	280	280	284	284	298	287	287	277	273	277	256	
March	315	273	263	273	259	273	294	333	354	361	361	371	368	361	364	364	368	396	392	389	368	347	357	343	339	
April ...	217	200	193	179	182	186	221	231	259	280	284	263	252	252	252	259	245	273	312	287	280	263	273	249	246	
May ...	130	123	119	98	98	109	130	147	158	151	151	144	158	158	158	158	182	196	200	186	186	172	158	154	151	
June ...	158	140	130	133	147	154	189	235	259	259	256	238	238	238	238	242	249	245	221	193	196	214	207	182	207	
July	186	165	168	161	175	175	221	263	252	235	231	238	235	238	238	249	259	263	277	256	242	210	210	193	223	
August	200	193	182	175	193	193	224	266	249	273	294	273	245	259	277	259	273	280	277	238	242	214	235	214	239	
September	221	221	193	182	196	189	207	224	259	277	294	308	305	308	319	301	308	354	354	312	305	287	263	238	268	
October...	182	175	161	154	151	168	193	221	228	231	235	224	228	231	245	238	228	245	238	235	217	207	210	196	210	
November	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
December	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

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