

RESULTS OF THE MAGNETIC & METEOROLOGICAL OBSERVATIONS

MADE AT THE ABINGER MAGNETIC STATION, SURREY
AND THE ROYAL OBSERVATORY, GREENWICH
RESPECTIVELY IN THE YEAR

1939

UNDER THE DIRECTION OF
H. SPENCER JONES, Sc.D., F.R.S.
ASTRONOMER ROYAL

*Published by Order of the Board of Admiralty
in Obedience to Her Majesty's Command*



LONDON: HER MAJESTY'S STATIONERY OFFICE
1952

C O N T E N T S

| INTRODUCTION | Page |
|---|-------|
| PERSONAL ESTABLISHMENT AND ARRANGEMENTS | iii |
| MAGNETIC SECTION | |
| GENERAL DESCRIPTION OF BUILDINGS AND INSTRUMENTS | iii |
| REDUCTION AND ARRANGEMENT OF RESULTS | ix |
| METEOROLOGICAL SECTION | |
| GENERAL | xii |
| DESCRIPTION OF INSTRUMENTS | xii |
| REDUCTION AND ARRANGEMENTS OF RESULTS | xvi |
| NOTATION AND SYMBOLS | xviii |
| RESULTS OF OBSERVATIONS IN TABULAR ARRANGEMENT | |
| MAGNETIC | |
| TABLE I. - Hourly means of Declination West for each day of the year .. | D 2 |
| TABLE II. - Hourly Means of Horizontal Component of Magnetic Intensity | D 8 |
| TABLE III. - Hourly Means of Vertical Component of Magnetic Intensity | D 14 |
| TABLE IV. - Daily Mean and Extreme Values of Magnetic Elements recorded by the Magnetographs | D 20 |
| TABLE V. - Mean Diurnal Inequalities of the Components of Magnetic Intensity. All Days | D 26 |
| TABLE VI. - Mean Diurnal Inequalities of the Components of Magnetic Intensity. International Quiet Days | D 28 |
| TABLE VII. - Mean Diurnal Inequalities of the Components of Magnetic Intensity. International Disturbed Days | D 30 |
| TABLE VII, IX. - Harmonic Components of the Diurnal Inequality of Magnetic Intensity | D 32 |
| TABLE X. - Range of Diurnal Inequalities for the Months, Years and Seasons | D 33 |
| TABLE XI. - Monthly and Annual Value of Non-Cyclic Change in the Magnetic Elements | D 33 |
| TABLE XII. - Mean Monthly and Annual Values of Magnetic Elements .. | D 33 |
| TABLE XIII. - Daily Mean Value of the Base Line of the Declination Magnetograms | D 34 |

C O N T E N T S

| | |
|--|------|
| TABLE XIV. - Absolute Observations of Horizontal Intensity with the <i>Schuster-Smith</i> Coil Magnetometer; and deduced values of the Base- Line of the Horizontal Intensity Magnetograms | D 35 |
| TABLE XIV(A). - Do. do. with the Unifilar Magnetometer <i>Casella</i> 181 .. | D 37 |
| TABLE XV. - Absolute Observations of Vertical Intensity with the <i>Dye</i> Coil Magnetometer; and deduced values of the Base-Line of the Vertical Intensity Magnetograms | D 38 |
| TABLE XV(A). - Daily Value of the Base-Line of the Vertical Intensity Magnetograms deduced from observations of Dip with the Earth Inductor | D 40 |
| TABLE XVI. - Magnetic Elements Determined at Greenwich Between 1818-1925 and at Abinger, 1925-1939 | D 41 |
| NOTES ON MAGNETIC ACTIVITY | D 78 |
| PLATES I - X. Photo-lithographed from tracings of the Photographic Registers of Magnetic Disturbances. (Following D 81) | |

METEOROLOGICAL

| | |
|---|------|
| TABLE XVII. - Daily Results of the Meteorological Observations | D 44 |
| TABLE XVIII(A). - Highest and Lowest Readings of the Barometer | D 68 |
| TABLE XVIII(B). - Highest and Lowest Readings of the Barometer for each Month | D 68 |
| TABLE XIX. - Monthly Results of Meteorological Elements | D 69 |
| TABLE XX. - Monthly Mean Reading of the Barometer at every Hour of the Day | D 70 |
| TABLE XXI. - Monthly Mean Temperature of the Air at every Hour of the Day | D 70 |
| TABLE XXII. - Monthly Mean Temperature of Evaporation at every Hour of the Day | D 71 |
| TABLE XXIII. - Monthly Mean Temperature of the Dew-Point at every Hour of the Day | D 71 |
| TABLE XXIV. - Monthly Mean Degree of Humidity at every Hour of the Day | D 72 |
| TABLE XXV. - Total Amount of Sunshine registered in each Hour of the Day in each Month | D 72 |
| TABLE XXVI. - Readings of Thermometers in the Stevenson Screen in the Christie Enclosure | D 73 |
| TABLE XXVII. - Readings of Thermometers on the Revolving Stand in the Christie Enclosure | D 76 |
| TABLE XXVIII. - Amount of Rain collected in each Month by Gauges No.6 and No.8 | D 76 |
| TABLE XXIX. - 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 | D 77 |

THE ROYAL OBSERVATORY, GREENWICH

AND

ABINGER MAGNETIC STATION, SURREY

ABINGER MAGNETIC OBSERVATIONS, 1939.

During the year 1939 the staff employed in the Magnetic and Meteorological Department of the Royal Observatory consisted of W. M. Witchell, Superintendent, W. Stevens, E. A. Chamberlain, G. F. Wells, P. L. Rickerby, B. R. Leaton, and two ladies engaged in computational duties.

On account of electric railways in the neighbourhood of Greenwich, magnetic observations are made at an out-station about six miles from the town of Dorking in Surrey, and one and a half miles from the village of Abinger Common. Mr. Stevens, resident observer and assistant-in-charge of the station, was assisted by Mr. Rickerby. Mr. Stevens retired on July 17 and was succeeded by Mr. Chamberlain.

GENERAL DESCRIPTION OF THE BUILDINGS AND INSTRUMENTS OF THE MAGNETIC
OBSERVATORY

The Station was established in 1924 on a site on the northern slope of Leith Hill, 800 feet above sea level. It is approximately 26 miles from the Royal Observatory in a direction a little south of south-west. The nearest railway track approaches to about $2\frac{1}{2}$ miles. The adopted geographical position is Latitude $51^{\circ} 11' 5''$ N., Longitude $0^{\circ} 23' 12''$ W.

The Magnetic Pavilion for absolute observations is constructed of carefully chosen non-magnetic materials, and measures approximately 28 feet by 15 feet. It contains four circular tables stoutly built of hard wood into concrete piers which are free from contact with the floor. On the north pier is mounted the declination instrument, on the central pier the coil magnetometer for observing horizontal intensity, on the south-east pier the coil-magnetometer for observing vertical intensity, and on the south-west pier the dip inductor.

A smaller pavilion, measuring 16 feet by 12 feet, erected in 1926 for the testing and standardising of magnetic instruments (work formerly carried on at Kew Observatory), is situated about 40 feet south-east of the Magnetic Pavilion, and contains three concrete piers passing through the floor without contact.

A second pavilion, 20 feet in length and breadth, suitable for comparative observations and more convenient than the first for standardising magnetic instruments, was completed in 1932.

ABINGER MAGNETIC OBSERVATIONS, 1939.

It occupies a position on the north-east of the pavilion for absolute observations corresponding to that of the testing pavilion on the south-east and contains three circular wooden tables built into concrete piers free from contact with the floor, similar to those in the Magnetic Pavilion. The unifilar magnetometer, mounted until August 1928 in the Magnetic Pavilion, is now used in this pavilion.

The Magnetograph House stands 50 feet east of the Magnetic Pavilion in which the absolute magnetic observations are made. The recording instruments are situated in an inner chamber 15 feet long, 12 feet wide, and 8 feet high. This chamber is supported on small concrete piers and is 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 low-temperature non-magnetic metallic resistances distributed along the base of the walls. The current used is alternating, and is therefore without effect upon the magnetic registration.

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 observation houses. A public mains supply of three-phase current became available in 1937, however, and the current used at the station is now drawn from the mains.

The temperature of the Magnetograph House is controlled by a thermostat placed in the centre of the room, at the same level as the magnetic instruments. This operates a relay, which switches the electric current into or out of the heating circuits. The temperature is read daily from a thermometer attached to one of the variometers. The departure from a mean temperature is not more than $0^{\circ}.2$ C.

At the beginning of March 1938 the apparatus which had been in use since 1925 to record declination and horizontal intensity was superseded by a magnetograph of the La Cour or Copenhagen type. In this instrument the traces of three elements are recorded on one sheet, each element being restricted to a particular strip of the sheet. If the recording light-ray moves to one edge of this strip a secondary ray appears at the other edge, derived from the original source of light by prism reflection. Several such rays are available in succession on each side of the primary, so that a very much larger departure from the mean position can be recorded than was possible before.

The variometers are set up at the south end of the recording chamber in a line running geographically east to west. They occupy the eastern half of a massive slate slab measuring 8 feet by 2 feet by $1\frac{1}{2}$ inch which is cemented centrally upon the concrete pier formerly carrying the superseded recording mechanism. The new recording mechanism is mounted on a heavy wooden table 8 feet by 3 feet, the legs of which pass freely through the floor of the chamber and are cemented into the concrete base of the whole building. Occupying the western halves of the slate slab and wooden table is a "quick-run" magnetograph consisting of a closely similar set of instruments adapted by La Cour's method to record on a time-scale of 3 mm. to one minute i.e. twelve times as great as the normal scale. This recorder has been in regular use since 1938 November.

A quartz-fibre vertical intensity variometer is mounted on a pier in the south-west corner of the chamber, its recorder being at the north-west corner.

The time-marks are photographically printed on the sheets by the automatic illumination of electric lamps. In the case of the ordinary La Cour magnetograph the marks take the form of small dots which appear close to the traces, while in the case of the vertical intensity instrument and the "quick-run" recorder they are narrow lines extending across the paper. The time signals are

ABINGER MAGNETIC OBSERVATIONS, 1939.

derived from a relay connected to a mean solar clock in the computing room. For a period of one second at every tenth minute of Universal Time a current passes from the clock to the relay so that the time lamps are illuminated. Additional signals at the first and fifty-ninth minute of each hour serve to distinguish the actual hourly signals. The error of the clock is observed daily by comparison with a time signal radiated from one of the official broadcasting stations. Correction is made by magnetically altering the rate until the observed error has been removed. The error thus seldom exceeds one second.

DECLINATION MAGNET FOR ABSOLUTE DETERMINATIONS. - A hollow cylindrical magnet with scale and collimating lens is used in conjunction with a small telescope mounted independently on the same pier. 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. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to 1" of arc. An azimuth-mark is fixed on the top of a concrete pillar, 10 feet high, erected at the northern extremity of the Observatory grounds at a distance of approximately 300 feet from the observing pier. Determinations of the azimuth of this mark have been made at intervals by means of observations of Polaris. During each observation of Polaris, both direct and reflected views are taken. The effect of error of level of the telescope is thus entirely eliminated. Reflection is obtained from the surface of mercury contained in a shallow copper dish.

THE HORIZONTAL INTENSITY SCHUSTER-SMITH COIL MAGNETOMETER. - This instrument has been lent to the Observatory by the Director of the National Physical Laboratory. It is the second constructed of the type and is rather smaller than the original instrument, a detailed description of which is to be found in *Philosophical Transactions of the Royal Society*, Vol. 223 (1923), pp. 175-200. It is erected on a pier in the centre of the absolute observation pavilion and was brought into use as the standard instrument for measurement of horizontal intensity on 1927, February 1. In general, eight independent determinations are made each week-day.

The following is a brief description of the instrument and the method employed in measuring horizontal intensity:-

A hollow marble cylinder of 50 cms. diameter rests, with its axis horizontal, on a brass support which can be turned in azimuth. The azimuth may be read to 10" of arc from a graduated circle on the base-plate, by the usual vernier attachment. On the periphery of the cylinder, near each end and at a mean distance of 25 cms. from each other, are two windings, in series, of ten turns of bare silver wire, the method of winding the ten loops in a double spiral being that adopted in the original instrument referred to above. The whole forms a Helmholtz-Gauguin system at the centre of which a very uniform magnetic field parallel to the axis exists when an electric current is passing through the coils.

A chromium-steel magnet, 15 mm. long and 2 mm. square in cross section is supported horizontally in a light vertical aluminium frame; the frame carries also a small concave mirror and a damping vane, and is suspended by a single silk fibre in a suspension tube passing through a hole in the upper surface of the cylinder. A square box with optically-plane glass sides supports the tube and encloses the magnet frame, allowing the mirror to project an image of a source of light during observation. The suspension fibre is adjusted so that the magnet hangs at the centre of the coil system.

To afford an easy means of reading the azimuth of the cylinder and the indications of the magnet, graduated ivory scales are placed horizontally on stands at a distance of a little over 7 feet from the pier, and spots of light are reflected to them by small concave mirrors in the instrument.

ABINGER MAGNETIC OBSERVATIONS, 1939.

Situated outside the observing pavilion, about 40 feet to the south, is a storage battery of 25 cells which produces the current required for the observation. The amount of current employed is very accurately adjusted to a specific value by rheostat according to the indications of a Broca galvanometer in a potentiometer circuit in which the e.m.f. across a known resistance is balanced against that of a Weston standard cell.

Careful precaution is exercised in arranging the circuits both to eliminate accidental magnetic fields and to secure the highest degree of insulation. The latter has been found, in practice, to be of great importance, especially with regard to the insulation of the galvanometer circuit, as any stray current here will lead to a difference of potential between the terminals of the standard cell and the standard resistance. It is desirable that the resistance of the galvanometer should be as low as possible consistent with sensitivity.

Theory of the observation:-

If a horizontal magnetic field whose intensity is slightly greater than that of the earth is imposed at an angle of nearly 180° with the earth's field, a precise angle can be found at which the resultant of the two fields becomes directed at right angles to the earth's field. The intensity F of the imposed field, and its angle α with the earth's field being known, the horizontal intensity of the earth's field can then be calculated from the simple relation: $H = F \cos \alpha$.

An observation proceeds as follows:-

Torsion having been eliminated from the suspension thread by substituting a copper bar of similar dimensions for the magnet, the magnet is replaced and allowed to hang freely in the earth's field. The position, on the appropriate scale, of the spot of light reflected by the magnet-mirror is noted. This scale is normally on the west side of the instrument. By optical methods, reference marks on two other scales placed respectively to the magnetic north and south of the instrument are adjusted accurately to points 90° from the spot reflected by the magnet-mirror. A current is next passed round the coil in the direction that produces a field augmenting that of the earth, and the coil is turned in azimuth until the addition of the imposed field produces no alteration in the direction of the magnet. The axis of the coil is then accurately parallel to the horizontal component of the earth's field, and the coil-mirror can be adjusted so that it reflects a spot of light to the reference mark, *i.e.*, to the zero graduation of the north scale, as already set.

The current is now reversed in the coil by a commutator switch and the coil is turned until the resultant force on the magnet is in a direction at right angles to the earth's field. This is indicated on either the north or south scale by the magnet-mirror, which is carried round 90° by the magnet. The azimuth angle through which the coil has been turned is read from the north scale, and the coil is then turned to an approximately equal angle on the opposite side of the magnetic meridian. This reverses the direction of the resultant field; and a further small adjustment of the coil brings the spot of light reflected by the magnet-mirror accurately to the reference mark on the opposite scale to that last used. A second reading of the azimuth of the coil completes the observation.

The suspension box and tube are turned by the observer as the magnet turns, so that no torsional change is introduced. The effect of any small error in the assumed direction of the earth's horizontal field due, say, to residual torsion on the suspension thread, is eliminated on taking the mean of the two results.

After preliminary details have been gone over, a complete observation of horizontal intensity is readily obtained in two minutes.

ABINGER MAGNETIC OBSERVATIONS, 1939.

If F be the factor of the coil and i be the current passing in ampères, then the intensity of the field at the centre of the coil in γ units is $Fi \times 10^4$. The adopted value of the factor F of the coil is $3.59570 (1 - .0000043 t)$, t being temperature Centigrade.

The observed value of horizontal intensity obtained from this instrument is subject to a correction of -1γ for the effect of the field of magnets in instruments placed permanently in the vicinity. The effect is determined experimentally by reversal of the magnets. The correction is applied in the reduction of the observation.

The constants of the coil and of the potentiometer at various standard temperatures have been precisely determined at the National Physical Laboratory and are checked from time to time. The dimensions of the coil were re-examined in November 1931. The electrical constants on which the reduction of observations made in 1939 is based were verified in February 1939. The factor at present adopted to convert the measure of current from international units to C.G.S. units is 0.99988 .

A KEW-PATTERN UNIFILAR MAGNETOMETER (Casella No. 181) is also used to determine absolute horizontal intensity. Deflection observations are made at three distances, namely, 22.5 cms., 30 cms. and 40 cms. 24 observations of the moment of inertia of the collimator magnet were made during the year 1939. The mean observed value of $\log K$ from these determinations was 2.42362 . This value has been used in the reductions and is based on the Greenwich Standard Inertia Cylinder. (See Appendix II of the Magnetic Results, 1926).

The mean values of the distribution constants P and Q derived from 83 normal determinations made during the year are $+9.81$ and -1690 respectively.

The values used in the reduction of the 1939 observations, however, are the mean values obtained from a series of 235 special observations made during the year 1936. These values are: $P = +9.17$, $Q = -1409$.

The method employed in reducing the special series was as follows:-

$$\text{A deflection observation gives } H \text{ through the equation } H \sin \alpha = \frac{2m}{r^3} \left(1 + \frac{P}{r^2} + \frac{Q}{r^4} + \dots \right)$$

If deflections, α , are made at several distances, r , and the values of H and m are known from some other source, a direct solution of the equations for P and Q is possible by "least squares". The value of m was determined from the period of vibration and the moment of inertia of the deflecting magnet, in combination with the value of H as observed by a coil-magnetometer at the time of the vibration experiment. The values of r were 22.5, 25, 30, 35, 40, 45, 50 cms.

In 1939 the deflection at 22.5 cms. has not been used in computing observed values of horizontal intensity.

VERTICAL INTENSITY COIL MAGNETOMETER. - This instrument, designed by the late Dr. D. W. Dye, F.R.S., for direct measurement of vertical intensity, and constructed under his supervision at the National Physical Laboratory, Teddington, has been lent to the Royal Observatory by the Director of

ABINGER MAGNETIC OBSERVATIONS, 1939.

the National Physical Laboratory. It is erected on the south-east pier of the observing pavilion, and was adopted as the standard for measurement of vertical intensity from 1929 January 1.

A full description of the instrument is published in *Proceedings of the Royal Society, Ser. A*, Vol. 117 (1928), pp. 434-458.

In brief, the instrument consists of a Helmholtz-Gaugain Coil wound on a marble cylinder, the axis of which is vertical as truly as can be determined, together with accessory apparatus for accurately controlling and measuring the current passed through the coil, and for testing the resultant field at its centre.

The observation consists in an adjustment of the current until the artificial field imposed at the centre of the coil exactly annuls the vertical component of the earth's field. The intensity of this component is then easily calculable from a knowledge of the dimensions of the coil and the amount of current indicated by potentiometer measurement. (*cf.* p. vii). The current is taken from the battery that supplies the *Schuster-Smith* instrument.

The adopted value of the factor is $F = 3.59643(1 - .0000079 t)$, t being temperature Centigrade.

The constants of the potentiometer in use during the year for the measurement of the current were verified at the National Physical Laboratory in February, 1939.

The special feature of the instrument is the means adopted for ascertaining when the vertical component of the earth's field is exactly annulled at the centre of the marble cylinder. This consists of a diamond-shaped vibrating test-coil about 2 cms. long suspended by bronze strip stretched horizontally between two supports and carrying a light plane mirror. The principle of the instrument requires that the axis of rotation of the detector coil should be horizontal and its plane vertical, in the equilibrium position. The method of securing these adjustments is included in the full description of the instrument mentioned above.

A weak alternating current, supplied from a generator at some distance from the instrument, passes through the test coil. The reaction between this current and the magnetic field causes the coil to receive an alternating rotatory force which vanishes only when the vertical field is annulled. The resulting vibration is brought to a maximum by adjustment of the generator frequency to synchronism with the natural frequency of the coil (about 15 per second), and high sensitivity is thus obtained. Microscopic vibration is exhibited by projection from a small mirror on the test coil of an image of cross wires to a screen erected about 2 metres distant.

ABSOLUTE INCLINATION INSTRUMENT. - An Earth Inductor by the Cambridge Instrument Co., in conjunction with a Broca galvanometer, is used to determine magnetic inclination. About six determinations are made each week. Observations are made in four positions to eliminate any small errors arising from slight asymmetry in the instrument. After the first adjustment, the coil-support is reversed about a horizontal axis and a second adjustment is obtained: the instrument is then reversed in azimuth and two further adjustments are made. The circle for the measurement of inclination is 8 inches in diameter, and is read by means of microscope micrometers to one second of arc. The levels on the base can likewise be read to one second. A detailed description of the inductor will be found in the volume for 1915. Since 1929, January 1, the observations of inclination have not been used for determination of vertical intensity.

DECLINATION AND HORIZONTAL INTENSITY VARIOMETERS. - A complete description of the *La Cour*

ABINGER MAGNETIC OBSERVATIONS, 1939.

variometer for horizontal intensity is to be found in *Publikationer fra det Danske Meteorologiske Institut* No. 11 (Copenhagen 1930). Some details are given here for general information. The magnet, of cobalt steel, is 8 millimetres long and weighs about 25 milligrammes, the magnetic moment being 3.2 c.g.s. units. It is suspended at right angles to the earth's horizontal field by means of a quartz fibre thickened at each end to form a small cone. Each cone fits into a conical brass socket having a fine slit in its side through which the fibre has passed. The cones are held firmly in the sockets by a little wax and the fibre is thus attached to its connections with sufficient rigidity. The focal length of the lens which projects the ray from the mirror attached to the magnet is 160 cms. Compensation for the effect of temperature on the moment of the magnet and the torsional constant of the quartz fibre is attained by optical means in which compensatory deflection of the emergent ray is produced by the proportional curving (under temperature changes) of a bi-metallic lamina which supports a prism controlling the ultimate direction of the ray. The method of extending the range covered by the variometer has already been mentioned (p. iv).

A small Helmholtz-Gaugain coil enveloping the variometer and having a field of 7.43 γ per milliampere is used both to orient the magnet correctly with respect to the earth's field and to determine the scale value of the record. The adopted scale value was 4.40 γ per millimetre to February 17, and 4.50 γ per millimetre from February 17. Owing to the fact that the optical ray does not meet the recording cylinder perpendicularly the scale is not quite uniform.

The general features of the declination variometer correspond closely to those of the variometer just described. The scale value is 0'.90 per millimetre. Expressed as magnetic intensity the scale value would be 4.85 γ per millimetre at the present time.

The *La Cour* vertical intensity variometer is fully described in *Publikationer fra det Danske Meteorologiske Institut* No. 8. The recording magnet (which, including knife-edges and mirror, is fashioned from a single piece of cobalt steel and therefore has no possibility of relative movement among its parts) is oriented approximately at right angles to the magnetic meridian. Compensation for temperature is secured optically as in the horizontal intensity variometer. The scale value adopted is 4.00 γ per millimetre. It is determined with the small Helmholtz-Gaugain coil already mentioned.

THE QUARTZ-THREAD VERTICAL INTENSITY VARIOMETER. - This instrument has been fully described in previous volumes of Results from 1925 onwards and a detailed account is to be found in *Philosophical Magazine* vol. vii sixth series (1904) p. 393. Records were made throughout the year, but in view of the excellence of the results obtained with the *La Cour* instrument and the great steadiness of base-line values observed, the detailed measurement of the traces was discontinued at the end of 1938.

REDUCTION AND ARRANGEMENT OF RESULTS

The time used is *Universal Time* (U.T.).

The estimated mean ordinates of the photographic traces for each hour are measured from the base-lines 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 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 hourly mean ordinates.

Base-line values are adopted from smooth curves drawn through points plotted on a chart, each point representing the mean result from several independent observations.

ABINGER MAGNETIC OBSERVATIONS, 1939.

Ten observations of declination, eight of horizontal intensity and six of vertical intensity are made, on an average, each week-day. Previous to 1929 the base-line values for vertical intensity traces were computed from absolute observations of inclination combined with simultaneous values of horizontal intensity taken from the magnetograms. From 1929 January 1, the values have been obtained directly from observations of vertical intensity with the coil-magnetometer. A discontinuity arises in the definitive values of vertical intensity at the time of changing the method of deriving the base-line value of the magnetograms.

The magnetograph chamber being maintained at a sensibly constant temperature, no temperature corrections are required in general. When the seasonal changes are made in the temperature at which the chamber is maintained, new base-line values are adopted from the hour at which control is observed to be established, and during the period of change interpolated values are applied at hourly intervals.

Tables I to III contain the hourly results for declination, horizontal intensity and vertical intensity respectively.

Table IV gives for each element the mean daily value, the maximum and minimum values with the times of their occurrence, and the daily range.

Then follow in Tables V to VII the monthly and annual mean diurnal inequalities obtained from "all days", and from quiet and disturbed days as selected by the International Committee. In addition to monthly and annual values there are also given mean values of the diurnal inequalities derived from months grouped into the seasonal periods, Winter (that is January, February, November, December), Equinox (March, April, September, October) and Summer (May, June, July, August). The values in these tables have *not* been adjusted for the effect of non-cyclic change.

From the inequalities in declination, horizontal intensity and vertical intensity, corresponding inequalities in the north and west components and in inclination have been computed and appear at the same opening of the page. In general, the computations are carried to one significant figure beyond the actual figure printed.

The extremes of any inequality are indicated by heavy type.

The inequalities in the north, west and vertical components (that is in X, -Y, Z) have been subjected to harmonic analysis, the results being given in Tables VIII and IX. In the case of the International Quiet and Disturbed Days, the inequalities were adjusted for non-cyclic change before analysis, but in analysing the results for "All" Days the non-cyclic change was ignored. The phase angles in Table IX are corrected to refer to Abinger Local Mean Time.

In Table X are given the mean diurnal ranges in declination, horizontal intensity and vertical intensity for each month, for the year and for the seasons. The corresponding results for International Quiet and Disturbed Days are also given. The quantities are derived from Tables V to VII.

Table XI gives in similar arrangement the non-cyclic change 24^h minus 0^h . The quantities are computed from Tables I to III, the value for 0^h or 24^h being taken as the mean of the last value on one day and the first value on the day following.

Table XII contains the mean monthly and annual values of the components collected together. In

ABINGER MAGNETIC OBSERVATIONS, 1939.

this table corrections have been applied, when necessary, to the values of H and Z taken from Table IV, to remove the effect of any small secular changes in potentiometer constants found at the periodical re-measurement of the constants at the National Physical Laboratory.

Tables XIII to XV contain the daily values of the base lines of the magnetograms deduced from absolute observations of declination, horizontal and vertical intensity.

Table XVI gives mean annual values of magnetic elements determined at the Royal Observatory, Greenwich, over the whole period of observation. Included in the table are results of early observations of declination made from 1818 to 1820. The table contains also the values determined at the Abinger Station since 1925.

Reduced copies of the magnetograms for certain disturbed days have been printed in each volume since 1882. The days are now those selected at De Bilt for the International Committee. These dates in 1939 are February 24; March 28; April 17, 24; May 6; July 5; August 12, 22; October 3, 13. Where two days are mentioned together, it is to be understood that the reference is to a series of 24 consecutive hours comprising parts of two consecutive days.

The plates are preceded by a brief descriptive summary of 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 given, viz.: declination, horizontal intensity, and vertical intensity marked D, H and Z respectively.

At the foot of each plate, scales, in C.G.S. measure are given for each of the magnetic registers and a datum line is marked for each trace at the side of the diagrams. Upward motion indicates decrease of west declination and increase of intensity in all cases.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

The majority of the meteorological instruments are situated in an enclosure in Greenwich Park, 350 yards to the east of the Astronomical Observatory. In the enclosure (which will be referred to as "The Christie Enclosure") there are the barometer, the thermometers used for ordinary eye observations, the recording wet-bulb and dry-bulb thermometers, thermometers for solar and terrestrial radiation, two earth thermometers, and two rain gauges; also the instrument for automatically recording pollution of the air.

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

The observations comprise eye observations of the ordinary meteorological instruments, including the barometer, dry-bulb and wet-bulb thermometers, radiation and earth thermometers; continuous autographic record of the variations of the barometer, dry-bulb and wet-bulb thermometers; 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 celestial Pole; the general record of ordinary atmospheric changes of weather, including numerical estimation of the amount of cloud and estimations of "visibility"; daily measurement of the amount of sulphur dioxide polluting the air and registration and measurement of the pollution of the air by solid matter.

Universal Time (U.T.) - which at the Royal Observatory coincides with local Mean Solar Time - has been employed throughout the meteorological section, except in regard to the sunshine registers (See p. xvi).

STANDARD BAROMETER - The standard barometer is Newman No. 64. Its tube is 0.565 inch in diameter, and the depression of the mercury due to capillary action is 0.002 inch, but no correction is applied on this account. The cistern is of glass, and the graduated scale and attached rod 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 0.05 inch,

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

subdivided by vernier to 0.002 inch. 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. On 1917 April 3, it was transferred to the new magnetograph house in the Christie Enclosure, where the height above mean sea level is 152 feet (See also p. xvii).

The barometer is read at 9h, 12h (noon), 15h., every day and also at some convenient time during the evening. 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 - A siphon barometer is employed which, at its open end, operates a plunger resting on the surface of the mercury. On account of the optical magnification associated with a moving mirror at some distance from the recording drum, the motion of the plunger must be mechanically reduced in being transferred to the arm which carries the mirror. In the actual arrangement two levers are used. One is connected to the stem of the plunger resting on the free surface of the mercury and is 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 pivot to the pin, and is set at right angles to the first lever. Both levers are approximately horizontal in their mean position. Just above the pivots of, and attached to the short lever is mounted horizontally, in a suitable frame, the moving mirror of the instrument. The first lever lies east and west, so that the axis about which the mirror turns is in the same direction. The recording drum is horizontal and 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 electric lamp 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 the directions of the two beams of light. 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.

The instrument is 12 feet from the recording drum. At this distance the calculated scale-value of the record is 3 inches on the sheet for 1 inch change of height of the mercury column of the standard barometer. (Near the surface of the mercury, both arms of the siphon tube are of the same bore, so that the plunger moves through one half the change of the indication of the standard barometer.)

The scale-value of the instrument is, in effect, determined experimentally by comparison with the readings of the standard barometer. The base-line values corresponding to the four daily readings of the standard are represented graphically by points on a chart. The adopted value at any time is read from a smooth curve drawn through the points.

The photographic sheets being 9½ inches wide, a range of over 3 inches barometric motion can be included, and re-adjustment of position of the trace is unnecessary.

DRY-BULB AND WET-BULB THERMOMETERS - On 1937 December 31 the standard dry-bulb and wet-bulb thermometers and maximum and minimum self-registering thermometers, both dry-bulb and wet-bulb were transferred from the revolving open screen on which hitherto they had been mounted to a Stevenson screen of large dimensions which had been set up a few yards to the westward. On 1938 April 30 the old screen was erected in a new position on the north side of the Christie Enclosure, and daily readings, at 9h., of maximum and minimum temperature in the open screen were resumed.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

The corrections to be applied to the thermometers in ordinary use are determined by comparison with the Kew Standard thermometer No.515.

The dry-bulb thermometer used throughout the year was Negretti and Zambra No.45354. The correction $-0^{\circ}.4$ 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 $-0^{\circ}.2$ has been applied to the readings of this thermometer.

The dry-bulb and wet-bulb thermometers are read at 9h., 12h. (noon), 15h., every day and also once during the evening. Readings of the maximum and minimum thermometers are taken at 9h., 15h., and near 21h., every day. The readings are employed to correct the indications of the recording dry-bulb and wet-bulb thermometers.

DRY-BULB AND WET-BULB RECORDING THERMOMETERS - The photographic apparatus which had been in use since 1887 was superseded on 1938 January 1 by a distant-recording thermograph. The action of this instrument depends on the pressure of mercury in a long flexible capillary tube of steel. The pressure alters the curvature of a Bourdon coil which in turn controls the position of a recording pen.

The thermometers exerting the pressure are mounted in the Stevenson screen which contains also the standard thermometers. The recording mechanism is set up in the basement of the building, about 40 feet distant, constructed for the Yapp equatorial telescope, and the steel tube transmitting the pressure is laid in earthenware pipes buried about eighteen inches beneath the surface of the ground. The traces (in ink) showing the variations in temperature are directly visible through a window. The scale-value is approximately 20°F per inch.

RADIATION THERMOMETERS - These thermometers are placed in an open position in the Christie Enclosure. The thermometer for solar radiation is a mercurial maximum thermometer with its bulb blackened and enclosed in a glass sphere from which the air has been exhausted. The thermometer employed was Negretti and Zambra No.C.G.10221 until June 29, after which date it was replaced by No.C.G.10220. The thermometer for radiation to the sky is a spirit minimum thermometer Negretti and Zambra No.D.11197. The thermometers are laid on short grass, freely exposed to the sky.

EARTH THERMOMETERS - There are two thermometers now in use, the bulbs of which are sunk to depths of 4 feet and 1 foot respectively below the surface. Both thermometers are read daily at noon, the readings of the former being given in the daily results.

OSLER ANEMOMETER - This self-registering instrument devised for continuous registration of the direction and pressure of the wind together with 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 shaft and pinion with a rack-work carrying a pencil; the latter marks on a flat sheet of paper moving horizontally. 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 near 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

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

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 strong winds. The scale is determined experimentally in pounds per square foot from time to time. The most recent determination was made on 1934 November 20. The recording sheet is changed daily at noon. The time scale is approximately 15 millimetres to the hour. The instrument was brought into use in 1840.

ROBINSON ANEMOMETER - This instrument, for registration of the horizontal movement of the air, is mounted above the roof of the Octagon Room and was brought into use in 1866. The four hemispherical cups are 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 approximately to horizontal motion of the air through 100 miles. The time scale is the same as for the Osler anemometer and the sheet is also changed daily at noon.

The velocity recorded by the instrument is three times the actual velocity v of the cups. From test made by W. H. Dines at Herisham in 1889, on his 'whirling machine', it appeared that the relation between the velocity of the wind, V , and the velocity of the cups, v , is approximately represented by the expression $V = 4.0 + 2.0 v$ 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 $V = 3v$ would thus be too high when V exceeds 12. Since the two formulae 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. Until 1931, for the sake of continuity and simplicity, the formula $V = 3v$ was retained in use, although the greatest hourly measures according to the revised formula were given in a table at the end of the volumes. From 1932 January all measures have been calculated from the revised formula.

RAIN GAUGES - During the year 1939 three rain gauges were employed. 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. 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 on 1908 January 1, being fixed SW by W from No.6 with clear space of 6 feet between the rims.

The erection in the Christie Enclosure of a building to the north-west of gauges 6 and 8, to accommodate a large equatorial telescope, made desirable the removal of these gauges to new positions. The removal was carried out on 1932 September 29, the new sites being approximately 42 feet east of the old ones. The position of gauge No.8 is 4 feet north of the Standard gauge, No.6, which is read at 9h, 15h and in the evening. No.8 is read as a check on the readings of No.6 and is normally read at 9h only. The gauges are also read at midnight on the last day of each calendar month.

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 Christie Enclosure in 1899 January. The monthly amounts of rain collected in gauges Nos. 6 and 8 are given on page D 76 of the Meteorological Results.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

SUNSHINE RECORDER - The hourly results relate to *apparent* time. The instrument in use is of the Campbell-Stokes pattern with 4 inch glass globe. It was examined at the Meteorological Office on 1926 September 13 and was found to be in satisfactory condition. It bears the serial number M.O.113. 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. Conformity with Meteorological Office standards of measurement is maintained as far as possible, and with this in view independent measures of four selected sunshine cards taken from each of the months February and August 1939 have been made at the Meteorological Office. There showed very good agreement with the Greenwich estimations.

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 court yard, to the north of the Transit Pavilion, and permanently directed towards the celestial Pole.

The lens is of 18.8 inches focal length and 0.8 inch aperture. The actual camera is enclosed in a larger box about twice its length, extending nine inches beyond the lens. The lens itself is further surrounded by a hood. Adequate protection from dew is thus obtained, and also from rain, except when hard driven from the north. The photographic plates used are ordinary quarter-plate ($3\frac{1}{2}$ by $4\frac{1}{2}$ inches). Exposure is intended to be made during the period that the sun remains more than 10° below the horizon. The period is thus centred approximately on 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 selected for measurement are those of Polaris and δ Ursae Minoris. The measurement is effected by means of a glass scale on which pairs of concentric circles are photographically imprinted. The radii of these circles are slightly greater and slightly less than the radius of the trace to be measured, and the circles are 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 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, due allowance being made for the acceleration of sidereal time over mean time. When the sky is not clear at commencement, a computed quantity is used which includes an adopted mean value of the error of orientation. Variations in the error of orientation are found seldom to exceed two or three minutes of time, and are unimportant to the records.

ARRANGEMENT OF RESULTS - The results given in the Meteorological Section refer to the day commencing at Oh. U.T., except in the case of the Night-Sky Record, 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 continuous records, excepting that the maximum and minimum values of air temperature are those given by eye observation of the ordinary maximum and

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

minimum thermometers, reference being made, however, to the autographic register when necessary to obtain the values corresponding to the limits "midnight to midnight". The hourly readings for the elements mentioned are measured direct from the traces and reduced so as to be based fundamentally, both as regards scale and zero, on the readings of the standard barometer, dry-bulb 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 monthly mean barometer reading is, however, corrected for the effect of the change of site of 1917 April before deducing the deviation from the mean of sixty-five years 1841-1905 (pp. D 44-66). This correction, amounting to .007 inch, was by oversight omitted in the years 1917-1926.

From 1926 January 1, the mean daily temperature of the dew-point and degree of humidity have been deduced from the mean daily temperatures of the air and of evaporation by use of *Hygrometric Tables* issued by the Meteorological Office, Air Ministry. In the same way the mean hourly values of the dew-point temperature and degree of humidity in each month (pages D 71 and D 72) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pages D 70 and D 71).

The excess of the mean temperature of the air on each day above the average of sixty-five years, given in the "Daily Results of the Meteorological Observations", is found by comparing the numbers contained in column 5 with a table of average daily temperatures obtained by smoothing the accidental irregularities of the daily means derived 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 to *Results* for 1910.

In the case of maximum and minimum temperature the average of sixty-five years has been corrected for the presumed effect of the change of thermometer screen which took place on 1938 January 1. The corrections are given below. They were derived from comparisons between readings on the revolving stand and in a closely adjacent Stevenson screen, recorded daily during the period 1900 April to 1913 December.

| | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Maximum Temp. | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° |
| | 0.0 | -0.3 | -0.6 | -1.1 | -1.7 | -1.8 | -2.1 | -1.9 | -1.1 | -0.5 | -0.1 | 0.0 |
| Minimum Temp. | +0.5 | +0.5 | +0.5 | +0.5 | +0.5 | +0.5 | +0.5 | +0.6 | +0.6 | +0.6 | +0.5 | +0.5 |

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 (See p. xv). The continuous record of the Osler self-registering gauge shows whether the amounts measured at 9h., are to be placed to the same, or to the preceding day; and also gives, in cases in which rain fell both before and after midnight, the means of ascertaining the proper proportion of the 9h. amount which should be placed to each day. The number of days of rain given in the footnotes, and in the abstract tables, pages D 69 and D 76, is formed from the records of gauge No.6. In this numeration only those days are counted on which the fall amounted to or exceeded 0.005 inch.

THE WIND - 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

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

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.

With regard to "Proportions of wind referred to the cardinal points" in the monthly summary on pp. D 44-67, formerly the figures were such that the whole month was represented by the number of days in the month. In the "Results" for 1933 a change was made, and the whole month is now represented by 100, so that the figures are the equivalent of "percentages".

The mean amount of cloud given in the footnotes on the right-hand pages D 45 to D 67, and in the abstract table, page D 69, is the mean found from observations made at 9h., 12h. (noon), 15h. and 21h. each day.

As regards the notation for clouds and weather, several changes were made in the 1934 volume in order to bring the symbols into general accordance with those in use at the British Meteorological Office.

The following are the symbols which have been adopted. Where a change from the symbol previously in use has been made, an asterisk (*) is placed after the word or words for which the symbol stands.

BEAUFORT WEATHER NOTATION

(modified in conformity with the usage of the British Meteorological Office)

| | |
|-----|--|
| b, | blue sky (less than one quarter covered with cloud) |
| bc, | sky partially cloudy (less than three-quarters covered) |
| c, | sky generally cloudy, but not completely overcast |
| d, | drizzle |
| e, | wet air without falling rain |
| f, | fog, with objects invisible distant more than 1100 yards |
| F, | fog, with objects invisible distant more than 220 yards |
| g, | gloom (*) |
| h, | hail (*) |
| i, | intermittent |
| k, | storm (in combination with other symbols) (*) |
| l, | lightning |
| m, | mist, with limit of visibility between 1100 and 2200 yards |
| o, | sky overcast with unbroken cloud |
| p, | passing showers (*) |
| q, | squall (*) |
| r, | rain |
| s, | snow (*) |
| rs, | sleet (*) |
| t, | thunder |
| u, | threatening sky |
| v, | exceptional visibility; i.e. abnormal transparency of air |
| w, | dew (*) |
| x, | hoar frost (*) |
| y, | dry air; i.e. relative humidity less than 60 per cent |
| z, | haze (*) |

A capital letter indicates "intense"
The suffix _o indicates "slight"
A letter repeated indicates "continuous"

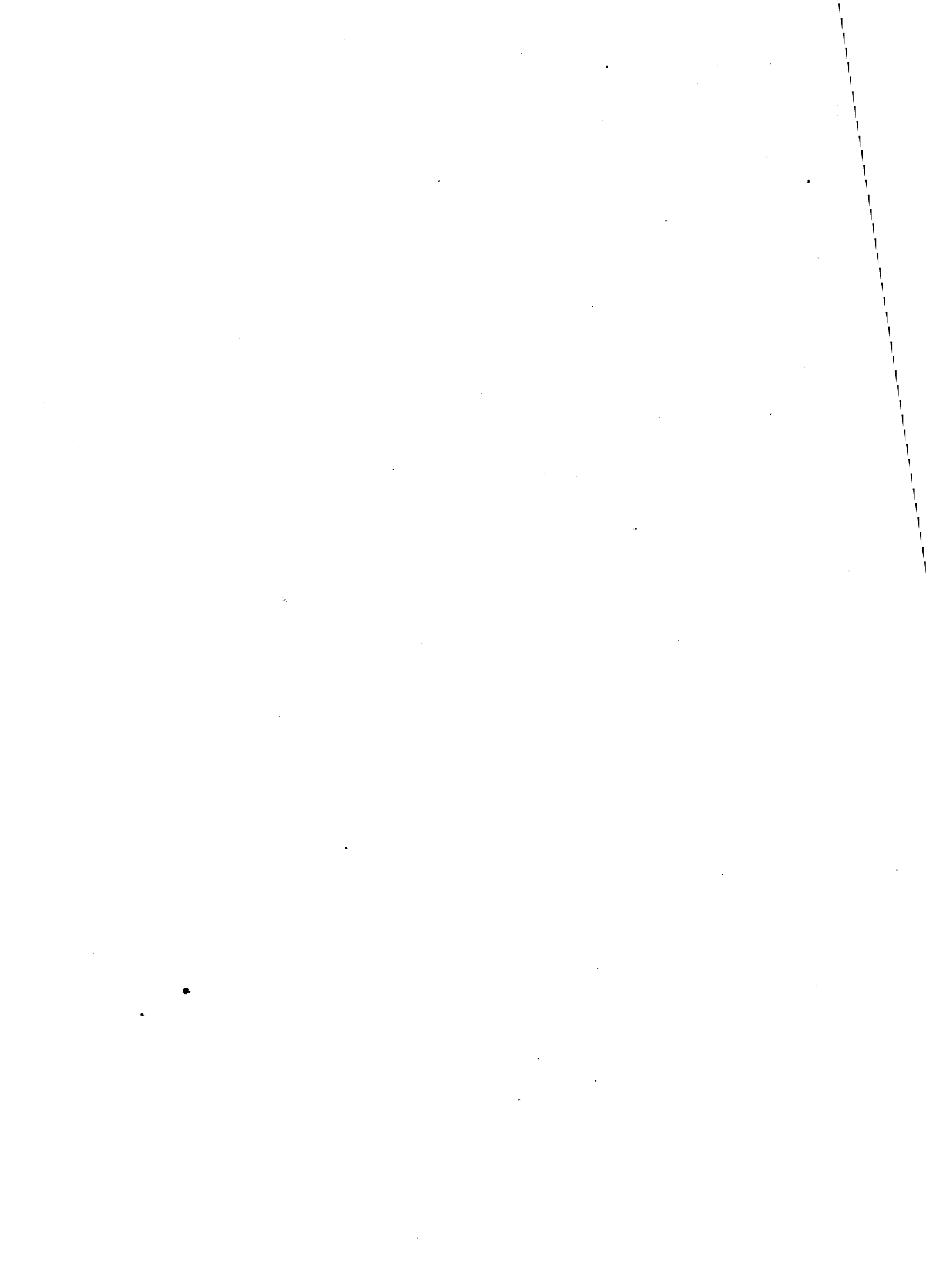
GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

CLOUD FORMS (*)

| | | | |
|--------------|---------------|---------------|----------------|
| <i>Acu,</i> | Alto-cumulus | <i>Cu,</i> | Cumulus |
| <i>Ast,</i> | Alto-stratus | <i>Cum b,</i> | Cumulo-nimbus |
| <i>Ci,</i> | Cirrus | <i>Nbst,</i> | Nimbo-stratus |
| <i>Cicu,</i> | Cirro-cumulus | <i>St,</i> | Stratus |
| <i>Cist,</i> | Cirro-stratus | <i>Stcu,</i> | Strato-cumulus |
| | | <i>Fr,</i> | Fracto- |

ADDITIONAL SYMBOLS

| | | | |
|---------------|------------|---------------|------------|
| <i>lu-ha,</i> | lunar halo | <i>so-ha,</i> | solar halo |
| <i>prhn,</i> | parhelion | | |



ROYAL OBSERVATORY, GREENWICH.
ABINGER MAGNETIC STATION.

Results of Magnetic Observations

1939

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| January | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 55.4 | 56.4 | 56.9 | 57.0 | 56.9 | 56.7 | 56.4 | 55.8 | 54.8 | 55.5 | 56.5 | 57.3 | 58.6 | 57.3 | 56.2 | 56.0 | 57.1 | 57.6 | 57.5 | 56.9 | 56.7 | 56.2 | 55.9 | 56.3 | | | |
| 2 | 56.9 | 57.3 | 57.2 | 57.3 | 57.2 | 56.3 | 56.3 | 55.7 | 56.3 | 57.3 | 57.8 | 59.2 | 60.3 | 61.1 | 59.5 | 59.3 | 58.3 | 58.0 | 57.3 | 56.9 | 56.3 | 56.3 | 56.4 | 56.3 | | | |
| 3 * | 56.9 | 57.9 | 57.3 | 57.3 | 56.3 | 56.2 | 55.4 | 55.4 | 56.2 | 56.5 | 57.7 | 58.3 | 59.7 | 59.3 | 57.8 | 56.0 | 58.2 | 58.0 | 57.3 | 56.9 | 56.3 | 56.3 | 56.4 | 56.3 | | | |
| 4 | 56.8 | 57.3 | 57.3 | 57.3 | 57.3 | 56.5 | 56.0 | 54.9 | 54.7 | 54.9 | 56.5 | 56.3 | 59.3 | 58.8 | 56.3 | 56.3 | 58.8 | 58.6 | 58.3 | 57.3 | 56.5 | 56.3 | 57.3 | 56.7 | | | |
| 5 ** | 57.2 | 57.7 | 57.9 | 58.1 | 57.3 | 56.0 | 55.7 | 55.3 | 55.6 | 56.7 | 58.0 | 58.3 | 60.1 | 60.4 | 59.1 | 60.0 | 60.8 | 59.5 | 59.3 | 57.7 | 55.5 | 54.3 | 54.2 | 54.5 | | | |
| 6 | 55.3 | 55.4 | 55.6 | 56.2 | 56.1 | 56.2 | 56.1 | 55.2 | 54.6 | 55.4 | 57.3 | 59.0 | 60.5 | 61.1 | 59.1 | 59.3 | 60.6 | 59.3 | 59.9 | 57.1 | 55.3 | 52.3 | 54.4 | 54.5 | | | |
| 7 | 55.4 | 54.7 | 56.2 | 56.3 | 55.3 | 55.7 | 55.6 | 55.4 | 56.2 | 56.1 | 56.4 | 59.3 | 59.9 | 58.9 | 57.3 | 58.3 | 59.1 | 58.0 | 57.3 | 56.8 | 53.7 | 53.5 | 54.0 | 53.3 | | | |
| 8 | 53.2 | 54.5 | 53.9 | 54.6 | 55.7 | 56.0 | 55.2 | 54.8 | 55.3 | 55.7 | 56.6 | 58.3 | 58.9 | 57.9 | 58.9 | 59.8 | 59.3 | 59.3 | 57.7 | 57.2 | 52.9 | 55.2 | 54.7 | 53.4 | | | |
| 9 ** | 52.3 | 51.5 | 51.7 | 53.4 | 53.6 | 54.8 | 57.1 | 57.3 | 57.4 | 57.4 | 58.1 | 57.3 | 57.3 | 56.7 | 55.9 | 57.0 | 58.3 | 58.8 | 58.8 | 58.8 | 57.2 | 54.9 | 54.3 | 54.3 | | | |
| 10 | 54.6 | 54.8 | 54.8 | 55.4 | 55.8 | 55.7 | 55.6 | 55.7 | 56.1 | 56.8 | 57.8 | 60.3 | 60.3 | 59.0 | 58.3 | 57.8 | 57.5 | 57.5 | 57.3 | 56.5 | 53.8 | 53.6 | 55.3 | 54.1 | | | |
| 11 | 54.4 | 54.9 | 54.0 | 55.0 | 54.8 | 55.0 | 55.4 | 55.4 | 55.7 | 56.6 | 57.6 | 58.6 | 59.4 | 58.6 | 57.9 | 57.9 | 57.5 | 60.0 | 58.5 | 58.3 | 56.4 | 55.4 | 55.5 | 54.5 | | | |
| 12 | 53.4 | 54.4 | 55.8 | 55.2 | 56.1 | 56.1 | 56.0 | 55.4 | 55.8 | 56.8 | 57.4 | 58.4 | 60.0 | 58.7 | 57.4 | 57.2 | 58.0 | 58.0 | 57.4 | 56.7 | 56.4 | 56.0 | 55.8 | 56.4 | | | |
| 13 | 55.5 | 54.8 | 55.0 | 55.0 | 55.7 | 55.5 | 55.4 | 55.4 | 56.4 | 57.3 | 58.2 | 59.9 | 59.8 | 58.6 | 57.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 57.4 | 56.8 | 56.9 | 56.4 | 54.0 | | |
| 14 | 55.3 | 53.4 | 53.6 | 54.6 | 54.4 | 55.8 | 55.9 | 55.6 | 56.4 | 57.8 | 58.1 | 59.9 | 61.4 | 60.4 | 59.1 | 58.6 | 58.5 | 57.2 | 56.5 | 56.4 | 56.4 | 51.4 | 50.4 | 55.0 | | | |
| 15 | 56.4 | 56.6 | 56.4 | 57.6 | 57.6 | 56.8 | 56.6 | 55.6 | 57.2 | 56.6 | 57.4 | 59.0 | 60.6 | 61.0 | 60.0 | 58.4 | 57.6 | 56.9 | 56.7 | 56.0 | 56.0 | 56.3 | 56.4 | 56.4 | | | |
| 16 | 56.2 | 56.2 | 56.1 | 56.2 | 56.5 | 56.0 | 55.8 | 55.5 | 56.0 | 56.5 | 57.5 | 59.0 | 59.8 | 58.5 | 57.1 | 57.9 | 58.6 | 58.6 | 57.7 | 57.5 | 53.5 | 56.0 | 55.8 | 55.6 | | | |
| 17 ** | 54.0 | 53.5 | 51.0 | 54.5 | 55.9 | 57.5 | 56.9 | 56.5 | 55.5 | 55.0 | 56.0 | 57.5 | 59.9 | 58.8 | 59.0 | 57.5 | 57.3 | 57.5 | 56.5 | 56.0 | 54.9 | 51.9 | 55.5 | 55.2 | | | |
| 18 | 53.1 | 52.8 | 54.9 | 55.7 | 56.7 | 58.5 | 61.5 | 58.2 | 56.9 | 55.5 | 55.9 | 56.5 | 58.2 | 58.7 | 58.1 | 58.4 | 58.4 | 58.3 | 57.2 | 56.7 | 56.5 | 56.1 | 53.1 | 55.5 | | | |
| 19 | 58.0 | 56.4 | 56.2 | 56.6 | 56.7 | 56.6 | 56.0 | 55.5 | 55.5 | 55.3 | 56.5 | 58.9 | 57.9 | 58.4 | 58.4 | 58.4 | 58.1 | 58.1 | 57.5 | 56.5 | 55.5 | 54.5 | 53.9 | 52.5 | | | |
| 20 | 53.8 | 54.5 | 52.7 | 54.5 | 54.5 | 57.5 | 57.5 | 56.5 | 56.6 | 55.6 | 56.4 | 56.5 | 57.7 | 58.5 | 57.9 | 59.1 | 58.0 | 57.8 | 57.5 | 57.5 | 56.3 | 55.5 | 56.3 | 55.5 | | | |
| 21 ** | 53.8 | 53.7 | 56.2 | 56.5 | 57.1 | 56.5 | 56.5 | 56.5 | 56.9 | 56.5 | 58.5 | 58.5 | 60.5 | 59.5 | 60.5 | 60.1 | 60.5 | 58.1 | 50.5 | 56.7 | 58.9 | 55.8 | 56.0 | 56.2 | | | |
| 22 ** | 58.7 | 56.1 | 56.8 | 57.4 | 57.7 | 57.0 | 57.2 | 56.7 | 57.7 | 56.9 | 57.3 | 57.0 | 58.5 | 59.0 | 58.4 | 58.3 | 57.6 | 57.5 | 53.5 | 52.5 | 55.8 | 54.5 | 49.3 | 53.8 | | | |
| 23 | 52.4 | 55.0 | 54.8 | 56.4 | 56.5 | 57.5 | 56.7 | 56.5 | 56.8 | 56.9 | 58.9 | 59.4 | 59.5 | 59.5 | 57.5 | 57.0 | 58.0 | 57.4 | 56.5 | 56.5 | 56.9 | 54.9 | 54.5 | 55.7 | 56.0 | | |
| 24 | 56.1 | 56.4 | 56.1 | 56.5 | 57.0 | 56.6 | 56.5 | 55.5 | 55.5 | 54.5 | 55.0 | 56.5 | 59.1 | 58.9 | 58.0 | 57.4 | 57.1 | 57.5 | 56.8 | 56.3 | 55.7 | 55.5 | 54.1 | 54.7 | | | |
| 25 | 57.5 | 56.4 | 55.8 | 56.0 | 56.4 | 56.2 | 56.2 | 55.6 | 55.6 | 56.1 | 56.4 | 58.5 | 58.3 | 58.4 | 58.0 | 57.3 | 57.3 | 57.1 | 56.9 | 56.1 | 55.9 | 55.5 | 55.9 | 55.6 | | | |
| 26 * | 55.9 | 56.1 | 56.1 | 56.3 | 56.5 | 56.2 | 56.0 | 55.8 | 56.0 | 56.0 | 56.9 | 58.0 | 59.0 | 58.8 | 57.9 | 57.7 | 58.0 | 58.0 | 57.5 | 56.9 | 56.4 | 56.0 | 55.7 | 55.5 | | | |
| 27 * | 55.5 | 55.6 | 55.9 | 56.0 | 56.4 | 56.3 | 56.0 | 55.5 | 55.1 | 55.5 | 56.5 | 58.5 | 59.7 | 59.5 | 58.9 | 58.2 | 58.0 | 58.0 | 57.7 | 57.7 | 57.1 | 56.5 | 56.0 | 55.7 | 55.5 | | |
| 28 | 55.6 | 56.0 | 56.2 | 56.5 | 56.8 | 56.5 | 56.0 | 55.9 | 56.3 | 56.8 | 58.9 | 57.5 | 58.6 | 59.9 | 59.5 | 59.4 | 59.1 | 58.4 | 58.8 | 57.8 | 57.8 | 56.8 | 56.0 | 55.3 | 50.5 | | |
| 29 | 48.6 | 51.5 | 54.0 | 55.1 | 56.5 | 56.9 | 56.8 | 56.6 | 56.4 | 55.6 | 56.0 | 57.0 | 58.2 | 58.5 | 57.9 | 57.5 | 57.5 | 57.6 | 57.8 | 57.0 | 56.8 | 56.3 | 54.5 | 54.4 | | | |
| 30 * | 54.4 | 55.3 | 56.4 | 56.4 | 56.9 | 55.8 | 56.0 | 55.5 | 54.8 | 55.1 | 55.8 | 57.5 | 59.4 | 60.5 | 59.5 | 58.5 | 58.4 | 58.5 | 57.5 | 56.9 | 56.5 | 56.3 | 56.5 | 56.5 | | | |
| 31 | 56.5 | 56.3 | 56.3 | 57.0 | 55.8 | 55.8 | 55.8 | 55.1 | 55.1 | 55.5 | 56.5 | 56.8 | 59.2 | 59.1 | 59.0 | 58.5 | 58.1 | 58.1 | 57.4 | 56.7 | 56.6 | 56.5 | 56.5 | 55.6 | | | |
| Mean | 55.0 | 55.3 | 55.5 | 56.1 | 56.2 | 56.4 | 56.3 | 55.8 | 55.9 | 56.2 | 57.1 | 58.2 | 59.3 | 59.1 | 58.3 | 58.2 | 58.4 | 58.1 | 57.2 | 56.7 | 55.9 | 55.2 | 55.1 | 55.0 | | | |
| Mean * | 55.6 | 56.3 | 56.5 | 56.6 | 56.4 | 56.2 | 56.0 | 55.6 | 55.4 | 55.7 | 56.7 | 57.9 | 59.3 | 59.0 | 58.1 | 57.7 | 57.9 | 58.0 | 57.5 | 56.9 | 56.5 | 56.2 | 56.0 | 56.0 | | | |
| Mean ** | 54.8 | 54.5 | 54.7 | 56.0 | 56.3 | 56.4 | 56.7 | 56.5 | 56.6 | 56.9 | 57.6 | 57.7 | 59.3 | 58.8 | 58.6 | 58.6 | 58.9 | 58.3 | 55.7 | 56.0 | 56.3 | 54.3 | 53.9 | 54.8 | | | |
| February | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 55.5 | 54.7 | 54.5 | 54.8 | 55.1 | 55.3 | 55.4 | 55.2 | 55.8 | 56.5 | 57.1 | 58.3 | 61.0 | 61.2 | 61.9 | 61.7 | 60.7 | 59.7 | 60.0 | 60.1 | 57.7 | 53.5 | 49.1 | 47.5 | | | |
| 2 | 54.1 | 52.5 | 48.5 | 52.1 | 53.8 | 53.7 | 54.0 | 55.5 | 55.5 | 56.5 | 58.1 | 58.5 | 58.3 | 59.4 | 58.5 | 57.7 | 58.5 | 60.7 | 52.5 | 58.1 | 56.6 | 54.3 | 49.5 | 53.0 | | | |
| 3 | 53.6 | 52.7 | 52.2 | 50.5 | 49.5 | 51.5 | 52.7 | 54.0 | 55.3 | 56.0 | 57.2 | 58.2 | 60.6 | 60.9 | 60.0 | 60.4 | 61.0 | 60.5 | 60.3 | 59.3 | 59.1 | 53.0 | 55.0 | 54.6 | | | |
| 4 | 53.1 | 53.3 | 53.5 | 54.4 | 55.5 | 54.5 | 54.5 | 55.5 | 55.0 | 55.3 | 57.1 | 56.9 | 58.3 | 58.1 | 58.8 | 58.1 | 57.9 | 57.6 | 58.0 | 56.5 | 56.3 | 55.3 | 54.9 | 54.1 | | | |
| 5 | 53.4 | 54.0 | 53.0 | 54.0 | 54.1 | 54.0 | 53.9 | 54.4 | 55.1 | 56.5 | 57.2 | 58.5 | 57.3 | 58.2 | 58.7 | 59.0 | 59.2 | 57.5 | 58.4 | 57.8 | 56.9 | 55.9 | 53.7 | 54.9 | | | |
| 6 ** | 53.7 | 52.9 | 53.5 | 55.3 | 53.6 | 54.7 | 60.0 | 55.0 | 55.0 | 55.9 | 58.3 | 58.9 | 58.8 | 61.9 | 58.5 | 57.6 | 54.6 | 55.5 | 58.5 | 55.5 | 51.9 | 50.0 | 48.6 | 46.3 | | | |
| 7 ** | 43.3 | 42.0 | 39.9 | 43.9 | 49.0 | 52.0 | 54.5 | 55.9 | 58.0 | 59.0 | 58.3 | 58.8 | 60.5 | 61.1 | 61.4 | 59.2 | 58.5 | 61.1 | 57.4 | 54.5 | 56.5 | 54.2 | 53.3 | 52.9 | | | |
| 8 | 51.5 | 51.5 | 52.6 | 54.2 | 54.9 | 54.8 | 55.4 | 55.6 | 55.9 | 55.5 | 55.2 | 55.0 | 56.1 | 57.9 | 58.2 | 58.0 | 58.0 | 58.1 | 57.9 | 56.9 | 58.0 | 54.7 | 50.7 | 51.4 | | | |
| 9 | 52.8 | 52.8 | 52.5 | 53.0 | 54.4 | 54.5 | 55.0 | 55.6 | 56.0 | 56.4 | 56.5 | 60.0 | 60.1 | 61.1 | 58.9 | 58.4 | 58.8 | 58.0 | 54.3 | 58.4 | 57.5 | 52.5 | 53.8 | 50.7 | | | |
| 10 | 50.0 | 52.5 | 51.9 | 51.1 | 52.5 | 53.6 | 55.1 | 55.3 | 54.9 | 55.0 | 55.8 | 57.4 | 60.8 | 61.0 | 61.9 | 60.5 | 59.9 | 56.7 | 56.5 | 56.3 | 55.5 | 55.9 | 55.2 | 53.5 | | | |
| 11 | 52.2 | 52.9 | 57.4 | 54.5 | 53.4 | 54.8 | 56.1 | 56.1 | 56.5 | 57.0 | 58.2 | 58.5 | 60.1 | 60.8 | 60.8 | 58.5 | 56.9 | 56.3 | 54.9 | 54.9 | 55.1 | 55.1 | 55.0 | 55.0 | | | |
| 12 * | 55.3 | 55.5 | 55.2 | 54.5 | 54.6 | 54.9 | 55.0 | 55.1 | 55.5 | 55.7 | 56.0 | 56.9 | 58.3 | 58.5 | 58.4 | 58.1 | 58.0 | 57.5 | 57.0 | 56.5 | 56.0 | 55.5 | 55.5 | 55.5 | | | |
| 13 * | 55.4 | 55.1 | 55.4 | 55.4 | 55.4 | 55.3 | 55.3 | 55.4 | 55.1 | 54.5 | 55.3 | 57.0 | 58.1 | 58.6 | 58.5 | 58.1 | 58.0 | 57.5 | 57.8 | 57.0 | 56.5 | 53.2 | 53.1 | 55.6 | | | |
| 14 | 58.0 | 55.6 | 55.9 | 55.5 | 55.5 | 55.1 | 54.8 | 55.9 | 55.0 | 54.4 | 55.2 | 56.7 | 57.1 | 57.5 | 57.3 | 56.9 | 56.4 | 56.5 | 56.5 | 54.7 | 55.8 | 56.0 | 56.0 | 56.1 | | | |
| 15 | 55.5 | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

Table with columns for U.T. (0h to 24h) and rows for March and April. Each row contains 24 data points representing magnetic declination. Includes sub-headers for '10° + Tabular Quantities' and summary rows for 'Mean', 'Mean *', and 'Mean **'.

* International Quiet Day. ** International Disturbed Day. : Low Weight.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 53.4 | 53.5 | 54.4 | 52.7 | 51.0 | 49.0 | 46.4 | 45.8 | 47.5 | 51.0 | 58.2 | 62.7 | 68.4 | 69.9 | 65.6 | 62.9 | 63.4 | 58.0 | 56.4 | 53.2 | 49.4 | 46.4 | 48.7 | 50.3 | | | | | |
| 2 ** | 50.4 | 44.4 | 44.4 | 49.7 | 48.1 | 51.9 | 49.5 | 58.1 | 54.4 | 50.4 | 54.4 | 56.4 | 60.6 | 58.8 | 57.6 | 58.4 | 54.9 | 52.9 | 52.7 | 50.6 | 48.6 | 50.4 | 49.9 | 50.4 | | | | | |
| 3 | 51.1 | 54.0 | 49.6 | 48.4 | 49.7 | 47.7 | 48.2 | 47.9 | 49.4 | 52.4 | 54.0 | 55.6 | 58.7 | 59.0 | 58.4 | 55.4 | 53.4 | 52.8 | 52.5 | 51.4 | 49.7 | 52.2 | 53.9 | 54.4 | | | | | |
| 4 | 50.3 | 51.6 | 51.2 | 50.6 | 48.8 | 48.1 | 47.2 | 45.7 | 45.9 | 47.3 | 49.3 | 55.8 | 58.3 | 59.3 | 58.3 | 56.6 | 55.3 | 54.3 | 54.3 | 52.8 | 53.2 | 54.2 | 53.7 | 53.3 | | | | | |
| 5 | 52.8 | 53.2 | 53.2 | 53.2 | 52.5 | 53.2 | 52.9 | 49.8 | 47.7 | 49.2 | 51.7 | 54.8 | 58.6 | 61.2 | 61.0 | 59.6 | 57.3 | 56.2 | 56.2 | 55.3 | 55.7 | 58.5 | 57.1 | 53.6 | | | | | |
| 6 ** | 54.3 | 51.3 | 51.1 | 50.2 | 48.4 | 46.2 | 45.2 | 47.0 | 47.0 | 49.2 | 51.7 | 56.6 | 51.5 | 54.3 | 52.1 | 53.3 | 58.2 | 57.2 | 54.2 | 52.8 | 49.7 | 50.2 | 47.2 | 47.2 | | | | | |
| 7 ** | 48.1 | 51.9 | 45.3 | 45.3 | 55.8 | 54.8 | 48.3 | 52.3 | 52.3 | 53.1 | 53.9 | 58.3 | 59.4 | 59.4 | 57.7 | 54.6 | 54.9 | 55.4 | 56.4 | 54.2 | 53.0 | 53.2 | 52.9 | 50.5 | | | | | |
| 8 ** | 57.8 | 54.6 | 49.6 | 50.0 | 48.5 | 49.5 | 51.7 | 54.5 | 54.5 | 51.5 | 53.7 | 54.5 | 56.6 | 58.6 | 58.6 | 56.6 | 56.7 | 58.3 | 53.2 | 52.1 | 52.8 | 50.5 | 51.5 | 51.6 | | | | | |
| 9 | 48.6 | 49.8 | 49.7 | 54.6 | 48.4 | 49.1 | 49.5 | 50.5 | 50.5 | 53.0 | 53.6 | 54.8 | 56.6 | 58.3 | 57.1 | 56.0 | 54.1 | 51.6 | 54.0 | 54.5 | 54.0 | 53.6 | 53.4 | 52.2 | | | | | |
| 10 | 52.2 | 53.8 | 53.0 | 52.6 | 51.6 | 50.5 | 49.5 | 48.6 | 49.2 | 50.5 | 53.1 | 55.4 | 56.5 | 57.6 | 57.2 | 57.2 | 56.6 | 53.6 | 53.5 | 54.4 | 54.5 | 54.2 | 53.6 | 52.7 | | | | | |
| 11 * | 52.6 | 51.6 | 50.6 | 50.2 | 49.6 | 49.6 | 49.0 | 48.9 | 50.1 | 51.1 | 53.2 | 55.6 | 55.4 | 55.6 | 54.6 | 54.3 | 54.0 | 53.8 | 53.5 | 53.7 | 53.6 | 54.0 | 53.9 | 53.6 | | | | | |
| 12 * | 52.7 | 52.1 | 51.6 | 51.2 | 50.9 | 49.6 | 48.4 | 48.6 | 48.8 | 50.6 | 52.6 | 55.6 | 57.5 | 58.2 | 57.8 | 57.0 | 56.0 | 54.6 | 53.3 | 54.2 | 54.6 | 54.4 | 54.4 | 53.4 | | | | | |
| 13 * | 53.0 | 52.4 | 52.1 | 51.4 | 50.2 | 49.6 | 49.2 | 50.5 | 53.1 | 52.7 | 54.1 | 56.6 | 59.1 | 57.6 | 57.8 | 56.6 | 56.2 | 55.3 | 54.2 | 53.8 | 53.1 | 51.8 | 52.4 | 53.4 | | | | | |
| 14 * | 53.1 | 52.9 | 52.8 | 52.1 | 51.1 | 49.6 | 50.1 | 50.3 | 50.6 | 52.1 | 54.6 | 57.6 | 59.3 | 59.3 | 58.6 | 57.9 | 57.4 | 55.6 | 54.6 | 54.6 | 54.6 | 54.4 | 54.4 | 53.1 | | | | | |
| 15 | 52.6 | 52.1 | 51.6 | 50.6 | 49.6 | 49.2 | 48.4 | 46.6 | 47.6 | 50.4 | 53.6 | 57.6 | 60.2 | 62.2 | 60.6 | 59.0 | 56.6 | 55.1 | 54.4 | 54.0 | 53.5 | 53.0 | 52.9 | 54.6 | | | | | |
| 16 | 52.6 | 50.9 | 47.9 | 53.0 | 50.3 | 47.8 | 47.1 | 45.6 | 52.6 | 55.0 | 54.4 | 56.7 | 59.6 | 58.1 | 56.6 | 54.8 | 53.7 | 52.9 | 52.6 | 52.6 | 53.1 | 53.2 | 52.2 | 52.2 | | | | | |
| 17 | 51.6 | 51.8 | 51.3 | 51.0 | 48.6 | 46.6 | 45.6 | 46.4 | 47.2 | 49.2 | 52.2 | 56.4 | 59.6 | 60.3 | 59.8 | 57.9 | 55.6 | 53.4 | 50.4 | 48.2 | 51.9 | 53.1 | 51.6 | 52.6 | | | | | |
| 18 | 51.5 | 48.5 | 48.9 | 47.5 | 45.0 | 44.9 | 45.5 | 45.5 | 47.5 | 50.5 | 55.5 | 59.5 | 64.0 | 64.1 | 62.3 | 59.5 | 56.5 | 53.3 | 52.6 | 52.7 | 53.0 | 52.8 | 50.5 | 49.4 | | | | | |
| 19 | 47.1 | 46.2 | 46.6 | 48.0 | 48.1 | 48.5 | 50.4 | 48.1 | 49.4 | 51.4 | 54.0 | 58.4 | 61.1 | 61.5 | 60.8 | 58.7 | 57.4 | 55.5 | 51.9 | 51.9 | 52.5 | 51.9 | 47.5 | 49.0 | | | | | |
| 20 | 48.1 | 47.3 | 47.3 | 50.3 | 54.3 | 53.7 | 48.5 | 47.8 | 46.7 | 48.7 | 53.0 | 58.5 | 61.4 | 63.0 | 62.8 | 61.4 | 57.3 | 54.7 | 53.9 | 52.9 | 51.6 | 52.5 | 53.4 | 51.5 | | | | | |
| 21 | 47.5 | 48.8 | 49.3 | 47.9 | 47.1 | 47.1 | 46.5 | 45.7 | 45.9 | 46.7 | 50.3 | 55.5 | 60.6 | 64.4 | 65.0 | 62.5 | 61.0 | 57.5 | 53.4 | 51.0 | 51.1 | 52.7 | 48.2 | 50.5 | | | | | |
| 22 | 50.2 | 47.0 | 47.5 | 50.6 | 49.7 | 50.8 | 48.2 | 46.5 | 46.9 | 52.4 | 54.9 | 57.1 | 61.8 | 62.5 | 62.9 | 60.5 | 57.8 | 56.5 | 54.6 | 54.2 | 54.3 | 54.5 | 51.6 | 44.5 | | | | | |
| 23 | 47.9 | 49.1 | 49.0 | 46.5 | 47.5 | 46.9 | 47.5 | 46.7 | 47.7 | 49.5 | 52.5 | 54.6 | 57.9 | 58.5 | 58.0 | 56.5 | 57.0 | 55.0 | 51.1 | 51.2 | 51.2 | 50.6 | 51.4 | 47.7 | | | | | |
| 24 | 49.0 | 48.5 | 51.8 | 46.9 | 49.6 | 47.1 | 50.1 | 49.0 | 49.1 | 50.5 | 52.5 | 54.0 | 56.8 | 58.0 | 60.7 | 59.2 | 57.5 | 55.9 | 55.6 | 50.8 | 49.6 | 47.0 | 49.0 | 51.3 | | | | | |
| 25 | 54.0 | 48.4 | 48.3 | 50.4 | 47.3 | 46.9 | 47.5 | 47.3 | 48.0 | 49.9 | 53.6 | 55.5 | 57.1 | 57.9 | 60.0 | 56.5 | 54.5 | 54.5 | 54.5 | 54.5 | 51.0 | 49.9 | 52.0 | 50.3 | | | | | |
| 26 | 51.0 | 52.5 | 46.6 | 46.5 | 48.8 | 50.0 | 49.2 | 51.0 | 52.1 | 53.5 | 55.0 | 56.7 | 58.1 | 59.5 | 59.0 | 56.8 | 54.0 | 54.0 | 53.5 | 51.2 | 52.0 | 52.8 | 51.7 | 49.8 | | | | | |
| 27 | 50.5 | 51.2 | 52.0 | 49.5 | 48.6 | 49.8 | 47.4 | 47.0 | 47.5 | 48.5 | 51.1 | 54.3 | 57.3 | 58.8 | 58.1 | 56.6 | 53.5 | 52.3 | 51.5 | 52.0 | 53.0 | 53.5 | 56.0 | 48.1 | | | | | |
| 28 | 46.6 | 49.0 | 45.9 | 44.0 | 42.7 | 42.6 | 42.2 | 43.4 | 50.0 | 51.5 | 55.5 | 59.6 | 60.2 | 60.0 | 58.9 | 57.2 | 55.5 | 54.1 | 53.7 | 53.8 | 53.7 | 53.8 | 52.6 | 51.5 | | | | | |
| 29 | 48.5 | 43.6 | 42.2 | 37.7 | 42.5 | 42.4 | 42.6 | 43.1 | 51.6 | 55.6 | 58.4 | 59.1 | 61.6 | 59.0 | 58.1 | 57.1 | 57.2 | 56.6 | 53.1 | 52.8 | 52.5 | 51.3 | 54.5 | 53.4 | | | | | |
| 30 | 53.1 | 52.7 | 52.9 | 51.2 | 50.4 | 48.6 | 49.2 | 50.1 | 50.8 | 52.8 | 54.1 | 58.1 | 59.6 | 60.6 | 58.6 | 56.6 | 54.6 | 54.2 | 53.2 | 52.4 | 53.2 | 53.6 | 53.5 | 53.4 | | | | | |
| 31 * | 52.5 | 52.5 | 51.7 | 51.7 | 50.4 | 48.6 | 45.2 | 45.4 | 47.0 | 48.0 | 50.7 | 55.5 | 59.1 | 60.6 | 60.2 | 58.5 | 58.5 | 54.5 | 53.1 | 53.0 | 53.0 | 51.9 | 49.7 | 51.5 | | | | | |
| Mean | 51.1 | 50.6 | 49.7 | 49.5 | 49.2 | 48.6 | 47.9 | 48.1 | 49.3 | 50.9 | 53.4 | 56.7 | 59.1 | 59.9 | 59.1 | 57.6 | 56.3 | 54.8 | 53.6 | 52.8 | 52.5 | 52.5 | 52.1 | 51.3 | | | | | |
| Mean * | 52.8 | 52.3 | 51.8 | 51.3 | 50.4 | 49.0 | 48.4 | 48.7 | 49.9 | 50.9 | 53.0 | 56.2 | 58.1 | 58.3 | 57.8 | 56.9 | 56.0 | 54.8 | 53.7 | 53.9 | 53.8 | 53.3 | 53.0 | 53.0 | | | | | |
| Mean ** | 52.8 | 51.1 | 49.0 | 49.6 | 50.4 | 50.3 | 48.2 | 51.1 | 51.1 | 51.0 | 54.0 | 57.7 | 59.3 | 60.2 | 57.9 | 57.0 | 57.6 | 56.0 | 54.4 | 52.6 | 50.7 | 50.1 | 50.0 | 50.0 | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 52.8 | 53.4 | 51.4 | 50.2 | 49.5 | 47.1 | 44.4 | 43.6 | 44.1 | 46.2 | 50.3 | 54.1 | 57.5 | 59.0 | 60.4 | 60.3 | 58.9 | 59.1 | 57.5 | 56.4 | 54.5 | 53.0 | 53.1 | 53.3 | | | | | |
| 2 | 53.7 | 49.4 | 52.4 | 52.4 | 52.4 | 48.8 | 45.4 | 44.1 | 46.1 | 48.3 | 50.9 | 55.2 | 58.4 | 59.3 | 59.8 | 58.8 | 56.0 | 55.4 | 55.3 | 54.0 | 53.7 | 54.4 | 52.4 | 53.0 | | | | | |
| 3 | 52.6 | 52.4 | 51.9 | 50.2 | 50.1 | 48.9 | 46.9 | 47.0 | 48.5 | 48.8 | 52.4 | 55.4 | 57.2 | 58.4 | 58.3 | 56.9 | 54.8 | 52.3 | 52.0 | 51.9 | 52.4 | 51.4 | 52.9 | 53.2 | | | | | |
| 4 | 54.9 | 55.9 | 53.1 | 52.1 | 52.9 | 51.6 | 46.6 | 46.9 | 46.4 | 48.5 | 49.5 | 52.8 | 57.9 | 60.3 | 60.4 | 58.6 | 54.8 | 53.9 | 52.7 | 52.3 | 52.9 | 53.0 | 53.1 | 53.6 | | | | | |
| 5 | 53.9 | 53.4 | 53.8 | 54.5 | 51.4 | 49.7 | 46.4 | 45.0 | 47.2 | 49.2 | 52.5 | 56.4 | 60.3 | 61.4 | 62.1 | 59.4 | 57.4 | 54.4 | 53.4 | 53.4 | 53.4 | 53.4 | 52.7 | 52.4 | | | | | |
| 6 | 50.6 | 51.8 | 52.9 | 53.4 | 53.9 | 51.4 | 47.9 | 45.4 | 44.4 | 46.4 | 49.4 | 53.9 | 56.5 | 58.7 | 59.4 | 58.4 | 56.3 | 54.1 | 52.6 | 52.9 | 53.4 | 53.5 | 52.9 | 53.3 | | | | | |
| 7 * | 54.2 | 53.3 | 51.9 | 50.7 | 49.4 | 47.8 | 46.4 | 45.0 | 45.1 | 47.4 | 50.5 | 55.0 | 57.2 | 57.4 | 56.6 | 56.4 | 54.9 | 54.0 | 53.4 | 53.4 | 54.3 | 53.7 | 53.4 | 53.3 | | | | | |
| 8 * | 52.4 | 53.0 | 53.4 | 50.9 | 49.9 | 47.9 | 45.9 | 46.7 | 48.9 | 50.5 | 53.3 | 55.4 | 57.5 | 58.5 | 58.9 | 58.5 | 57.8 | 56.0 | 54.1 | 53.3 | 53.3 | 53.4 | 53.4 | 53.3 | | | | | |
| 9 * | 52.8 | 52.4 | 51.7 | 51.2 | 50.6 | 49.7 | 48.1 | 45.5 | 45.6 | 47.3 | 50.3 | 55.1 | 55.3 | 56.6 | 57.3 | 57.3 | 56.3 | 54.8 | 53.6 | 53.3 | 53.4 | 53.7 | 54.2 | 54.2 | | | | | |
| 10 | 52.2 | 52.1 | 51.2 | 51.9 | 49.3 | 46.3 | 45.4 | 44.4 | 45.4 | 47.7 | 50.5 | 54.3 | 56.8 | 58.3 | 58.7 | 58.3 | 57.2 | 56.4 | 55.5 | 55.3 | 55.9 | 55.5 | 55.0 | 54.2 | | | | | |
| 11 * | 52.9 | 52.8 | 51.9 | 52.1 | 50.5 | 49.2 | 47.4 | 46.3 | 46.3 | 48.2 | 50.1 | 52.8 | 55.2 | 56.7 | 57.7 | 57.2 | 55.9 | 53.4 | 53.1 | 53.3 | 53.6 | 52.6 | 53.0 | 53.3 | | | | | |
| 12 | 52.0 | 52.3</ | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

Table with columns for U.T. (0h to 24h) and rows for July and August. Each row contains 24 values representing magnetic declination. Includes sub-headers '10° + Tabular Quantities' and summary rows for 'Mean', 'Mean *', and 'Mean **'. Asterisks indicate International Quiet Day or International Disturbed Day.

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | | | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|------|------|------|
| September | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 49.0 | 48.8 | 48.5 | 48.5 | 48.2 | 46.9 | 45.5 | 44.5 | 44.5 | 47.7 | 51.5 | 54.9 | 57.4 | 58.7 | 58.4 | 55.1 | 52.0 | 50.7 | 50.8 | 50.8 | 50.5 | 50.2 | 49.8 | 49.4 | 49.2 | 49.1 | 48.9 | 48.8 | 47.8 | 46.4 |
| 2 | 49.2 | 49.1 | 48.9 | 48.8 | 47.8 | 46.4 | 43.5 | 43.4 | 44.5 | 47.8 | 51.2 | 55.2 | 59.1 | 60.4 | 58.5 | 56.2 | 53.6 | 51.5 | 52.1 | 52.3 | 51.9 | 51.0 | 48.4 | 47.3 | 45.9 | 43.4 | 40.4 | 36.0 | 40.7 | 43.4 |
| 3 ** | 45.9 | 43.4 | 40.4 | 36.0 | 40.7 | 43.4 | 39.1 | 40.1 | 41.1 | 43.9 | 47.8 | 52.4 | 56.0 | 57.7 | 57.0 | 54.6 | 51.1 | 51.1 | 51.5 | 51.9 | 51.9 | 46.1 | 48.9 | 48.7 | 47.5 | 47.1 | 46.4 | 46.3 | 46.1 | 42.9 |
| 4 | 47.4 | 45.4 | 42.1 | 45.7 | 46.9 | 46.7 | 45.3 | 44.6 | 45.0 | 46.8 | 50.2 | 54.9 | 56.8 | 57.4 | 56.9 | 53.9 | 51.4 | 50.6 | 51.4 | 51.7 | 50.9 | 50.4 | 49.6 | 49.2 | 49.0 | 48.9 | 48.9 | 48.5 | 48.3 | 47.7 |
| 5 * | 49.0 | 48.9 | 48.9 | 48.5 | 48.3 | 47.7 | 46.8 | 46.3 | 46.5 | 46.8 | 48.9 | 53.4 | 56.0 | 56.3 | 55.0 | 53.4 | 52.4 | 52.0 | 52.1 | 50.5 | 50.6 | 50.5 | 49.8 | 45.2 | 46.2 | 48.3 | 48.5 | 49.4 | 48.1 | 45.8 |
| 6 | 43.7 | 46.4 | 47.7 | 48.1 | 48.0 | 47.3 | 45.9 | 46.5 | 47.5 | 48.4 | 51.5 | 56.2 | 58.6 | 57.9 | 56.2 | 54.4 | 52.2 | 51.0 | 51.0 | 50.4 | 49.1 | 49.4 | 49.8 | 47.0 | 46.2 | 48.3 | 48.5 | 49.4 | 48.1 | 45.8 |
| 7 | 46.2 | 48.3 | 48.5 | 49.4 | 48.1 | 45.8 | 44.0 | 43.4 | 44.4 | 47.8 | 52.1 | 56.0 | 59.3 | 58.7 | 56.4 | 55.4 | 53.0 | 51.3 | 50.8 | 51.0 | 50.4 | 50.1 | 49.7 | 49.7 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 |
| 8 | 49.6 | 49.6 | 49.9 | 48.9 | 48.5 | 47.4 | 45.5 | 44.4 | 44.4 | 46.8 | 50.0 | 55.0 | 57.8 | 58.3 | 58.0 | 56.4 | 54.1 | 53.4 | 53.4 | 52.9 | 52.0 | 51.2 | 50.3 | 48.9 | 47.5 | 47.1 | 46.4 | 46.3 | 46.1 | 42.9 |
| 9 * | 47.5 | 47.1 | 46.4 | 46.3 | 46.1 | 42.9 | 42.4 | 47.1 | 46.6 | 47.7 | 52.7 | 58.4 | 60.5 | 60.6 | 57.6 | 57.2 | 54.4 | 52.7 | 51.2 | 49.2 | 45.9 | 45.6 | 47.7 | 49.8 | 49.7 | 48.5 | 48.5 | 49.4 | 48.9 | 49.9 |
| 10 | 49.7 | 48.5 | 51.0 | 48.7 | 45.0 | 45.4 | 44.4 | 44.9 | 46.1 | 47.8 | 50.7 | 53.7 | 56.8 | 60.1 | 59.0 | 56.3 | 53.7 | 52.0 | 51.3 | 47.9 | 47.4 | 49.9 | 49.9 | 49.9 | 49.7 | 48.5 | 48.5 | 49.4 | 48.9 | 49.9 |
| 11 | 48.4 | 49.4 | 49.1 | 47.4 | 46.6 | 45.6 | 44.7 | 45.4 | 45.9 | 47.5 | 50.9 | 55.2 | 58.0 | 58.3 | 55.0 | 52.4 | 50.4 | 49.8 | 50.0 | 49.5 | 49.4 | 49.9 | 50.0 | 49.0 | 48.6 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| 12 | 48.6 | 48.0 | 47.5 | 48.7 | 46.2 | 45.3 | 43.8 | 43.9 | 44.0 | 47.5 | 52.1 | 55.9 | 58.0 | 57.8 | 55.6 | 53.6 | 51.4 | 50.3 | 50.2 | 49.0 | 50.2 | 46.9 | 48.4 | 49.3 | 48.9 | 49.0 | 48.9 | 48.4 | 47.5 | 46.4 |
| 13 | 48.9 | 49.0 | 48.9 | 48.4 | 47.5 | 46.4 | 45.4 | 44.4 | 44.5 | 47.4 | 51.9 | 56.2 | 57.3 | 55.6 | 53.0 | 50.8 | 49.7 | 49.8 | 50.4 | 49.9 | 49.8 | 50.1 | 49.4 | 45.1 | 47.2 | 47.9 | 47.8 | 48.4 | 45.3 | 45.5 |
| 14 | 47.2 | 47.9 | 47.8 | 48.4 | 45.3 | 45.5 | 43.5 | 41.5 | 43.4 | 46.9 | 51.2 | 56.8 | 60.4 | 61.1 | 60.0 | 57.7 | 54.4 | 51.4 | 50.4 | 49.5 | 49.5 | 48.9 | 47.4 | 48.7 | 48.9 | 48.8 | 48.4 | 47.9 | 47.4 | 46.7 |
| 15 | 48.9 | 48.8 | 48.4 | 47.9 | 47.2 | 46.5 | 45.6 | 44.9 | 45.4 | 46.9 | 50.0 | 54.0 | 56.4 | 56.4 | 55.4 | 53.2 | 52.1 | 51.8 | 51.8 | 50.8 | 50.4 | 49.9 | 47.4 | 43.2 | 48.9 | 48.8 | 48.4 | 47.9 | 47.2 | 46.5 |
| 16 | 45.6 | 47.3 | 47.3 | 47.4 | 47.4 | 46.9 | 45.7 | 45.4 | 45.0 | 46.4 | 49.9 | 54.9 | 57.4 | 57.9 | 55.7 | 53.8 | 52.1 | 51.6 | 49.0 | 49.0 | 50.1 | 49.0 | 49.2 | 48.9 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 17 ** | 49.4 | 50.5 | 47.9 | 48.5 | 51.0 | 48.8 | 48.8 | 42.4 | 42.4 | 44.0 | 48.8 | 55.4 | 59.5 | 60.6 | 60.1 | 59.7 | 61.1 | 53.8 | 49.7 | 36.7 | 41.5 | 42.6 | 43.1 | 45.8 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 18 | 45.6 | 45.7 | 46.0 | 46.4 | 46.3 | 45.6 | 44.8 | 44.2 | 44.3 | 45.6 | 47.8 | 51.4 | 54.4 | 55.2 | 54.9 | 53.1 | 52.3 | 50.9 | 50.3 | 49.3 | 49.2 | 49.1 | 48.7 | 48.6 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 19 ** | 48.2 | 48.4 | 49.5 | 47.7 | 46.7 | 50.2 | 49.4 | 48.2 | 50.4 | 52.4 | 54.8 | 58.5 | 58.1 | 58.7 | 59.2 | 52.7 | 54.1 | 54.2 | 51.4 | 49.3 | 45.4 | 46.4 | 43.7 | 39.3 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 20 ** | 42.8 | 41.9 | 38.1 | 50.1 | 48.5 | 48.1 | 48.8 | 48.6 | 48.2 | 48.4 | 51.7 | 53.1 | 54.9 | 54.3 | 53.7 | 53.0 | 51.6 | 48.7 | 44.6 | 45.4 | 47.9 | 48.8 | 48.7 | 48.8 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 21 | 48.0 | 47.3 | 48.4 | 49.4 | 47.9 | 48.0 | 46.3 | 45.9 | 46.0 | 49.4 | 50.4 | 53.6 | 57.5 | 56.4 | 54.4 | 52.9 | 51.5 | 51.0 | 49.7 | 50.4 | 46.3 | 48.8 | 48.7 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| 22 | 50.3 | 48.8 | 48.9 | 47.9 | 47.3 | 47.4 | 46.4 | 46.4 | 47.0 | 49.4 | 52.1 | 54.4 | 57.4 | 56.9 | 56.9 | 55.4 | 52.4 | 50.5 | 49.9 | 49.4 | 49.4 | 46.9 | 45.5 | 44.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| 23 | 47.6 | 48.4 | 48.3 | 48.3 | 47.8 | 47.6 | 47.0 | 45.3 | 44.7 | 45.0 | 47.3 | 51.4 | 52.4 | 54.0 | 53.9 | 52.6 | 51.3 | 50.5 | 50.4 | 49.9 | 49.6 | 45.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| 24 * | 47.4 | 47.5 | 45.8 | 44.1 | 44.4 | 46.3 | 47.4 | 46.0 | 46.3 | 47.4 | 51.8 | 54.6 | 57.4 | 57.4 | 55.3 | 51.8 | 50.1 | 49.0 | 48.8 | 48.8 | 48.9 | 49.4 | 49.1 | 48.6 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 25 | 47.9 | 47.7 | 47.6 | 47.5 | 47.4 | 47.4 | 45.9 | 44.2 | 42.9 | 44.3 | 49.5 | 53.7 | 56.0 | 56.6 | 55.9 | 55.4 | 54.6 | 53.5 | 52.2 | 51.8 | 50.4 | 49.4 | 48.2 | 46.3 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 26 | 45.3 | 45.7 | 40.2 | 36.8 | 40.8 | 43.5 | 44.4 | 43.8 | 44.5 | 47.9 | 50.7 | 53.6 | 56.4 | 57.8 | 56.3 | 53.2 | 51.0 | 50.4 | 48.6 | 46.6 | 48.1 | 48.5 | 50.5 | 48.7 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 27 | 48.0 | 47.5 | 47.4 | 48.2 | 46.2 | 46.4 | 45.4 | 43.8 | 43.1 | 45.0 | 48.1 | 52.4 | 55.3 | 55.8 | 55.4 | 54.1 | 52.4 | 50.1 | 49.8 | 50.4 | 47.6 | 48.3 | 48.6 | 49.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 28 * | 48.9 | 49.1 | 47.4 | 47.4 | 46.8 | 46.4 | 45.0 | 45.1 | 45.4 | 48.8 | 48.7 | 51.4 | 54.3 | 54.5 | 54.2 | 53.1 | 52.1 | 50.9 | 50.6 | 50.4 | 49.9 | 49.2 | 49.1 | 49.0 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 29 * | 48.4 | 48.3 | 47.7 | 47.6 | 47.1 | 46.6 | 45.4 | 43.9 | 43.4 | 45.4 | 48.2 | 52.3 | 55.4 | 57.4 | 57.1 | 55.7 | 53.3 | 51.7 | 51.4 | 50.6 | 49.7 | 49.6 | 49.6 | 49.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 30 | 48.3 | 47.9 | 47.4 | 47.3 | 47.2 | 47.2 | 45.3 | 43.1 | 41.5 | 42.7 | 47.6 | 54.3 | 59.0 | 59.9 | 59.1 | 56.5 | 53.8 | 52.6 | 51.4 | 48.3 | 48.1 | 45.3 | 43.9 | 42.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| Mean | 47.7 | 47.7 | 47.1 | 47.1 | 46.8 | 46.5 | 45.4 | 44.7 | 45.0 | 46.9 | 50.3 | 54.4 | 57.1 | 57.6 | 56.5 | 54.4 | 52.7 | 51.3 | 50.5 | 49.5 | 49.0 | 48.5 | 48.3 | 47.5 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| Mean * | 48.5 | 48.5 | 47.7 | 47.2 | 47.0 | 46.8 | 46.0 | 45.2 | 45.2 | 46.8 | 49.8 | 53.3 | 56.1 | 56.9 | 56.0 | 53.8 | 52.0 | 50.9 | 50.7 | 50.2 | 49.9 | 49.8 | 49.5 | 48.3 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| Mean ** | 46.8 | 46.3 | 44.5 | 45.7 | 46.6 | 46.7 | 45.7 | 45.3 | 45.7 | 47.3 | 51.1 | 55.6 | 57.8 | 58.4 | 57.5 | 55.4 | 54.5 | 52.1 | 49.7 | 46.5 | 46.5 | 45.9 | 46.4 | 46.5 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| October | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 43.5 | 45.5 | 42.9 | 44.7 | 45.8 | 46.5 | 45.4 | 44.1 | 43.8 | 45.1 | 47.5 | 50.6 | 53.5 | 54.8 | 54.6 | 53.6 | 52.5 | 51.4 | 51.2 | 51.7 | 51.1 | 49.6 | 46.7 | 47.9 | 47.8 | 48.1 | 48.1 | 47.8 | 47.4 | 46.6 |
| 2 | 47.8 | 48.1 | 48.1 | 47.7 | 47.8 | 47.4 | 46.2 | 44.2 | 43.1 | 43.8 | 47.4 | 51.1 | 54.1 | 55.3 | 55.6 | 54.6 | 53.1 | 52.6 | 52.1 | 51.1 | 50.1 | 49.6 | 49.1 | 48.6 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 3 ** | 48.2 | 48.1 | 48.3 | 49.0 | 49.1 | 48.3 | 47.0 | 45.6 | 44.0 | 49.0 | 51.1 | 55.1 | 58.1 | 61.1 | 59.6 | 59.1 | 56.1 | 50.5 | 51.1 | 40.8 | 43.5 | 47.1 | 44.1 | 41.9 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 4 ** | 39.3 | 35.3 | 43.1 | 36.1 | 36.9 | 43.8 | 43.8 | 43.1 | 42.8 | 44.8 | 47.4 | 50.2 | 55.1 | 55.1 | 55.9 | 54.9 | 52.7 | 51.1 | 48.5 | 46.5 | 48.1 | 47.5 | 47.9 | 47.7 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 5 | 48.0 | 46.0 | 46.0 | 46.1 | 47.3 | 47.7 | 47.3 | 45.0 | 45.0 | 47.0 | 52.0 | 54.6 | 56.4 | 56.4 | 55.7 | 53.6 | 51.7 | 50.6 | 49.6 | 38.0 | 45.3 | 48.7 | 48.4 | 46.6 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 6 | 41.0 | 37.8 | 40.1 | 39.8 | 46.8 | 51.9 | 46.7 | 45.2 | 45.0 | 48.5 | 51.1 | 53.0 | 54.6 | 53.8 | 53.0 | 51.7 | 48.8 | 47.8 | 50.3 | 49.0 | 44.7 | 48.8 | 49.0 | 48.7 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 7 | 47.7 | 47.1 | 47.0 | 47.0 | 47.0 | 47.0 | 45.9 | 44.7 | 44.4 | 45.5 | 48.7 | 52.6 | 54.8 | 53.5 | 53.0 | 53.2 | 51.9 | 51.8 | 46.7 | 42.3 | 42.1 | 44.9 | 46.4 | 46.0 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| 8 | 47.7 | 46.6 | 51.8 | 48.4 | 47.0 | 46.4 | 45.6 | 44.5 | 44.2 | 45.7 | 48.3 | 51.0 | 53.2 | 54.2 | | | | | | | | | | | | | | | | |

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|
| November | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 48.8 | 49.4 | 48.1 | 47.0 | 47.0 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 47.4 | 47.5 | 47.7 | 48.3 | 49.6 | 49.0 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 47.3 | 48.8 | 48.5 | 47.8 | 48.2 | 48.5 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 46.0 | 46.2 | 46.3 | 47.7 | 47.9 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 46.4 | 46.7 | 47.0 | 47.3 | 47.5 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 48.1 | 47.4 | 47.4 | 47.4 | 47.4 | 46.6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 44.3 | 44.8 | 45.5 | 47.0 | 47.2 | 47.3 | | | | | | | | | | | | | | | | | | | | | | |
| 8 * | 48.1 | 48.5 | 48.5 | 48.2 | 47.9 | 48.1 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 48.1 | 48.1 | 48.1 | 48.3 | 47.5 | 46.2 | | | | | | | | | | | | | | | | | | | | | | |
| 10 * | 47.8 | 47.6 | 47.7 | 47.2 | 47.3 | 47.3 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 48.1 | 48.1 | 48.9 | 50.2 | 48.6 | 48.3 | | | | | | | | | | | | | | | | | | | | | | |
| 12 ** | 40.2 | 43.9 | 46.4 | 48.0 | 48.7 | 48.6 | | | | | | | | | | | | | | | | | | | | | | |
| 13 ** | 44.7 | 43.1 | 43.2 | 50.4 | 47.1 | 49.7 | | | | | | | | | | | | | | | | | | | | | | |
| 14 ** | 47.4 | 52.1 | 46.6 | 46.6 | 48.2 | 49.1 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 44.0 | 44.3 | 45.7 | 48.4 | 49.7 | 49.3 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 47.8 | 48.6 | 48.7 | 48.9 | 48.7 | 48.7 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 48.0 | 48.1 | 48.5 | 48.6 | 48.5 | 48.5 | | | | | | | | | | | | | | | | | | | | | | |
| 18 * | 48.3 | 48.5 | 48.6 | 48.9 | 48.3 | 48.2 | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 48.3 | 48.2 | 48.2 | 48.4 | 48.4 | 48.3 | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 46.0 | 46.8 | 46.1 | 47.2 | 47.2 | 47.1 | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 47.0 | 46.8 | 46.7 | 46.7 | 47.2 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| 22 * | 47.6 | 47.9 | 48.0 | 48.0 | 48.1 | 48.1 | | | | | | | | | | | | | | | | | | | | | | |
| 23 * | 47.1 | 47.7 | 48.1 | 48.0 | 47.9 | 47.6 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 48.0 | 48.4 | 48.7 | 48.1 | 47.7 | 47.9 | | | | | | | | | | | | | | | | | | | | | | |
| 25 ** | 42.7 | 42.5 | 46.8 | 47.7 | 46.9 | 51.6 | | | | | | | | | | | | | | | | | | | | | | |
| 26 ** | 48.3 | 48.1 | 47.6 | 48.1 | 48.5 | 49.9 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 47.0 | 48.1 | 48.3 | 49.3 | 51.8 | 48.0 | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 47.7 | 47.9 | 48.3 | 48.2 | 48.9 | 48.7 | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 47.0 | 47.4 | 47.0 | 47.4 | 47.1 | 46.9 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 47.8 | 48.3 | 48.6 | 49.5 | 48.0 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 46.7 | 47.3 | 47.5 | 48.1 | 48.1 | 48.2 | | | | | | | | | | | | | | | | | | | | | | |
| Mean * | 47.8 | 48.0 | 48.2 | 48.1 | 47.9 | 47.9 | | | | | | | | | | | | | | | | | | | | | | |
| Mean ** | 44.3 | 45.9 | 46.1 | 48.1 | 47.9 | 49.8 | | | | | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° + Tabular Quantities | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 46.2 | 46.6 | 47.8 | 49.0 | 47.8 | 46.8 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 46.0 | 46.4 | 47.3 | 47.0 | 47.3 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 46.5 | 47.0 | 46.9 | 47.5 | 47.1 | 47.5 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 43.5 | 41.4 | 43.1 | 45.1 | 46.0 | 46.6 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 47.0 | 46.4 | 47.7 | 47.7 | 48.0 | 48.0 | | | | | | | | | | | | | | | | | | | | | | |
| 6 ** | 43.0 | 44.9 | 46.3 | 46.8 | 47.7 | 47.3 | | | | | | | | | | | | | | | | | | | | | | |
| 7 ** | 44.3 | 42.8 | 43.4 | 52.8 | 46.6 | 45.4 | | | | | | | | | | | | | | | | | | | | | | |
| 8 ** | 46.4 | 47.7 | 49.7 | 48.0 | 50.4 | 52.3 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 47.5 | 45.7 | 47.8 | 49.6 | 49.9 | 48.3 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 47.8 | 48.0 | 47.9 | 48.3 | 48.3 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 47.3 | 47.6 | 49.6 | 48.3 | 47.8 | 47.3 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 47.7 | 47.9 | 49.8 | 48.3 | 48.3 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 44.8 | 47.1 | 48.3 | 48.2 | 49.8 | 48.1 | | | | | | | | | | | | | | | | | | | | | | |
| 14 * | 46.7 | 48.4 | 48.3 | 47.8 | 47.9 | 48.0 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 44.8 | 44.8 | 46.7 | 46.3 | 46.7 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 47.0 | 47.3 | 47.2 | 47.7 | 48.1 | 47.5 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 42.6 | 44.6 | 47.2 | 47.8 | 48.1 | 47.7 | | | | | | | | | | | | | | | | | | | | | | |
| 18 * | 46.5 | 46.6 | 46.5 | 46.1 | 46.5 | 46.8 | | | | | | | | | | | | | | | | | | | | | | |
| 19 * | 46.7 | 46.9 | 47.1 | 47.1 | 47.1 | 46.5 | | | | | | | | | | | | | | | | | | | | | | |
| 20 * | 47.1 | 47.1 | 47.2 | 47.4 | 47.5 | 47.2 | | | | | | | | | | | | | | | | | | | | | | |
| 21 ** | 46.0 | 46.1 | 45.6 | 45.1 | 45.2 | 45.1 | | | | | | | | | | | | | | | | | | | | | | |
| 22 ** | 40.8 | 45.6 | 46.6 | 46.7 | 47.1 | 48.1 | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 48.1 | 47.7 | 47.8 | 48.1 | 48.8 | 47.1 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 47.5 | 48.1 | 48.1 | 48.5 | 46.6 | 45.7 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 47.6 | 47.5 | 46.5 | 46.2 | 47.6 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 47.3 | 48.8 | 49.0 | 49.0 | 49.1 | 51.3 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 47.0 | 47.6 | 48.4 | 48.6 | 48.3 | 47.4 | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 47.5 | 46.9 | 47.0 | 46.9 | 47.4 | 46.6 | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 46.9 | 46.3 | 45.4 | 45.0 | 45.1 | 45.5 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 43.7 | 45.4 | 47.2 | 47.3 | 47.5 | 46.7 | | | | | | | | | | | | | | | | | | | | | | |
| 31 * | 47.2 | 47.7 | 47.0 | 46.8 | 47.7 | 46.7 | | | | | | | | | | | | | | | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| January 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 538 | 541 | 544 | 547 | 548 | 549 | 551 | 552 | 548 | 538 | 533 | 529 | 538 | 538 | 536 | 531 | 535 | 538 | 538 | 538 | 538 | 535 | 538 | 540 | 540 | 540 |
| 2 | 540 | 540 | 542 | 542 | 546 | 555 | 556 | 551 | 547 | 546 | 535 | 536 | 534 | 537 | 542 | 537 | 538 | 543 | 546 | 547 | 551 | 549 | 546 | 540 | 540 | 540 |
| 3 * | 538 | 542 | 546 | 546 | 547 | 549 | 549 | 544 | 538 | 536 | 538 | 535 | 536 | 538 | 538 | 534 | 534 | 538 | 542 | 542 | 542 | 543 | 543 | 543 | 543 | 543 |
| 4 | 546 | 542 | 542 | 546 | 546 | 549 | 551 | 547 | 538 | 533 | 532 | 531 | 532 | 535 | 534 | 533 | 538 | 542 | 543 | 546 | 551 | 552 | 553 | 546 | 546 | 546 |
| 5 ** | 546 | 551 | 555 | 560 | 549 | 546 | 551 | 553 | 552 | 551 | 547 | 546 | 549 | 546 | 546 | 542 | 538 | 544 | 533 | 533 | 540 | 555 | 553 | 530 | 530 | 530 |
| 6 | 530 | 533 | 542 | 538 | 538 | 539 | 541 | 538 | 531 | 524 | 520 | 513 | 523 | 531 | 533 | 538 | 528 | 528 | 528 | 529 | 538 | 543 | 537 | 534 | 534 | 534 |
| 7 | 532 | 538 | 535 | 535 | 538 | 539 | 542 | 540 | 537 | 529 | 527 | 529 | 535 | 536 | 537 | 535 | 534 | 538 | 540 | 527 | 541 | 529 | 527 | 529 | 529 | 529 |
| 8 | 522 | 530 | 531 | 541 | 534 | 538 | 538 | 533 | 529 | 520 | 516 | 516 | 529 | 535 | 531 | 529 | 521 | 521 | 524 | 538 | 538 | 524 | 525 | 537 | 537 | 537 |
| 9 ** | 525 | 525 | 531 | 528 | 547 | 546 | 534 | 530 | 516 | 511 | 511 | 507 | 518 | 522 | 522 | 529 | 529 | 531 | 529 | 535 | 531 | 538 | 533 | 519 | 519 | 519 |
| 10 | 524 | 529 | 529 | 539 | 560 | 544 | 542 | 542 | 533 | 524 | 520 | 524 | 511 | 521 | 526 | 525 | 527 | 537 | 539 | 533 | 529 | 531 | 529 | 524 | 524 | 524 |
| 11 | 522 | 524 | 529 | 539 | 542 | 538 | 535 | 533 | 538 | 529 | 518 | 518 | 522 | 533 | 535 | 524 | 524 | 524 | 529 | 532 | 536 | 535 | 530 | 528 | 528 | 528 |
| 12 | 524 | 530 | 532 | 534 | 536 | 534 | 534 | 537 | 535 | 532 | 531 | 533 | 543 | 539 | 531 | 533 | 534 | 540 | 542 | 543 | 540 | 538 | 535 | 535 | 535 | 535 |
| 13 | 535 | 530 | 528 | 532 | 535 | 539 | 539 | 534 | 541 | 533 | 535 | 541 | 541 | 543 | 541 | 542 | 535 | 539 | 541 | 543 | 545 | 543 | 539 | 540 | 540 | 540 |
| 14 | 541 | 534 | 537 | 538 | 538 | 541 | 549 | 546 | 538 | 535 | 537 | 538 | 538 | 534 | 520 | 517 | 528 | 539 | 543 | 543 | 539 | 531 | 524 | 524 | 524 | 524 |
| 15 | 532 | 535 | 537 | 538 | 546 | 549 | 541 | 537 | 529 | 517 | 520 | 520 | 522 | 519 | 521 | 528 | 537 | 539 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 |
| 16 | 538 | 535 | 536 | 538 | 539 | 542 | 545 | 545 | 541 | 530 | 528 | 535 | 537 | 539 | 536 | 533 | 535 | 537 | 541 | 532 | 544 | 511 | 515 | 521 | 521 | 521 |
| 17 ** | 520 | 535 | 537 | 532 | 539 | 535 | 528 | 524 | 521 | 519 | 520 | 504 | 502 | 520 | 517 | 515 | 519 | 528 | 532 | 529 | 527 | 525 | 521 | 530 | 530 | 530 |
| 18 | 530 | 525 | 533 | 526 | 544 | 547 | 541 | 535 | 531 | 525 | 518 | 512 | 527 | 533 | 528 | 525 | 530 | 533 | 536 | 535 | 533 | 533 | 540 | 532 | 532 | 532 |
| 19 | 536 | 536 | 534 | 536 | 538 | 542 | 542 | 535 | 532 | 533 | 529 | 523 | 525 | 531 | 531 | 529 | 531 | 537 | 539 | 538 | 535 | 540 | 532 | 534 | 534 | 534 |
| 20 | 534 | 542 | 547 | 538 | 544 | 542 | 551 | 551 | 547 | 538 | 525 | 529 | 528 | 533 | 533 | 536 | 533 | 536 | 536 | 529 | 523 | 533 | 538 | 532 | 532 | 532 |
| 21 ** | 532 | 528 | 533 | 535 | 542 | 545 | 550 | 547 | 547 | 535 | 532 | 526 | 536 | 519 | 520 | 518 | 520 | 503 | 501 | 533 | 526 | 527 | 528 | 530 | 530 | 530 |
| 22 ** | 531 | 530 | 530 | 537 | 539 | 542 | 542 | 537 | 536 | 530 | 523 | 520 | 526 | 529 | 535 | 539 | 540 | 540 | 516 | 524 | 536 | 529 | 524 | 550 | 550 | 550 |
| 23 | 532 | 530 | 532 | 533 | 538 | 537 | 540 | 540 | 538 | 517 | 522 | 527 | 533 | 534 | 511 | 514 | 518 | 529 | 532 | 531 | 529 | 539 | 540 | 538 | 538 | 538 |
| 24 | 538 | 539 | 539 | 543 | 548 | 562 | 552 | 546 | 532 | 524 | 517 | 513 | 518 | 521 | 526 | 534 | 532 | 535 | 535 | 535 | 534 | 532 | 546 | 531 | 531 | 531 |
| 25 | 537 | 537 | 539 | 543 | 547 | 546 | 546 | 543 | 538 | 532 | 522 | 520 | 520 | 533 | 534 | 532 | 534 | 537 | 539 | 539 | 538 | 539 | 536 | 536 | 536 | 536 |
| 26 * | 536 | 537 | 539 | 543 | 546 | 550 | 550 | 548 | 543 | 532 | 528 | 525 | 527 | 528 | 535 | 537 | 538 | 542 | 544 | 545 | 545 | 543 | 543 | 543 | 543 | 543 |
| 27 * | 542 | 541 | 544 | 546 | 548 | 550 | 550 | 546 | 537 | 529 | 523 | 520 | 524 | 532 | 539 | 544 | 543 | 546 | 549 | 550 | 550 | 550 | 549 | 548 | 548 | 548 |
| 28 | 547 | 547 | 548 | 550 | 552 | 557 | 561 | 563 | 563 | 556 | 544 | 535 | 531 | 536 | 543 | 546 | 543 | 541 | 536 | 535 | 547 | 545 | 544 | 539 | 539 | 539 |
| 29 | 528 | 521 | 532 | 537 | 543 | 546 | 545 | 545 | 539 | 534 | 528 | 524 | 531 | 536 | 538 | 537 | 538 | 541 | 546 | 546 | 546 | 541 | 536 | 535 | 535 | 535 |
| 30 * | 535 | 538 | 542 | 546 | 547 | 551 | 549 | 550 | 546 | 533 | 523 | 516 | 519 | 528 | 537 | 537 | 537 | 537 | 542 | 549 | 546 | 546 | 546 | 546 | 547 | 547 |
| 31 | 546 | 546 | 546 | 550 | 550 | 554 | 553 | 550 | 546 | 528 | 525 | 515 | 521 | 524 | 528 | 528 | 533 | 537 | 542 | 546 | 547 | 546 | 543 | 546 | 546 | 546 |
| Mean | 534 | 535 | 538 | 541 | 544 | 545 | 545 | 543 | 538 | 531 | 527 | 525 | 528 | 532 | 532 | 532 | 532 | 535 | 536 | 538 | 539 | 538 | 536 | 536 | 536 | 536 |
| Mean * | 538 | 540 | 543 | 546 | 547 | 550 | 550 | 548 | 542 | 534 | 529 | 525 | 529 | 533 | 537 | 537 | 537 | 540 | 543 | 545 | 544 | 543 | 544 | 544 | 544 | 544 |
| Mean ** | 531 | 534 | 537 | 540 | 543 | 543 | 541 | 538 | 534 | 529 | 527 | 521 | 526 | 527 | 528 | 529 | 529 | 529 | 522 | 531 | 532 | 535 | 532 | 532 | 532 | 532 |
| February 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 543 | 542 | 539 | 538 | 539 | 540 | 543 | 547 | 550 | 546 | 545 | 543 | 539 | 528 | 529 | 539 | 544 | 544 | 528 | 504 | 473 | 493 | 488 | 484 | 484 | 484 |
| 2 | 493 | 501 | 506 | 516 | 508 | 510 | 517 | 516 | 521 | 524 | 524 | 521 | 524 | 524 | 515 | 515 | 517 | 522 | 507 | 495 | 497 | 515 | 513 | 519 | 519 | 519 |
| 3 | 515 | 518 | 516 | 525 | 533 | 525 | 524 | 521 | 519 | 519 | 519 | 513 | 514 | 524 | 523 | 528 | 524 | 528 | 528 | 528 | 524 | 528 | 520 | 523 | 523 | 523 |
| 4 | 524 | 526 | 528 | 525 | 527 | 528 | 526 | 528 | 528 | 526 | 517 | 497 | 513 | 523 | 524 | 517 | 519 | 525 | 528 | 528 | 528 | 530 | 532 | 533 | 533 | 533 |
| 5 | 530 | 532 | 532 | 530 | 530 | 535 | 532 | 532 | 535 | 541 | 526 | 525 | 527 | 536 | 532 | 525 | 522 | 528 | 533 | 541 | 528 | 528 | 529 | 526 | 526 | 526 |
| 6 ** | 532 | 531 | 536 | 534 | 537 | 544 | 542 | 539 | 541 | 541 | 497 | 480 | 473 | 477 | 481 | 477 | 449 | 475 | 475 | 449 | 447 | 448 | 455 | 476 | 476 | 476 |
| 7 ** | 469 | 484 | 481 | 488 | 492 | 488 | 491 | 495 | 501 | 497 | 489 | 497 | 492 | 487 | 499 | 499 | 491 | 491 | 499 | 505 | 499 | 496 | 506 | 510 | 510 | 510 |
| 8 | 511 | 510 | 511 | 513 | 515 | 517 | 521 | 523 | 521 | 520 | 517 | 510 | 508 | 509 | 512 | 521 | 523 | 526 | 528 | 517 | 512 | 513 | 500 | 510 | 510 | 510 |
| 9 | 514 | 513 | 515 | 517 | 520 | 530 | 535 | 537 | 538 | 538 | 538 | 519 | 519 | 529 | 528 | 528 | 528 | 530 | 504 | 511 | 494 | 505 | 508 | 520 | 520 | 520 |
| 10 | 513 | 520 | 522 | 528 | 522 | 520 | 521 | 526 | 524 | 518 | 517 | 517 | 520 | 517 | 530 | 519 | 521 | 488 | 502 | 524 | 535 | 539 | 538 | 546 | 546 | 546 |
| 11 | 547 | 528 | 543 | 548 | 531 | 537 | 537 | 532 | 536 | 531 | 515 | 505 | 513 | 519 | 517 | 517 | 521 | 526 | 528 | 532 | 533 | 532 | 533 | 532 | 532 | 532 |
| 12 * | 535 | 533 | 535 | 535 | 536 | 537 | 538 | 541 | 544 | 540 | 534 | 531 | 532 | 528 | 527 | 526 | 532 | 532 | 537 | 542 | 543 | 545 | 544 | 543 | 543 | 543 |
| 13 * | 539 | 538 | 538 | 537 | 538 | 540 | 543 | 550 | 551 | 545 | 538 | 534 | 533 | 535 | 537 | 538 | 538 | 542 | 545 | 547 | 538 | 529 | 533 | 540 | 540 | 540 |
| 14 | 542 | 544 | 545 | 542 | 547 | 547 | 552 | 550 | 549 | 543 | 536 | 525 | 520 | 525 | 527 | 531 | 533 | 527 | 529 | 525 | 537 | 548 | 547 | 549 | 549 | 549 |
| 15 | 547 | 561 | 547 | 538 | 549 | 556 | 564 | 554 | 551 | 545 | 535 | 531 | 531 | 535 | 529 | 520 | 525 | 531 | 536 | 540 | 544 | 545 | 545 | 545 | 547 | 547 |
| 16 | 542 | 540 | 542 | 542 | 538 | 533 | 540 | 542 | 535 | 542 | 534 | 529 | 520 | 520 | 509 | 518 | 503 | 519 | 529 | 527 | 529 | 530 | 531 | 538 | 538 | 538 |
| 17 † | 538 | 537 | 536 | 536 | 539 | 546 | 546 | 533 | 534 | 528 | 527 | - | - | - | - | - | - | 531 | 529 | 525 | 539 | 531 | 538 | 538 | 538 | |
| 18 | 543 | 538 | 534 | 534 | 536 | 538 | 544 | 534 | 541 | 538 | 531 | 529 | 535 | 529 | 532 | 532 | 520 | 536 | 535 | 534 | 534 | 543 | 543 | 536 | 536 | |
| 19 | 529 | 536 | 534 | 534 | 538 | 548 | 552 | 543 | 534 | 530 | 518 | 520 | 516 | | | | | | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| March | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 513 | 517 | 515 | 517 | 517 | 528 | 528 | 528 | 515 | 504 | 513 | 513 | 514 | 522 | 517 | 531 | 507 | 513 | 520 | 508 | 504 | 518 | 492 | 501 | | | |
| 2 | 513 | 519 | 552 | 484 | 492 | 495 | 510 | 499 | 499 | 493 | 493 | 490 | 490 | 490 | 501 | 508 | 508 | 513 | 516 | 518 | 519 | 525 | 520 | 522 | | | |
| 3 | 528 | 524 | 515 | 509 | 517 | 528 | 532 | 536 | 537 | 524 | 522 | 517 | 518 | 513 | 513 | 510 | 499 | 497 | 508 | 507 | 504 | 495 | 495 | 544 | | | |
| 4 | 508 | 497 | 499 | 428 | 517 | 508 | 501 | 499 | 490 | 504 | 496 | 499 | 499 | 507 | 496 | 506 | 511 | 502 | 519 | 517 | 506 | 515 | 511 | 501 | | | |
| 5 | 504 | 510 | 508 | 517 | 517 | 519 | 524 | 521 | 513 | 501 | 497 | 504 | 513 | 521 | 528 | 524 | 514 | 516 | 515 | 531 | 518 | 523 | 532 | 515 | | | |
| 6 | 517 | 519 | 521 | 525 | 526 | 533 | 528 | 529 | 515 | 497 | 491 | 494 | 504 | 500 | 518 | 515 | 508 | 520 | 532 | 529 | 524 | 524 | 520 | 523 | | | |
| 7 * | 521 | 541 | 517 | 519 | 526 | 525 | 526 | 524 | 519 | 515 | 511 | 504 | 514 | 525 | 531 | 531 | 525 | 525 | 531 | 532 | 529 | 524 | 520 | 520 | | | |
| 8 | 543 | 534 | 532 | 536 | 548 | 562 | 534 | 523 | 522 | 519 | 514 | 515 | 520 | 529 | 532 | 529 | 534 | 539 | 523 | 529 | 535 | 536 | 541 | 541 | | | |
| 9 | 538 | 534 | 538 | 551 | 545 | 548 | 556 | 543 | 518 | 532 | 538 | 532 | 518 | 509 | 505 | 516 | 514 | 518 | 516 | 545 | 545 | 530 | 532 | 531 | | | |
| 10 | 531 | 538 | 528 | 530 | 530 | 534 | 534 | 532 | 535 | 532 | 527 | 523 | 513 | 511 | 521 | 523 | 527 | 526 | 536 | 541 | 538 | 538 | 529 | 534 | | | |
| 11 | 534 | 533 | 533 | 535 | 537 | 543 | 545 | 533 | 542 | 521 | 511 | 515 | 521 | 524 | 525 | 534 | 514 | 527 | 532 | 541 | 541 | 532 | 525 | 520 | | | |
| 12 | 548 | 524 | 527 | 532 | 535 | 537 | 542 | 532 | 527 | 515 | 505 | 501 | 505 | 509 | 523 | 510 | 514 | 524 | 524 | 526 | 532 | 532 | 529 | 544 | | | |
| 13 * | 526 | 526 | 529 | 532 | 533 | 537 | 539 | 538 | 533 | 515 | 513 | 512 | 526 | 524 | 516 | 522 | 525 | 532 | 539 | 541 | 542 | 542 | 544 | 542 | | | |
| 14 | 542 | 542 | 546 | 548 | 547 | 549 | 550 | 547 | 546 | 542 | 539 | 542 | 526 | 534 | 533 | 524 | 521 | 534 | 537 | 537 | 537 | 537 | 543 | 540 | | | |
| 15 | 539 | 543 | 539 | 541 | 542 | 546 | 551 | 548 | 537 | 538 | 539 | 517 | 522 | 533 | 533 | 534 | 492 | 506 | 542 | 540 | 546 | 545 | 544 | 542 | | | |
| 16 | 539 | 537 | 543 | 553 | 534 | 542 | 542 | 542 | 535 | 510 | 513 | 519 | 522 | 512 | 528 | 528 | 526 | 537 | 539 | 539 | 551 | 542 | 537 | 558 | | | |
| 17 | 559 | 546 | 530 | 520 | 519 | 528 | 523 | 528 | 528 | 526 | 519 | 513 | 516 | 521 | 521 | 524 | 531 | 536 | 532 | 542 | 551 | 542 | 544 | 546 | | | |
| 18 * | 558 | 538 | 533 | 535 | 538 | 540 | 543 | 542 | 537 | 524 | 519 | 513 | 512 | 516 | 524 | 526 | 531 | 526 | 541 | 543 | 543 | 542 | 543 | 543 | | | |
| 19 * | 541 | 541 | 538 | 540 | 541 | 540 | 539 | 539 | 536 | 527 | 521 | 523 | 528 | 525 | 530 | 534 | 539 | 540 | 543 | 542 | 547 | 548 | 550 | 550 | | | |
| 20 | 546 | 548 | 548 | 553 | 545 | 552 | 552 | 543 | 536 | 526 | 521 | 524 | 534 | 541 | 546 | 548 | 543 | 530 | 543 | 544 | 544 | 543 | 543 | 548 | | | |
| 21 | 549 | 548 | 548 | 550 | 549 | 555 | 563 | 561 | 537 | 527 | 484 | 486 | 504 | 511 | 515 | 519 | 525 | 539 | 523 | 507 | 528 | 533 | 537 | 536 | | | |
| 22 ** | 539 | 539 | 543 | 550 | 543 | 534 | 541 | 541 | 530 | 509 | 495 | 487 | 494 | 490 | 494 | 512 | 534 | 508 | 548 | 531 | 533 | 531 | 552 | 523 | | | |
| 23 | 527 | 530 | 528 | 534 | 522 | 525 | 530 | 531 | 529 | 501 | 507 | 514 | 516 | 519 | 525 | 500 | 516 | 525 | 537 | 540 | 525 | 533 | 522 | 525 | | | |
| 24 | 534 | 535 | 530 | 532 | 531 | 534 | 536 | 534 | 528 | 518 | 509 | 505 | 511 | 517 | 516 | 531 | 535 | 532 | 530 | 524 | 535 | 558 | 539 | 539 | | | |
| 25 * | 534 | 531 | 543 | 543 | 534 | 545 | 544 | 539 | 532 | 527 | 525 | 527 | 529 | 532 | 528 | 534 | 536 | 534 | 536 | 543 | 543 | 542 | 536 | 540 | | | |
| 26 | 543 | 532 | 528 | 541 | 535 | 539 | 538 | 542 | 530 | 514 | 509 | 505 | 509 | 516 | 531 | 534 | 536 | 537 | 546 | 543 | 534 | 536 | 534 | 548 | | | |
| 27 ** | 536 | 558 | 563 | 556 | 543 | 551 | 560 | 550 | 542 | 521 | 505 | 503 | 511 | 518 | 530 | 539 | 545 | 543 | 527 | 527 | 514 | 537 | 559 | 518 | | | |
| 28 ** | 513 | 525 | 528 | 528 | 536 | 518 | 531 | 527 | 507 | 498 | 482 | 498 | 500 | 503 | 528 | 530 | 523 | 507 | 500 | 471 | 426 | 415 | 394 | 460 | | | |
| 29 ** | 482 | 467 | 474 | 458 | 496 | 500 | 497 | 456 | 469 | 454 | 487 | 444 | 456 | 476 | 509 | 493 | 521 | 512 | 507 | 552 | 521 | 491 | 493 | 519 | | | |
| 30 ** | 507 | 487 | 499 | 498 | 493 | 498 | 514 | 512 | 503 | 503 | 494 | 505 | 511 | 504 | 518 | 529 | 529 | 552 | 525 | 516 | 512 | 548 | 494 | 509 | | | |
| 31 | 516 | 513 | 507 | 493 | 511 | 508 | 507 | 501 | 502 | 496 | 485 | 496 | 509 | 512 | 514 | 503 | 512 | 528 | 532 | 544 | 530 | 534 | 557 | 534 | | | |
| Mean | 530 | 528 | 528 | 525 | 529 | 532 | 534 | 530 | 524 | 514 | 509 | 508 | 512 | 515 | 521 | 523 | 522 | 526 | 529 | 531 | 528 | 530 | 527 | 530 | | | |
| Mean * | 536 | 535 | 532 | 534 | 534 | 537 | 538 | 536 | 531 | 522 | 518 | 516 | 522 | 524 | 526 | 529 | 531 | 533 | 538 | 542 | 541 | 541 | 541 | 543 | | | |
| Mean ** | 515 | 515 | 521 | 518 | 523 | 520 | 529 | 517 | 510 | 497 | 493 | 487 | 494 | 496 | 516 | 521 | 530 | 524 | 521 | 519 | 501 | 503 | 498 | 505 | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 519 | 523 | 510 | 504 | 512 | 543 | 539 | 530 | 500 | 502 | 503 | 496 | 487 | 498 | 502 | 504 | 518 | 532 | 530 | 530 | 523 | 516 | 520 | 552 | | | |
| 2 | 532 | 521 | 529 | 515 | 522 | 534 | 521 | 514 | 505 | 498 | 489 | 485 | 501 | 507 | 518 | 523 | 528 | 534 | 548 | 534 | 546 | 534 | 539 | 570 | | | |
| 3 | 530 | 527 | 530 | 523 | 521 | 521 | 521 | 517 | 494 | 498 | 502 | 503 | 507 | 505 | 517 | 530 | 525 | 536 | 528 | 530 | 530 | 527 | 520 | 514 | | | |
| 4 | 521 | 521 | 520 | 534 | 539 | 533 | 532 | 521 | 507 | 505 | 502 | 500 | 513 | 525 | 523 | 531 | 534 | 545 | 561 | 522 | 512 | 507 | 523 | 531 | | | |
| 5 | 527 | 530 | 523 | 528 | 532 | 536 | 539 | 534 | 519 | 519 | 496 | 496 | 500 | 522 | 509 | 525 | 532 | 539 | 539 | 537 | 537 | 534 | 534 | 534 | | | |
| 6 * | 534 | 535 | 536 | 537 | 540 | 541 | 531 | 540 | 529 | 518 | 509 | 512 | 514 | 517 | 527 | 534 | 541 | 546 | 543 | 543 | 543 | 545 | 546 | 548 | | | |
| 7 * | 545 | 543 | 546 | 545 | 548 | 550 | 551 | 548 | 538 | 522 | 514 | 503 | 507 | 518 | 532 | 551 | 540 | 535 | 539 | 540 | 540 | 542 | 545 | 548 | | | |
| 8 | 544 | 541 | 539 | 539 | 537 | 547 | 544 | 539 | 535 | 525 | 518 | 517 | 519 | 526 | 534 | 538 | 539 | 543 | 549 | 534 | 561 | 543 | 552 | 549 | | | |
| 9 | 548 | 545 | 552 | 542 | 543 | 552 | 556 | 550 | 545 | 533 | 523 | 518 | 521 | 521 | 530 | 537 | 545 | 547 | 553 | 558 | 548 | 552 | 542 | 555 | | | |
| 10 | 561 | 516 | 531 | 535 | 543 | 545 | 557 | 543 | 502 | 506 | 509 | 512 | 505 | 487 | 516 | 518 | 539 | 534 | 532 | 551 | 541 | 534 | 549 | 576 | | | |
| 11 | 521 | 525 | 530 | 534 | 530 | 537 | 537 | 534 | 518 | 498 | 489 | 494 | 509 | 511 | 512 | 513 | 538 | 563 | 579 | 536 | 533 | 561 | 534 | 527 | | | |
| 12 | 524 | 529 | 534 | 530 | 516 | 525 | 517 | 503 | 494 | 505 | 495 | 496 | 496 | 516 | 517 | 522 | 532 | 544 | 545 | 545 | 545 | 544 | 548 | 541 | | | |
| 13 * | 551 | 541 | 532 | 531 | 532 | 539 | 532 | 509 | 520 | 521 | 512 | 503 | 512 | 507 | 519 | 528 | 534 | 543 | 549 | 541 | 546 | 554 | 545 | 543 | | | |
| 14 | 540 | 543 | 537 | 545 | 544 | 542 | 544 | 537 | 533 | 521 | 505 | 511 | 523 | 520 | 525 | 535 | 530 | 539 | 548 | 548 | 554 | 545 | 545 | 545 | | | |
| 15 * | 540 | 539 | 540 | 540 | 543 | 543 | 543 | 539 | 539 | 529 | 514 | 516 | 521 | 527 | 528 | 531 | 540 | 539 | 543 | 548 | 546 | 547 | 547 | 546 | | | |
| 16 * | 545 | 542 | 539 | 539 | 541 | 543 | 541 | 537 | 528 | 520 | 514 | 512 | 516 | 522 | 526 | 531 | 532 | 540 | 543 | 548 | 552 | 570 | 581 | 577 | | | |
| 17 ** | 583 | 573 | 607 | 532 | 471 | 484 | 474 | 444 | 807 | 482 | 485 | 478 | 477 | 500 | 566 | 548 | 491 | 451 | 494 | 507 | 567 | 453 | 476 | 479 | | | |
| 18 ** | 478 | 474 | 476 | 473 | 475 | 476 | 474 | 444 | 444 | 483 | 489 | 469 | 469 | 493 | 505 | 562 | 540 | 541 | 530 | 502 | 498 | 504 | 493 | 513 | | | |
| 19 | 512 | 507 | 498 | 499 | 500 | 510 | 525 | 524 | 510 | 501 | 491 | 494 | 518 | 512 | 507 | 509 | 508 | 507 | 523 | 509 | 494 | 507 | 505 | 518 | | | |
| 20 | 507 | 516 | 524 | 507 | 507 | 516 | 512 | 485 | 451 | 446 | 447 | 456 | 467 | 469 | 499 | 489 | 534 | 528 | 513 | 519 | 516 | 512 | 512 | 516 | | | |
| 21 | 521 | 516 | 530 | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | | | |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 530 | 523 | 527 | 521 | 523 | 523 | 520 | 514 | 514 | 508 | 504 | 537 | 539 | 548 | 557 | 532 | 541 | 525 | 530 | 485 | 500 | 485 | 481 | 471 | | | | | |
| 2 ** | 491 | 461 | 460 | 494 | 491 | 477 | 461 | 481 | 483 | 477 | 473 | 471 | 493 | 475 | 502 | 515 | 507 | 522 | 527 | 520 | 512 | 489 | 529 | 515 | 515 | | | | |
| 3 | 513 | 516 | 524 | 521 | 521 | 508 | 491 | 488 | 486 | 470 | 457 | 475 | 484 | 475 | 490 | 489 | 513 | 530 | 538 | 542 | 528 | 528 | 529 | 533 | | | | | |
| 4 | 524 | 524 | 524 | 515 | 515 | 519 | 513 | 502 | 496 | 493 | 491 | 502 | 511 | 520 | 529 | 543 | 547 | 547 | 539 | 542 | 540 | 538 | 538 | 535 | | | | | |
| 5 | 354 | 536 | 535 | 533 | 529 | 522 | 520 | 515 | 505 | 489 | 493 | 504 | 514 | 521 | 531 | 554 | 547 | 547 | 554 | 545 | 574 | 625 | 592 | 585 | | | | | |
| 6 ** | 583 | 576 | 572 | 568 | 560 | 560 | 553 | 547 | 531 | 515 | 502 | 502 | 542 | 533 | 489 | 558 | 592 | 589 | 525 | 527 | 529 | 495 | 488 | 484 | | | | | |
| 7 ** | 493 | 511 | 494 | 511 | 506 | 522 | 483 | 492 | 493 | 474 | 451 | 442 | 479 | 497 | 485 | 513 | 514 | 515 | 533 | 537 | 542 | 547 | 547 | 544 | | | | | |
| 8 ** | 541 | 535 | 520 | 516 | 519 | 521 | 497 | 497 | 502 | 496 | 482 | 478 | 493 | 502 | 490 | 520 | 530 | 538 | 548 | 561 | 541 | 545 | 540 | 538 | | | | | |
| 9 | 529 | 530 | 537 | 524 | 524 | 522 | 510 | 503 | 502 | 484 | 493 | 491 | 511 | 511 | 510 | 509 | 547 | 558 | 547 | 547 | 543 | 547 | 538 | 537 | | | | | |
| 10 | 529 | 524 | 524 | 522 | 529 | 529 | 524 | 519 | 515 | 511 | 508 | 506 | 512 | 521 | 524 | 549 | 569 | 551 | 549 | 542 | 539 | 538 | 536 | 536 | | | | | |
| 11 * | 536 | 532 | 533 | 531 | 538 | 538 | 538 | 533 | 526 | 517 | 515 | 509 | 517 | 529 | 523 | 529 | 536 | 547 | 549 | 546 | 547 | 544 | 542 | 542 | | | | | |
| 12 * | 544 | 537 | 537 | 537 | 541 | 541 | 534 | 526 | 527 | 526 | 519 | 515 | 510 | 519 | 530 | 541 | 548 | 551 | 550 | 556 | 551 | 551 | 551 | 547 | | | | | |
| 13 * | 544 | 545 | 541 | 541 | 541 | 546 | 539 | 539 | 539 | 539 | 541 | 537 | 534 | 514 | 531 | 539 | 550 | 548 | 552 | 556 | 554 | 543 | 541 | 542 | | | | | |
| 14 * | 544 | 541 | 541 | 539 | 537 | 536 | 536 | 536 | 532 | 537 | 541 | 542 | 540 | 530 | 528 | 541 | 550 | 550 | 551 | 555 | 558 | 558 | 562 | 559 | | | | | |
| 15 | 555 | 557 | 560 | 548 | 541 | 550 | 563 | 550 | 533 | 532 | 528 | 532 | 523 | 520 | 520 | 524 | 532 | 549 | 555 | 549 | 547 | 546 | 549 | 537 | | | | | |
| 16 | 551 | 559 | 553 | 537 | 528 | 547 | 537 | 501 | 505 | 505 | 519 | 523 | 510 | 496 | 503 | 514 | 530 | 544 | 556 | 551 | 550 | 546 | 547 | 554 | | | | | |
| 17 | 533 | 531 | 528 | 530 | 531 | 527 | 522 | 522 | 524 | 520 | 519 | 527 | 521 | 531 | 544 | 539 | 552 | 556 | 554 | 558 | 543 | 543 | 545 | 531 | | | | | |
| 18 | 550 | 560 | 556 | 549 | 533 | 529 | 509 | 500 | 496 | 504 | 518 | 515 | 534 | 526 | 528 | 536 | 551 | 555 | 545 | 540 | 540 | 544 | 540 | 527 | | | | | |
| 19 | 531 | 529 | 545 | 529 | 545 | 529 | 524 | 509 | 507 | 507 | 507 | 513 | 524 | 531 | 536 | 545 | 554 | 554 | 558 | 541 | 545 | 544 | 536 | 530 | | | | | |
| 20 | 531 | 532 | 517 | 527 | 532 | 518 | 511 | 503 | 482 | 497 | 511 | 515 | 522 | 527 | 531 | 534 | 534 | 543 | 549 | 545 | 535 | 539 | 540 | 538 | | | | | |
| 21 | 545 | 538 | 542 | 542 | 542 | 542 | 542 | 540 | 531 | 520 | 509 | 514 | 513 | 522 | 529 | 558 | 538 | 560 | 549 | 542 | 539 | 540 | 527 | 509 | | | | | |
| 22 | 545 | 529 | 524 | 518 | 513 | 526 | 527 | 513 | 478 | 453 | 467 | 493 | 497 | 499 | 511 | 522 | 522 | 545 | 545 | 546 | 549 | 554 | 538 | 515 | | | | | |
| 23 | 523 | 533 | 537 | 522 | 518 | 522 | 522 | 501 | 492 | 506 | 495 | 481 | 483 | 486 | 504 | 529 | 540 | 554 | 576 | 563 | 549 | 542 | 541 | 557 | | | | | |
| 24 | 534 | 523 | 537 | 547 | 540 | 503 | 509 | 506 | 497 | 489 | 491 | 495 | 492 | 500 | 527 | 521 | 545 | 556 | 583 | 568 | 556 | 527 | 515 | 534 | | | | | |
| 25 | 533 | 527 | 540 | 527 | 525 | 526 | 511 | 507 | 501 | 504 | 505 | 512 | 507 | 520 | 540 | 578 | 558 | 546 | 542 | 551 | 539 | 542 | 527 | 517 | | | | | |
| 26 | 521 | 535 | 536 | 542 | 549 | 536 | 509 | 500 | 490 | 495 | 506 | 518 | 508 | 523 | 531 | 557 | 549 | 555 | 572 | 581 | 554 | 540 | 533 | 529 | | | | | |
| 27 | 531 | 524 | 531 | 533 | 529 | 515 | 517 | 509 | 512 | 523 | 518 | 510 | 504 | 507 | 512 | 523 | 537 | 547 | 549 | 547 | 551 | 571 | 567 | 545 | | | | | |
| 28 | 549 | 546 | 536 | 531 | 543 | 531 | 522 | 513 | 520 | 520 | 518 | 509 | 519 | 522 | 522 | 529 | 533 | 543 | 554 | 561 | 567 | 572 | 572 | 546 | | | | | |
| 29 | 535 | 535 | 532 | 550 | 529 | 519 | 505 | 496 | 502 | 518 | 513 | 518 | 491 | 495 | 526 | 519 | 528 | 558 | 534 | 561 | 551 | 542 | 538 | 533 | | | | | |
| 30 | 531 | 531 | 536 | 535 | 535 | 530 | 520 | 511 | 507 | 509 | 513 | 531 | 535 | 532 | 523 | 527 | 536 | 542 | 549 | 558 | 557 | 554 | 551 | 549 | | | | | |
| 31 * | 545 | 547 | 540 | 538 | 540 | 536 | 539 | 537 | 522 | 513 | 504 | 500 | 504 | 510 | 521 | 532 | 541 | 550 | 558 | 565 | 561 | 563 | 554 | 550 | | | | | |
| Mean | 535 | 533 | 533 | 532 | 531 | 527 | 520 | 513 | 508 | 505 | 504 | 507 | 512 | 514 | 520 | 533 | 541 | 547 | 549 | 548 | 545 | 545 | 540 | 535 | | | | | |
| Mean * | 543 | 540 | 538 | 537 | 539 | 539 | 537 | 534 | 529 | 526 | 524 | 521 | 521 | 520 | 527 | 536 | 545 | 549 | 552 | 556 | 554 | 552 | 550 | 548 | | | | | |
| Mean ** | 528 | 521 | 515 | 522 | 520 | 521 | 503 | 508 | 505 | 494 | 482 | 486 | 509 | 511 | 505 | 528 | 537 | 534 | 533 | 528 | 525 | 520 | 517 | 510 | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 555 | 556 | 551 | 555 | 558 | 553 | 541 | 528 | 528 | 523 | 519 | 524 | 529 | 537 | 561 | 577 | 528 | 550 | 559 | 577 | 565 | 570 | 574 | 575 | | | | | |
| 2 | 577 | 561 | 559 | 545 | 552 | 559 | 555 | 544 | 520 | 514 | 517 | 514 | 528 | 519 | 543 | 541 | 559 | 582 | 589 | 559 | 560 | 564 | 564 | 555 | | | | | |
| 3 | 553 | 543 | 550 | 550 | 552 | 541 | 532 | 517 | 507 | 512 | 514 | 489 | 501 | 510 | 530 | 541 | 549 | 550 | 561 | 562 | 559 | 550 | 550 | 550 | | | | | |
| 4 | 555 | 557 | 548 | 540 | 538 | 532 | 537 | 528 | 518 | 514 | 503 | 501 | 509 | 523 | 539 | 552 | 574 | 560 | 564 | 555 | 557 | 555 | 557 | 557 | | | | | |
| 5 | 554 | 550 | 546 | 546 | 555 | 551 | 537 | 528 | 514 | 510 | 495 | 503 | 510 | 513 | 551 | 533 | 544 | 559 | 554 | 550 | 550 | 547 | 548 | 548 | | | | | |
| 6 | 539 | 538 | 541 | 532 | 539 | 541 | 541 | 530 | 514 | 506 | 503 | 499 | 497 | 517 | 531 | 545 | 548 | 556 | 555 | 557 | 558 | 559 | 553 | 552 | | | | | |
| 7 * | 554 | 550 | 547 | 546 | 553 | 548 | 537 | 524 | 523 | 517 | 515 | 511 | 505 | 516 | 534 | 554 | 561 | 565 | 562 | 562 | 557 | 557 | 553 | 550 | | | | | |
| 8 * | 551 | 555 | 553 | 552 | 553 | 550 | 544 | 535 | 522 | 517 | 515 | 512 | 518 | 530 | 544 | 551 | 560 | 563 | 568 | 562 | 562 | 562 | 560 | 557 | | | | | |
| 9 * | 555 | 555 | 552 | 553 | 556 | 559 | 554 | 544 | 533 | 528 | 528 | 528 | 532 | 530 | 546 | 557 | 560 | 564 | 566 | 562 | 560 | 562 | 566 | 563 | | | | | |
| 10 | 557 | 556 | 556 | 558 | 558 | 574 | 569 | 559 | 544 | 539 | 538 | 535 | 543 | 547 | 555 | 567 | 564 | 570 | 563 | 562 | 575 | 571 | 565 | 563 | | | | | |
| 11 * | 558 | 562 | 559 | 561 | 562 | 559 | 558 | 557 | 549 | 535 | 522 | 522 | 517 | 522 | 539 | 548 | 552 | 556 | 562 | 571 | 570 | 573 | 571 | 562 | | | | | |
| 12 | 557 | 556 | 561 | 564 | 561 | 560 | 550 | 537 | 530 | 528 | 527 | 535 | 538 | 523 | 530 | 542 | 552 | 561 | 564 | 566 | 568 | 569 | 568 | 559 | | | | | |
| 13 | 555 | 559 | 557 | 544 | 545 | 549 | 544 | 544 | 540 | 539 | 532 | 538 | 545 | 540 | 562 | 557 | 571 | 589 | 595 | 598 | 589 | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| July | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 548 | 541 | 540 | 538 | 537 | 535 | 534 | 515 | 519 | 516 | 498 | 524 | 538 | 539 | 546 | 550 | 555 | 554 | 560 | 566 | 554 | 553 | 553 | 553 |
| 2 | 553 | 555 | 548 | 545 | 552 | 537 | 538 | 528 | 527 | 521 | 519 | 519 | 515 | 533 | 549 | 534 | 546 | 561 | 562 | 562 | 561 | 558 | 555 | 550 |
| 3 ** | 555 | 562 | 564 | 575 | 569 | 565 | 555 | 534 | 519 | 493 | 497 | 508 | 490 | 505 | 533 | 560 | 561 | 565 | 593 | 528 | 520 | 542 | 533 | 563 |
| 4 ** | 546 | 529 | 533 | 525 | 528 | 524 | 515 | 513 | 510 | 499 | 485 | 493 | 511 | 522 | 553 | 582 | 598 | 618 | 584 | 573 | 546 | 533 | 535 | 546 |
| 5 ** | 537 | 551 | 551 | 550 | 538 | 537 | 497 | 470 | 443 | 425 | 407 | 418 | 436 | 455 | 517 | 539 | 609 | 584 | 582 | 553 | 516 | 520 | 500 | 497 |
| 6 | 496 | 488 | 511 | 508 | 506 | 508 | 497 | 474 | 461 | 456 | 474 | 483 | 497 | 493 | 505 | 509 | 515 | 522 | 528 | 533 | 537 | 531 | 533 | 529 |
| 7 * | 524 | 521 | 522 | 524 | 525 | 528 | 528 | 521 | 508 | 497 | 489 | 491 | 502 | 506 | 515 | 528 | 534 | 538 | 541 | 542 | 546 | 542 | 537 | 538 |
| 8 | 536 | 533 | 532 | 532 | 536 | 536 | 532 | 527 | 522 | 519 | 513 | 511 | 521 | 534 | 545 | 549 | 554 | 559 | 568 | 568 | 546 | 552 | 551 | 548 |
| 9 * | 539 | 541 | 541 | 536 | 541 | 539 | 532 | 527 | 519 | 518 | 512 | 516 | 518 | 523 | 538 | 540 | 545 | 544 | 550 | 554 | 555 | 551 | 549 | 545 |
| 10 * | 545 | 544 | 550 | 548 | 546 | 546 | 540 | 530 | 523 | 527 | 534 | 541 | 545 | 546 | 545 | 552 | 554 | 555 | 564 | 568 | 568 | 563 | 558 | 555 |
| 11 | 554 | 554 | 555 | 554 | 553 | 547 | 539 | 538 | 538 | 543 | 549 | 550 | 571 | 585 | 553 | 543 | 559 | 576 | 585 | 558 | 561 | 558 | 556 | 567 |
| 12 | 554 | 552 | 552 | 549 | 546 | 540 | 537 | 533 | 530 | 538 | 544 | 551 | 564 | 566 | 565 | 571 | 585 | 583 | 545 | 542 | 543 | 540 | 539 | 536 |
| 13 * | 536 | 535 | 536 | 536 | 540 | 535 | 531 | 524 | 513 | 508 | 503 | 504 | 507 | 507 | 512 | 522 | 539 | 549 | 562 | 568 | 562 | 567 | 564 | 568 |
| 14 | 567 | 567 | 549 | 553 | 575 | 567 | 554 | 545 | 564 | 549 | 508 | 514 | 488 | 499 | 525 | 546 | 522 | 518 | 540 | 540 | 549 | 544 | 540 | 505 |
| 15 | 517 | 529 | 521 | 517 | 519 | 520 | 517 | 510 | 506 | 509 | 509 | 504 | 513 | 528 | 530 | 529 | 549 | 553 | 559 | 568 | 563 | 545 | 558 | 544 |
| 16 | 542 | 544 | 543 | 554 | 549 | 542 | 532 | 531 | 512 | 495 | 500 | 522 | 535 | 536 | 530 | 548 | 561 | 595 | 575 | 595 | 594 | 550 | 535 | 544 |
| 17 | 549 | 543 | 520 | 540 | 540 | 517 | 499 | 492 | 482 | 495 | 504 | 506 | 503 | 522 | 532 | 531 | 532 | 563 | 563 | 580 | 550 | 568 | 554 | 553 |
| 18 | 537 | 563 | 545 | 543 | 542 | 533 | 522 | 517 | 515 | 508 | 506 | 510 | 514 | 519 | 528 | 546 | 549 | 542 | 559 | 553 | 549 | 547 | 544 | 542 |
| 19 | 544 | 544 | 544 | 544 | 541 | 539 | 522 | 521 | 519 | 513 | 511 | 509 | 522 | 528 | 536 | 545 | 558 | 569 | 571 | 568 | 564 | 572 | 597 | 568 |
| 20 ** | 592 | 542 | 542 | 542 | 541 | 528 | 546 | 519 | 510 | 483 | 458 | 474 | 487 | 492 | 489 | 517 | 535 | 521 | 531 | 527 | 533 | 544 | 535 | 537 |
| 21 ** | 539 | 534 | 539 | 537 | 531 | 524 | 521 | 516 | 512 | 495 | 494 | 454 | 485 | 485 | 454 | 499 | 506 | 529 | 517 | 529 | 535 | 535 | 536 | 535 |
| 22 | 532 | 534 | 540 | 531 | 508 | 534 | 534 | 520 | 507 | 506 | 498 | 488 | 484 | 489 | 512 | 530 | 543 | 540 | 541 | 552 | 567 | 552 | 543 | 550 |
| 23 | 549 | 537 | 524 | 534 | 538 | 534 | 526 | 520 | 519 | 506 | 494 | 493 | 503 | 519 | 517 | 526 | 532 | 540 | 539 | 545 | 543 | 538 | 535 | 532 |
| 24 | 536 | 539 | 543 | 548 | 548 | 545 | 534 | 525 | 520 | 523 | 522 | 527 | 526 | 507 | 521 | 541 | 539 | 538 | 538 | 550 | 559 | 565 | 563 | 555 |
| 25 | 552 | 559 | 548 | 550 | 553 | 534 | 518 | 532 | 521 | 517 | 516 | 503 | 499 | 502 | 515 | 525 | 532 | 543 | 553 | 552 | 550 | 546 | 545 | 547 |
| 26 | 546 | 550 | 554 | 557 | 548 | 580 | 550 | 518 | 486 | 531 | 529 | 528 | 507 | 481 | 491 | 542 | 530 | 548 | 556 | 550 | 548 | 548 | 531 | 534 |
| 27 | 530 | 532 | 529 | 517 | 523 | 529 | 517 | 510 | 516 | 521 | 515 | 514 | 516 | 516 | 522 | 529 | 527 | 556 | 563 | 555 | 550 | 548 | 552 | 539 |
| 28 | 526 | 527 | 530 | 531 | 535 | 539 | 524 | 525 | 528 | 523 | 509 | 500 | 511 | 521 | 520 | 531 | 547 | 557 | 552 | 558 | 549 | 548 | 548 | 552 |
| 29 | 539 | 536 | 538 | 537 | 534 | 535 | 525 | 512 | 503 | 502 | 513 | 522 | 530 | 539 | 538 | 539 | 539 | 552 | 547 | 552 | 548 | 543 | 542 | 542 |
| 30 * | 544 | 548 | 548 | 545 | 534 | 541 | 538 | 530 | 523 | 522 | 528 | 532 | 536 | 537 | 538 | 536 | 540 | 548 | 552 | 551 | 552 | 548 | 548 | 543 |
| 31 | 545 | 543 | 548 | 545 | 550 | 554 | 539 | 532 | 532 | 523 | 512 | 504 | 509 | 519 | 528 | 533 | 543 | 543 | 552 | 555 | 559 | 557 | 557 | 554 |
| Mean | 542 | 541 | 540 | 540 | 540 | 537 | 529 | 520 | 513 | 509 | 505 | 507 | 512 | 518 | 526 | 536 | 546 | 554 | 556 | 553 | 550 | 549 | 546 | 543 |
| Mean * | 538 | 538 | 539 | 537 | 537 | 538 | 534 | 528 | 517 | 514 | 513 | 517 | 522 | 524 | 529 | 536 | 542 | 547 | 554 | 555 | 557 | 554 | 551 | 548 |
| Mean ** | 554 | 544 | 546 | 546 | 541 | 536 | 527 | 510 | 499 | 479 | 468 | 469 | 482 | 492 | 509 | 539 | 562 | 563 | 561 | 542 | 530 | 535 | 528 | 534 |
| August | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 554 | 541 | 534 | 536 | 543 | 539 | 537 | 524 | 516 | 508 | 514 | 522 | 525 | 525 | 533 | 547 | 557 | 557 | 557 | 559 | 561 | 558 | 556 | 550 |
| 2 * | 549 | 548 | 548 | 544 | 545 | 539 | 534 | 527 | 523 | 523 | 519 | 518 | 523 | 524 | 531 | 536 | 543 | 550 | 556 | 557 | 554 | 551 | 549 | 548 |
| 3 * | 548 | 548 | 548 | 550 | 550 | 550 | 544 | 530 | 518 | 512 | 512 | 516 | 522 | 532 | 545 | 548 | 549 | 548 | 552 | 557 | 559 | 558 | 559 | 556 |
| 4 | 553 | 552 | 552 | 554 | 552 | 552 | 548 | 541 | 534 | 525 | 516 | 524 | 535 | 540 | 548 | 546 | 568 | 570 | 565 | 564 | 569 | 560 | 560 | 558 |
| 5 * | 559 | 557 | 556 | 557 | 558 | 557 | 552 | 543 | 530 | 524 | 526 | 532 | 530 | 534 | 544 | 554 | 557 | 562 | 567 | 575 | 575 | 575 | 571 | 563 |
| 6 * | 566 | 559 | 557 | 561 | 558 | 554 | 548 | 539 | 530 | 526 | 522 | 526 | 529 | 535 | 541 | 550 | 564 | 566 | 566 | 569 | 570 | 566 | 562 | 555 |
| 7 * | 562 | 562 | 556 | 552 | 552 | 552 | 548 | 540 | 534 | 528 | 523 | 521 | 532 | 535 | 543 | 546 | 552 | 556 | 563 | 565 | 566 | 563 | 561 | 558 |
| 8 | 568 | 567 | 555 | 557 | 555 | 552 | 552 | 548 | 544 | 540 | 534 | 529 | 532 | 536 | 548 | 556 | 566 | 560 | 568 | 584 | 570 | 567 | 561 | 557 |
| 9 | 565 | 564 | 555 | 555 | 555 | 553 | 545 | 539 | 533 | 526 | 518 | 523 | 536 | 540 | 541 | 548 | 557 | 561 | 567 | 571 | 567 | 564 | 563 | 561 |
| 10 | 558 | 557 | 557 | 552 | 551 | 549 | 549 | 540 | 530 | 509 | 508 | 512 | 554 | 551 | 552 | 550 | 567 | 579 | 580 | 587 | 546 | 552 | 558 | 557 |
| 11 | 550 | 553 | 546 | 542 | 543 | 540 | 528 | 515 | 512 | 511 | 510 | 513 | 529 | 525 | 519 | 529 | 560 | 556 | 574 | 579 | 577 | 578 | 574 | 542 |
| 12 ** | 552 | 567 | 584 | 526 | 481 | 475 | 442 | 448 | 408 | 392 | 424 | 463 | 480 | 484 | 480 | 511 | 524 | 520 | 530 | 530 | 518 | 520 | 491 | 515 |
| 13 ** | 516 | 502 | 487 | 485 | 482 | 492 | 487 | 475 | 465 | 462 | 462 | 483 | 479 | 493 | 499 | 526 | 560 | 536 | 528 | 541 | 542 | 530 | 524 | 524 |
| 14 | 523 | 522 | 517 | 512 | 511 | 485 | 495 | 501 | 489 | 483 | 480 | 481 | 487 | 491 | 498 | 509 | 520 | 519 | 525 | 525 | 526 | 527 | 527 | 527 |
| 15 | 528 | 525 | 524 | 524 | 524 | 521 | 515 | 503 | 501 | 505 | 502 | 508 | 518 | 522 | 525 | 535 | 542 | 533 | 534 | 548 | 547 | 548 | 547 | 540 |
| 16 ** | 542 | 537 | 537 | 539 | 550 | 536 | 515 | 515 | 519 | 515 | 504 | 504 | 508 | 527 | 555 | 607 | 459 | 483 | 503 | 525 | 527 | 521 | 520 | 521 |
| 17 | 524 | 540 | 515 | 494 | 509 | 513 | 502 | 481 | 459 | 462 | 470 | 479 | 465 | 494 | 512 | 502 | 498 | 518 | 531 | 544 | 543 | 531 | 528 | 526 |
| 18 | 527 | 527 | 526 | 529 | 529 | 524 | 513 | 499 | 485 | 475 | 473 | 482 | 493 | 503 | 512 | 522 | 533 | 547 | 547 | 548 | 545 | 543 | 547 | 534 |
| 19 | 532 | 532 | 531 | 532 | 540 | 538 | 538 | 527 | 503 | 496 | 494 | 510 | 526 | 542 | 551 | 562 | 531 | 522 | 546 | 545 | 542 | 538 | 536 | 535 |
| 20 | 534 | 535 | 538 | 534 | 537 | 534 | 524 | 514 | 502 | 502 | 512 | 526 | 537 | 543 | 545 | 532 | 535 | 543 | 547 | 556 | 562 | 558 | 556 | 553 |
| 21 ** | 548 | 547 | 545 | 542 | 542 | 542 | 538 | 529 | 516 | 515 | 518 | 529 | 543 | 547 | 540 | 542 | 546 | 542 | 554 | 553 | 555 | 567 | 568 | 577 |
| 22 ** | 574 | 568 | 531 | 487 | 485 | 508 | 509 | 509 | 509 | 494 | 489 | 475 | 473 | 461 | 458 | 521 | 535 | 531 | 482 | 472 | 489 | 440 | 434 | 432 |
| 23 ** | 430 | 465 | 467 | 466 | 499 | 438 | 403 | 416 | 373 | 368 | 366 | 427 | 430 | 470 | 487 | 486 | 508 | 503 | 511 | 512 | 513 | 515 | 522 | 506 |
| 24 | 518 | 507 | 504 | 511 | 514 | 514 | 512 | | | | | | | | | | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| September | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 546 | 546 | 546 | 546 | 544 | 540 | 532 | 521 | 507 | 505 | 503 | 512 | 531 | 543 | 547 | 542 | 529 | 537 | 549 | 551 | 548 | 547 | 543 | 543 | | |
| 2 | 543 | 542 | 546 | 547 | 548 | 548 | 541 | 533 | 528 | 520 | 520 | 524 | 535 | 550 | 556 | 566 | 560 | 550 | 549 | 552 | 557 | 569 | 565 | 562 | | |
| 3 ** | 547 | 555 | 584 | 561 | 555 | 519 | 504 | 481 | 475 | 499 | 482 | 480 | 500 | 513 | 524 | 526 | 517 | 531 | 537 | 549 | 541 | 522 | 535 | 536 | | |
| 4 | 537 | 538 | 532 | 529 | 529 | 521 | 515 | 505 | 497 | 489 | 480 | 487 | 501 | 521 | 532 | 530 | 532 | 532 | 534 | 537 | 541 | 539 | 541 | 537 | | |
| 5 * | 535 | 536 | 537 | 538 | 539 | 539 | 537 | 532 | 526 | 514 | 498 | 498 | 511 | 523 | 531 | 537 | 543 | 544 | 548 | 547 | 544 | 543 | 543 | 556 | | |
| 6 | 541 | 537 | 543 | 542 | 544 | 544 | 536 | 527 | 524 | 522 | 518 | 519 | 525 | 528 | 528 | 528 | 534 | 541 | 553 | 555 | 560 | 550 | 548 | 559 | | |
| 7 | 548 | 548 | 541 | 537 | 539 | 541 | 541 | 532 | 523 | 511 | 503 | 504 | 517 | 518 | 515 | 520 | 533 | 542 | 546 | 550 | 548 | 551 | 552 | 552 | | |
| 8 | 546 | 546 | 544 | 546 | 546 | 547 | 546 | 541 | 534 | 519 | 505 | 502 | 513 | 524 | 532 | 535 | 541 | 540 | 549 | 555 | 562 | 561 | 561 | 565 | | |
| 9 ** | 563 | 567 | 549 | 555 | 563 | 548 | 528 | 542 | 524 | 505 | 500 | 493 | 502 | 495 | 504 | 514 | 520 | 531 | 536 | 540 | 531 | 537 | 542 | 542 | | |
| 10 | 543 | 541 | 536 | 543 | 540 | 527 | 531 | 526 | 518 | 505 | 504 | 509 | 520 | 522 | 513 | 513 | 518 | 531 | 533 | 531 | 540 | 536 | 537 | 533 | | |
| 11 | 534 | 537 | 534 | 531 | 530 | 528 | 521 | 515 | 503 | 491 | 488 | 492 | 504 | 515 | 522 | 529 | 524 | 528 | 533 | 538 | 536 | 538 | 539 | 540 | | |
| 12 | 538 | 540 | 533 | 537 | 531 | 531 | 527 | 517 | 498 | 502 | 500 | 504 | 517 | 518 | 520 | 531 | 529 | 532 | 540 | 538 | 545 | 547 | 535 | 538 | | |
| 13 | 543 | 536 | 533 | 536 | 534 | 528 | 521 | 511 | 500 | 495 | 494 | 515 | 523 | 535 | 540 | 540 | 535 | 537 | 542 | 543 | 545 | 551 | 554 | 554 | | |
| 14 | 534 | 542 | 540 | 551 | 529 | 527 | 523 | 509 | 500 | 495 | 493 | 513 | 521 | 527 | 535 | 532 | 524 | 531 | 536 | 539 | 544 | 536 | 544 | 537 | | |
| 15 | 542 | 549 | 540 | 540 | 538 | 531 | 527 | 515 | 507 | 501 | 501 | 505 | 514 | 523 | 531 | 535 | 545 | 549 | 549 | 547 | 548 | 553 | 551 | 549 | | |
| 16 | 535 | 544 | 544 | 544 | 544 | 536 | 531 | 524 | 514 | 507 | 508 | 520 | 523 | 527 | 524 | 537 | 545 | 551 | 553 | 562 | 557 | 558 | 554 | 549 | | |
| 17 ** | 552 | 567 | 549 | 550 | 552 | 518 | 531 | 528 | 522 | 510 | 501 | 504 | 500 | 488 | 494 | 513 | 532 | 508 | 461 | 477 | 467 | 461 | 470 | 481 | | |
| 18 | 505 | 497 | 493 | 496 | 501 | 505 | 505 | 502 | 491 | 473 | 464 | 469 | 479 | 486 | 489 | 493 | 509 | 512 | 522 | 525 | 524 | 525 | 527 | 527 | | |
| 19 ** | 528 | 527 | 530 | 536 | 536 | 535 | 546 | 520 | 502 | 478 | 449 | 459 | 474 | 475 | 490 | 498 | 492 | 482 | 498 | 515 | 526 | 523 | 505 | 504 | | |
| 20 ** | 492 | 535 | 511 | 508 | 528 | 536 | 500 | 503 | 495 | 453 | 467 | 467 | 478 | 474 | 491 | 488 | 500 | 511 | 542 | 536 | 526 | 531 | 536 | 541 | | |
| 21 | 527 | 522 | 516 | 524 | 524 | 525 | 520 | 511 | 504 | 502 | 488 | 494 | 506 | 504 | 515 | 520 | 526 | 523 | 536 | 542 | 552 | 541 | 539 | 535 | | |
| 22 | 532 | 532 | 528 | 528 | 530 | 528 | 530 | 521 | 504 | 509 | 498 | 494 | 509 | 506 | 514 | 518 | 507 | 528 | 528 | 534 | 537 | 564 | 551 | 537 | | |
| 23 | 528 | 528 | 528 | 529 | 530 | 533 | 535 | 530 | 525 | 517 | 511 | 508 | 507 | 510 | 514 | 517 | 525 | 530 | 538 | 541 | 539 | 546 | 535 | 535 | | |
| 24 * | 535 | 537 | 536 | 539 | 537 | 537 | 550 | 543 | 524 | 505 | 496 | 501 | 506 | 510 | 515 | 518 | 522 | 529 | 537 | 541 | 535 | 539 | 539 | 541 | | |
| 25 | 542 | 539 | 539 | 540 | 541 | 539 | 539 | 534 | 529 | 519 | 517 | 510 | 522 | 533 | 542 | 544 | 539 | 534 | 527 | 534 | 539 | 546 | 544 | 532 | | |
| 26 | 539 | 548 | 528 | 528 | 521 | 503 | 503 | 501 | 499 | 494 | 499 | 506 | 513 | 521 | 514 | 510 | 522 | 533 | 531 | 544 | 530 | 535 | 544 | 545 | | |
| 27 | 529 | 529 | 529 | 529 | 527 | 528 | 528 | 524 | 514 | 502 | 498 | 501 | 507 | 518 | 525 | 530 | 539 | 536 | 535 | 537 | 551 | 540 | 536 | 538 | | |
| 28 * | 541 | 544 | 535 | 532 | 532 | 532 | 530 | 523 | 519 | 515 | 513 | 517 | 523 | 528 | 530 | 531 | 535 | 541 | 544 | 540 | 543 | 543 | 542 | 543 | | |
| 29 * | 540 | 539 | 540 | 539 | 541 | 539 | 536 | 533 | 526 | 521 | 513 | 517 | 529 | 539 | 548 | 547 | 548 | 547 | 548 | 550 | 550 | 551 | 547 | 545 | | |
| 30 | 539 | 539 | 543 | 545 | 546 | 546 | 546 | 539 | 526 | 518 | 510 | 507 | 517 | 530 | 539 | 530 | 530 | 534 | 530 | 508 | 514 | 517 | 521 | 517 | | |
| Mean | 537 | 539 | 536 | 537 | 537 | 532 | 529 | 521 | 512 | 503 | 498 | 501 | 511 | 517 | 523 | 528 | 529 | 532 | 536 | 539 | 539 | 540 | 539 | 539 | | |
| Mean * | 539 | 540 | 539 | 539 | 539 | 537 | 537 | 530 | 520 | 512 | 505 | 509 | 520 | 529 | 534 | 535 | 536 | 540 | 545 | 546 | 544 | 545 | 543 | 546 | | |
| Mean ** | 536 | 546 | 545 | 542 | 546 | 531 | 522 | 515 | 504 | 489 | 480 | 481 | 491 | 489 | 501 | 508 | 512 | 513 | 515 | 523 | 516 | 515 | 518 | 521 | | |
| October | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 518 | 533 | 535 | 531 | 527 | 531 | 530 | 522 | 512 | 506 | 508 | 512 | 525 | 535 | 536 | 539 | 542 | 551 | 550 | 546 | 548 | 542 | 544 | 539 | | |
| 2 | 539 | 540 | 539 | 540 | 537 | 541 | 541 | 534 | 526 | 513 | 505 | 510 | 519 | 528 | 541 | 544 | 548 | 551 | 556 | 557 | 557 | 557 | 561 | 558 | | |
| 3 ** | 557 | 551 | 550 | 553 | 553 | 548 | 545 | 532 | 506 | 485 | 474 | 483 | 493 | 497 | 458 | 477 | 500 | 496 | 472 | 469 | 469 | 464 | 465 | 492 | | |
| 4 ** | 501 | 487 | 440 | 478 | 487 | 476 | 487 | 481 | 456 | 447 | 446 | 454 | 463 | 467 | 494 | 502 | 508 | 510 | 505 | 517 | 508 | 515 | 509 | 509 | | |
| 5 | 521 | 515 | 508 | 510 | 512 | 510 | 508 | 500 | 495 | 472 | 448 | 460 | 478 | 485 | 495 | 508 | 517 | 516 | 517 | 534 | 526 | 521 | 526 | 525 | | |
| 6 | 534 | 519 | 537 | 565 | 539 | 494 | 499 | 510 | 490 | 473 | 484 | 483 | 490 | 493 | 509 | 512 | 512 | 518 | 521 | 518 | 503 | 512 | 523 | 526 | | |
| 7 | 523 | 518 | 519 | 519 | 521 | 524 | 525 | 517 | 509 | 502 | 505 | 514 | 522 | 518 | 515 | 526 | 511 | 494 | 501 | 524 | 508 | 500 | 530 | 520 | | |
| 8 | 516 | 517 | 517 | 515 | 514 | 519 | 521 | 514 | 512 | 505 | 508 | 507 | 508 | 514 | 518 | 521 | 526 | 540 | 546 | 538 | 544 | 537 | 528 | 521 | | |
| 9 | 526 | 543 | 521 | 532 | 522 | 521 | 507 | 440 | 519 | 505 | 496 | 499 | 501 | 458 | 467 | 502 | 502 | 503 | 506 | 504 | 512 | 521 | 524 | 523 | | |
| 10 | 520 | 520 | 519 | 520 | 522 | 524 | 527 | 520 | 506 | 493 | 481 | 482 | 495 | 493 | 507 | 511 | 521 | 527 | 529 | 533 | 532 | 535 | 547 | 536 | | |
| 11 | 538 | 536 | 532 | 541 | 543 | 547 | 549 | 539 | 524 | 513 | 498 | 500 | 506 | 518 | 520 | 529 | 537 | 535 | 540 | 544 | 545 | 549 | 534 | 525 | | |
| 12 * | 527 | 533 | 529 | 528 | 528 | 532 | 532 | 525 | 514 | 504 | 495 | 494 | 499 | 509 | 521 | 529 | 531 | 536 | 538 | 538 | 542 | 543 | 543 | 542 | | |
| 13 ** | 545 | 547 | 566 | 561 | 565 | 528 | 529 | 526 | 522 | 498 | 505 | 502 | 502 | 503 | 527 | 530 | 547 | 510 | 481 | 481 | 386 | 383 | 357 | 444 | | |
| 14 ** | 444 | 446 | 459 | 496 | 479 | 484 | 436 | 486 | 431 | 408 | 406 | 442 | 422 | 452 | 465 | 473 | 481 | 517 | 495 | 480 | 530 | 516 | 505 | 515 | | |
| 15 ** | 491 | 497 | 545 | 545 | 449 | 484 | 475 | 472 | 468 | 453 | 431 | 436 | 459 | 484 | 485 | 475 | 495 | 507 | 520 | 485 | 490 | 493 | 494 | 502 | | |
| 16 | 502 | 513 | 520 | 511 | 513 | 525 | 507 | 502 | 481 | 455 | 446 | 445 | 469 | 466 | 491 | 495 | 491 | 522 | 488 | 502 | 492 | 498 | 513 | 504 | | |
| 17 | 507 | 505 | 511 | 516 | 516 | 520 | 511 | 520 | 508 | 490 | 463 | 444 | 472 | 495 | 505 | 484 | 494 | 499 | 520 | 489 | 466 | 520 | 517 | 525 | | |
| 18 | 516 | 523 | 542 | 529 | 529 | 525 | 512 | 515 | 513 | 489 | 455 | 461 | 466 | 484 | 481 | 475 | 490 | 493 | 470 | 499 | 534 | 524 | 517 | 538 | | |
| 19 | 548 | 513 | 520 | 514 | 517 | 525 | 513 | 504 | 484 | 462 | 444 | 462 | 478 | 489 | 493 | 487 | 475 | 489 | 502 | 508 | 496 | 504 | 516 | 520 | | |
| 20 * | 520 | 525 | 522 | 519 | 527 | 529 | 525 | 523 | 513 | 493 | 475 | 478 | 489 | 488 | 508 | 512 | 518 | 525 | 529 | 531 | 531 | 532 | 534 | 534 | | |
| 21 | 533 | 531 | 529 | 529 | 529 | 534 | 541 | 549 | 533 | 511 | 494 | 493 | 504 | 502 | 496 | 511 | 521 | 529 | 528 | 498 | 525 | 538 | 529 | 551 | | |
| 22 | 527 | 523 | 525 | 523 | 526 | 531 | 532 | 531 | 527 | 513 | 502 | 499 | 503 | 515 | 523 | 526 | 527 | 533 | 535 | 531 | 526 | 529 | 530 | 537 | | |
| 23 | 533 | 533 | 533 | 531 | 535 | 542 | 541 | 538 | 520 | 500 | 495 | 494 | 487 | 480 | 498 | 498 | 498 | 519 | 513 | 521 | 520 | 527 | 523 | 517 | | |
| 24 | 535 | 525 | 522 | 519 | 518 | 516 | 522 | 519 | 507 | 495 | 492 | 497 | 496 | 505 | 515 | 519 | 527 | 534 | 536 | 534 | 536 | 536 | 536 | 536 | | |
| 25 * | 537 | 534 | 529 | 531 | 533 | 535 | 539 | 533 | 527 | | | | | | | | | | | | | | | | | |

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| November | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 536 | 534 | 540 | 538 | 545 | 545 | 543 | 538 | 529 | 516 | 514 | 498 | 498 | 506 | 514 | 519 | 523 | 523 | 520 | 525 | 534 | 535 | 534 | 532 |
| 2 | 533 | 534 | 536 | 539 | 548 | 552 | 547 | 543 | 534 | 519 | 509 | 507 | 506 | 514 | 518 | 525 | 531 | 538 | 540 | 539 | 543 | 539 | 539 | 539 |
| 3 | 538 | 540 | 547 | 539 | 540 | 540 | 544 | 548 | 543 | 529 | 522 | 515 | 510 | 522 | 524 | 528 | 533 | 535 | 538 | 542 | 545 | 541 | 549 | 543 |
| 4 | 534 | 534 | 534 | 535 | 537 | 540 | 539 | 548 | 549 | 540 | 532 | 523 | 527 | 527 | 530 | 538 | 541 | 545 | 544 | 544 | 544 | 543 | 540 | 537 |
| 5 | 533 | 536 | 533 | 533 | 535 | 538 | 540 | 544 | 541 | 528 | 512 | 520 | 530 | 527 | 529 | 533 | 532 | 542 | 539 | 541 | 538 | 542 | 541 | 539 |
| 6 | 540 | 539 | 537 | 543 | 543 | 543 | 541 | 544 | 538 | 535 | 533 | 531 | 531 | 533 | 537 | 537 | 542 | 537 | 534 | 533 | 533 | 533 | 541 | 537 |
| 7 | 539 | 533 | 528 | 528 | 534 | 538 | 541 | 540 | 536 | 530 | 525 | 519 | 520 | 524 | 528 | 531 | 512 | 520 | 530 | 538 | 539 | 545 | 542 | 543 |
| 8 * | 537 | 537 | 536 | 536 | 540 | 539 | 542 | 540 | 536 | 524 | 522 | 524 | 525 | 524 | 537 | 536 | 538 | 541 | 544 | 547 | 544 | 544 | 544 | 542 |
| 9 | 542 | 539 | 539 | 537 | 540 | 542 | 542 | 538 | 533 | 521 | 521 | 519 | 521 | 529 | 537 | 541 | 545 | 541 | 543 | 542 | 545 | 546 | 543 | 543 |
| 10 * | 539 | 539 | 537 | 537 | 545 | 543 | 540 | 538 | 531 | 528 | 528 | 528 | 529 | 535 | 540 | 540 | 541 | 535 | 533 | 529 | 531 | 537 | 541 | 541 |
| 11 | 540 | 539 | 541 | 546 | 544 | 546 | 547 | 546 | 541 | 532 | 530 | 529 | 533 | 535 | 535 | 538 | 544 | 544 | 537 | 542 | 548 | 537 | 527 | 524 |
| 12 ** | 527 | 519 | 531 | 537 | 542 | 546 | 548 | 546 | 540 | 533 | 525 | 511 | 510 | 524 | 525 | 509 | 519 | 528 | 534 | 534 | 533 | 530 | 534 | 535 |
| 13 ** | 527 | 519 | 533 | 550 | 575 | 550 | 532 | 508 | 512 | 515 | 497 | 484 | 473 | 479 | 478 | 503 | 488 | 483 | 488 | 509 | 511 | 524 | 510 | 515 |
| 14 ** | 519 | 542 | 533 | 533 | 542 | 519 | 517 | 523 | 517 | 510 | 491 | 499 | 505 | 510 | 505 | 500 | 509 | 502 | 501 | 501 | 510 | 512 | 522 | 515 |
| 15 | 520 | 521 | 521 | 521 | 524 | 532 | 536 | 533 | 528 | 524 | 515 | 511 | 506 | 504 | 511 | 509 | 528 | 527 | 529 | 529 | 537 | 531 | 527 | 527 |
| 16 | 526 | 529 | 533 | 534 | 537 | 539 | 538 | 540 | 537 | 528 | 519 | 515 | 510 | 517 | 521 | 524 | 528 | 528 | 524 | 524 | 526 | 533 | 537 | 537 |
| 17 | 535 | 535 | 535 | 537 | 540 | 544 | 542 | 541 | 540 | 533 | 528 | 526 | 526 | 533 | 537 | 541 | 545 | 550 | 546 | 540 | 535 | 537 | 537 | 530 |
| 18 * | 533 | 534 | 537 | 541 | 544 | 548 | 546 | 544 | 533 | 521 | 517 | 515 | 518 | 526 | 532 | 538 | 546 | 550 | 550 | 549 | 548 | 550 | 547 | 546 |
| 19 | 543 | 542 | 544 | 546 | 548 | 551 | 552 | 550 | 544 | 540 | 531 | 529 | 531 | 534 | 524 | 519 | 542 | 517 | 516 | 516 | 529 | 539 | 539 | 533 |
| 20 | 526 | 532 | 529 | 529 | 531 | 542 | 538 | 536 | 532 | 522 | 519 | 518 | 519 | 524 | 527 | 530 | 533 | 537 | 542 | 537 | 533 | 529 | 530 | 531 |
| 21 | 531 | 531 | 536 | 535 | 534 | 537 | 541 | 540 | 534 | 528 | 525 | 520 | 524 | 525 | 530 | 533 | 537 | 542 | 542 | 544 | 546 | 544 | 542 | 542 |
| 22 * | 541 | 540 | 540 | 540 | 542 | 546 | 546 | 544 | 539 | 531 | 524 | 523 | 526 | 536 | 539 | 546 | 551 | 551 | 552 | 552 | 551 | 543 | 542 | 541 |
| 23 * | 541 | 541 | 544 | 546 | 551 | 556 | 557 | 553 | 546 | 535 | 533 | 534 | 539 | 541 | 546 | 549 | 550 | 551 | 551 | 549 | 550 | 550 | 550 | 548 |
| 24 | 544 | 546 | 545 | 547 | 546 | 546 | 550 | 547 | 543 | 539 | 533 | 534 | 539 | 542 | 541 | 548 | 551 | 553 | 555 | 539 | 521 | 523 | 509 | 510 |
| 25 ** | 518 | 519 | 520 | 528 | 530 | 546 | 548 | 535 | 527 | 510 | 496 | 491 | 500 | 509 | 514 | 511 | 515 | 522 | 532 | 531 | 503 | 450 | 467 | 492 |
| 26 ** | 509 | 533 | 524 | 527 | 527 | 530 | 528 | 536 | 526 | 509 | 508 | 498 | 509 | 508 | 505 | 514 | 518 | 521 | 521 | 518 | 525 | 529 | 527 | 528 |
| 27 | 527 | 529 | 531 | 531 | 541 | 536 | 538 | 536 | 529 | 520 | 516 | 506 | 520 | 527 | 530 | 532 | 534 | 535 | 518 | 528 | 533 | 532 | 534 | 538 |
| 28 | 536 | 533 | 534 | 540 | 543 | 548 | 543 | 544 | 538 | 527 | 513 | 508 | 514 | 511 | 516 | 521 | 530 | 529 | 529 | 526 | 525 | 534 | 534 | 534 |
| 29 | 532 | 532 | 536 | 539 | 540 | 538 | 539 | 543 | 538 | 518 | 513 | 518 | 520 | 519 | 518 | 515 | 524 | 534 | 538 | 536 | 534 | 539 | 539 | 534 |
| 30 | 535 | 537 | 539 | 544 | 545 | 546 | 549 | 543 | 544 | 533 | 526 | 520 | 527 | 528 | 527 | 532 | 537 | 541 | 533 | 526 | 524 | 522 | 522 | 530 |
| Mean | 533 | 534 | 535 | 537 | 541 | 542 | 542 | 540 | 535 | 526 | 519 | 515 | 518 | 522 | 525 | 528 | 532 | 533 | 533 | 534 | 534 | 533 | 533 | 534 |
| Mean * | 538 | 538 | 539 | 540 | 544 | 546 | 546 | 544 | 537 | 527 | 525 | 525 | 527 | 532 | 539 | 542 | 545 | 546 | 546 | 545 | 545 | 545 | 545 | 544 |
| Mean ** | 520 | 526 | 528 | 535 | 543 | 538 | 535 | 530 | 524 | 515 | 503 | 493 | 499 | 506 | 505 | 507 | 510 | 511 | 515 | 519 | 516 | 509 | 512 | 517 |
| December | | | | | | | | | | | | | | | | | | | | | | | | |
| 18000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 537 | 535 | 539 | 538 | 537 | 537 | 557 | 552 | 548 | 538 | 521 | 510 | 524 | 533 | 537 | 542 | 546 | 546 | 546 | 536 | 528 | 532 | 537 | 535 |
| 2 | 530 | 533 | 535 | 538 | 537 | 542 | 542 | 543 | 547 | 548 | 540 | 537 | 535 | 539 | 538 | 542 | 541 | 547 | 546 | 542 | 529 | 528 | 531 | 535 |
| 3 | 533 | 534 | 533 | 534 | 537 | 542 | 549 | 549 | 546 | 539 | 536 | 535 | 537 | 539 | 543 | 548 | 551 | 552 | 552 | 549 | 544 | 535 | 519 | 524 |
| 4 | 528 | 519 | 526 | 526 | 528 | 533 | 537 | 543 | 542 | 536 | 532 | 530 | 535 | 537 | 539 | 542 | 545 | 548 | 546 | 546 | 546 | 544 | 543 | 540 |
| 5 | 539 | 535 | 537 | 537 | 542 | 545 | 546 | 548 | 546 | 542 | 535 | 534 | 531 | 526 | 525 | 528 | 516 | 515 | 508 | 501 | 492 | 517 | 521 | 510 |
| 6 ** | 519 | 524 | 523 | 524 | 525 | 530 | 537 | 543 | 540 | 533 | 526 | 526 | 533 | 538 | 542 | 546 | 546 | 551 | 544 | 539 | 521 | 489 | 468 | 476 |
| 7 ** | 503 | 490 | 507 | 542 | 522 | 530 | 530 | 517 | 512 | 507 | 512 | 504 | 497 | 499 | 458 | 488 | 499 | 484 | 471 | 473 | 489 | 497 | 530 | 526 |
| 8 ** | 515 | 517 | 527 | 539 | 536 | 533 | 523 | 531 | 504 | 512 | 502 | 493 | 491 | 506 | 511 | 484 | 501 | 499 | 506 | 501 | 512 | 515 | 519 | 532 |
| 9 | 541 | 528 | 532 | 526 | 536 | 532 | 533 | 526 | 517 | 525 | 517 | 506 | 498 | 483 | 511 | 514 | 512 | 514 | 528 | 528 | 529 | 530 | 528 | 532 |
| 10 | 531 | 532 | 532 | 532 | 534 | 534 | 536 | 535 | 532 | 526 | 520 | 518 | 516 | 514 | 514 | 524 | 529 | 536 | 536 | 535 | 527 | 532 | 531 | 532 |
| 11 | 530 | 531 | 534 | 536 | 541 | 537 | 545 | 542 | 530 | 525 | 521 | 516 | 521 | 521 | 527 | 529 | 534 | 532 | 536 | 538 | 536 | 541 | 538 | 538 |
| 12 | 538 | 534 | 532 | 536 | 539 | 541 | 544 | 539 | 539 | 536 | 533 | 529 | 532 | 534 | 538 | 532 | 541 | 527 | 532 | 540 | 539 | 532 | 540 | 529 |
| 13 | 528 | 530 | 531 | 535 | 538 | 546 | 549 | 542 | 537 | 531 | 524 | 524 | 524 | 522 | 513 | 526 | 537 | 540 | 540 | 538 | 538 | 539 | 538 | 537 |
| 14 * | 535 | 540 | 543 | 542 | 544 | 546 | 546 | 544 | 544 | 536 | 532 | 528 | 531 | 540 | 546 | 546 | 552 | 554 | 553 | 553 | 553 | 548 | 545 | 542 |
| 15 | 536 | 534 | 533 | 535 | 537 | 543 | 547 | 546 | 541 | 535 | 530 | 526 | 532 | 537 | 538 | 526 | 516 | 536 | 532 | 537 | 537 | 537 | 533 | 533 |
| 16 | 537 | 535 | 533 | 535 | 540 | 546 | 550 | 550 | 550 | 545 | 546 | 549 | 549 | 549 | 549 | 553 | 555 | 546 | 549 | 550 | 546 | 528 | 526 | 520 |
| 17 | 520 | 524 | 524 | 528 | 531 | 537 | 540 | 542 | 539 | 540 | 540 | 535 | 532 | 532 | 530 | 529 | 533 | 540 | 539 | 538 | 538 | 535 | 532 | 532 |
| 18 * | 530 | 531 | 535 | 538 | 540 | 541 | 542 | 541 | 542 | 541 | 537 | 533 | 532 | 534 | 535 | 535 | 540 | 546 | 548 | 546 | 546 | 544 | 540 | 539 |
| 19 * | 535 | 535 | 537 | 538 | 543 | 544 | 544 | 544 | 544 | 542 | 540 | 540 | 540 | 538 | 541 | 542 | 544 | 550 | 551 | 549 | 549 | 546 | 544 | 543 |
| 20 * | 542 | 542 | 542 | 544 | 546 | 548 | 549 | 547 | 548 | 546 | 543 | 541 | 550 | 550 | 553 | 556 | 557 | 558 | 558 | 550 | 551 | 540 | 540 | 539 |
| 21 ** | 541 | 540 | 538 | 539 | 544 | 541 | 544 | 552 | 555 | 544 | 529 | 541 | 536 | 528 | 522 | 504 | 504 | 524 | 522 | 512 | 505 | 517 | 526 | 518 |
| 22 ** | 520 | 518 | 526 | 535 | 539 | 535 | 551 | 543 | 532 | 533 | 524 | 523 | 526 | 497 | 490 | 495 | 515 | 512 | 518 | 519 | 512 | 526 | 522 | 528 |
| 23 | 529 | 530 | 531 | 535 | 544 | 543 | 544 | 542 | 533 | 519 | 513 | 517 | 526 | 526 | 531 | 531 | 535 | 532 | 536 | 537 | 533 | 528 | 546 | 524 |
| 24 | 528 | 531 | 529 | 535 | 531 | 543 | 536 | 539 | 541 | 525 | 521 | 523 | 519 | 516 | 518 | 518 | 529 | 525 | 530 | 520 | 515 | 516 | 525 | 529 |
| 25 | 531 | 534 | 550 | 541 | 538 | 539 | 539 | 539 | 539 | 530</ | | | | | | | | | | | | | | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| January | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 59 | 55 | 54 | 53 | 53 | 53 | | 55 | 57 | 59 | 57 | 55 | 55 | 54 | 59 | 59 | 59 | 59 | 57 | 59 | 59 | 60 | 61 | 60 | 59 | |
| 2 | 56 | 55 | 55 | 55 | 55 | 55 | | 55 | 55 | 51 | 51 | 55 | 53 | 53 | 55 | 55 | 55 | 59 | 59 | 59 | 59 | 59 | 58 | 58 | 55 | |
| 3 * | 57 | 55 | 53 | 52 | 52 | 55 | | 55 | 55 | 53 | 54 | 55 | 56 | 59 | 63 | 62 | 59 | 59 | 57 | 59 | 57 | 58 | 58 | 57 | 58 | |
| 4 | 56 | 55 | 55 | 53 | 52 | 53 | | 55 | 54 | 53 | 54 | 55 | 53 | 55 | 58 | 59 | 56 | 56 | 55 | 57 | 56 | 55 | 56 | 54 | 55 | |
| 5 ** | 54 | 53 | 52 | 49 | 49 | 51 | | 51 | 51 | 49 | 47 | 47 | 51 | 51 | 55 | 54 | 53 | 55 | 57 | 59 | 59 | 60 | 58 | 47 | 50 | |
| 6 | 56 | 56 | 55 | 55 | 55 | 55 | | 55 | 55 | 53 | 51 | 52 | 55 | 59 | 60 | 61 | 59 | 63 | 67 | 67 | 67 | 65 | 64 | 61 | 59 | |
| 7 | 59 | 59 | 57 | 57 | 58 | 59 | | 56 | 55 | 53 | 52 | 53 | 51 | 55 | 62 | 62 | 59 | 60 | 61 | 63 | 63 | 61 | 59 | 60 | | |
| 8 | 60 | 60 | 59 | 58 | 57 | 57 | | 56 | 55 | 57 | 56 | 57 | 55 | 55 | 56 | 56 | 57 | 59 | 63 | 66 | 67 | 59 | 60 | 61 | 60 | |
| 9 ** | 59 | 61 | 62 | 60 | 59 | 58 | | 58 | 55 | 54 | 59 | 58 | 59 | 60 | 65 | 64 | 60 | 63 | 65 | 67 | 67 | 66 | 67 | 60 | 62 | |
| 10 | 63 | 63 | 60 | 59 | 52 | 53 | | 56 | 58 | 55 | 58 | 54 | 60 | 60 | 62 | 63 | 66 | 68 | 66 | 68 | 66 | 67 | 64 | 64 | | |
| 11 | 62 | 62 | 62 | 60 | 58 | 59 | | 59 | 59 | 58 | 58 | 56 | 54 | 56 | 60 | 60: | 61: | 67 | 66 | 67 | 67 | 67 | 63 | 61 | 61 | |
| 12 | 61 | 61 | 59 | 57 | 57 | 59 | | 59 | 59 | 57 | 57 | 55 | 49 | 49 | 53 | 55 | 55 | 59 | 61 | 61 | 60 | 59 | 60 | 59 | 57 | |
| 13 | 57 | 55 | 55 | 55 | 55 | 57 | | 57 | 57 | 56 | 57 | 59 | 57 | 59 | 59 | 57 | 59 | 59 | 61 | 63 | 61 | 59 | 59 | 59 | 59 | |
| 14 | 55 | 55 | 55 | 55 | 55 | 57 | | 59 | 57 | 57 | 55 | 55 | 53 | 59 | 59 | 60 | 64 | 64 | 63 | 63 | 61 | 60 | 61 | 62 | 62 | |
| 15 | 59 | 57 | 57 | 55 | 52 | 50 | | 51 | 55 | 55 | 57 | 56 | 52 | 51 | 55 | 60 | 63 | 63 | 63 | 62 | 63 | 60 | 59 | 60 | 59 | |
| 16 | 57 | 56 | 55 | 56 | 54 | 57 | | 58 | 59 | 59 | 63 | 59 | 53 | 53 | 53 | 55 | 56 | 58 | 59 | 59 | 61 | 61 | 61 | 67 | 65 | |
| 17 ** | 65 | 63 | 44 | 43 | 41 | 45 | | 51 | 55 | 59 | 63 | 65 | 63 | 60 | 63 | 59 | 63 | 66 | 64 | 64 | 63 | 65 | 67 | 67 | 63 | |
| 18 | 63 | 63 | 62 | 60 | 57 | 55 | | 52 | 51 | 51 | 61 | 63 | 61 | 56 | 57 | 57 | 59 | 60 | 61 | 61 | 60 | 63 | 61 | 59 | 57 | |
| 19 | 59 | 59 | 57 | 57 | 57 | 59 | | 57 | 59 | 60 | 63 | 63 | 65 | 63 | 59 | 59 | 59 | 61 | 63 | 61 | 59 | 60 | 60 | 57 | 58 | |
| 20 | 56 | 49 | 47 | 51 | 51 | 52 | | 47 | 47 | 49 | 54 | 55 | 55 | 55 | 59 | 59 | 57 | 59 | 62 | 61 | 61 | 63 | 59 | 59 | | |
| 21 ** | 59 | 58 | 58 | 55 | 55 | 57 | | 57 | 58 | 57 | 60 | 57 | 56 | 59 | 63 | 72 | 69 | 69 | 75 | 83 | 79 | 70 | 67 | 65 | 62 | |
| 22 ** | 60 | 60 | 60 | 60 | 59 | 58 | | 58 | 57 | 55 | 58 | 58 | 56 | 58 | 57 | 57 | 55 | 59 | 60 | 63 | 69 | 62 | 60 | 61 | 55 | |
| 23 | 47 | 49 | 51 | 55 | 54 | 55 | | 55 | 56 | 54 | 55 | 56 | 53 | 55 | 56 | 61 | 68 | 67 | 67 | 67 | 65 | 65 | 63 | 59 | 56 | |
| 24 | 55 | 55 | 55 | 55 | 56 | 53 | | 51 | 52 | 53 | 56 | 55 | 53 | 51 | 54 | 54 | 53 | 57 | 59 | 61 | 60 | 59 | 59 | 55 | 53 | |
| 25 | 55 | 53 | 54 | 55 | 55 | 57 | | 57 | 57 | 56 | 57 | 56 | 57 | 61 | 63 | 63 | 61 | 61 | 61 | 61 | 59 | 57 | 58 | 55 | 55 | |
| 26 * | 55 | 55 | 55 | 55 | 55 | 57 | | 57 | 55 | 55 | 57 | 55 | 55 | 56 | 61 | 62 | 59 | 57 | 59 | 59 | 58 | 57 | 57 | 55 | 55 | |
| 27 * | 53 | 53 | 53 | 53 | 53 | 55 | | 55 | 57 | 58 | 59 | 55 | 49 | 51 | 54 | 53 | 52 | 53 | 53 | 57 | 56 | 57 | 56 | 54 | 53 | |
| 28 | 51 | 50 | 51 | 51 | 51 | 52 | | 53 | 51 | 49 | 51 | 55 | 53 | 49 | 47 | 49 | 51 | 51 | 53 | 58 | 61 | 61 | 59 | 59 | 57 | |
| 29 | 57 | 58 | 55 | 55 | 55 | 55 | | 55 | 55 | 55 | 51 | 51 | 49 | 47 | 48 | 49 | 50 | 51 | 52 | 57 | 57 | 59 | 59 | 58 | | |
| 30 * | 55 | 54 | 53 | 52 | 50 | 52 | | 52 | 54 | 54 | 52 | 51 | 48 | 46 | 49 | 53 | 52 | 54 | 54 | 58 | 55 | 55 | 54 | 52 | 52 | |
| 31 | 50 | 50 | 50 | 50 | 48 | 50 | | 50 | 51 | 52 | 51 | 51 | 51 | 54 | 54 | 58 | 56 | 56 | 55 | 56 | 56 | 56 | 55 | 56 | 55 | |
| Mean | 57 | 56 | 55 | 55 | 54 | 55 | | 55 | 55 | 55 | 56 | 58 | 55 | 55 | 57 | 58 | 58 | 60 | 61 | 62 | 62 | 61 | 60 | 59 | 58 | |
| Mean * | 56 | 54 | 54 | 53 | 53 | 54 | | 55 | 56 | 56 | 56 | 54 | 53 | 53 | 57 | 58 | 56 | 56 | 56 | 58 | 57 | 57 | 58 | 56 | 55 | |
| Mean ** | 59 | 59 | 55 | 53 | 53 | 54 | | 55 | 55 | 55 | 57 | 57 | 57 | 57 | 61 | 61 | 60 | 62 | 64 | 67 | 67 | 65 | 63 | 60 | 58 | |
| February | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 53 | 51 | 50 | 51 | 49 | 50 | | 50 | 49 | 49 | 51 | 53 | 53 | 49 | 51 | 52 | 49 | 49 | 53 | 58 | 67 | 64 | 90 | 86 | 89 | |
| 2 | 80 | 61 | 59 | 57 | 58 | 59 | | 60 | 60 | 57 | 58 | 55 | 55 | 55 | 58 | 63 | 62 | 62 | 65 | 75 | 73 | 79 | 80 | 77 | 69 | |
| 3 | 67 | 67 | 65 | 61 | 53 | 49 | | 52 | 53 | 53 | 57 | 59 | 60 | 63 | 63 | 63 | 64 | 64 | 65 | 65 | 67 | 67 | 69 | 69 | 68 | |
| 4 | 69 | 66 | 64 | 63 | 61 | 61 | | 59 | 57 | 57 | 55 | 55 | 57 | 59 | 57 | 59 | 59 | 63 | 63 | 62 | 62 | 62 | 63 | 61 | 58 | |
| 5 | 59 | 59 | 59 | 59 | 59 | 58 | | 53 | 50 | 50 | 49 | 53 | 57 | 57 | 55 | 57 | 59 | 60 | 61 | 63 | 62 | 65 | 73 | 69 | 68 | |
| 6 ** | 63 | 62 | 58 | 57 | 57 | 57 | | 49 | 45 | 45 | 49 | 53 | 61 | 73 | 85 | 111 | 109 | 117 | 125 | 111 | 97 | 103 | 98 | 89 | 80 | |
| 7 ** | 66 | 63 | 53 | 55 | 54 | 58 | | 63 | 64 | 65 | 65 | 67 | 69 | 69 | 75 | 79 | 84 | 87 | 88 | 91 | 89 | 85 | 83 | 81 | 77 | |
| 8 | 73 | 71 | 71 | 69 | 69 | 69 | | 69 | 65 | 65 | 63 | 61 | 60 | 59 | 57 | 59 | 63 | 63 | 65 | 69 | 72 | 75 | 78 | 79 | 78 | |
| 9 | 74 | 71 | 69 | 68 | 67 | 67 | | 64 | 61 | 57 | 53 | 51 | 53 | 53 | 57 | 61 | 63 | 67 | 69 | 77 | 84 | 87 | 89 | 84 | 79 | |
| 10 | 76 | 70 | 67 | 62 | 62 | 64 | | 65 | 68 | 67 | 66 | 66 | 62 | 62 | 60 | 60 | 63 | 72 | 82 | 90 | 84 | 78 | 72 | 66 | 64 | |
| 11 | 54 | 54 | 55 | 38 | 46 | 54 | | 57 | 58 | 60 | 60 | 56 | 60 | 62 | 60 | 64 | 66 | 69 | 70 | 70 | 70 | 69 | 68 | 65 | 63 | |
| 12 * | 63 | 61 | 61 | 61 | 61 | 60 | | 59 | 57 | 59 | 55 | 55 | 55 | 54 | 53 | 54 | 59 | 63 | 63 | 64 | 65 | 64 | 63 | 62 | 61 | |
| 13 * | 59 | 59 | 57 | 57 | 57 | 59 | | 59 | 57 | 57 | 55 | 49 | 47 | 50 | 53 | 55 | 57 | 56 | 57 | 59 | 59 | 61 | 65 | 65 | 61 | |
| 14 | 59 | 57 | 55 | 55 | 55 | 55 | | 55 | 55 | 57 | 57 | 57 | 57 | 57 | 57 | 56 | 57 | 59 | 60 | 62 | 63 | 65 | 63 | 61 | 58 | |
| 15 | 58 | 55 | 48 | 50 | 49 | 49 | | 49 | 51 | 53 | 55 | 55 | 51 | 49 | 49 | 55 | 57 | 59 | 60 | 61 | 63 | 63 | 62 | 60 | 59 | |
| 16 | 57 | 57 | 56 | 51 | 43 | 47 | | 52 | 51 | 53 | 52 | 47 | 46 | 49 | 53 | 64 | 67 | 71 | 73 | 71 | 67 | 67 | 66 | 63 | 61 | |
| † 17 | 61 | 59 | 59 | 59 | 58 | 57 | | 55 | 54 | 54 | 53 | 55 | - | 49 | - | - | - | - | - | 68 | 65 | 66 | 67 | 64 | 62 | |
| 18 | 56 | 56 | 56 | 58 | 58 | 58 | | 57 | 54 | 54 | 53 | 52 | 52: | 47 | 48 | 53 | 63 | 65 | 67 | 66 | 65 | 65 | 65 | 54 | 51 | |
| 19 | 54 | 56 | 56 | 57 | 56 | 52 | | 49 | 48 | 51 | 51 | 51 | 51 | 51 | 53 | 57 | 61 | 65 | 65 | 63 | 63 | 65 | 62 | 59 | 59 | |
| 20 | 59 | 59 | 59 | 55 | 55 | 57 | | 57 | 58 | 59 | 57 | 51 | 48 | 45 | 54 | 60 | 65 | 73 | 71 | 69 | 67 | 65 | 63 | 58 | 57 | |
| 21 * | 57 | 58 | 59 | 58 | 61 | 60 | | 60 | 58 | 56 | 55 | 48 | 39 | 41 | 48 | 53 | 57 | 59 | 59 | 60 | 58 | 60 | 59 | 57 | 57 | |
| 22 * | 57 | 57 | 56 | 57 | 57 | 59 | | 57 | 53 | 52 | 48 | 45 | 43 | 45 | 45 | 49 | 55 | 65 | 66 | 68 | 67 | 69 | 68 | 67 | 67 | |
| 23 | 65 | 58 | 59 | 61 | 63 | 64 | | 63 | 63 | 65 | 63 | 56 | 53 | - | - | - | - | - | - | - | - | - | 58 | 60 | 58 | |
| 24 ** | 56 | 56 | 55 | 54 | 54 | 56 | | 54 | 52 | 48 | 44 | 39 | 38 | 41 | 43 | 53 | 63 | 64 | 126 | 179 | 283 | 233 | 127 | 47 | 63 | |
| 25 ** | 73 | 17 | 72 | 101 | 99 | 91 | | 75 | 69 | 75 | 78 | 95 | 107 | 113 | 118 | 131 | 140 | 136 | 128 | 121 | 109 | 107 | 96 | 77 | 79 | |
| 26 | 79 | 80 | 81 | 80 | 79 | 79 | | 79 | 79 | 75 | 67 | 62 | 63 | 63 | 63 | 63 | 68 | 75 | 76 | 79 | 79 | 79 | 81 | 79 | 71 | |
| 27 * | 71 | 71 | 72 | 71 | 71 | 72 | | 70 | 70 | 69 | 64 | 59 | 55 | 57 | 63 | 71 | 71 | 69 | 71 | 73 | 72 | 72 | 73 | 71 | 71 | |
| 28 | 67 | 66 | 66 | 65 | 65 | 65 | | 65 | 67 | 67 | 63 | 57 | 51 | 55 | 59 | 63 | 73 | 83 | 92 | 91 | 88 | 91 | 92 | 88 | 83 | |
| Mean † (26 Days) | 64 | 60 | 61 | 60 | 60 | 60 | | 59 | 58 | 58 | 57 | 56 | 56 | 57 | 59 | 64 | 68 | 71 | 75 | 78 | 80 | 80 | 76 | 69 | 67 | |
| Mean * | 61 | 61 | 61 | 61 | 61 | 62 | | 61 | 59 | 59 | 55 | 51 | 48 | 49 | 52 | 56 | 60 | 62 | 63 | 65 | 64 | 65 | 66 | 64 | 63 | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| March | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 79 | 73 | 64 | 65 | 67 | 69 | | 69 | 70 | 69 | 68 | 61 | 55 | 52 | 59 | 66 | 81 | 87 | 87 | 89 | 92 | 99 | 101 | 99 | 95 | | |
| 2 | 83 | 75 | 53 | 31 | 47 | 60 | | 59 | 64 | 67 | 72 | 67 | 59 | 65 | 67 | 73 | 77 | 78 | 77 | 77 | 76 | 79 | 79 | 76 | 75 | | |
| 3 | 71 | 67 | 67 | 68 | 69 | 67 | | 61 | 67 | 68 | 67 | 64 | 63 | 66 | 73 | 81 | 86 | 93 | 91 | 87 | 85 | 87 | 88 | 85 | 84 | | |
| 4 | 60 | 59 | 51 | 47 | 45 | 51 | | 57 | 61 | 63 | 61 | 55 | 55 | 58 | 64 | 77 | 93 | 98 | 97 | 95 | 87 | 85 | 82 | 87 | 73 | | |
| 5 | 75 | 75 | 75 | 75 | 71 | 71 | | 68 | 63 | 63 | 61 | 58 | 59 | 61 | 65 | 68 | 75 | 81 | 83 | 89 | 85 | 82 | 81 | 79 | 75 | | |
| 6 | 76 | 74 | 74 | 72 | 70 | 69 | | 67 | 70 | 65 | 62 | 62 | 60 | 62 | 64 | 71 | 82 | 84 | 87 | 82 | 78 | 77 | 76 | 73 | 72 | | |
| 7 * | 74 | 68 | 66 | 70 | 69 | 69 | | 69 | 69 | 66 | 59 | 54 | 54 | 59 | 62 | 63 | 66 | 70 | 74 | 72 | 70 | 72 | 74 | 72 | 67 | | |
| 8 | 62 | 62 | 62 | 62 | 60 | 46 | | 44 | 50 | 51 | 51 | 52 | 49 | 51 | 56 | 62 | 64 | 66 | 70 | 73 | 78 | 76 | 76 | 74 | 70 | | |
| 9 | 68 | 67 | 66 | 62 | 56 | 58 | | 59 | 60 | 61 | 56 | 52 | 43 | 46 | 54 | 63 | 74 | 78 | 82 | 82 | 78 | 70 | 70 | 68 | 66 | | |
| 10 | 66 | 63 | 60 | 63 | 64 | 66 | | 67 | 68 | 65 | 58 | 52 | 51 | 50 | 56 | 64 | 66 | 72 | 72 | 72 | 71 | 70 | 70 | 66 | 64 | | |
| 11 | 64 | 64 | 64 | 64 | 64 | 66 | | 65 | 68 | 66 | 58 | 54 | 50 | 54 | 57 | 61 | 70 | 82 | 84 | 78 | 76 | 74 | 72 | 70 | 66 | | |
| 12 | 60 | 58 | 62 | 62 | 60 | 60 | | 62 | 64 | 66 | 64 | 62 | 58 | 59 | 58 | 62 | 74 | 77 | 76 | 78 | 79 | 77 | 72 | 70 | 62 | | |
| 13 * | 59 | 63 | 64 | 65 | 66 | 66 | | 67 | 68 | 65 | 60 | 54 | 48 | 53 | 58 | 63 | 67 | 68 | 69 | 70 | 69 | 68 | 67 | 66 | 66 | | |
| 14 | 66 | 64 | 62 | 62 | 61 | 61 | | 61 | 62 | 62 | 58 | 47 | 46 | 47 | 52 | 59 | 66 | 70 | 68 | 70 | 70 | 70 | 70 | 66 | 65 | | |
| 15 | 63 | 62 | 62 | 62 | 62 | 62 | | 59 | 58 | 57 | 54 | 50 | 52 | 60 | 64 | 66 | 72 | 78 | 86 | 78 | 74 | 72 | 68 | 67 | 68 | | |
| 16 | 62 | 64 | 62 | 46 | 50 | 56 | | 58 | 60 | 60 | 58 | 57 | 56 | 60 | 64 | 68 | 70 | 76 | 74 | 70 | 70 | 68 | 66 | 62 | 54 | | |
| 17 | 42 | 39 | 48 | 54 | 56 | 57 | | 52 | 54 | 50 | 44 | 39 | 40 | 46 | 52 | 58 | 66 | 68 | 70 | 70 | 70 | 66 | 64 | 62 | 60 | | |
| 18 * | 56 | 56 | 59 | 60 | 60 | 60 | | 62 | 64 | 62 | 58 | 56 | 48 | 48 | 54 | 61 | 66 | 66 | 65 | 64 | 64 | 64 | 63 | 62 | 60 | | |
| 19 * | 61 | 61 | 60 | 60 | 58 | 58 | | 60 | 62 | 62 | 58 | 54 | 52 | 53 | 58 | 62 | 66 | 66 | 62 | 62 | 62 | 61 | 61 | 60 | 58 | | |
| 20 | 58 | 58 | 56 | 46 | 51 | 54 | | 56 | 58 | 58 | 50 | 40 | 40 | 45 | 51 | 56 | 62 | 64 | 61 | 62 | 60 | 60 | 60 | 60 | 58 | | |
| 21 | 59 | 59 | 59 | 59 | 59 | 60 | | 57 | 57 | 53 | 51 | 49 | 55 | 59 | 63 | 65 | 72 | 75 | 74 | 79 | 86 | 81 | 75 | 69 | 67 | | |
| 22 * | 67 | 65 | 65 | 55 | 45 | 49 | | 51 | 52 | 55 | 53 | 51 | 48 | 57 | 63 | 73 | 85 | 101 | 93 | 93 | 73 | 72 | 67 | 57 | 55 | | |
| 23 | 60 | 57 | 48 | 42 | 46 | 56 | | 60 | 62 | 58 | 52 | 56 | 52 | 52 | 58 | 70 | 82 | 90 | 84 | 76 | 71 | 74 | 69 | 62 | 64 | | |
| 24 | 64 | 62 | 64 | 64 | 64 | 64 | | 64 | 64 | 58 | 54 | 50 | 44 | 46 | 52 | 68 | 74 | 76 | 79 | 84 | 81 | 77 | 70 | 62 | 63 | | |
| 25 * | 63 | 62 | 64 | 58 | 60 | 62 | | 61 | 61 | 53 | 44 | 40 | 37 | 41 | 44 | 49 | 60 | 66 | 70 | 72 | 71 | 70 | 68 | 68 | 66 | | |
| 26 | 58 | 60 | 60 | 60 | 60 | 61 | | 64 | 66 | 67 | 64 | 56 | 49 | 45 | 46 | 54 | 64 | 70 | 76 | 82 | 80 | 79 | 78 | 72 | 66 | | |
| 27 ** | 62 | 62 | 42 | 32 | 39 | 48 | | 52 | 55 | 56 | 56 | 54 | 54 | 50 | 50 | 58 | 66 | 76 | 82 | 94 | 108 | 98 | 94 | 86 | 61 | | |
| 28 ** | 65 | 64 | 57 | 62 | 62 | 62 | | 62 | 60 | 58 | 54 | 52 | 53 | 53 | 58 | 84 | 118 | 157 | 177 | 156 | 118 | 110 | 106 | 78 | 86 | | |
| 29 ** | 69 | 52 | 54 | 45 | 52 | 62 | | 66 | 69 | 70 | 76 | 86 | 82 | 96 | 98 | 108 | 121 | 124 | 110 | 112 | 96 | 77 | 78 | 79 | 68 | | |
| 30 ** | 66 | 67 | 64 | 62 | 64 | 65 | | 68 | 72 | 75 | 72 | 71 | 71 | 69 | 68 | 78 | 86 | 98 | 108 | 102 | 100 | 90 | 80 | 74 | 75 | | |
| 31 | 66 | 52 | 54 | 52 | 62 | 70 | | 74 | 78 | 70 | 66 | 59 | 60 | 60 | 60 | 66 | 76 | 78 | 78 | 82 | 82 | 80 | 80 | 70 | 62 | | |
| Mean | 65 | 62 | 60 | 58 | 59 | 61 | | 61 | 63 | 62 | 59 | 55 | 53 | 56 | 60 | 67 | 76 | 82 | 83 | 82 | 79 | 77 | 75 | 70 | 68 | | |
| Mean * | 63 | 62 | 63 | 63 | 63 | 63 | | 64 | 65 | 62 | 56 | 52 | 48 | 51 | 55 | 60 | 65 | 67 | 68 | 68 | 67 | 67 | 67 | 66 | 63 | | |
| Mean ** | 66 | 62 | 56 | 51 | 52 | 57 | | 60 | 62 | 63 | 62 | 63 | 62 | 65 | 67 | 80 | 95 | 111 | 114 | 111 | 99 | 89 | 85 | 71 | 69 | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 58 | 53 | 50 | 54 | 59 | 53 | | 56 | 62 | 60 | 57 | 57 | 58 | 60 | 64 | 72 | 84 | 94 | 98 | 95 | 94 | 85 | 84 | 82 | 72 | | |
| 2 | 58 | 56 | 58 | 54 | 58 | 61 | | 66 | 69 | 66 | 62 | 58 | 56 | 58 | 61 | 72 | 78 | 86 | 88 | 90 | 83 | 79 | 74 | 73 | 61 | | |
| 3 | 58 | 63 | 65 | 62 | 62 | 67 | | 70 | 70 | 68 | 68 | 64 | 58 | 58 | 62 | 68 | 78 | 83 | 86 | 91 | 88 | 85 | 82 | 78 | 75 | | |
| 4 | 72 | 73 | 73 | 68 | 61 | 63 | | 65 | 63 | 59 | 56 | 57 | 53 | 55 | 61 | 65 | 71 | 73 | 73 | 77 | 85 | 97 | 92 | 77 | 71 | | |
| 5 | 73 | 71 | 69 | 64 | 63 | 67 | | 72 | 73 | 72 | 65 | 55 | 49 | 49 | 56 | 61 | 69 | 75 | 77 | 76 | 74 | 73 | 73 | 71 | 69 | | |
| 6 * | 69 | 71 | 71 | 70 | 69 | 69 | | 71 | 72 | 67 | 61 | 57 | 49 | 47 | 51 | 60 | 66 | 73 | 71 | 71 | 71 | 69 | 70 | 69 | 66 | | |
| 7 * | 66 | 67 | 67 | 65 | 65 | 65 | | 67 | 67 | 64 | 59 | 53 | 41 | 43 | 47 | 55 | 66 | 72 | 72 | 73 | 72 | 71 | 69 | 67 | 63 | | |
| 8 | 63 | 62 | 62 | 63 | 64 | 66 | | 68 | 68 | 66 | 57 | 51 | 45 | 44 | 48 | 58 | 68 | 74 | 79 | 85 | 82 | 76 | 76 | 67 | 67 | | |
| 9 | 65 | 64 | 58 | 57 | 60 | 63 | | 66 | 66 | 62 | 58 | 54 | 44 | 46 | 50 | 60 | 68 | 72 | 74 | 80 | 74 | 70 | 66 | 63 | 60 | | |
| 10 | 48 | 40 | 54 | 60 | 58 | 56 | | 60 | 60 | 52 | 52 | 56 | 52 | 52 | 66 | 78 | 84 | 88 | 86 | 84 | 85 | 74 | 72 | 68 | 54 | | |
| 11 | 32 | 52 | 60 | 62 | 62 | 66 | | 68 | 68 | 67 | 63 | 60 | 60 | 59 | 62 | 71 | 78 | 84 | 89 | 92 | 84 | 78 | 68 | 55 | 60 | | |
| 12 | 62 | 60 | 58 | 51 | 58 | 58 | | 62 | 66 | 66 | 66 | 62 | 59 | 56 | 58 | 62 | 66 | 70 | 70 | 70 | 71 | 72 | 72 | 68 | 65 | | |
| 13 * | 63 | 58 | 59 | 62 | 63 | 66 | | 66 | 66 | 64 | 57 | 47 | 40 | 40 | 44 | 52 | 62 | 65 | 68 | 75 | 78 | 75 | 71 | 66 | 66 | | |
| 14 | 66 | 63 | 60 | 56 | 56 | 60 | | 61 | 60 | 60 | 52 | 46 | 40 | 42 | 46 | 54 | 64 | 66 | 70 | 72 | 74 | 74 | 72 | 70 | 68 | | |
| 15 * | 66 | 64 | 64 | 62 | 62 | 64 | | 66 | 68 | 64 | 57 | 53 | 49 | 48 | 54 | 64 | 72 | 76 | 74 | 73 | 72 | 72 | 70 | 68 | 65 | | |
| 16 ** | 65 | 64 | 64 | 64 | 63 | 63 | | 64 | 68 | 67 | 52 | 46 | 40 | 33 | 34 | 47 | 55 | 59 | 62 | 62 | 64 | 64 | 64 | 61 | 60 | | |
| 17 ** | 58 | 55 | 50 | 34 | 14 | 17 | | 20 | 3 | 28 | 34 | 43 | 54 | 74 | 94 | 174 | 254 | 202 | 202 | 150 | 108 | 79 | 44 | 84 | 88 | | |
| 18 ** | 89 | 90 | 88 | 88 | 89 | 90 | | 90 | 82 | 86 | 76 | 66 | 62 | 62 | 82 | 99 | 129 | 134 | 136 | 126 | 109 | 94 | 87 | 75 | 58 | | |
| 19 | 62 | 62 | 66 | 70 | 76 | 76 | | 78 | 76 | 75 | 71 | 58 | 51 | 54 | 67 | 98 | 124 | 138 | 153 | 120 | 118 | 106 | 98 | 84 | 79 | | |
| 20 | 70 | 66 | 52 | 58 | 57 | 54 | | 64 | 70 | 72 | 74 | 67 | 64 | 70 | 75 | 85 | 93 | 108 | 114 | 107 | 102 | 98 | 90 | 82 | 70 | | |
| 21 | 67 | 66 | 58 | 62 | 69 | 70 | | 72 | 76 | 73 | 67 | 61 | 60 | 60 | 70 | 90 | 104 | 112 | 126 | 113 | 103 | 99 | 88 | 84 | 81 | | |
| 22 | 81 | 75 | 78 | 76 | 82 | 82 | | 84 | 86 | 81 | 72 | 62 | 55 | 56 | 66 | 86 | 102 | 118 | 126 | 126 | 99 | 92 | 87 | 81 | 78 | | |
| 23 ** | 71 | 60 | 64 | 62 | 52 | 38 | | 0 | 2 | 15 | 20 | 30 | 46 | 71 | 90 | 120 | 172 | 170 | 157 | 154 | 134 | 102 | 94 | 69 | 81 | | |
| 24 ** | 69 | 74 | 77 | 81 | 82 | 85 | | 85 | 87 | 83 | 76 | 71 | 68 | 67 | 67 | 69 | 70 | 76 | 89 | 101 | 105 | 35 | 53 | 101 | 49 | | |
| 25 ** | 41 | 18 | 3 | 51 | 81 | 87 | | 87 | 86 | 89 | 89 | 94 | 95 | 101 | 99 | 107 | 123 | 135 | 131 | 130 | 121 | 102 | 95 | 85 | 75 | | |
| 26 | 58 | 63 | 70 | 73 | 77 | 85 | | 89 | 90 | 89 | 83 | 75 | 67 | 65 | 69 | 77 | 82 | 86 | 87 | 94 | 91 | 88 | 85 | 83 | 79 | | |
| 27 | 79 | 81 | 80 | 81 | 83 | 82 | | 83 | 81 | 79 | 70 | 61 | 52 | 47 | 55 | 65 | 77 | 84 | 93 | 91 | 87 | 85 | 81 | 65 | 29 | | |
| 28 | 31 | 54 | 59 | 63 | 73 | 74 | | 73 | 73 | 73 | 68 | 63 | 56 | 55 | 65 | 80 | 85 | 89 | 91 | 93 | 95 | 93 | 85 | 79 | 69 | | |
| 29 | 72 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 ** | 77 | 75 | 73 | 72 | 73 | 73 | 73 | 67 | 65 | 58 | 54 | 53 | 59 | 93 | 141 | 149 | 165 | 169 | 172 | 150 | 124 | 93 | 83 | 62 | | | |
| 2 ** | 41 | 39 | 49 | 61 | 61 | 53 | 45 | 41 | 54 | 80 | 61 | 71 | 80 | 87 | 97 | 114 | 127 | 125 | 111 | 112 | 110 | 97 | 81 | 77 | | | |
| 3 ** | 75 | 57 | 57 | 55 | 63 | 67 | 76 | 72 | 71 | 66 | 65 | 63 | 69 | 79 | 89 | 93 | 101 | 101 | 97 | 95 | 94 | 90 | 84 | 81 | | | |
| 4 * | 75 | 79 | 77 | 79 | 82 | 86 | 84 | 81 | 76 | 67 | 50 | 55 | 61 | 66 | 75 | 84 | 87 | 92 | 87 | 86 | 83 | 79 | 77 | 77 | | | |
| 5 | 77 | 78 | 77 | 77 | 74 | 75 | 71 | 69 | 67 | 61 | 55 | 55 | 59 | 65 | 73 | 79 | 83 | 85 | 85 | 84 | 85 | 77 | 77 | 71 | | | |
| 6 ** | 71 | 73 | 75 | 77 | 78 | 77 | 77 | 73 | 68 | 61 | 56 | 53 | 55 | 71 | 87 | 105 | 133 | 135 | 119 | 113 | 103 | 82 | 65 | 48 | | | |
| 7 ** | 57 | 33 | 15 | 25 | 31 | 35 | 48 | 65 | 69 | 69 | 57 | 61 | 71 | 81 | 93 | 111 | 111 | 109 | 105 | 101 | 93 | 87 | 84 | 75 | | | |
| 8 ** | 53 | 29 | 37 | 57 | 73 | 81 | 79 | 77 | 76 | 77 | 75 | 70 | 69 | 80 | 97 | 101 | 93 | 94 | 96 | 98 | 86 | 81 | 65 | 66 | | | |
| 9 * | 67 | 61 | 55 | 39 | 37 | 61 | 65 | 70 | 67 | 65 | 65 | 62 | 65 | 73 | 75 | 81 | 93 | 97 | 93 | 87 | 85 | 81 | 77 | 76 | | | |
| 10 | 75 | 73 | 74 | 75 | 78 | 79 | 74 | 69 | 67 | 62 | 53 | 45 | 49 | 57 | 65 | 73 | 79 | 85 | 89 | 85 | 81 | 79 | 77 | 77 | | | |
| 11 * | 75 | 73 | 75 | 75 | 77 | 73 | 69 | 70 | 67 | 65 | 61 | 59 | 61 | 71 | 75 | 79 | 83 | 85 | 83 | 82 | 81 | 79 | 77 | 77 | | | |
| 12 * | 77 | 75 | 75 | 77 | 79 | 79 | 77 | 69 | 62 | 55 | 55 | 51 | 49 | 61 | 71 | 75 | 77 | 81 | 85 | 84 | 81 | 79 | 77 | 75 | | | |
| 13 * | 75 | 75 | 74 | 74 | 77 | 78 | 77 | 74 | 71 | 67 | 57 | 50 | 54 | 62 | 74 | 80 | 85 | 85 | 86 | 85 | 85 | 83 | 80 | 77 | | | |
| 14 * | 76 | 74 | 73 | 73 | 77 | 76 | 73 | 69 | 68 | 62 | 52 | 44 | 44 | 49 | 57 | 63 | 66 | 72 | 76 | 76 | 76 | 75 | 73 | 72 | | | |
| 15 | 72 | 72 | 72 | 71 | 72 | 68 | 65 | 60 | 62 | 54 | 52 | 46 | 50 | 61 | 74 | 83 | 84 | 84 | 84 | 80 | 80 | 78 | 76 | 74 | | | |
| 16 | 70 | 69 | 68 | 64 | 54 | 50 | 48 | 43 | 46 | 41 | 43 | 48 | 54 | 65 | 76 | 83 | 84 | 83 | 83 | 83 | 82 | 80 | 74 | 74 | | | |
| 17 | 74 | 75 | 75 | 75 | 76 | 75 | 71 | 64 | 61 | 54 | 51 | 49 | 51 | 61 | 73 | 85 | 95 | 103 | 103 | 99 | 87 | 80 | 77 | 75 | | | |
| 18 | 65 | 57 | 50 | 46 | 48 | 51 | 58 | 57 | 49 | 38 | 35 | 36 | 47 | 57 | 71 | 84 | 93 | 101 | 96 | 89 | 85 | 80 | 77 | 72 | | | |
| 19 | 65 | 63 | 59 | 56 | 59 | 55 | 56 | 53 | 57 | 53 | 47 | 45 | 47 | 57 | 65 | 72 | 77 | 80 | 88 | 88 | 86 | 81 | 75 | 68 | | | |
| 20 | 61 | 57 | 55 | 58 | 57 | 58 | 66 | 67 | 65 | 63 | 58 | 54 | 54 | 61 | 72 | 80 | 88 | 97 | 98 | 94 | 88 | 83 | 79 | 76 | | | |
| 21 | 74 | 68 | 65 | 63 | 63 | 60 | 56 | 55 | 54 | 48 | 44 | 34 | 30 | 42 | 62 | 85 | 98 | 116 | 120 | 113 | 100 | 87 | 75 | 74 | | | |
| 22 | 61 | 52 | 50 | 60 | 65 | 66 | 64 | 66 | 60 | 54 | 48 | 44 | 46 | 62 | 78 | 96 | 98 | 98 | 92 | 86 | 82 | 78 | 75 | 72 | | | |
| 23 | 69 | 65 | 59 | 57 | 61 | 63 | 66 | 61 | 55 | 53 | 51 | 52 | 57 | 59 | 65 | 79 | 95 | 110 | 115 | 103 | 87 | 81 | 73 | 57 | | | |
| 24 | 41 | 57 | 53 | 37 | 39 | 44 | 53 | 55 | 53 | 47 | 41 | 39 | 46 | 55 | 72 | 83 | 89 | 97 | 101 | 101 | 89 | 79 | 74 | 67 | | | |
| 25 | 61 | 47 | 49 | 43 | 57 | 67 | 72 | 70 | 67 | 60 | 54 | 48 | 49 | 60 | 77 | 95 | 93 | 89 | 81 | 81 | 84 | 80 | 68 | 55 | | | |
| 26 | 51 | 43 | 41 | 45 | 45 | 43 | 47 | 57 | 56 | 51 | 47 | 48 | 52 | 63 | 77 | 95 | 95 | 95 | 96 | 91 | 83 | 77 | 73 | 70 | | | |
| 27 | 65 | 65 | 61 | 57 | 61 | 63 | 61 | 61 | 55 | 52 | 51 | 45 | 46 | 55 | 64 | 73 | 79 | 81 | 81 | 80 | 80 | 75 | 62 | 57 | | | |
| 28 | 50 | 41 | 26 | 36 | 57 | 63 | 64 | 63 | 63 | 57 | 51 | 49 | 56 | 63 | 71 | 75 | 77 | 81 | 80 | 80 | 77 | 75 | 72 | 75 | | | |
| 29 | 74 | 68 | 58 | 49 | 49 | 31 | 31 | 33 | 32 | 22 | 22 | 33 | 43 | 69 | 79 | 85 | 88 | 93 | 95 | 102 | 93 | 83 | 79 | 75 | | | |
| 30 | 75 | 77 | 77 | 77 | 77 | 75 | 77 | 73 | 69 | 62 | 55 | 42 | 43 | 57 | 68 | 74 | 77 | 81 | 81 | 81 | 81 | 77 | 75 | 74 | | | |
| 31 * | 75 | 76 | 75 | 74 | 74 | 73 | 70 | 70 | 68 | 57 | 51 | 45 | 47 | 58 | 68 | 74 | 74 | 75 | 78 | 78 | 77 | 75 | 74 | 74 | | | |
| Mean | 67 | 63 | 61 | 61 | 64 | 65 | 65 | 64 | 62 | 57 | 52 | 50 | 54 | 65 | 77 | 87 | 92 | 96 | 95 | 93 | 87 | 81 | 75 | 71 | | | |
| Mean * | 76 | 75 | 74 | 75 | 77 | 76 | 73 | 70 | 67 | 61 | 55 | 50 | 51 | 60 | 69 | 74 | 77 | 80 | 82 | 81 | 80 | 78 | 76 | 75 | | | |
| Mean ** | 60 | 50 | 50 | 58 | 63 | 64 | 64 | 65 | 66 | 65 | 61 | 62 | 67 | 82 | 103 | 116 | 126 | 126 | 121 | 115 | 104 | 88 | 76 | 66 | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 73 | 71 | 72 | 74 | 75 | 74 | 73 | 69 | 67 | 59 | 49 | 45 | 51 | 59 | 73 | 84 | 85 | 90 | 91 | 89 | 84 | 81 | 77 | 75 | | | |
| 2 | 74 | 64 | 70 | 68 | 60 | 64 | 68 | 68 | 64 | 62 | 58 | 53 | 57 | 61 | 73 | 82 | 94 | 104 | 104 | 102 | 94 | 84 | 76 | 74 | | | |
| 3 | 74 | 73 | 76 | 76 | 80 | 83 | 84 | 78 | 66 | 60 | 46 | 42 | 50 | 57 | 72 | 80 | 88 | 95 | 94 | 90 | 86 | 81 | 78 | 75 | | | |
| 4 | 75 | 68 | 60 | 65 | 70 | 71 | 74 | 72 | 71 | 65 | 57 | 51 | 56 | 62 | 74 | 87 | 98 | 95 | 98 | 95 | 89 | 82 | 78 | 75 | | | |
| 5 | 73 | 73 | 74 | 73 | 76 | 80 | 80 | 80 | 76 | 66 | 57 | 53 | 54 | 62 | 77 | 83 | 87 | 89 | 84 | 80 | 77 | 75 | 71 | 69 | | | |
| 6 | 69 | 71 | 72 | 71 | 75 | 75 | 75 | 73 | 71 | 64 | 61 | 49 | 50 | 55 | 63 | 73 | 79 | 80 | 82 | 79 | 78 | 75 | 72 | 71 | | | |
| 7 * | 69 | 66 | 68 | 73 | 79 | 83 | 83 | 79 | 76 | 64 | 55 | 53 | 57 | 61 | 67 | 73 | 73 | 76 | 79 | 79 | 77 | 75 | 73 | 71 | | | |
| 8 * | 73 | 73 | 69 | 71 | 75 | 76 | 72 | 67 | 61 | 55 | 49 | 44 | 47 | 51 | 61 | 65 | 71 | 73 | 77 | 77 | 75 | 72 | 69 | 69 | | | |
| 9 * | 71 | 71 | 71 | 73 | 75 | 73 | 72 | 71 | 71 | 65 | 57 | 51 | 55 | 59 | 66 | 67 | 70 | 74 | 71 | 71 | 71 | 73 | 69 | 67 | | | |
| 10 | 70 | 68 | 67 | 68 | 69 | 67 | 64 | 59 | 55 | 47 | 48 | 47 | 49 | 53 | 58 | 61 | 67 | 72 | 79 | 77 | 75 | 71 | 69 | 69 | | | |
| 11 * | 68 | 68 | 68 | 70 | 69 | 69 | 70 | 69 | 66 | 59 | 51 | 46 | 49 | 53 | 61 | 67 | 67 | 67 | 71 | 71 | 71 | 71 | 68 | 67 | | | |
| 12 | 64 | 64 | 63 | 63 | 65 | 67 | 63 | 61 | 59 | 53 | 48 | 45 | 45 | 51 | 61 | 65 | 71 | 75 | 73 | 73 | 73 | 71 | 71 | 69 | | | |
| 13 | 67 | 67 | 59 | 59 | 65 | 67 | 69 | 71 | 65 | 56 | 53 | 51 | 51 | 55 | 64 | 67 | 75 | 77 | 75 | 75 | 79 | 71 | 63 | 63 | | | |
| 14 ** | 55 | 31 | 31 | 45 | 51 | 52 | 57 | 59 | 51 | 43 | 37 | 37 | 37 | 101 | 115 | 127 | 130 | 127 | 115 | 101 | 93 | 83 | 76 | 62 | | | |
| 15 | 67 | 67 | 67 | 72 | 71 | 71 | 72 | 64 | 63 | 59 | 59 | 59 | 64 | 73 | 83 | 85 | 86 | 88 | 90 | 93 | 91 | 86 | 83 | 73 | | | |
| 16 ** | 71 | 71 | 55 | 47 | 41 | 43 | 45 | 51 | 60 | 66 | 75 | 70 | 67 | 73 | 88 | 98 | 106 | 100 | 93 | 85 | 83 | 81 | 79 | 79 | | | |
| 17 | 77 | 77 | 79 | 82 | 83 | 83 | 81 | 78 | 75 | 71 | 59 | 51 | 57 | 65 | 75 | 78 | 79 | 83 | 83 | 86 | 84 | 79 | 78 | 78 | | | |
| 18 | 79 | 75 | 61 | 61 | 62 | 61 | 58 | 58 | 55 | 49 | 48 | 54 | 59 | 73 | 83 | 91 | 95 | 103 | 106 | 103 | 91 | 83 | 79 | 70 | | | |
| 19 ** | 53 | 54 | 51 | 52 | 57 | 59 | 63 | 67 | 64 | 60 | 61 | 51 | 51 | 58 | 77 | 88 | 91 | 91 | 87 | 83 | 80 | 77 | 65 | 57 | | | |
| 20 | 58 | 56 | 55 | 58 | 61 | 56 | 55 | 54 | 58 | 63 | 63 | 51 | 51 | 61 | 77 | 79 | 82 | 88 | 91 | 87 | 82 | 79 | 76 | 72 | | | |
| 21 | 67 | 67 | 63 | 57 | 57 | 58 | 60 | 55 | 55 | 51 | 43 | 39 | 48 | 63 | 79 | 90 | 87 | 87 | 83 | 86 | 90 | 82 | 75 | 71 | | | |
| 22 | 64 | 62 | 65 | 70 | 72 | 64 | 60 | 60 | 57 | 45 | 44 | 43 | 44 | 49 | 63 | 70 | 76 | 84 | 87 | 88 | 84 | 78 | 72 | 64 | | | |
| 23 | 59 | 52 | 52 | 58 | 64 | 69 | 71 | 69 | 69 | 63 | 60 | 64 | 59 | 56 | 71 | 78 | 82 | 90 | 96 | 96 | 89 | 83 | 78 | 72 | | | |
| 24 | 66 | 64 | 62 | 53 | 60 | 66 | 65 | 66 | 69 | 70 | 62 | 59 | 58 | 60 | 64 | 75 | 78 | 81 | 82 | 80 | 80 | 76 | 75 | 72 | | | |
| 25 * | 66 | 66 | 68 | 68 | 69 | 69 | 71 | 72 | 71 | 68 | 64 | 58 | 54 | 60 | 68 | 76 | 76 | 80 | 80 | 80 | 79 | 77 | 78 | 72 | | | |
| 26 | 72 | 72 | 70 | 70 | 72 | 74 | 68 | 68 | 66 | 58 | 50 | 42 | 47 | 51 | 54 | 60 | 68 | 72 | 74 | 76 | 76 | 72 | 73 | 72 | | | |
| 27 ** | 61 | 63 | 66 | 67 | 67 | 68 | 67 | 60 | 58 | | | | | | | | | | | | | | | | | | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| July | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 63 | 65 | 68 | 70 | 72 | 72 | 68 | 62 | 62 | 58 | 54 | 54 | 56 | 66 | 76 | 82 | 88 | 88 | 82 | 82 | 80 | 75 | 74 | 74 | 74 |
| 2 | 70 | 68 | 66 | 70 | 74 | 73 | 70 | 70 | 69 | 62 | 56 | 51 | 59 | 68 | 72 | 71 | 75 | 82 | 86 | 86 | 78 | 72 | 70 | 67 | 67 |
| 3 | ** | 68 | 68 | 63 | 52 | 58 | 61 | 60 | 58 | 52 | 48 | 52 | 63 | 95 | 130 | 134 | 130 | 120 | 118 | 90 | 87 | 84 | 82 | 78 | 78 |
| 4 | ** | 68 | 70 | 74 | 76 | 78 | 84 | 82 | 78 | 73 | 66 | 64 | 68 | 72 | 81 | 86 | 92 | 112 | 120 | 122 | 112 | 85 | 52 | 82 | 82 |
| 5 | ** | 82 | 80 | 74 | 54 | 45 | 2 | 10 | 12 | 36 | 52 | 72 | 94 | 122 | 144 | 166 | 198 | 172 | 160 | 134 | 114 | 100 | 88 | 82 | 82 |
| 6 | | 73 | 67 | 54 | 40 | 50 | 66 | 68 | 68 | 62 | 62 | 58 | 62 | 70 | 80 | 84 | 86 | 88 | 90 | 90 | 87 | 85 | 82 | 78 | 78 |
| 7 | * | 78 | 79 | 79 | 78 | 82 | 82 | 78 | 75 | 70 | 64 | 65 | 64 | 70 | 78 | 78 | 75 | 78 | 81 | 82 | 82 | 80 | 78 | 78 | 78 |
| 8 | * | 77 | 75 | 75 | 78 | 82 | 86 | 86 | 82 | 78 | 66 | 57 | 58 | 64 | 78 | 86 | 88 | 94 | 102 | 98 | 91 | 86 | 82 | 79 | 79 |
| 9 | * | 78 | 75 | 68 | 73 | 78 | 78 | 75 | 74 | 66 | 63 | 58 | 54 | 58 | 66 | 70 | 73 | 80 | 82 | 82 | 80 | 77 | 76 | 75 | 75 |
| 10 | * | 74 | 74 | 71 | 72 | 77 | 78 | 78 | 73 | 70 | 58 | 53 | 56 | 63 | 73 | 77 | 77 | 78 | 78 | 75 | 74 | 72 | 72 | 72 | 72 |
| 11 | | 70 | 70 | 70 | 71 | 74 | 76 | 68 | 56 | 46 | 40 | 38 | 26 | 36 | 56 | 67 | 68 | 68 | 70 | 72 | 74 | 72 | 70 | 70 | 70 |
| 12 | | 68 | 66 | 66 | 66 | 69 | 68 | 68 | 64 | 60 | 54 | 43 | 42 | 52 | 66 | 74 | 86 | 94 | 93 | 82 | 78 | 74 | 74 | 74 | 74 |
| 13 | * | 74 | 72 | 71 | 71 | 70 | 66 | 62 | 62 | 57 | 54 | 50 | 46 | 50 | 63 | 70 | 78 | 83 | 85 | 82 | 79 | 77 | 74 | 73 | 73 |
| 14 | | 72 | 70 | 68 | 72 | 75 | 74 | 68 | 64 | 59 | 54 | 62 | 63 | 78 | 86 | 100 | 110 | 114 | 108 | 98 | 90 | 87 | 76 | 70 | 70 |
| 15 | | 64 | 67 | 72 | 76 | 78 | 76 | 72 | 69 | 60 | 54 | 44 | 47 | 60 | 68 | 74 | 80 | 82 | 81 | 81 | 79 | 79 | 74 | 70 | 70 |
| 16 | | 74 | 74 | 74 | 67 | 66 | 66 | 66 | 60 | 47 | 43 | 45 | 50 | 58 | 66 | 66 | 73 | 86 | 93 | 99 | 85 | 68 | 69 | 66 | 66 |
| 17 | | 54 | 50 | 55 | 60 | 62 | 66 | 62 | 48 | 42 | 42 | 38 | 40 | 52 | 65 | 74 | 80 | 85 | 86 | 86 | 82 | 75 | 64 | 62 | 62 |
| 18 | | 58 | 55 | 54 | 58 | 66 | 66 | 68 | 65 | 59 | 54 | 54 | 55 | 58 | 70 | 80 | 82 | 85 | 91 | 88 | 84 | 78 | 74 | 72 | 72 |
| 19 | | 72 | 70 | 68 | 70 | 74 | 74 | 72 | 70 | 68 | 63 | 54 | 50 | 51 | 62 | 72 | 80 | 86 | 86 | 82 | 78 | 74 | 62 | 59 | 59 |
| 20 | ** | 34 | 36 | 48 | 59 | 68 | 46 | 47 | 54 | 48 | 46 | 50 | 50 | 66 | 91 | 114 | 125 | 128 | 119 | 107 | 100 | 83 | 74 | 75 | 75 |
| 21 | ** | 74 | 76 | 78 | 77 | 78 | 84 | 85 | 82 | 74 | 64 | 54 | 70 | 82 | 86 | 95 | 106 | 117 | 106 | 97 | 90 | 87 | 84 | 82 | 82 |
| 22 | * | 79 | 78 | 64 | 63 | 61 | 60 | 58 | 60 | 62 | 56 | 54 | 54 | 66 | 75 | 82 | 85 | 84 | 86 | 88 | 88 | 85 | 84 | 78 | 78 |
| 23 | * | 62 | 63 | 69 | 74 | 77 | 73 | 71 | 69 | 66 | 66 | 66 | 66 | 67 | 72 | 78 | 80 | 82 | 82 | 82 | 82 | 80 | 78 | 76 | 76 |
| 24 | * | 75 | 73 | 72 | 74 | 74 | 74 | 74 | 70 | 63 | 56 | 54 | 60 | 65 | 70 | 78 | 80 | 80 | 80 | 79 | 78 | 78 | 76 | 75 | 75 |
| 25 | * | 74 | 70 | 70 | 71 | 76 | 75 | 75 | 68 | 69 | 72 | 66 | 62 | 66 | 78 | 86 | 89 | 89 | 85 | 82 | 81 | 79 | 78 | 78 | 78 |
| 26 | | 70 | 76 | 74 | 72 | 72 | 42 | 37 | 44 | 46 | 55 | 54 | 63 | 76 | 86 | 93 | 98 | 106 | 106 | 106 | 99 | 88 | 84 | 80 | 80 |
| 27 | | 80 | 80 | 74 | 70 | 72 | 72 | 66 | 64 | 60 | 58 | 56 | 57 | 70 | 84 | 92 | 93 | 94 | 90 | 86 | 85 | 82 | 78 | 72 | 72 |
| 28 | | 70 | 72 | 74 | 76 | 80 | 79 | 74 | 67 | 60 | 51 | 51 | 58 | 63 | 71 | 81 | 89 | 94 | 91 | 89 | 85 | 81 | 79 | 74 | 74 |
| 29 | | 71 | 74 | 74 | 76 | 77 | 80 | 79 | 74 | 64 | 58 | 52 | 54 | 68 | 77 | 83 | 82 | 81 | 78 | 82 | 79 | 76 | 76 | 76 | 76 |
| 30 | * | 76 | 75 | 72 | 72 | 73 | 67 | 67 | 67 | 65 | 63 | 57 | 59 | 65 | 75 | 81 | 85 | 87 | 85 | 81 | 77 | 75 | 75 | 75 | 75 |
| 31 | | 76 | 78 | 77 | 77 | 81 | 77 | 75 | 73 | 71 | 65 | 55 | 53 | 61 | 71 | 77 | 81 | 81 | 79 | 77 | 78 | 76 | 73 | 73 | 73 |
| Mean | | 71 | 70 | 69 | 69 | 71 | 69 | 67 | 65 | 60 | 57 | 54 | 57 | 66 | 78 | 86 | 91 | 93 | 93 | 89 | 85 | 80 | 75 | 74 | 74 |
| Mean * | | 76 | 75 | 72 | 73 | 76 | 73 | 72 | 70 | 66 | 60 | 57 | 56 | 61 | 71 | 75 | 78 | 81 | 82 | 80 | 78 | 76 | 75 | 75 | 75 |
| Mean ** | | 65 | 66 | 68 | 66 | 64 | 61 | 55 | 57 | 57 | 55 | 58 | 69 | 87 | 106 | 119 | 130 | 129 | 125 | 110 | 101 | 88 | 76 | 80 | 80 |
| August | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 69 | 67 | 70 | 73 | 77 | 78 | 75 | 73 | 69 | 66 | 59 | 55 | 59 | 69 | 79 | 81 | 79 | 77 | 75 | 75 | 73 | 73 | 72 | 72 |
| 2 | * | 73 | 73 | 74 | 75 | 79 | 75 | 75 | 75 | 69 | 59 | 49 | 47 | 52 | 61 | 71 | 75 | 79 | 79 | 76 | 73 | 73 | 73 | 73 | 73 |
| 3 | * | 71 | 72 | 73 | 73 | 77 | 78 | 75 | 69 | 62 | 61 | 62 | 63 | 66 | 73 | 79 | 80 | 78 | 73 | 74 | 75 | 72 | 72 | 71 | 71 |
| 4 | * | 70 | 71 | 71 | 72 | 75 | 73 | 71 | 69 | 66 | 63 | 58 | 65 | 67 | 71 | 71 | 76 | 81 | 79 | 78 | 76 | 73 | 71 | 68 | 68 |
| 5 | * | 67 | 67 | 67 | 69 | 73 | 75 | 71 | 69 | 66 | 63 | 54 | 49 | 54 | 59 | 67 | 72 | 75 | 72 | 71 | 70 | 67 | 66 | 66 | 66 |
| 6 | * | 65 | 63 | 65 | 65 | 67 | 71 | 67 | 64 | 59 | 53 | 44 | 42 | 44 | 55 | 65 | 71 | 73 | 73 | 70 | 69 | 67 | 67 | 67 | |
| 7 | * | 66 | 66 | 65 | 65 | 68 | 69 | 69 | 70 | 64 | 59 | 50 | 46 | 45 | 54 | 63 | 66 | 67 | 67 | 68 | 70 | 67 | 66 | 68 | |
| 8 | * | 66 | 65 | 65 | 64 | 68 | 68 | 64 | 59 | 52 | 46 | 40 | 35 | 37 | 47 | 59 | 63 | 64 | 67 | 71 | 72 | 71 | 69 | 67 | |
| 9 | * | 66 | 65 | 65 | 66 | 69 | 75 | 73 | 68 | 59 | 55 | 53 | 55 | 59 | 63 | 67 | 69 | 71 | 103 | 105 | 100 | 90 | 83 | 77 | 77 |
| 10 | * | 65 | 65 | 65 | 65 | 69 | 67 | 60 | 55 | 55 | 51 | 51 | 51 | 51 | 59 | 67 | 78 | 93 | 103 | 105 | 100 | 90 | 83 | 77 | 77 |
| 11 | | 73 | 71 | 67 | 69 | 74 | 77 | 73 | 67 | 60 | 55 | 49 | 50 | 58 | 63 | 65 | 70 | 66 | 69 | 73 | 72 | 71 | 73 | 72 | 72 |
| 12 | ** | 62 | 59 | 37 | -4 | -15 | 34 | 55 | 64 | 79 | 84 | 92 | 113 | 110 | 115 | 130 | 127 | 122 | 113 | 109 | 99 | 84 | 71 | 57 | 57 |
| 13 | ** | 53 | 39 | 39 | 41 | 59 | 79 | 82 | 80 | 77 | 71 | 67 | 60 | 73 | 87 | 102 | 115 | 108 | 99 | 95 | 87 | 81 | 81 | 76 | 76 |
| 14 | * | 76 | 75 | 73 | 74 | 77 | 79 | 75 | 70 | 67 | 65 | 68 | 68 | 72 | 81 | 87 | 84 | 82 | 85 | 83 | 82 | 80 | 79 | 80 | 80 |
| 15 | * | 79 | 80 | 81 | 81 | 82 | 79 | 79 | 75 | 71 | 65 | 58 | 55 | 63 | 70 | 79 | 83 | 81 | 82 | 82 | 79 | 78 | 76 | 76 | 76 |
| 16 | ** | 77 | 76 | 77 | 76 | 75 | 72 | 70 | 64 | 59 | 53 | 55 | 65 | 89 | 130 | 187 | 169 | 136 | 113 | 107 | 95 | 89 | 89 | 55 | 55 |
| 17 | * | 61 | 45 | 35 | 47 | 59 | 75 | 76 | 67 | 63 | 62 | 64 | 69 | 75 | 90 | 103 | 103 | 99 | 93 | 88 | 85 | 83 | 84 | 83 | |
| 18 | | 82 | 83 | 84 | 85 | 87 | 87 | 87 | 83 | 77 | 69 | 64 | 65 | 74 | 85 | 94 | 98 | 103 | 95 | 91 | 87 | 83 | 75 | 75 | |
| 19 | | 77 | 78 | 79 | 81 | 84 | 85 | 83 | 78 | 69 | 56 | 51 | 55 | 63 | 77 | 97 | 105 | 103 | 99 | 91 | 87 | 82 | 80 | 80 | |
| 20 | | 79 | 78 | 79 | 82 | 81 | 79 | 78 | 76 | 67 | 61 | 63 | 64 | 67 | 73 | 74 | 77 | 82 | 83 | 84 | 80 | 77 | 76 | 75 | 75 |
| 21 | * | 74 | 74 | 74 | 76 | 79 | 79 | 77 | 69 | 55 | 47 | 47 | 44 | 48 | 60 | 69 | 74 | 76 | 81 | 81 | 79 | 78 | 74 | 62 | 62 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| September | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 76 | 77 | 77 | 77 | 78 | 80 | 83 | 80 | 79 | 73 | 65 | 62 | 59 | 62 | 70 | 82 | 83 | 81 | 79 | 77 | 77 | 77 | 76 | 77 |
| 2 | 77 | 77 | 77 | 77 | 79 | 81 | 79 | 75 | 69 | 64 | 59 | 57 | 59 | 65 | 73 | 82 | 84 | 87 | 83 | 79 | 78 | 79 | 74 | 74 |
| 3 ** | 77 | 75 | 66 | 38 | 45 | 61 | 71 | 75 | 72 | 64 | 50 | 59 | 60 | 63 | 69 | 80 | 84 | 87 | 84 | 86 | 88 | 91 | 89 | 83 |
| 4 | 81 | 77 | 75 | 77 | 81 | 83 | 81 | 81 | 78 | 68 | 55 | 51 | 55 | 60 | 69 | 76 | 83 | 83 | 80 | 81 | 83 | 81 | 81 | 80 |
| 5 * | 80 | 80 | 80 | 80 | 81 | 83 | 84 | 84 | 81 | 78 | 68 | 60 | 66 | 72 | 78 | 80 | 82 | 82 | 84 | 88 | 88 | 86 | 84 | 79 |
| 6 | 74 | 76 | 76 | 78 | 80 | 84 | 84 | 84 | 82 | 75 | 66 | 59 | 60 | 68 | 80 | 87 | 90 | 89 | 88 | 88 | 88 | 85 | 82 | 80 |
| 7 | 73 | 74 | 74 | 77 | 80 | 82 | 82 | 80 | 74 | 64 | 57 | 54 | 56 | 61 | 68 | 80 | 88 | 88 | 88 | 88 | 88 | 86 | 83 | 80 |
| 8 | 78 | 78 | 77 | 76 | 78 | 80 | 80 | 77 | 74 | 68 | 62 | 53 | 54 | 61 | 70 | 78 | 83 | 82 | 80 | 82 | 82 | 81 | 79 | 80 |
| 9 ** | 77 | 74 | 73 | 73 | 72 | 72 | 75 | 73 | 71 | 78 | 70 | 66 | 70 | 82 | 94 | 102 | 100 | 96 | 92 | 92 | 98 | 90 | 88 | 84 |
| 10 | 80 | 78 | 72 | 63 | 62 | 68 | 74 | 74 | 73 | 70 | 68 | 66 | 69 | 76 | 88 | 90 | 88 | 92 | 92 | 94 | 93 | 90 | 88 | 86 |
| 11 | 87 | 85 | 81 | 79 | 79 | 83 | 83 | 84 | 79 | 73 | 71 | 69 | 69 | 75 | 81 | 85 | 83 | 79 | 79 | 81 | 81 | 81 | 81 | 83 |
| 12 | 83 | 80 | 77 | 71 | 75 | 77 | 79 | 79 | 77 | 71 | 69 | 71 | 73 | 75 | 79 | 81 | 83 | 82 | 80 | 83 | 81 | 79 | 81 | 81 |
| 13 | 79 | 77 | 79 | 80 | 80 | 79 | 81 | 80 | 73 | 69 | 65 | 63 | 65 | 75 | 81 | 85 | 82 | 79 | 77 | 78 | 78 | 77 | 79 | 73 |
| 14 | 75 | 77 | 79 | 69 | 68 | 75 | 79 | 77 | 72 | 66 | 59 | 61 | 67 | 75 | 83 | 86 | 88 | 85 | 83 | 83 | 81 | 80 | 79 | 78 |
| 15 | 79 | 75 | 76 | 77 | 78 | 77 | 78 | 73 | 67 | 63 | 58 | 56 | 57 | 62 | 70 | 77 | 77 | 75 | 72 | 73 | 73 | 73 | 75 | 73 |
| 16 | 73 | 75 | 76 | 77 | 77 | 79 | 79 | 76 | 71 | 65 | 53 | 51 | 55 | 64 | 74 | 79 | 81 | 81 | 80 | 79 | 75 | 74 | 74 | 74 |
| 17 ** | 73 | 72 | 70 | 72 | 63 | 59 | 64 | 69 | 69 | 65 | 57 | 54 | 60 | 72 | 82 | 103 | 147 | 187 | 178 | 148 | 108 | 114 | 120 | 113 |
| 18 | 104 | 94 | 96 | 98 | 98 | 100 | 100 | 98 | 92 | 85 | 79 | 73 | 73 | 73 | 79 | 87 | 90 | 93 | 94 | 93 | 91 | 90 | 89 | 88 |
| 19 ** | 85 | 85 | 84 | 80 | 79 | 82 | 78 | 79 | 76 | 74 | 72 | 82 | 86 | 87 | 96 | 132 | 144 | 146 | 144 | 136 | 120 | 105 | 88 | 72 |
| 20 ** | 66 | 59 | 49 | 51 | 47 | 65 | 67 | 74 | 71 | 77 | 81 | 81 | 81 | 86 | 93 | 100 | 111 | 118 | 111 | 95 | 91 | 91 | 87 | 83 |
| 21 | 79 | 82 | 83 | 82 | 82 | 84 | 85 | 85 | 83 | 75 | 73 | 72 | 70 | 75 | 83 | 85 | 87 | 89 | 91 | 90 | 89 | 85 | 83 | 81 |
| 22 | 78 | 76 | 77 | 78 | 80 | 80 | 82 | 80 | 78 | 70 | 62 | 62 | 63 | 66 | 76 | 89 | 93 | 94 | 94 | 91 | 89 | 84 | 72 | 72 |
| 23 | 74 | 76 | 78 | 79 | 80 | 81 | 82 | 80 | 74 | 69 | 62 | 58 | 60 | 62 | 68 | 75 | 80 | 82 | 82 | 82 | 82 | 81 | 79 | 80 |
| 24 * | 78 | 78 | 76 | 74 | 72 | 74 | 76 | 72 | 70 | 64 | 58 | 58 | 65 | 70 | 78 | 83 | 86 | 85 | 84 | 84 | 84 | 84 | 82 | 82 |
| 25 | 79 | 79 | 78 | 78 | 78 | 78 | 80 | 76 | 69 | 62 | 53 | 50 | 52 | 54 | 62 | 72 | 82 | 90 | 92 | 92 | 88 | 87 | 86 | 86 |
| 26 | 85 | 76 | 69 | 67 | 61 | 71 | 78 | 76 | 73 | 73 | 73 | 68 | 65 | 69 | 76 | 81 | 83 | 85 | 87 | 91 | 83 | 83 | 81 | 73 |
| 27 | 76 | 79 | 81 | 80 | 81 | 81 | 81 | 80 | 77 | 71 | 63 | 59 | 58 | 63 | 67 | 73 | 79 | 83 | 83 | 83 | 80 | 78 | 77 | 77 |
| 28 * | 79 | 76 | 75 | 77 | 79 | 79 | 79 | 81 | 77 | 70 | 62 | 59 | 60 | 63 | 68 | 73 | 74 | 77 | 77 | 79 | 79 | 78 | 78 | 78 |
| 29 * | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 76 | 72 | 67 | 62 | 56 | 52 | 53 | 56 | 61 | 68 | 72 | 73 | 75 | 76 | 75 | 76 | 78 |
| 30 | 79 | 80 | 80 | 79 | 78 | 78 | 79 | 79 | 73 | 65 | 58 | 55 | 58 | 66 | 72 | 79 | 84 | 89 | 95 | 105 | 109 | 103 | 97 | 93 |
| Mean | 79 | 78 | 76 | 75 | 75 | 78 | 79 | 79 | 75 | 70 | 64 | 62 | 63 | 69 | 76 | 84 | 89 | 91 | 90 | 89 | 87 | 85 | 83 | 81 |
| Mean * | 78 | 78 | 77 | 77 | 78 | 79 | 80 | 79 | 76 | 70 | 63 | 59 | 60 | 64 | 70 | 76 | 79 | 79 | 79 | 81 | 81 | 80 | 79 | 79 |
| Mean ** | 76 | 73 | 68 | 63 | 61 | 68 | 71 | 74 | 72 | 72 | 66 | 68 | 71 | 78 | 87 | 103 | 117 | 127 | 122 | 111 | 101 | 98 | 94 | 87 |
| October | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 90 | 87 | 78 | 78 | 78 | 79 | 80 | 80 | 74 | 65 | 59 | 56 | 57 | 58 | 62 | 69 | 76 | 80 | 82 | 82 | 80 | 81 | 80 | 80 |
| 2 | 79 | 79 | 78 | 78 | 78 | 80 | 83 | 84 | 80 | 74 | 68 | 60 | 56 | 55 | 60 | 67 | 72 | 74 | 74 | 76 | 75 | 74 | 72 | 72 |
| 3 ** | 72 | 73 | 74 | 74 | 74 | 76 | 80 | 82 | 80 | 73 | 69 | 72 | 76 | 90 | 94 | 98 | 114 | 134 | 148 | 154 | 150 | 127 | 82 | 81 |
| 4 ** | 63 | + 41 | - 7 | - 26 | + 12 | 63 | 88 | 98 | 99 | 96 | 92 | 90 | 95 | 109 | 118 | 113 | 108 | 106 | 104 | 103 | 100 | 94 | 94 | 93 |
| 5 | 90 | 82 | 83 | 86 | 88 | 90 | 92 | 94 | 90 | 86 | 82 | 82 | 84 | 89 | 94 | 100 | 100 | 102 | 101 | 103 | 91 | 90 | 88 | 86 |
| 6 | 74 | 57 | 52 | 34 | 24 | 28 | 46 | 65 | 73 | 78 | 77 | 82 | 89 | 93 | 100 | 106 | 108 | 110 | 102 | 100 | 104 | 102 | 96 | 91 |
| 7 | 90 | 88 | 87 | 87 | 88 | 89 | 92 | 90 | 88 | 85 | 79 | 74 | 76 | 79 | 80 | 90 | 102 | 111 | 117 | 100 | 92 | 97 | 92 | 82 |
| 8 | 86 | 85 | 80 | 77 | 83 | 87 | 90 | 94 | 94 | 92 | 91 | 87 | 85 | 85 | 85 | 85 | 87 | 88 | 87 | 87 | 87 | 90 | 93 | 94 |
| 9 | 97 | 85 | 82 | 83 | 83 | 85 | 85 | 89 | 81 | 78 | 76 | 76 | 81 | 95 | 105 | 108 | 109 | 110 | 111 | 112 | 107 | 99 | 94 | 94 |
| 10 | 92 | 90 | 89 | 89 | 89 | 89 | 89 | 91 | 89 | 85 | 81 | 76 | 77 | 80 | 81 | 85 | 87 | 89 | 88 | 89 | 88 | 89 | 84 | 82 |
| 11 | 81 | 79 | 81 | 81 | 80 | 79 | 80 | 82 | 80 | 77 | 72 | 71 | 73 | 74 | 76 | 81 | 84 | 85 | 85 | 84 | 83 | 83 | 87 | 91 |
| 12 * | 86 | 86 | 84 | 84 | 84 | 83 | 84 | 86 | 84 | 80 | 76 | 74 | 75 | 77 | 79 | 84 | 83 | 81 | 82 | 81 | 81 | 80 | 80 | 80 |
| 13 ** | 81 | 84 | 80 | 67 | 61 | 55 | 64 | 68 | 70 | 73 | 76 | 82 | 84 | 88 | 93 | 95 | 102 | 129 | 148 | 148 | 180 | 119 | 88 | 48 |
| 14 ** | 98 | 104 | 95 | 64 | 42 | 47 | 52 | 55 | 61 | 68 | 82 | 93 | 102 | 118 | 120 | 124 | 139 | 136 | 113 | 111 | 106 | 83 | 84 | 80 |
| 15 ** | 53 | 31 | + 9 | - 9 | - 11 | + 25 | 55 | 81 | 91 | 95 | 99 | 99 | 97 | 97 | 105 | 117 | 123 | 121 | 107 | 103 | 103 | 99 | 94 | 89 |
| 16 | 80 | 76 | 80 | 84 | 86 | 88 | 94 | 100 | 98 | 94 | 88 | 89 | 92 | 101 | 118 | 147 | 150 | 136 | 129 | 127 | 101 | 102 | 86 | 74 |
| 17 | 83 | 88 | 87 | 83 | 86 | 89 | 93 | 99 | 104 | 102 | 96 | 93 | 93 | 91 | 102 | 119 | 135 | 134 | 129 | 123 | 124 | 113 | 98 | 91 |
| 18 | 89 | 91 | 80 | 74 | 80 | 82 | 85 | 93 | 95 | 91 | 90 | 92 | 96 | 106 | 115 | 138 | 137 | 131 | 136 | 132 | 119 | 96 | 97 | 95 |
| 19 | 75 | 71 | 71 | 72 | 74 | 77 | 83 | 95 | 99 | 101 | 97 | 102 | 103 | 106 | 111 | 119 | 127 | 129 | 123 | 118 | 112 | 108 | 104 | 99 |
| 20 * | 95 | 92 | 88 | 91 | 95 | 97 | 99 | 101 | 99 | 95 | 90 | 83 | 81 | 86 | 93 | 97 | 96 | 95 | 95 | 95 | 95 | 93 | 91 | 92 |
| 21 | 91 | 90 | 89 | 89 | 90 | 89 | 91 | 91 | 89 | 83 | 75 | 73 | 76 | 87 | 93 | 95 | 95 | 95 | 99 | 105 | 105 | 98 | 95 | 90 |
| 22 | 86 | 87 | 89 | 89 | 90 | 89 | 89 | 93 | 93 | 87 | 81 | 77 | 76 | 75 | 83 | 90 | 90 | 92 | 92 | 95 | 97 | 96 | 95 | 92 |
| 23 | 90 | 89 | 89 | 87 | 88 | 88 | 89 | 95 | 93 | 88 | 82 | 86 | 88 | 101 | 113 | 115 | 120 | 112 | 107 | 105 | 102 | 99 | 96 | 95 |
| 24 | 89 | 83 | 85 | 86 | 89 | 91 | 93 | 95 | 91 | 82 | 77 | 77 | 75 | 79 | 85 | 91 | 89 | 89 | 91 | 91 | 91 | 91 | 91 | 91 |
| 25 * | 88 | 88 | 88 | 88 | 88 | 89 | 88 | 91 | 94 | 91 | 88 | 88 | 90 | 90 | 91 | 94 | 90 | 90 | 90 | 90 | 90 | 88 | 87 | 87 |
| 26 | 86 | 86 | 86 | 85 | 85 | 84 | 85 | 85 | 85 | 83 | 76 | 74 | 76 | 78 | 84 | 86 | 88 | 87 | 86 | 87 | 90 | 88 | 88 | 86 |
| 27 * | 86 | 86 | 86 | 85 | 85 | 86 | 84 | 84 | 84 | 78 | 74 | 71 | 70 | 75 | 81 | 86 | 85 | 86 | 86 | 84 | 84 | 84 | 83 | 84 |
| 28 | 83 | 82 | 82 | 82 | 82 | 81 | 82 | 85 | 82 | 77 | 69 | 70 | 74 | 78 | 84 | 87 | 90 | 90 | 90 | 90 | 93 | 94 | 95 | 93 |
| 29 | 90 | 88 | 86 | 78 | 76 | 78 | 78 | 82 | 85 | 83 | 77 | 76 | 80 | 86 | 89 | 92 | 90 | 92 | 91 | 93 | 90 | 86 | 84 | 86 |
| 30 | 84 | 76 | 74 | 77 | 80 | 82 | 86 | 88 | 86 | 80 | 76 | 81 | 86 | 91 | 96 | 99 | 99 | 100 | 98 | 96 | 93 | 90 | 88 | 86 |
| 31 * | 82 | 82 | 77 | 82 | 86 | 8 | | | | | | | | | | | | | | | | | | |

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY AT ABINGER

| U.T. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | 24 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| November | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 84 | 84 | 82 | 83 | 84 | 84 | 85 | 86 | 83 | 79 | 77 | 80 | 82 | 84 | 89 | 94 | 94 | 95 | 96 | 97 | 94 | 90 | 88 | 86 | | |
| 2 | 85 | 85 | 84 | 85 | 84 | 81 | 82 | 82 | 81 | 80 | 81 | 80 | 78 | 78 | 83 | 88 | 88 | 87 | 88 | 88 | 87 | 87 | 85 | 83 | | |
| 3 | 82 | 82 | 78 | 78 | 82 | 83 | 84 | 84 | 86 | 81 | 76 | 74 | 74 | 76 | 80 | 87 | 89 | 90 | 90 | 90 | 89 | 89 | 86 | 82 | | |
| 4 | 80 | 81 | 81 | 81 | 83 | 83 | 82 | 82 | 84 | 82 | 78 | 76 | 74 | 75 | 80 | 84 | 84 | 84 | 84 | 84 | 85 | 86 | 84 | 82 | | |
| 5 | 82 | 82 | 82 | 81 | 81 | 81 | 81 | 82 | 86 | 85 | 83 | 83 | 84 | 83 | 86 | 89 | 88 | 88 | 88 | 88 | 89 | 90 | 87 | 85 | | |
| 6 | 83 | 82 | 81 | 80 | 81 | 81 | 80 | 82 | 85 | 84 | 82 | 78 | 80 | 80 | 80 | 82 | 82 | 84 | 88 | 90 | 92 | 92 | 90 | 83 | | |
| 7 | 77 | 78 | 80 | 81 | 82 | 82 | 82 | 82 | 82 | 81 | 78 | 76 | 75 | 77 | 81 | 84 | 88 | 90 | 89 | 88 | 86 | 86 | 84 | 82 | | |
| 8 * | 81 | 81 | 81 | 81 | 82 | 80 | 80 | 82 | 83 | 84 | 83 | 80 | 80 | 82 | 84 | 84 | 83 | 85 | 83 | 83 | 83 | 83 | 83 | 83 | | |
| 9 | 82 | 82 | 82 | 81 | 80 | 81 | 82 | 82 | 83 | 80 | 75 | 76 | 78 | 81 | 85 | 87 | 87 | 86 | 85 | 86 | 85 | 84 | 82 | 83 | | |
| 10 * | 83 | 82 | 82 | 82 | 82 | 81 | 81 | 84 | 84 | 80 | 78 | 82 | 82 | 84 | 88 | 87 | 86 | 87 | 86 | 86 | 88 | 87 | 84 | 85 | | |
| 11 | 84 | 84 | 83 | 81 | 81 | 82 | 81 | 81 | 81 | 79 | 76 | 74 | 77 | 80 | 82 | 84 | 82 | 82 | 84 | 87 | 84 | 82 | 84 | 83 | | |
| 12 ** | 82 | 87 | 86 | 84 | 83 | 82 | 80 | 82 | 81 | 76 | 76 | 80 | 82 | 84 | 85 | 89 | 94 | 94 | 92 | 92 | 90 | 90 | 88 | 83 | | |
| 13 ** | 78 | 77 | 75 | 73 | 60 | 67 | 73 | 82 | 89 | 88 | 85 | 97 | 107 | 117 | 135 | 127 | 120 | 119 | 123 | 116 | 103 | 91 | 89 | | | |
| 14 ** | 89 | 89 | 65 | 69 | 70 | 73 | 80 | 87 | 91 | 89 | 86 | 89 | 91 | 95 | 101 | 107 | 107 | 105 | 104 | 105 | 102 | 98 | 82 | | | |
| 15 | 75 | 76 | 77 | 81 | 85 | 87 | 89 | 89 | 89 | 88 | 85 | 84 | 84 | 91 | 97 | 99 | 101 | 97 | 95 | 97 | 93 | 90 | 89 | | | |
| 16 | 85 | 85 | 85 | 85 | 87 | 89 | 90 | 90 | 91 | 90 | 87 | 84 | 84 | 87 | 89 | 91 | 91 | 95 | 97 | 99 | 97 | 93 | 89 | | | |
| 17 | 85 | 85 | 85 | 85 | 86 | 86 | 86 | 87 | 88 | 84 | 79 | 79 | 79 | 82 | 85 | 87 | 87 | 89 | 88 | 89 | 91 | 91 | 87 | | | |
| 18 * | 85 | 84 | 84 | 83 | 85 | 85 | 87 | 88 | 87 | 87 | 83 | 81 | 83 | 87 | 89 | 87 | 88 | 88 | 87 | 87 | 87 | 85 | 82 | | | |
| 19 | 81 | 81 | 81 | 81 | 81 | 80 | 79 | 81 | 85 | 81 | 81 | 77 | 80 | 85 | 89 | 88 | 91 | 92 | 101 | 101 | 100 | 95 | 89 | | | |
| 20 | 86 | 83 | 81 | 81 | 83 | 84 | 84 | 85 | 88 | 86 | 84 | 84 | 87 | 90 | 94 | 94 | 92 | 90 | 90 | 90 | 91 | 92 | 85 | | | |
| 21 | 89 | 88 | 86 | 84 | 84 | 85 | 86 | 88 | 90 | 88 | 87 | 87 | 91 | 90 | 90 | 91 | 94 | 92 | 90 | 90 | 88 | 87 | 85 | | | |
| 22 * | 85 | 85 | 84 | 83 | 83 | 83 | 84 | 84 | 88 | 89 | 87 | 86 | 87 | 87 | 87 | 87 | 85 | 83 | 83 | 83 | 83 | 82 | 83 | | | |
| 23 * | 83 | 81 | 80 | 79 | 79 | 79 | 79 | 79 | 83 | 79 | 77 | 80 | 84 | 87 | 86 | 85 | 85 | 84 | 84 | 83 | 84 | 83 | 83 | | | |
| 24 * | 81 | 79 | 79 | 78 | 78 | 79 | 79 | 79 | 81 | 80 | 80 | 80 | 83 | 87 | 87 | 85 | 84 | 83 | 83 | 85 | 91 | 96 | 95 | | | |
| 25 ** | 91 | 87 | 87 | 85 | 83 | 76 | 66 | 68 | 75 | 78 | 82 | 87 | 90 | 95 | 99 | 97 | 101 | 99 | 97 | 94 | 95 | 109 | 107 | | | |
| 26 ** | 94 | 84 | 74 | 80 | 82 | 81 | 78 | 77 | 80 | 80 | 83 | 89 | 92 | 96 | 98 | 99 | 100 | 96 | 96 | 95 | 96 | 90 | 86 | | | |
| 27 | 86 | 87 | 86 | 86 | 80 | 78 | 80 | 82 | 86 | 82 | 82 | 82 | 87 | 89 | 89 | 92 | 95 | 92 | 94 | 96 | 91 | 89 | 84 | | | |
| 28 | 83 | 84 | 84 | 85 | 85 | 82 | 80 | 82 | 84 | 82 | 80 | 81 | 86 | 88 | 84 | 93 | 94 | 91 | 92 | 92 | 93 | 90 | 86 | | | |
| 29 | 84 | 86 | 84 | 84 | 82 | 82 | 84 | 84 | 86 | 82 | 82 | 82 | 86 | 92 | 94 | 96 | 97 | 96 | 94 | 93 | 91 | 88 | 84 | | | |
| 30 | 83 | 85 | 85 | 83 | 81 | 82 | 83 | 83 | 85 | 81 | 81 | 79 | 81 | 83 | 89 | 91 | 93 | 91 | 92 | 94 | 94 | 93 | 89 | | | |
| Mean | 84 | 83 | 82 | 81 | 81 | 81 | 82 | 83 | 85 | 83 | 81 | 82 | 84 | 86 | 90 | 91 | 92 | 91 | 91 | 92 | 91 | 89 | 87 | | | |
| Mean * | 83 | 83 | 82 | 82 | 82 | 82 | 82 | 83 | 85 | 84 | 82 | 82 | 83 | 85 | 87 | 86 | 85 | 85 | 85 | 85 | 85 | 84 | 83 | | | |
| Mean ** | 87 | 81 | 77 | 78 | 76 | 76 | 75 | 79 | 83 | 82 | 82 | 88 | 92 | 97 | 104 | 104 | 104 | 103 | 102 | 100 | 97 | 96 | 90 | | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43000 γ + Tabular Quantities (in γ) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 78 | 77 | 77 | 78 | 81 | 83 | 81 | 80 | 81 | 78 | 74 | 73 | 78 | 81 | 85 | 87 | 89 | 89 | 89 | 89 | 92 | 91 | 88 | | | |
| 2 | 85 | 85 | 84 | 83 | 83 | 84 | 83 | 83 | 80 | 78 | 76 | 76 | 78 | 78 | 83 | 85 | 88 | 89 | 90 | 91 | 94 | 93 | 91 | | | |
| 3 | 85 | 84 | 84 | 84 | 84 | 83 | 81 | 81 | 81 | 80 | 77 | 78 | 81 | 79 | 80 | 82 | 85 | 85 | 85 | 85 | 87 | 87 | 89 | | | |
| 4 | 87 | 87 | 85 | 85 | 84 | 85 | 86 | 85 | 85 | 85 | 87 | 85 | 81 | 83 | 85 | 85 | 87 | 85 | 85 | 85 | 85 | 83 | 83 | | | |
| 5 | 83 | 80 | 81 | 81 | 81 | 81 | 82 | 84 | 86 | 86 | 86 | 84 | 82 | 86 | 90 | 94 | 98 | 106 | 110 | 113 | 116 | 112 | 104 | | | |
| 6 ** | 96 | 89 | 86 | 84 | 86 | 86 | 88 | 88 | 88 | 86 | 83 | 86 | 89 | 90 | 90 | 90 | 90 | 90 | 91 | 97 | 106 | 102 | 90 | | | |
| 7 ** | 102 | 96 | 86 | 81 | 84 | 70 | 79 | 86 | 90 | 90 | 84 | 87 | 93 | 96 | 102 | 119 | 116 | 122 | 138 | 140 | 126 | 114 | 100 | | | |
| 8 ** | 86 | 90 | 87 | 74 | 76 | 75 | 74 | 80 | 86 | 91 | 95 | 98 | 104 | 110 | 116 | 116 | 126 | 118 | 116 | 113 | 110 | 104 | 101 | | | |
| 9 | 77 | 79 | 83 | 83 | 84 | 84 | 86 | 88 | 90 | 86 | 86 | 88 | 97 | 104 | 106 | 105 | 106 | 105 | 106 | 100 | 98 | 96 | 93 | | | |
| 10 | 90 | 91 | 90 | 90 | 89 | 88 | 87 | 87 | 88 | 89 | 88 | 90 | 90 | 97 | 101 | 104 | 102 | 96 | 96 | 93 | 92 | 91 | 88 | | | |
| 11 | 88 | 90 | 88 | 86 | 86 | 88 | 88 | 87 | 88 | 85 | 84 | 85 | 89 | 92 | 96 | 96 | 98 | 97 | 96 | 96 | 94 | 91 | 89 | | | |
| 12 | 87 | 88 | 88 | 87 | 88 | 88 | 90 | 88 | 86 | 81 | 80 | 84 | 87 | 90 | 92 | 94 | 97 | 96 | 100 | 95 | 92 | 91 | 88 | | | |
| 13 | 86 | 85 | 86 | 85 | 86 | 82 | 83 | 84 | 86 | 84 | 82 | 83 | 84 | 87 | 90 | 95 | 98 | 96 | 94 | 93 | 91 | 89 | 88 | | | |
| 14 * | 86 | 86 | 82 | 84 | 84 | 84 | 85 | 86 | 84 | 83 | 86 | 86 | 83 | 84 | 88 | 89 | 91 | 90 | 90 | 89 | 88 | 86 | 85 | | | |
| 15 | 84 | 85 | 85 | 85 | 85 | 84 | 83 | 84 | 86 | 85 | 84 | 84 | 82 | 83 | 86 | 91 | 98 | 98 | 98 | 98 | 96 | 94 | 92 | | | |
| 16 | 86 | 86 | 86 | 86 | 86 | 86 | 84 | 86 | 84 | 81 | 78 | 78 | 79 | 79 | 80 | 82 | 86 | 86 | 89 | 90 | 88 | 89 | 80 | | | |
| 17 | 82 | 82 | 84 | 86 | 87 | 86 | 86 | 85 | 83 | 78 | 78 | 79 | 79 | 82 | 86 | 90 | 94 | 92 | 94 | 92 | 92 | 91 | 90 | | | |
| 18 * | 88 | 88 | 87 | 86 | 86 | 86 | 86 | 88 | 86 | 85 | 86 | 87 | 86 | 86 | 86 | 86 | 90 | 92 | 86 | 86 | 85 | 84 | 82 | | | |
| 19 * | 83 | 84 | 84 | 84 | 84 | 83 | 84 | 86 | 85 | 84 | 82 | 81 | 79 | 82 | 86 | 86 | 88 | 87 | 86 | 86 | 85 | 84 | 82 | | | |
| 20 * | 81 | 82 | 82 | 82 | 82 | 82 | 82 | 83 | 82 | 81 | 81 | 84 | 85 | 83 | 83 | 83 | 83 | 83 | 84 | 84 | 86 | 89 | 90 | | | |
| 21 ** | 86 | 84 | 82 | 82 | 82 | 81 | 83 | 82 | 80 | 77 | 81 | 80 | 82 | 86 | 92 | 95 | 102 | 102 | 101 | 102 | 105 | 103 | 96 | | | |
| 22 ** | 79 | 84 | 85 | 83 | 79 | 80 | 82 | 81 | 84 | 85 | 84 | 86 | 91 | 93 | 99 | 107 | 116 | 107 | 106 | 105 | 103 | 102 | 96 | | | |
| 23 | 90 | 89 | 89 | 86 | 84 | 81 | 83 | 83 | 84 | 85 | 86 | 90 | 90 | 90 | 93 | 93 | 93 | 93 | 93 | 91 | 91 | 92 | 88 | | | |
| 24 | 84 | 81 | 81 | 81 | 82 | 81 | 81 | 83 | 82 | 81 | 85 | 88 | 87 | 89 | 91 | 92 | 95 | 94 | 95 | 93 | 95 | 97 | 93 | | | |
| 25 | 91 | 89 | 82 | 79 | 81 | 81 | 82 | 83 | 83 | 84 | 83 | 84 | 86 | 89 | 95 | 95 | 95 | 91 | 91 | 91 | 91 | 89 | 90 | | | |
| 26 | 87 | 85 | 82 | 81 | 81 | 79 | 76 | 76 | 79 | 82 | 84 | 85 | 82 | 83 | 87 | 89 | 93 | 91 | 93 | 95 | 95 | 89 | 85 | | | |
| 27 | 85 | 83 | 82 | 81 | 79 | 79 | 79 | 78 | 76 | 76 | 79 | 83 | 85 | 86 | 88 | 90 | 92 | 91 | 94 | 96 | 96 | 94 | 92 | | | |
| 28 | 84 | 84 | 84 | 84 | 84 | 82 | 81 | 82 | 81 | 80 | 82 | 84 | 85 | 86 | 88 | 90 | 92 | 91 | 94 | 96 | 94 | 94 | 92 | | | |
| 29 | 92 | 92 | 92 | 88 | 87 | 86 | 86 | 85 | 84 | 82 | 86 | 86 | 86 | 88 | 92 | 95 | 96 | 94 | 94 | 94 | 94 | 92 | 88 | | | |
| 30 | 82 | 84 | 85 | 85 | 85 | 85 | 84 | 83 | 83 | 83 | 87 | 89 | 91 | 94 | 95 | 93 | 93 | 95 | 93 | 91 | 91 | 89 | 87 | | | |
| 31 * | 85 | 85 | 85 | 86 | 87 | 87 | 87 | 86 | 85 | 87 | 87 | 87 | 86 | 87 | 89 | 90 | 91 | 91 | 91 | | | | | | | |

TABLE IV. - DAILY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|-----------------|---------------------|---------------------|---------------------|-------------|-------------|------|----------------------|-------------|--------------|--------------|-------------|------|--------------------|-------------|--------------|--------------|-------------|------|
| | Mean Daily Value | Maximum | Minimum | Range | | | Mean Daily Value | Maximum | Minimum | Range | | | Mean Daily Value | Maximum | Minimum | Range | | |
| | 10°+ U.T. h m | 10°+ U.T. h m | 10°+ U.T. h m | U.T. h m | U.T. h m | | 18000 Y + | U.T. h m | 18000 Y + | 18000 Y + | U.T. h m | Y | 43000 Y + | U.T. h m | 43000 Y + | 43000 Y + | U.T. h m | Y |
| January | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| 1 * | 56°6 | 12 20 | 59°1 | 54°6 | 8 10 | 4°5 | 540 | 7 59 | 554 | 526 | 11 40 | 28 | 57 | 21 34 | 63 | 51 | 11 58 | 12 |
| 2 | 57°5 | 13 29 | 61°2 | 55°0 | 7 57 | 6°2 | 544 | 7 1 | 558 | 528 | 10 43 | 30 | 55 | 16 17 | 63 | 51 | 12 39 | 12 |
| 3 * | 57°2 | 12 51 | 60°1 | 55°2 | 7 33 | 4°9 | 541 | 6 40 | 552 | 530 | 15 52 | 22 | 57 | 13 42 | 64 | 51 | 2 30 | 13 |
| 4 | 57°2 | 13 2 | 59°6 | 54°2 | 9 5 | 5°4 | 542 | 22 9 | 556 | 527 | 12 19 | 29 | 55 | 13 36 | 60 | 51 | 10 58 | 9 |
| 5 ** | 57°5 | 12 59 | 62°5 | 51°2 | 21 47 | 11°3 | 547 | 21 53 | 566 | 526 | 18 50 | 60 | 53 | 20 33 | 63 | 44 | 22 56 | 19 |
| 6 | 56°9 | 18 3 | 62°2 | 50°9 | 21 32 | 11°3 | 532 | 21 40 | 552 | 512 | 11 32 | 40 | 59 | 17 21 | 68 | 50 | 9 13 | 18 |
| 7 | 56°4 | 12 2 | 61°1 | 51°9 | 20 49 | 9°2 | 535 | 20 32 | 567 | 519 | 21 18 | 38 | 58 | 20 15 | 67 | 47 | 11 0 | 20 |
| 8 | 56°2 | 16 28 | 60°5 | 50°7 | 20 28 | 9°8 | 529 | 19 50 | 568 | 514 | 11 28 | 54 | 59 | 19 40 | 71 | 51 | 12 0 | 20 |
| 9 ** | 56°0 | 17 29 | 59°4 | 50°6 | 21 44 | 8°8 | 527 | 21 53 | 561 | 501 | 11 30 | 60 | 61 | 18 23 | 70 | 51 | 7 55 | 19 |
| 10 | 56°4 | 12 27 | 61°9 | 52°6 | 21 26 | 9°3 | 531 | 4 43 | 565 | 500 | 12 52 | 65 | 61 | 17 16 | 71 | 52 | 4 51 | 19 |
| 11 | 56°6 | 17 28 | 61°5 | 51°6 | 20 47 | 9°9 | 530 | 3 44 | 546 | 514 | 10 48 | 32 | 61 | 15 51 | 72 | 52 | 11 4 | 20 |
| 12 | 56°6 | 12 40 | 60°3 | 52°8 | 0 40 | 7°5 | 535 | 12 21 | 549 | 528 | 10 35 | 21 | 57 | 18 21 | 65 | 47 | 12 2 | 18 |
| 13 | 56°8 | 12 3 | 61°2 | 53°3 | 23 52 | 7°9 | 538 | 13 38 | 550 | 528 | 8 30 | 22 | 58 | 18 23 | 64 | 54 | 7 53 | 10 |
| 14 | 56°4 | 12 48 | 62°6 | 46°4 | 21 56 | 16°2 | 536 | 0 13 | 554 | 510 | 15 40 | 44 | 59 | 15 27 | 67 | 51 | 10 52 | 16 |
| 15 | 57°4 | 13 57 | 61°2 | 55°4 | 19 28 | 5°8 | 532 | 5 13 | 554 | 514 | 9 52 | 40 | 57 | 19 26 | 64 | 48 | 11 58 | 16 |
| 16 | 56°8 | 12 0 | 60°3 | 51°4 | 20 54 | 8°9 | 535 | 20 32 | 565 | 498 | 21 52 | 67 | 58 | 22 30 | 68 | 50 | 11 58 | 18 |
| 17 ** | 56°0 | 1 58 | 61°9 | 47°9 | 2 22 | 14°0 | 524 | 2 0 | 565 | 491 | 11 34 | 74 | 59 | 21 41 | 69 | 39 | 2 18 | 30 |
| 18 | 56°7 | 6 33 | 62°2 | 51°3 | 1 18 | 10°9 | 531 | 5 42 | 551 | 510 | 11 16 | 41 | 59 | 11 18 | 65 | 48 | 7 52 | 17 |
| 19 | 56°4 | 13 58 | 59°0 | 51°4 | 23 50 | 7°6 | 534 | 21 48 | 547 | 519 | 11 28 | 28 | 60 | 11 19 | 67 | 55 | 23 54 | 12 |
| 20 | 56°4 | 6 1 | 59°5 | 52°0 | 2 40 | 7°5 | 537 | 6 34 | 563 | 518 | 20 12 | 45 | 55 | 20 40 | 67 | 45 | 2 36 | 22 |
| 21 ** | 57°1 | 12 58 | 62°9 | 45°2 | 18 28 | 17°7 | 530 | 6 40 | 552 | 476 | 18 10 | 76 | 63 | 18 41 | 90 | 52 | 10 59 | 38 |
| 22 ** | 56°4 | 13 19 | 60°0 | 43°6 | 22 37 | 16°4 | 533 | 23 28 | 562 | 496 | 18 52 | 66 | 59 | 19 22 | 74 | 47 | 24 0 | 27 |
| 23 | 56°7 | 13 31 | 60°2 | 49°6 | 0 32 | 10°6 | 531 | 7 41 | 545 | 501 | 14 29 | 44 | 58 | 15 18 | 71 | 46 | 0 11 | 25 |
| 24 | 56°4 | 12 41 | 60°0 | 53°2 | 22 36 | 6°8 | 535 | 5 19 | 564 | 510 | 11 20 | 54 | 55 | 18 22 | 63 | 48 | 6 2 | 15 |
| 25 | 56°6 | 11 54 | 59°4 | 54°8 | 0 0 | 4°6 | 536 | 6 40 | 550 | 515 | 10 46 | 35 | 58 | 13 43 | 67 | 51 | 0 59 | 16 |
| 26 * | 56°8 | 12 42 | 59°4 | 55°3 | 22 16 | 4°1 | 539 | 5 43 | 553 | 523 | 11 28 | 30 | 57 | 14 17 | 64 | 52 | 11 53 | 12 |
| 27 * | 56°8 | 12 31 | 60°1 | 54°8 | 8 15 | 5°3 | 542 | 21 6 | 554 | 517 | 11 18 | 37 | 54 | 20 19 | 60 | 46 | 11 55 | 14 |
| 28 | 56°9 | 13 12 | 60°2 | 48°8 | 24 0 | 11°4 | 546 | 8 25 | 565 | 524 | 12 33 | 41 | 53 | 20 19 | 63 | 47 | 12 56 | 16 |
| 29 | 55°9 | 13 19 | 59°0 | 47°8 | 0 31 | 11°2 | 537 | 19 40 | 549 | 515 | 0 59 | 34 | 54 | 22 36 | 61 | 47 | 12 56 | 14 |
| 30 * | 56°8 | 12 42 | 61°1 | 54°0 | 0 52 | 7°1 | 539 | 5 41 | 554 | 513 | 11 54 | 41 | 53 | 18 22 | 59 | 44 | 11 56 | 15 |
| 31 | 56°8 | 12 46 | 60°4 | 54°8 | 8 42 | 5°8 | 540 | 6 6 | 567 | 514 | 11 37 | 43 | 53 | 22 17 | 59 | 47 | 4 18 | 12 |
| Mean | 56°7 | - | 60°6 | 51°7 | - | 9°0 | 536 | - | 557 | 513 | - | 43°3 | 57 | - | 66 | 49 | - | 17°6 |
| Mean * | 56°8 | - | 60°0 | 54°8 | - | 5°2 | 540 | - | 553 | 522 | - | 31°6 | 56 | - | 62 | 49 | - | 13°2 |
| Mean ** | 56°6 | - | 61°3 | 47°7 | - | 13°8 | 532 | - | 565 | 498 | - | 67°2 | 59 | - | 73 | 47 | - | 26°6 |
| February | 10°6 | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| 1 ** | 56°8 | 19 56 | 62°9 | 45°9 | 22 13 | 17°0 | 530 | 18 1 | 554 | 458 | 20 2 | 96 | 58 | 21 36 | 93 | 45 | 16 51 | 48 |
| 2 | 55°4 | 17 48 | 62°3 | 46°9 | 23 30 | 15°4 | 513 | 18 48 | 535 | 465 | 18 6 | 70 | 64 | 0 0 | 88 | 53 | 11 54 | 35 |
| 3 | 56°2 | 13 10 | 62°0 | 48°7 | 4 15 | 13°3 | 522 | 21 16 | 544 | 510 | 11 42 | 34 | 62 | 21 14 | 73 | 48 | 5 59 | 25 |
| 4 | 55°8 | 14 48 | 59°7 | 51°5 | 1 15 | 8°2 | 524 | 22 50 | 539 | 484 | 11 23 | 55 | 61 | 0 34 | 69 | 52 | 10 57 | 17 |
| 5 | 56°1 | 14 12 | 60°1 | 50°8 | 21 52 | 9°3 | 530 | 19 53 | 577 | 505 | 21 44 | 72 | 59 | 21 28 | 75 | 48 | 9 20 | 27 |
| 6 ** | 55°2 | 13 42 | 63°9 | 42°0 | 23 36 | 21°9 | 497 | 6 30 | 554 | 418 | 19 26 | 136 | 77 | 17 6 | 136 | 42 | 8 20 | 94 |
| 7 ** | 54°3 | 13 50 | 62°7 | 38°1 | 2 53 | 24°6 | 494 | 18 57 | 525 | 441 | 0 0 | 84 | 72 | 18 47 | 96 | 52 | 2 51 | 44 |
| 8 | 55°3 | 20 52 | 59°4 | 49°5 | 22 38 | 9°9 | 515 | 18 30 | 533 | 494 | 22 32 | 39 | 68 | 22 40 | 80 | 56 | 13 55 | 24 |
| 9 | 56°0 | 13 28 | 62°0 | 46°8 | 23 55 | 15°2 | 521 | 9 2 | 542 | 486 | 22 1 | 54 | 68 | 21 11 | 93 | 50 | 10 58 | 43 |
| 10 | 55°8 | 14 54 | 63°7 | 47°7 | 0 0 | 16°0 | 522 | 23 59 | 567 | 473 | 17 29 | 94 | 69 | 18 23 | 94 | 58 | 15 0 | 36 |
| 11 | 56°3 | 2 57 | 62°7 | 50°3 | 3 54 | 12°4 | 529 | 3 12 | 571 | 502 | 10 59 | 69 | 60 | 18 54 | 73 | 32 | 3 33 | 41 |
| 12 * | 56°2 | 12 58 | 59°3 | 54°5 | 4 55 | 4°8 | 536 | 21 18 | 547 | 521 | 14 57 | 26 | 60 | 19 32 | 66 | 52 | 11 58 | 14 |
| 13 * | 56°1 | 13 58 | 59°1 | 50°8 | 21 41 | 8°3 | 539 | 8 18 | 554 | 523 | 21 39 | 31 | 57 | 22 23 | 67 | 47 | 10 57 | 20 |
| 14 | 55°9 | 14 3 | 58°6 | 53°2 | 19 28 | 5°4 | 538 | 7 58 | 567 | 514 | 12 51 | 43 | 58 | 20 36 | 67 | 54 | 6 59 | 13 |
| 15 | 56°0 | 13 48 | 62°6 | 49°3 | 2 48 | 13°3 | 542 | 1 41 | 576 | 513 | 15 54 | 63 | 55 | 19 49 | 65 | 47 | 1 54 | 18 |
| 16 | 56°1 | 15 47 | 61°8 | 47°9 | 21 31 | 13°9 | 531 | 7 23 | 552 | 498 | 16 35 | 54 | 58 | 17 22 | 75 | 39 | 4 52 | 36 |
| 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | 55°3 | 12 53 | 60°1 | 47°4 | 23 48 | 12°7 | 536 | 21 57 | 574 | 507 | 16 39 | 67 | 56 | - | - | - | - | - |
| 19 | 55°4 | 12 28 | 60°6 | 47°0 | 20 27 | 13°6 | 533 | 6 52 | 556 | 505 | 12 57 | 51 | 56 | 17 10 | 67 | 45 | 7 11 | 22 |
| 20 | 55°1 | 13 26 | 60°1 | 51°5 | 9 6 | 8°6 | 532 | 21 58 | 553 | 500 | 15 37 | 53 | 59 | 16 19 | 76 | 45 | 12 32 | 31 |
| 21 * | 55°8 | 12 52 | 59°0 | 52°7 | 9 32 | 6°3 | 539 | 21 3 | 546 | 527 | 12 18 | 19 | 56 | 18 23 | 63 | 37 | 11 58 | 26 |
| 22 * | 56°3 | 13 40 | 60°6 | 53°3 | 8 40 | 7°3 | 542 | 13 41 | 562 | 531 | 11 45 | 21 | 57 | 20 37 | 70 | 41 | 10 53 | 29 |
| 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 ** | 55°0 | 19 29 | 62°6 | 17°7 | 21 47 | 64°9 | 503 | 11 12 | 551 | 292 | 24 0 | 259 | 80 | 19 36 | 319 | -34 | 10 58 | 285 |
| 25 ** | 53°6 | 7 30 | 72°7 | 22°5 | 1 18 | 50°2 | 436 | 21 42 | 577 | 284 | 0 2 | 293 | 96 | 15 9 | 151 | -11 | 1 40 | 162 |
| 26 | 54°7 | 12 57 | 59°0 | 49°8 | 22 47 | 9°2 | 496 | 22 35 | 546 | 473 | 10 21 | 73 | 74 | 21 38 | 83 | 60 | 10 26 | 23 |
| 27 * | 54°9 | 13 50 | 60°3 | 51°9 | 9 8 | 8°4 | 518 | 23 1 | 531 | 499 | 14 27 | 32 | 69 | 21 28 | 75 | 54 | 11 58 | 21 |
| 28 | 54°9 | 15 8 | 62°1 | 48°2 | 22 15 | 13°9 | 516 | 6 42 | 535 | 472 | 16 41 | 63 | 72 | 17 18 | 96 | 49 | 11 4 | 47 |
| Mean | 55°6 | - | 62°3 | 46°7 | - | 15°6 | 521 | - | 552 | 477 | - | 75°0 | 65 | - | | | | |

TABLE IV. - DAILY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|--------------|------------------|---------|------|---------|-------|-------|----------------------|---------|-------|---------|-------|-------|--------------------|---------|-------|---------|-------|-------|
| | Mean Daily Value | Maximum | | Minimum | | Range | Mean Daily Value | Maximum | | Minimum | | Range | Mean Daily Value | Maximum | | Minimum | | Range |
| March | 10°+ | U.T. | 10°+ | 10°+ | U.T. | ' | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | Y + | h m | Y + | Y + | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 56°1 | 13 31 | 68°4 | 39°1 | 23 0 | 27°3 | 515 | 13 17 | 540 | 468 | 22 47 | 72 | 76 | 23 8 | 104 | 50 | 12 48 | 54 |
| 2 | 54°3 | 13 14 | 63°9 | 42°0 | 2 38 | 21°9 | 507 | 2 39 | 571 | 468 | 3 37 | 103 | 68 | 0 0 | 91 | 26 | 3 28 | 65 |
| 3 | 55°2 | 14 2 | 65°2 | 42°9 | 23 40 | 22°3 | 516 | 23 48 | 612 | 477 | 22 28 | 135 | 75 | 16 42 | 99 | 59 | 6 39 | 40 |
| 4 | 53°2 | 13 50 | 62°5 | 40°7 | 3 41 | 21°8 | 501 | 0 0 | 563 | 480 | 0 19 | 83 | 68 | 16 22 | 99 | 41 | 4 18 | 58 |
| 5 | 54°8 | 13 31 | 62°8 | 47°6 | 22 40 | 15°2 | 516 | 19 6 | 553 | 468 | 10 28 | 67 | 72 | 18 43 | 92 | 55 | 10 28 | 37 |
| 6 | 55°1 | 13 12 | 63°8 | 49°0 | 20 54 | 14°8 | 517 | 5 45 | 540 | 485 | 16 52 | 55 | 72 | 17 27 | 92 | 58 | 11 52 | 34 |
| 7 * | 54°8 | 12 42 | 61°7 | 50°1 | 2 11 | 11°6 | 525 | 1 32 | 556 | 499 | 11 16 | 57 | 67 | 21 29 | 75 | 51 | 10 59 | 24 |
| 8 | 54°5 | 13 2 | 61°6 | 47°4 | 1 27 | 14°2 | 532 | 5 2 | 577 | 504 | 10 1 | 73 | 61 | 19 27 | 79 | 42 | 6 30 | 37 |
| 9 | 55°6 | 13 3 | 62°7 | 48°2 | 19 3 | 14°5 | 531 | 6 27 | 566 | 497 | 14 19 | 71 | 64 | 17 27 | 84 | 39 | 11 55 | 45 |
| 10 | 54°8 | 14 21 | 61°8 | 46°9 | 21 22 | 14°9 | 530 | 21 23 | 553 | 500 | 12 57 | 53 | 64 | 16 34 | 74 | 49 | 11 55 | 25 |
| 11 | 55°1 | 13 27 | 61°2 | 47°0 | 16 32 | 14°2 | 530 | 6 11 | 554 | 500 | 16 27 | 54 | 66 | 17 17 | 89 | 50 | 11 12 | 39 |
| 12 | 54°4 | 13 10 | 60°9 | 45°0 | 19 48 | 15°9 | 525 | 23 11 | 566 | 498 | 11 44 | 68 | 66 | 20 5 | 82 | 54 | 13 20 | 28 |
| 13 * | 55°6 | 13 52 | 60°9 | 50°1 | 0 8 | 10°8 | 530 | 22 41 | 547 | 499 | 11 8 | 48 | 64 | 18 25 | 71 | 46 | 11 18 | 25 |
| 14 | 55°5 | 12 13 | 61°9 | 52°2 | 22 16 | 9°7 | 539 | 8 38 | 556 | 516 | 15 59 | 40 | 62 | 18 43 | 74 | 42 | 12 1 | 32 |
| 15 | 55°0 | 13 30 | 61°6 | 50°1 | 17 8 | 11°5 | 536 | 23 44 | 556 | 477 | 16 47 | 79 | 65 | 17 23 | 89 | 47 | 10 58 | 42 |
| 16 | 55°0 | 12 41 | 63°6 | 47°1 | 20 20 | 16°5 | 534 | 20 33 | 569 | 491 | 9 59 | 78 | 62 | 16 29 | 79 | 42 | 3 54 | 37 |
| 17 | 54°7 | 14 3 | 61°5 | 47°7 | 19 44 | 13°8 | 531 | 0 41 | 580 | 510 | 11 18 | 70 | 55 | 18 23 | 74 | 35 | 10 57 | 39 |
| 18 * | 55°0 | 13 50 | 60°2 | 51°2 | 8 34 | 9°0 | 534 | 0 31 | 577 | 506 | 11 47 | 71 | 60 | 7 36 | 68 | 44 | 11 54 | 24 |
| 19 * | 55°4 | 13 30 | 60°9 | 50°8 | 22 46 | 10°1 | 536 | 19 7 | 564 | 517 | 10 32 | 47 | 60 | 16 3 | 68 | 51 | 11 55 | 17 |
| 20 | 55°5 | 2 42 | 63°8 | 49°5 | 8 48 | 14°3 | 542 | 3 15 | 562 | 512 | 10 33 | 50 | 55 | 16 18 | 67 | 37 | 11 3 | 30 |
| 21 | 55°8 | 13 2 | 62°3 | 48°4 | 19 10 | 13°9 | 531 | 6 20 | 575 | 462 | 10 29 | 113 | 64 | 19 22 | 90 | 47 | 10 0 | 43 |
| 22 ** | 54°3 | 13 2 | 66°1 | 45°9 | 22 13 | 20°2 | 525 | 22 22 | 584 | 470 | 13 44 | 114 | 64 | 16 23 | 108 | 44 | 11 10 | 64 |
| 23 | 54°8 | 14 19 | 64°1 | 41°3 | 21 40 | 22°8 | 525 | 21 9 | 591 | 484 | 9 48 | 107 | 63 | 16 18 | 94 | 40 | 2 53 | 54 |
| 24 | 54°9 | 13 39 | 63°4 | 49°0 | 21 28 | 14°4 | 529 | 21 38 | 566 | 498 | 11 11 | 88 | 65 | 18 23 | 85 | 43 | 11 57 | 42 |
| 25 * | 54°3 | 13 43 | 60°9 | 44°1 | 23 43 | 16°8 | 536 | 23 53 | 570 | 522 | 11 9 | 48 | 59 | 18 28 | 72 | 35 | 10 59 | 37 |
| 26 | 53°9 | 14 18 | 64°4 | 45°3 | 21 20 | 19°1 | 532 | 23 27 | 561 | 499 | 11 27 | 62 | 64 | 18 37 | 86 | 44 | 12 27 | 42 |
| 27 ** | 53°6 | 16 28 | 64°1 | 40°4 | 22 37 | 23°7 | 536 | 22 14 | 566 | 480 | 19 2 | 106 | 63 | 19 12 | 115 | 31 | 3 32 | 84 |
| 28 ** | 53°3 | 16 17 | 70°7 | 30°2 | 23 1 | 40°5 | 498 | 14 34 | 554 | 377 | 22 49 | 177 | 84 | 17 20 | 196 | 50 | 13 0 | 146 |
| 29 ** | 51°5 | 19 31 | 62°4 | 35°1 | 1 44 | 27°3 | 499 | 19 23 | 596 | 405 | 12 1 | 193 | 81 | 16 18 | 142 | 40 | 3 38 | 102 |
| 30 ** | 52°8 | 13 10 | 62°1 | 32°8 | 21 0 | 29°3 | 511 | 21 10 | 596 | 464 | 20 42 | 132 | 77 | 17 18 | 117 | 58 | 3 7 | 59 |
| 31 | 53°0 | 14 10 | 61°7 | 45°9 | 21 53 | 15°8 | 514 | 22 21 | 578 | 476 | 10 18 | 102 | 68 | 19 25 | 86 | 47 | 0 58 | 39 |
| Mean | 54°6 | - | 62°9 | 45°3 | - | 17°7 | 524 | - | 569 | 485 | - | 84°4 | 66 | - | 92 | 45 | - | 46°5 |
| Mean * | 55°1 | - | 60°9 | 49°3 | - | 11°6 | 533 | - | 563 | 509 | - | 54°2 | 62 | - | 71 | 45 | - | 25°4 |
| Mean ** | 53°1 | - | 65°1 | 36°9 | - | 28°2 | 512 | - | 584 | 439 | - | 144°4 | 74 | - | 136 | 45 | - | 91°0 |
| April | 10°+ | U.T. | 10°+ | 10°+ | U.T. | ' | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | Y + | h m | Y + | Y + | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 53°3 | 14 49 | 62°6 | 42°0 | 19 8 | 20°6 | 516 | 23 30 | 578 | 480 | 12 8 | 98 | 69 | 19 17 | 111 | 48 | 2 48 | 63 |
| 2 | 53°0 | 13 56 | 61°8 | 42°7 | 23 6 | 19°1 | 523 | 23 17 | 567 | 476 | 11 32 | 121 | 58 | 18 8 | 92 | 52 | 11 20 | 40 |
| 3 | 53°6 | 13 10 | 64°0 | 46°6 | 22 58 | 17°4 | 519 | 17 3 | 544 | 466 | 8 32 | 58 | 71 | 18 45 | 96 | 55 | 11 58 | 41 |
| 4 | 53°2 | 13 49 | 61°8 | 45°0 | 21 42 | 16°8 | 523 | 18 25 | 566 | 475 | 21 2 | 91 | 69 | 20 47 | 103 | 51 | 12 2 | 52 |
| 5 | 54°9 | 13 15 | 65°6 | 47°7 | 6 42 | 17°9 | 526 | 6 23 | 548 | 488 | 10 55 | 60 | 67 | 18 10 | 78 | 45 | 11 59 | 33 |
| 6 * | 54°5 | 13 52 | 60°6 | 48°6 | 9 18 | 12°0 | 534 | 17 43 | 553 | 503 | 11 19 | 50 | 66 | 7 38 | 75 | 45 | 13 1 | 30 |
| 7 * | 54°6 | 13 49 | 62°4 | 47°6 | 8 41 | 14°8 | 537 | 15 27 | 562 | 498 | 11 53 | 64 | 63 | 19 42 | 75 | 40 | 12 3 | 35 |
| 8 | 54°8 | 13 20 | 62°6 | 48°3 | 21 12 | 14°3 | 536 | 20 18 | 578 | 512 | 12 16 | 66 | 65 | 18 32 | 90 | 43 | 12 49 | 47 |
| 9 | 53°7 | 13 31 | 63°2 | 43°4 | 18 48 | 19°8 | 542 | 19 2 | 566 | 510 | 13 8 | 76 | 63 | 18 28 | 86 | 42 | 12 0 | 44 |
| 10 | 54°0 | 23 48 | 65°6 | 35°8 | 19 37 | 29°8 | 531 | 23 32 | 611 | 461 | 13 7 | 150 | 64 | 16 16 | 95 | 22 | 0 58 | 73 |
| 11 | 52°9 | 13 33 | 62°6 | 41°9 | 17 42 | 20°7 | 528 | 17 51 | 622 | 465 | 11 10 | 157 | 67 | 17 52 | 102 | 24 | 0 12 | 78 |
| 12 | 54°5 | 12 7 | 59°4 | 50°0 | 21 50 | 9°4 | 523 | 22 42 | 566 | 480 | 10 49 | 86 | 63 | 21 8 | 74 | 48 | 3 55 | 26 |
| 13 * | 54°4 | 14 8 | 61°5 | 49°0 | 9 9 | 12°5 | 531 | 21 19 | 566 | 498 | 11 38 | 68 | 61 | 19 6 | 79 | 37 | 12 8 | 42 |
| 14 | 54°6 | 12 59 | 63°9 | 48°5 | 8 56 | 15°4 | 536 | 20 50 | 561 | 496 | 10 45 | 65 | 61 | 20 28 | 77 | 37 | 11 58 | 40 |
| 15 * | 54°0 | 12 58 | 60°9 | 48°1 | 8 20 | 12°8 | 537 | 19 54 | 552 | 511 | 10 9 | 41 | 64 | 16 32 | 78 | 45 | 11 59 | 33 |
| 16 * | 54°5 | 13 19 | 61°9 | 47°8 | 9 13 | 14°1 | 539 | 21 32 | 597 | 510 | 10 55 | 87 | 58 | 21 31 | 71 | 29 | 12 44 | 42 |
| 17 ** | 54°6 | 14 42 | 79°8 | 27°0 | 6 18 | 52°8 | 504 | 1 59 | 680 | 330 | 7 52 | 350 | 81 | 15 33 | 287 | -22 | 4 33 | 309 |
| 18 ** | 52°8 | 14 7 | 64°5 | 42°0 | 23 40 | 22°5 | 491 | 17 31 | 591 | 400 | 7 57 | 191 | 91 | 17 28 | 153 | 50 | 23 38 | 103 |
| 19 | 53°8 | 13 40 | 67°2 | 42°0 | 0 1 | 25°2 | 511 | 17 38 | 705 | 462 | 20 44 | 243 | 86 | 17 25 | 185 | 47 | 12 50 | 138 |
| 20 | 53°0 | 12 2 | 62°8 | 46°3 | 7 21 | 16°5 | 499 | 17 20 | 557 | 441 | 10 37 | 116 | 78 | 17 21 | 119 | 50 | 5 15 | 69 |
| 21 | 52°9 | 13 28 | 62°5 | 46°5 | 8 20 | 16°0 | 513 | 17 25 | 556 | 470 | 9 17 | 86 | 80 | 17 22 | 133 | 52 | 2 40 | 81 |
| 22 | 53°3 | 14 49 | 65°5 | 42°7 | 18 21 | 22°8 | 512 | 18 33 | 593 | 470 | 10 11 | 123 | 85 | 18 33 | 138 | 52 | 11 58 | 86 |
| 23 ** | 54°2 | 6 12 | 73°9 | 36°5 | 8 3 | 37°4 | 503 | 15 43 | 620 | 327 | 6 43 | 293 | 79 | 15 43 | 190 | -15 | 6 48 | 205 |
| 24 ** | 50°9 | 17 39 | 67°0 | 21°4 | 20 40 | 45°6 | 499 | 18 16 | 661 | 344 | 23 42 | 517 | 76 | 18 13 | 131 | -23 | 20 25 | 154 |
| 25 ** | 51°0 | 14 19 | 67°0 | 25°8 | 0 48 | 41°2 | 461 | 14 17 | 583 | 304 | 1 28 | 279 | 88 | 16 52 | 146 | -23 | 1 57 | 169 |
| 26 | 53°7 | 13 28 | 62°1 | 46°8 | 8 6 | 15°3 | 501 | 18 50 | 534 | 467 | 11 33 | 67 | 79 | 18 42 | 97 | 54 | 0 58 | 43 |
| 27 | 52°7 | 13 25 | 61°6 | 39°0 | 23 53 | 22°6 | 519 | 21 23 | 576 | 485 | 10 36 | 91 | 74 | 17 22 | 97 | 9 | 23 48 | 88 |
| 28 | 51°7 | 13 44 | 62°9 | 42°6 | | | | | | | | | | | | | | |

TABLE IV. - DAILY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|-------------|------------------|---------|---------|-------|-------|------|----------------------|---------|---------|-------|-------|-------|--------------------|---------|---------|-------|-------|-------|
| | Mean Daily Value | Maximum | Minimum | Range | U.T. | | Mean Daily Value | Maximum | Minimum | Range | U.T. | | Mean Daily Value | Maximum | Minimum | Range | U.T. | |
| May | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | | 43000 | U.T. | 43000 | 43000 | U.T. | |
| | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y | h m |
| 1 ** | 54.8 | 13 54 | 73.3 | 40.7 | 20 7 | 32.6 | 518 | 13 53 | 602 | 448 | 21 11 | 154 | 95 | 18 23 | 176 | 23 | 24 0 | 153 |
| 2 ** | 52.3 | 12 38 | 62.8 | 37.7 | 2 1 | 25.1 | 494 | 21 55 | 549 | 431 | 1 23 | 118 | 77 | 18 40 | 137 | 22 | 0 1 | 115 |
| 3 | 52.5 | 12 50 | 60.1 | 45.5 | 5 45 | 14.6 | 506 | 19 21 | 559 | 448 | 10 4 | 111 | 78 | 16 44 | 105 | 44 | 1 44 | 61 |
| 4 | 52.3 | 13 29 | 59.5 | 45.1 | 8 22 | 14.4 | 523 | 16 55 | 560 | 479 | 10 8 | 81 | 77 | 17 22 | 95 | 47 | 10 50 | 48 |
| 5 | 54.8 | 21 31 | 62.5 | 46.2 | 8 17 | 16.3 | 538 | 20 44 | 709 | 484 | 9 44 | 225 | 73 | 20 43 | 118 | 53 | 11 13 | 66 |
| 6 ** | 51.1 | 15 38 | 66.2 | 40.7 | 6 22 | 25.5 | 538 | 16 50 | 619 | 461 | 14 9 | 158 | 81 | 16 49 | 143 | 30 | 23 7 | 113 |
| 7 ** | 53.3 | 4 25 | 59.9 | 40.2 | 3 19 | 19.7 | 505 | 21 10 | 560 | 425 | 11 10 | 135 | 70 | 15 50 | 117 | 2 | 1 43 | 115 |
| 8 ** | 53.4 | 1 2 | 64.6 | 46.6 | 21 50 | 18.0 | 519 | 19 2 | 577 | 454 | 11 17 | 123 | 76 | 15 15 | 109 | 17 | 1 38 | 92 |
| 9 | 52.8 | 3 29 | 61.2 | 46.8 | 5 0 | 14.4 | 523 | 17 42 | 569 | 471 | 9 38 | 98 | 71 | 17 15 | 105 | 25 | 4 3 | 80 |
| 10 | 53.4 | 13 28 | 58.4 | 48.3 | 7 55 | 10.1 | 529 | 16 50 | 600 | 497 | 10 53 | 103 | 72 | 18 20 | 93 | 43 | 11 20 | 50 |
| 11 * | 52.6 | 11 40 | 56.3 | 48.2 | 6 50 | 8.1 | 533 | 20 20 | 551 | 494 | 11 51 | 57 | 74 | 17 23 | 86 | 56 | 11 51 | 30 |
| 12 * | 53.3 | 13 56 | 58.7 | 47.8 | 6 55 | 10.9 | 537 | 17 18 | 562 | 498 | 12 32 | 64 | 72 | 19 35 | 86 | 48 | 12 33 | 40 |
| 13 * | 53.6 | 12 43 | 59.8 | 47.6 | 6 37 | 12.2 | 542 | 18 57 | 560 | 506 | 13 16 | 54 | 74 | 18 35 | 88 | 48 | 11 46 | 40 |
| 14 * | 54.2 | 12 37 | 60.0 | 49.0 | 5 51 | 11.0 | 544 | 22 41 | 569 | 524 | 14 13 | 45 | 67 | 20 35 | 79 | 41 | 12 0 | 38 |
| 15 | 53.6 | 13 46 | 63.7 | 45.0 | 7 53 | 18.7 | 543 | 23 42 | 571 | 517 | 14 28 | 54 | 70 | 17 57 | 87 | 44 | 11 50 | 43 |
| 16 | 52.7 | 12 10 | 60.6 | 43.7 | 7 41 | 16.9 | 532 | 2 13 | 568 | 478 | 7 41 | 90 | 65 | 17 13 | 86 | 35 | 10 2 | 51 |
| 17 | 52.2 | 13 42 | 60.5 | 44.0 | 6 22 | 16.5 | 535 | 19 23 | 560 | 513 | 10 18 | 67 | 75 | 18 34 | 108 | 48 | 11 54 | 62 |
| 18 | 52.5 | 12 57 | 64.9 | 42.8 | 5 38 | 22.1 | 533 | 17 28 | 574 | 495 | 8 29 | 79 | 64 | 17 22 | 107 | 33 | 11 10 | 74 |
| 19 | 52.3 | 13 57 | 62.2 | 44.8 | 1 22 | 17.4 | 532 | 18 22 | 571 | 501 | 7 42 | 70 | 65 | 18 27 | 91 | 43 | 12 0 | 48 |
| 20 | 53.4 | 13 24 | 64.1 | 45.1 | 2 3 | 19.0 | 526 | 19 12 | 555 | 472 | 8 28 | 83 | 70 | 18 10 | 100 | 50 | 11 31 | 50 |
| 21 | 52.3 | 14 10 | 67.1 | 44.6 | 9 29 | 22.5 | 535 | 17 50 | 595 | 498 | 23 8 | 97 | 70 | 17 46 | 128 | 26 | 12 1 | 102 |
| 22 | 53.2 | 12 52 | 63.8 | 37.5 | 23 22 | 26.3 | 518 | 20 58 | 564 | 443 | 9 5 | 121 | 69 | 17 17 | 101 | 39 | 11 56 | 62 |
| 23 | 51.4 | 15 8 | 59.5 | 43.0 | 23 13 | 16.5 | 524 | 18 30 | 613 | 470 | 11 22 | 143 | 71 | 18 28 | 127 | 49 | 11 12 | 78 |
| 24 | 52.1 | 14 24 | 62.1 | 44.8 | 3 6 | 17.3 | 525 | 18 30 | 603 | 485 | 12 28 | 118 | 63 | 19 8 | 104 | 28 | 2 58 | 76 |
| 25 | 52.1 | 15 12 | 60.6 | 42.9 | 5 43 | 17.7 | 528 | 15 53 | 625 | 495 | 10 14 | 130 | 67 | 15 53 | 106 | 40 | 3 35 | 66 |
| 26 | 52.7 | 14 17 | 60.1 | 45.5 | 3 34 | 14.6 | 532 | 19 2 | 607 | 488 | 8 38 | 119 | 64 | 15 43 | 100 | 39 | 5 41 | 61 |
| 27 | 52.0 | 13 32 | 59.8 | 46.4 | 6 56 | 13.4 | 530 | 21 50 | 605 | 499 | 12 52 | 106 | 64 | 20 53 | 86 | 42 | 12 10 | 44 |
| 28 | 51.6 | 11 51 | 60.9 | 39.0 | 6 2 | 21.9 | 537 | 22 19 | 590 | 497 | 7 58 | 93 | 63 | 18 8 | 83 | 15 | 2 41 | 68 |
| 29 | 51.3 | 12 34 | 62.7 | 36.0 | 7 36 | 26.7 | 526 | 17 40 | 591 | 459 | 12 48 | 132 | 62 | 19 50 | 108 | 16 | 10 21 | 92 |
| 30 | 53.7 | 13 28 | 60.7 | 48.1 | 5 51 | 12.6 | 533 | 20 2 | 561 | 503 | 8 31 | 58 | 71 | 18 43 | 88 | 37 | 11 59 | 51 |
| 31 * | 52.5 | 13 26 | 61.0 | 44.8 | 7 4 | 16.2 | 536 | 19 52 | 572 | 498 | 11 31 | 74 | 69 | 18 37 | 81 | 45 | 11 59 | 36 |
| Mean | 52.8 | - | 61.9 | 44.1 | - | 17.7 | 528 | - | 583 | 482 | - | 101.9 | 71 | - | 104 | 36 | - | 67.9 |
| Mean * | 53.2 | - | 59.2 | 47.5 | - | 11.7 | 538 | - | 563 | 504 | - | 58.8 | 71 | - | 84 | 47 | - | 36.8 |
| Mean ** | 53.0 | - | 65.4 | 41.2 | - | 24.2 | 515 | - | 581 | 444 | - | 137.6 | 80 | - | 136 | 19 | - | 117.6 |
| June | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | | 43000 | U.T. | 43000 | 43000 | U.T. | |
| | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y | h m |
| 1 | 52.9 | 14 51 | 62.4 | 43.0 | 7 27 | 19.4 | 550 | 15 9 | 610 | 515 | 10 43 | 95 | 73 | 18 8 | 96 | 43 | 11 32 | 53 |
| 2 | 53.0 | 14 42 | 61.3 | 41.9 | 7 13 | 19.4 | 548 | 17 31 | 605 | 498 | 9 27 | 107 | 74 | 18 51 | 110 | 52 | 11 56 | 58 |
| 3 | 52.4 | 13 52 | 59.4 | 45.5 | 7 7 | 13.9 | 536 | 20 22 | 574 | 480 | 11 46 | 94 | 74 | 17 33 | 100 | 40 | 11 36 | 60 |
| 4 | 53.0 | 14 19 | 63.5 | 43.7 | 7 12 | 19.8 | 540 | 16 37 | 602 | 487 | 12 4 | 115 | 75 | 16 36 | 106 | 47 | 11 26 | 59 |
| 5 | 53.6 | 14 10 | 63.0 | 42.7 | 7 28 | 20.3 | 537 | 14 32 | 573 | 483 | 10 38 | 90 | 74 | 17 20 | 92 | 50 | 12 24 | 42 |
| 6 | 52.6 | 14 12 | 59.9 | 44.0 | 8 52 | 15.9 | 535 | 17 15 | 570 | 490 | 12 18 | 80 | 70 | 18 21 | 86 | 46 | 11 54 | 40 |
| 7 * | 52.3 | 12 54 | 58.2 | 44.2 | 8 6 | 14.0 | 542 | 17 51 | 574 | 499 | 12 12 | 75 | 71 | 6 34 | 86 | 51 | 12 6 | 36 |
| 8 * | 53.2 | 14 50 | 59.4 | 45.6 | 7 0 | 13.8 | 546 | 18 23 | 577 | 508 | 11 38 | 69 | 66 | 18 26 | 79 | 43 | 11 21 | 36 |
| 9 * | 52.4 | 14 49 | 57.8 | 45.0 | 7 50 | 12.8 | 550 | 22 43 | 575 | 523 | 9 54 | 52 | 68 | 17 21 | 77 | 50 | 11 40 | 27 |
| 10 | 52.8 | 14 28 | 59.3 | 43.3 | 7 12 | 16.0 | 561 | 18 58 | 589 | 530 | 11 38 | 59 | 64 | 18 35 | 81 | 44 | 9 30 | 37 |
| 11 * | 52.3 | 14 21 | 58.4 | 45.6 | 8 33 | 12.8 | 552 | 22 0 | 580 | 507 | 12 45 | 73 | 65 | 19 14 | 74 | 43 | 11 7 | 31 |
| 12 | 53.0 | 12 58 | 60.7 | 44.7 | 6 33 | 16.0 | 550 | 21 28 | 574 | 519 | 13 40 | 55 | 63 | 17 26 | 79 | 43 | 12 6 | 36 |
| 13 | 53.6 | 14 30 | 61.7 | 44.0 | 6 38 | 17.7 | 559 | 19 0 | 620 | 526 | 10 16 | 94 | 65 | 20 17 | 83 | 47 | 11 59 | 36 |
| 14 ** | 52.0 | 11 33 | 64.1 | 32.2 | 2 1 | 31.9 | 512 | 1 27 | 629 | 358 | 9 47 | 271 | 76 | 16 28 | 136 | 15 | 1 58 | 121 |
| 15 | 51.5 | 14 21 | 58.3 | 44.7 | 6 18 | 13.6 | 520 | 17 11 | 557 | 475 | 7 26 | 81 | 74 | 19 43 | 95 | 55 | 10 57 | 40 |
| 16 ** | 53.5 | 13 18 | 61.2 | 46.1 | 2 58 | 15.1 | 515 | 2 24 | 565 | 408 | 9 8 | 157 | 72 | 16 39 | 111 | 38 | 5 1 | 75 |
| 17 | 52.1 | 13 28 | 57.2 | 45.2 | 7 7 | 12.0 | 529 | 20 58 | 576 | 497 | 8 49 | 79 | 78 | 19 17 | 89 | 48 | 11 13 | 41 |
| 18 | 52.8 | 13 33 | 63.7 | 43.4 | 3 23 | 20.3 | 531 | 23 35 | 606 | 471 | 10 29 | 135 | 73 | 18 40 | 111 | 47 | 9 58 | 64 |
| 19 ** | 51.4 | 14 22 | 63.2 | 41.3 | 9 0 | 21.9 | 530 | 22 29 | 572 | 466 | 9 19 | 106 | 67 | 17 11 | 95 | 48 | 12 39 | 47 |
| 20 | 52.2 | 14 42 | 59.9 | 43.6 | 0 0 | 16.3 | 523 | 18 22 | 566 | 467 | 13 10 | 99 | 67 | 18 20 | 93 | 48 | 11 58 | 45 |
| 21 | 51.7 | 14 27 | 60.7 | 43.9 | 7 45 | 16.8 | 536 | 18 58 | 588 | 483 | 7 22 | 105 | 67 | 15 17 | 95 | 38 | 11 36 | 57 |
| 22 | 51.5 | 14 52 | 58.1 | 44.9 | 6 12 | 11.2 | 535 | 18 58 | 572 | 500 | 10 21 | 72 | 65 | 19 17 | 95 | 39 | 10 22 | 56 |
| 23 | 51.7 | 13 55 | 60.3 | 44.9 | 7 44 | 15.4 | 539 | 19 21 | 593 | 490 | 13 0 | 103 | 71 | 19 20 | 103 | 48 | 1 20 | 55 |
| 24 | 52.1 | 14 42 | 59.1 | 44.6 | 7 28 | 14.5 | 535 | 23 22 | 562 | 497 | 13 22 | 65 | 69 | 18 32 | 87 | 50 | 3 42 | 37 |
| 25 * | 51.8 | 14 19 | 60.7 | 46.1 | 8 51 | 14.6 | 536 | 18 41 | 567 | 502 | 11 48 | 65 | 70 | 18 42 | 82 | 52 | 12 0 | 30 |
| 26 | 51.9 | 14 11 | 59.7 | 43.5 | 7 40 | 16.2 | 554 | 20 22 | 658 | 515 | 11 11 | 143 | 66 | 20 21 | 84 | 40 | 11 40 | 54 |
| 27 ** | 53.0 | 13 20 | 60.6 | 45.5 | 9 25 | 15.1 | 546 | 0 0 | 599 | 495 | 10 22 | 94 | 71 | 17 10 | 101 | 41 | 9 59 | 60 |
| 28 | 52.5 | 15 30 | 60.6 | 42.0 | 22 1 | | | | | | | | | | | | | |

TABLE IV. - HOURLY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|---------------|------------------|---------|---------|-------|-------|------|----------------------|---------|---------|-------|-------|-------|--------------------|---------|---------|-------|-------|-------|
| | Mean Daily Value | Maximum | Minimum | Range | | | Mean Daily Value | Maximum | Minimum | Range | | | Mean Daily Value | Maximum | Minimum | Range | | |
| July | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | h m | h m | h m | h m | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 52°6 | 12 56 | 60°3 | 46°3 | 8 21 | 14°0 | 540 | 19 10 | 572 | 487 | 10 41 | 85 | 70 | 18 40 | 91 | 50 | 10 12 | 41 |
| 2 | 52°1 | 14 42 | 59°4 | 44°9 | 8 40 | 14°5 | 543 | 20 54 | 574 | 513 | 12 40 | 61 | 70 | 18 30 | 89 | 47 | 10 58 | 42 |
| 3 ** | 55°3 | 15 38 | 74°1 | 42°9 | 18 24 | 31°2 | 541 | 18 30 | 682 | 449 | 12 41 | 213 | 80 | 14 44 | 152 | 40 | 10 50 | 112 |
| 4 ** | 51°8 | 16 3 | 63°9 | 43°8 | 7 34 | 20°1 | 538 | 17 19 | 654 | 482 | 21 56 | 172 | 82 | 18 11 | 130 | 33 | 22 15 | 97 |
| 5 ** | 55°6 | 14 28 | 70°3 | 42°2 | 1 58 | 28°1 | 510 | 18 20 | 637 | 379 | 10 39 | 258 | 88 | 18 33 | 207 | - 3 | 6 46 | 210 |
| 6 | 50°1 | 14 30 | 57°1 | 41°8 | 9 23 | 15°3 | 503 | 22 40 | 538 | 447 | 9 19 | 91 | 71 | 18 35 | 91 | 34 | 3 45 | 57 |
| 7 * | 51°9 | 14 20 | 58°2 | 45°4 | 7 30 | 12°8 | 523 | 20 3 | 551 | 485 | 11 10 | 88 | 77 | 5 20 | 87 | 61 | 11 55 | 26 |
| 8 | 51°7 | 14 7 | 57°4 | 44°6 | 8 10 | 12°8 | 538 | 18 58 | 573 | 507 | 11 15 | 86 | 81 | 18 27 | 103 | 55 | 11 0 | 48 |
| 9 * | 52°7 | 13 0 | 61°7 | 45°2 | 7 10 | 16°5 | 536 | 20 2 | 559 | 510 | 10 25 | 49 | 72 | 19 40 | 84 | 52 | 12 55 | 32 |
| 10 * | 51°6 | 12 10 | 55°4 | 44°5 | 6 11 | 10°9 | 548 | 19 58 | 572 | 526 | 8 50 | 46 | 72 | 5 20 | 82 | 52 | 11 0 | 30 |
| 11 | 51°5 | 14 4 | 63°2 | 42°6 | 8 10 | 20°6 | 556 | 14 3 | 620 | 516 | 14 58 | 104 | 63 | 5 20 | 78 | 24 | 12 40 | 54 |
| 12 | 52°5 | 14 57 | 61°2 | 45°4 | 6 4 | 15°8 | 550 | 14 59 | 628 | 526 | 8 33 | 100 | 68 | 17 30 | 98 | 39 | 12 5 | 57 |
| 13 * | 52°2 | 13 30 | 59°0 | 45°3 | 6 20 | 13°7 | 534 | 21 45 | 570 | 501 | 11 15 | 69 | 68 | 18 20 | 87 | 43 | 12 50 | 44 |
| 14 | 52°6 | 13 28 | 60°0 | 43°6 | 23 32 | 16°4 | 538 | 8 3 | 582 | 437 | 12 29 | 145 | 79 | 17 25 | 122 | 53 | 10 5 | 69 |
| 15 | 51°1 | 14 3 | 58°7 | 42°0 | 6 14 | 16°7 | 529 | 18 55 | 572 | 499 | 11 49 | 73 | 70 | 17 15 | 82 | 41 | 11 50 | 41 |
| 16 | 51°3 | 13 18 | 60°4 | 40°2 | 6 30 | 20°2 | 544 | 17 50 | 651 | 490 | 9 45 | 161 | 68 | 19 25 | 102 | 38 | 11 2 | 64 |
| 17 | 50°6 | 13 24 | 60°4 | 40°6 | 2 5 | 19°8 | 530 | 21 41 | 584 | 438 | 7 53 | 146 | 63 | 18 25 | 87 | 35 | 11 20 | 52 |
| 18 | 50°9 | 15 24 | 59°5 | 43°0 | 8 30 | 16°5 | 534 | 18 21 | 571 | 500 | 10 50 | 71 | 68 | 18 18 | 95 | 51 | 1 54 | 44 |
| 19 | 52°2 | 13 58 | 61°6 | 43°0 | 22 45 | 18°6 | 542 | 22 5 | 631 | 506 | 11 16 | 125 | 70 | 17 24 | 90 | 48 | 12 57 | 42 |
| 20 ** | 51°8 | 14 14 | 66°7 | 40°7 | 4 27 | 26°0 | 522 | 0 40 | 606 | 429 | 14 32 | 177 | 72 | 17 18 | 133 | 26 | 0 59 | 107 |
| 21 ** | 52°6 | 13 32 | 72°7 | 45°2 | 7 10 | 27°5 | 514 | 13 31 | 633 | 386 | 13 54 | 247 | 84 | 17 20 | 123 | 47 | 11 15 | 76 |
| 22 | 52°3 | 12 10 | 59°2 | 46°8 | 8 45 | 12°4 | 526 | 23 48 | 571 | 467 | 13 10 | 104 | 72 | 19 36 | 91 | 51 | 11 30 | 40 |
| 23 | 50°5 | 13 30 | 58°7 | 43°8 | 5 30 | 12°9 | 527 | 17 15 | 577 | 489 | 11 35 | 68 | 73 | 20 8 | 84 | 59 | 0 58 | 25 |
| 24 | 51°8 | 12 45 | 60°7 | 44°5 | 6 12 | 16°2 | 538 | 21 8 | 579 | 499 | 13 24 | 80 | 72 | 20 10 | 82 | 51 | 10 55 | 31 |
| 25 | 51°4 | 12 50 | 58°4 | 46°8 | 5 12 | 9°6 | 534 | 1 29 | 570 | 491 | 13 10 | 79 | 76 | 17 5 | 92 | 60 | 13 0 | 32 |
| 26 | 54°1 | 12 28 | 62°3 | 44°5 | 4 24 | 17°8 | 534 | 15 49 | 595 | 449 | 8 30 | 146 | 75 | 18 1 | 110 | 29 | 7 20 | 81 |
| 27 | 50°6 | 13 35 | 58°1 | 43°0 | 22 13 | 13°1 | 530 | 17 50 | 571 | 507 | 13 40 | 64 | 75 | 17 45 | 95 | 53 | 11 50 | 42 |
| 28 | 51°6 | 13 10 | 57°9 | 45°6 | 5 24 | 12°3 | 533 | 17 52 | 566 | 497 | 10 55 | 69 | 75 | 17 50 | 97 | 45 | 10 55 | 52 |
| 29 | 50°5 | 13 40 | 58°3 | 43°7 | 7 30 | 14°6 | 534 | 17 50 | 580 | 494 | 9 10 | 68 | 74 | 15 30 | 86 | 50 | 11 35 | 36 |
| 30 * | 52°0 | 13 50 | 59°4 | 45°2 | 6 45 | 14°2 | 540 | 17 52 | 580 | 518 | 9 10 | 42 | 73 | 17 43 | 88 | 55 | 12 5 | 33 |
| 31 | 51°3 | 13 30 | 58°7 | 46°2 | 6 36 | 12°5 | 539 | 20 20 | 568 | 500 | 11 30 | 68 | 74 | 16 45 | 83 | 51 | 12 10 | 32 |
| Mean | 52°0 | - | 60°9 | 44°0 | - | 16°9 | 534 | - | 588 | 481 | - | 106°8 | 73 | - | 101 | 44 | - | 56°4 |
| Mean * | 52°1 | - | 58°7 | 45°1 | - | 13°6 | 536 | - | 562 | 508 | - | 54°4 | 72 | - | 86 | 53 | - | 33°0 |
| Mean ** | 53°4 | - | 69°5 | 43°0 | - | 26°6 | 525 | - | 638 | 425 | - | 213°4 | 81 | - | 149 | 29 | - | 120°4 |
| August | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | h m | h m | h m | h m | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 51°5 | 13 3 | 60°7 | 46°3 | 7 40 | 14°4 | 540 | 18 30 | 566 | 504 | 9 32 | 62 | 72 | 16 35 | 83 | 54 | 12 25 | 29 |
| 2 * | 51°4 | 14 0 | 59°5 | 45°4 | 7 45 | 14°1 | 539 | 18 50 | 580 | 515 | 11 12 | 45 | 70 | 18 20 | 80 | 46 | 12 0 | 34 |
| 3 * | 51°2 | 13 24 | 57°4 | 45°7 | 7 5 | 11°7 | 542 | 22 20 | 562 | 507 | 10 20 | 55 | 72 | 16 30 | 82 | 59 | 9 55 | 23 |
| 4 | 51°3 | 13 48 | 58°2 | 45°6 | 6 36 | 12°6 | 549 | 17 30 | 572 | 512 | 10 30 | 60 | 71 | 17 20 | 81 | 55 | 10 55 | 26 |
| 5 * | 51°0 | 13 55 | 58°8 | 44°0 | 7 10 | 14°8 | 552 | 21 0 | 580 | 518 | 10 50 | 62 | 67 | 17 30 | 75 | 48 | 12 25 | 27 |
| 6 * | 51°5 | 13 20 | 60°4 | 43°1 | 7 40 | 17°3 | 551 | 20 10 | 571 | 517 | 10 48 | 54 | 63 | 17 45 | 74 | 40 | 12 10 | 34 |
| 7 * | 51°7 | 14 12 | 61°2 | 45°2 | 6 35 | 16°0 | 548 | 19 30 | 587 | 515 | 11 15 | 52 | 64 | 18 25 | 71 | 42 | 13 10 | 29 |
| 8 | 51°6 | 13 10 | 59°4 | 45°1 | 7 43 | 14°3 | 553 | 19 25 | 592 | 528 | 11 40 | 64 | 60 | 20 40 | 74 | 33 | 12 50 | 41 |
| 9 | 51°6 | 12 50 | 57°8 | 45°2 | 6 50 | 12°6 | 549 | 19 45 | 575 | 512 | 10 40 | 63 | 66 | 18 40 | 75 | 49 | 11 5 | 28 |
| 10 | 52°1 | 15 6 | 60°5 | 44°6 | 7 50 | 15°9 | 549 | 18 34 | 590 | 490 | 9 50 | 100 | 71 | 18 35 | 107 | 44 | 12 58 | 63 |
| 11 | 51°6 | 13 25 | 58°4 | 42°6 | 7 10 | 15°8 | 542 | 22 6 | 625 | 508 | 9 15 | 117 | 67 | 22 10 | 79 | 47 | 11 55 | 32 |
| 12 ** | 49°1 | 13 45 | 60°0 | 32°0 | 3 36 | 28°0 | 494 | 1 39 | 640 | 336 | 9 25 | 304 | 75 | 15 5 | 134 | -30 | 4 46 | 164 |
| 13 ** | 49°8 | 13 53 | 59°8 | 39°1 | 6 55 | 20°7 | 503 | 16 38 | 571 | 445 | 8 30 | 126 | 76 | 16 40 | 119 | 24 | 1 16 | 95 |
| 14 | 50°9 | 13 50 | 57°4 | 42°7 | 7 30 | 14°7 | 508 | 21 12 | 532 | 474 | 11 27 | 58 | 77 | 15 35 | 90 | 64 | 10 0 | 26 |
| 15 | 51°7 | 13 20 | 62°1 | 45°0 | 6 50 | 17°1 | 526 | 20 0 | 584 | 497 | 8 20 | 57 | 76 | 17 20 | 86 | 52 | 12 0 | 34 |
| 16 ** | 52°8 | 15 47 | 68°5 | 45°5 | 6 5 | 23°0 | 524 | 15 36 | 740 | 394 | 16 35 | 346 | 90 | 15 34 | 216 | 47 | 23 16 | 169 |
| 17 | 49°7 | 12 10 | 61°3 | 34°3 | 2 35 | 27°0 | 507 | 1 41 | 560 | 451 | 8 56 | 109 | 74 | 16 20 | 107 | 31 | 2 35 | 76 |
| 18 | 51°3 | 13 15 | 63°6 | 44°1 | 7 50 | 19°5 | 519 | 22 3 | 565 | 467 | 10 17 | 98 | 83 | 17 20 | 106 | 63 | 11 55 | 43 |
| 19 | 51°6 | 15 5 | 63°8 | 42°4 | 7 25 | 21°4 | 531 | 15 7 | 588 | 487 | 10 25 | 101 | 80 | 16 20 | 113 | 50 | 11 30 | 63 |
| 20 | 50°7 | 12 20 | 57°7 | 42°8 | 7 5 | 14°9 | 536 | 19 40 | 577 | 493 | 8 59 | 84 | 76 | 19 40 | 88 | 57 | 11 5 | 31 |
| 21 | 50°8 | 12 55 | 58°4 | 43°6 | 6 55 | 14°8 | 544 | 21 26 | 602 | 511 | 8 55 | 91 | 69 | 21 25 | 88 | 44 | 12 10 | 44 |
| 22 ** | 47°7 | 16 15 | 68°5 | 21°3 | 3 33 | 47°2 | 494 | 0 41 | 627 | 363 | 23 30 | 264 | 87 | 17 23 | 271 | -88 | 3 22 | 359 |
| 23 ** | 48°6 | 5 28 | 62°8 | 29°8 | 1 21 | 33°0 | 461 | 19 50 | 537 | 327 | 10 0 | 210 | 69 | 14 43 | 147 | -52 | 0 42 | 199 |
| 24 | 49°6 | 12 55 | 58°3 | 43°8 | 6 20 | 14°5 | 505 | 24 0 | 538 | 466 | 13 53 | 72 | 87 | 16 46 | 108 | 63 | 0 38 | 45 |
| 25 | 50°1 | 12 50 | 58°9 | 44°7 | 6 30 | 14°2 | 517 | 0 12 | 550 | 487 | 14 25 | 63 | 85 | 18 10 | 101 | 72 | 10 50 | 29 |
| 26 | 49°3 | 12 35 | 56°3 | 43°7 | 6 45 | 12°6 | 521 | 21 45 | 542 | 496 | 9 8 | 46 | 86 | 16 10 | 97 | 69 | 11 50 | 28 |
| 27 | 49°7 | 12 35 | 58°8 | 42°6 | 6 45 | 16°0 | 522 | 21 20 | 552 | 492 | 10 30 | 60 | 84 | 15 50 | 104 | 60 | 11 0 | 44 |
| 28 | 50°2 | 12 30 | 58°5 | 43°0 | 6 | | | | | | | | | | | | | |

TABLE IV. - DAILY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|------------------|------------------|-------------|------|---------|-------------|-------|----------------------|-------------|-------------|-------------|-------------|-------|--------------------|-------------|-------------|-------------|-------------|-------|
| | Mean Daily Value | Maximum | | Minimum | | Range | Mean Daily Value | Maximum | | Minimum | | Range | Mean Daily Value | Maximum | | Minimum | | Range |
| September | 10°+ | U.T. h m | 10°+ | 10°+ | U.T. h m | | 18000 Y+ | U.T. h m | 18000 Y+ | 18000 Y+ | U.T. h m | Y | 43000 Y+ | U.T. h m | 43000 Y+ | 43000 Y+ | U.T. h m | Y |
| 1 * | 50°5 | 14 5 | 59°8 | 43°8 | 8 25 | 16°0 | 536 | 19 10 | 556 | 502 | 10 40 | 54 | 75 | 15 45 | 87 | 57 | 12 40 | 30 |
| 2 | 50°8 | 13 30 | 61°0 | 42°7 | 7 40 | 18°3 | 546 | 21 45 | 630 | 517 | 9 50 | 113 | 75 | 21 45 | 95 | 54 | 11 2 | 41 |
| 3 ** | 47°5 | 14 5 | 59°0 | 32°7 | 3 35 | 26°3 | 524 | 2 54 | 613 | 441 | 11 4 | 172 | 72 | 21 45 | 95 | 29 | 3 20 | 66 |
| 4 | 49°6 | 13 55 | 57°9 | 40°6 | 2 31 | 17°3 | 522 | 20 23 | 548 | 474 | 11 10 | 72 | 75 | 17 0 | 86 | 48 | 11 2 | 38 |
| 5 * | 50°2 | 12 50 | 57°0 | 44°3 | 24 0 | 12°7 | 533 | 23 10 | 568 | 492 | 10 50 | 76 | 80 | 19 40 | 90 | 58 | 11 25 | 32 |
| 6 | 50°2 | 12 30 | 58°8 | 43°1 | 0 20 | 15°7 | 538 | 23 45 | 573 | 512 | 11 10 | 61 | 79 | 16 30 | 90 | 56 | 12 0 | 34 |
| 7 | 50°4 | 12 40 | 59°9 | 42°3 | 7 40 | 17°6 | 534 | 0 0 | 564 | 499 | 10 35 | 65 | 78 | 17 0 | 89 | 53 | 10 55 | 36 |
| 8 | 51°1 | 13 5 | 58°9 | 43°7 | 7 10 | 15°2 | 540 | 23 30 | 574 | 482 | 11 44 | 92 | 75 | 17 25 | 86 | 47 | 11 45 | 39 |
| 9 ** | 50°2 | 12 55 | 62°2 | 39°0 | 6 10 | 23°2 | 530 | 1 15 | 579 | 485 | 11 30 | 94 | 82 | 15 20 | 105 | 63 | 11 0 | 42 |
| 10 | 50°4 | 13 40 | 60°6 | 41°9 | 19 50 | 18°7 | 527 | 20 10 | 553 | 491 | 9 26 | 62 | 79 | 20 8 | 97 | 60 | 3 40 | 37 |
| 11 | 49°9 | 12 55 | 59°4 | 44°1 | 6 10 | 15°3 | 523 | 1 51 | 548 | 483 | 10 35 | 65 | 80 | 0 32 | 88 | 68 | 12 10 | 20 |
| 12 | 49°7 | 12 33 | 59°5 | 42°8 | 7 40 | 16°7 | 527 | 21 20 | 560 | 487 | 8 18 | 73 | 78 | 0 50 | 84 | 67 | 11 10 | 17 |
| 13 | 49°6 | 12 10 | 59°0 | 43°7 | 7 50 | 15°3 | 531 | 22 45 | 575 | 492 | 9 32 | 83 | 76 | 15 40 | 86 | 61 | 11 10 | 25 |
| 14 | 50°2 | 13 12 | 61°8 | 40°8 | 7 40 | 21°0 | 528 | 3 26 | 575 | 486 | 10 5 | 69 | 76 | 18 45 | 89 | 57 | 10 40 | 32 |
| 15 | 49°7 | 12 20 | 57°2 | 40°9 | 23 36 | 16°3 | 533 | 17 45 | 569 | 499 | 11 29 | 60 | 71 | 0 33 | 80 | 58 | 11 20 | 24 |
| 16 | 49°7 | 13 25 | 59°0 | 44°4 | 8 15 | 14°6 | 537 | 19 20 | 567 | 504 | 10 10 | 63 | 73 | 16 45 | 82 | 50 | 11 10 | 32 |
| 17 ** | 49°7 | 16 18 | 66°5 | 27°9 | 19 22 | 38°6 | 509 | 16 5 | 566 | 430 | 19 20 | 136 | 92 | 18 0 | 198 | 53 | 10 55 | 145 |
| 18 | 48°7 | 13 40 | 55°7 | 43°1 | 7 28 | 12°6 | 501 | 23 35 | 529 | 462 | 10 10 | 87 | 90 | 0 1 | 113 | 69 | 12 55 | 44 |
| 19 ** | 50°7 | 14 20 | 60°0 | 34°7 | 23 50 | 25°3 | 505 | 6 10 | 554 | 434 | 10 31 | 120 | 96 | 17 10 | 152 | 68 | 10 5 | 84 |
| 20 ** | 48°7 | 12 55 | 58°6 | 33°1 | 1 44 | 23°5 | 506 | 1 50 | 590 | 446 | 9 40 | 144 | 81 | 17 23 | 126 | 38 | 4 12 | 88 |
| 21 | 49°9 | 12 40 | 59°0 | 44°7 | 20 10 | 14°3 | 521 | 20 25 | 562 | 479 | 10 22 | 83 | 82 | 20 20 | 93 | 68 | 12 50 | 25 |
| 22 | 50°1 | 12 40 | 58°1 | 43°7 | 23 1 | 14°4 | 524 | 21 45 | 577 | 483 | 11 18 | 94 | 79 | 17 55 | 98 | 60 | 12 5 | 38 |
| 23 | 48°9 | 14 0 | 54°5 | 44°2 | 8 20 | 10°3 | 527 | 21 9 | 557 | 499 | 12 0 | 58 | 75 | 6 45 | 85 | 55 | 11 45 | 30 |
| 24 * | 49°3 | 12 35 | 59°0 | 42°6 | 3 41 | 16°4 | 528 | 6 42 | 556 | 491 | 11 5 | 65 | 76 | 16 0 | 86 | 55 | 11 5 | 31 |
| 25 | 49°8 | 12 52 | 57°5 | 42°6 | 8 50 | 14°9 | 534 | 21 40 | 558 | 498 | 11 45 | 60 | 75 | 18 3 | 95 | 46 | 11 5 | 49 |
| 26 | 48°1 | 13 40 | 58°8 | 32°1 | 3 10 | 26°7 | 521 | 19 35 | 583 | 481 | 9 39 | 102 | 76 | 19 20 | 99 | 57 | 4 12 | 42 |
| 27 | 48°9 | 13 25 | 56°4 | 42°6 | 7 45 | 13°8 | 526 | 20 17 | 571 | 493 | 10 30 | 78 | 75 | 17 40 | 87 | 56 | 12 10 | 31 |
| 28 * | 49°4 | 12 45 | 55°4 | 43°2 | 6 45 | 12°2 | 532 | 0 55 | 550 | 511 | 10 38 | 39 | 74 | 7 50 | 82 | 56 | 10 55 | 26 |
| 29 * | 49°8 | 13 50 | 57°9 | 42°4 | 8 0 | 15°5 | 539 | 16 30 | 558 | 507 | 10 25 | 51 | 71 | 6 40 | 81 | 52 | 12 5 | 29 |
| 30 | 49°1 | 13 10 | 60°5 | 40°4 | 23 35 | 20°1 | 529 | 6 5 | 552 | 499 | 19 33 | 53 | 81 | 20 20 | 111 | 53 | 11 45 | 58 |
| Mean | 49°7 | - | 58°9 | 40°9 | - | 18°6 | 527 | - | 566 | 485 | - | 80°8 | 78 | - | 98 | 56 | - | 42°2 |
| Mean * | 49°8 | - | 57°8 | 43°3 | - | 14°6 | 534 | - | 558 | 501 | - | 57°0 | 75 | - | 85 | 56 | - | 29°6 |
| Mean ** | 49°4 | - | 60°9 | 33°5 | - | 27°4 | 515 | - | 580 | 447 | - | 133°2 | 85 | - | 135 | 50 | - | 85°0 |
| October | 10°+ | U.T. h m | 10°+ | 10°+ | U.T. h m | | 18000 Y+ | U.T. h m | 18000 Y+ | 18000 Y+ | U.T. h m | Y | 43000 Y+ | U.T. h m | 43000 Y+ | 43000 Y+ | U.T. h m | Y |
| 1 | 48°5 | 14 32 | 56°4 | 41°7 | 2 25 | 14°7 | 532 | 17 55 | 566 | 505 | 10 12 | 61 | 75 | 0 5 | 95 | 55 | 11 10 | 40 |
| 2 | 49°5 | 14 30 | 56°1 | 42°2 | 8 3 | 13°9 | 539 | 21 55 | 566 | 499 | 10 52 | 67 | 73 | 7 45 | 84 | 54 | 13 45 | 30 |
| 3 ** | 49°8 | 13 39 | 65°6 | 36°8 | 19 28 | 28°8 | 504 | 1 45 | 562 | 426 | 22 4 | 136 | 84 | 19 35 | 162 | 48 | 22 12 | 114 |
| 4 ** | 46°5 | 14 50 | 56°6 | 28°2 | 3 8 | 28°4 | 485 | 1 3 | 520 | 401 | 2 42 | 119 | 81 | 14 20 | 118 | -38 | 3 7 | 156 |
| 5 | 48°9 | 12 50 | 57°6 | 31°8 | 19 32 | 25°8 | 504 | 19 54 | 575 | 441 | 10 20 | 134 | 91 | 19 50 | 109 | 78 | 11 0 | 31 |
| 6 | 47°8 | 5 28 | 58°1 | 36°9 | 1 15 | 21°2 | 511 | 3 42 | 574 | 463 | 5 21 | 111 | 79 | 17 25 | 113 | 19 | 5 0 | 94 |
| 7 | 48°0 | 12 35 | 57°8 | 34°6 | 19 55 | 23°2 | 515 | 22 37 | 567 | 482 | 18 26 | 85 | 90 | 19 0 | 123 | 71 | 11 0 | 52 |
| 8 | 49°3 | 13 45 | 54°7 | 43°7 | 8 20 | 11°0 | 521 | 16 34 | 567 | 503 | 9 50 | 64 | 87 | 7 40 | 98 | 74 | 3 12 | 24 |
| 9 | 49°5 | 14 0 | 62°4 | 38°0 | 2 25 | 24°4 | 506 | 1 27 | 555 | 382 | 7 38 | 173 | 93 | 19 40 | 114 | 73 | 11 5 | 41 |
| 10 | 48°9 | 12 49 | 56°7 | 43°7 | 8 20 | 13°0 | 517 | 22 50 | 561 | 476 | 10 42 | 85 | 86 | 7 45 | 93 | 74 | 11 5 | 19 |
| 11 | 48°7 | 13 34 | 58°3 | 41°2 | 23 12 | 17°1 | 531 | 19 47 | 568 | 489 | 10 42 | 99 | 80 | 19 48 | 94 | 70 | 11 0 | 24 |
| 12 * | 49°1 | 13 0 | 55°4 | 42°6 | 8 35 | 12°8 | 526 | 23 33 | 548 | 490 | 11 35 | 58 | 81 | 7 30 | 89 | -7 | 11 5 | 17 |
| 13 ** | 45°2 | 16 40 | 62°6 | 10°4 | 23 26 | 52°2 | 502 | 2 24 | 597 | 305 | 22 40 | 292 | 91 | 20 35 | 217 | -6 | 22 52 | 223 |
| 14 ** | 47°0 | 12 31 | 60°1 | 25°6 | 17 4 | 34°5 | 469 | 20 41 | 591 | 375 | 9 37 | 216 | 91 | 17 1 | 161 | 38 | 3 54 | 123 |
| 15 ** | 46°2 | 4 44 | 61°1 | 27°8 | 17 42 | 33°3 | 485 | 2 45 | 620 | 399 | 4 30 | 221 | 78 | 15 40 | 128 | -30 | 4 5 | 158 |
| 16 | 49°0 | 15 1 | 59°3 | 34°1 | 16 58 | 25°2 | 494 | 17 5 | 597 | 432 | 11 15 | 165 | 101 | 17 3 | 167 | 68 | 23 12 | 99 |
| 17 | 48°9 | 3 12 | 57°7 | 34°1 | 18 37 | 23°6 | 501 | 18 2 | 569 | 435 | 11 10 | 134 | 102 | 18 4 | 158 | 79 | 3 49 | 79 |
| 18 | 50°1 | 13 40 | 57°9 | 38°4 | 20 27 | 19°5 | 503 | 20 30 | 588 | 447 | 15 18 | 141 | 102 | 15 40 | 147 | 73 | 3 30 | 74 |
| 19 | 49°1 | 14 40 | 59°1 | 40°6 | 19 20 | 18°5 | 498 | 0 2 | 574 | 429 | 10 10 | 145 | 99 | 18 55 | 131 | 68 | 1 10 | 63 |
| 20 * | 49°1 | 12 55 | 54°2 | 44°5 | 7 15 | 9°7 | 516 | 22 12 | 538 | 468 | 10 50 | 70 | 93 | 7 25 | 104 | 80 | 12 50 | 24 |
| 21 | 49°0 | 12 50 | 58°1 | 39°0 | 23 5 | 19°1 | 522 | 23 15 | 565 | 485 | 10 52 | 80 | 91 | 19 50 | 110 | 71 | 10 50 | 39 |
| 22 | 48°0 | 14 0 | 54°5 | 41°4 | 20 25 | 13°1 | 524 | 21 0 | 542 | 496 | 11 15 | 46 | 88 | 20 50 | 102 | 74 | 13 5 | 28 |
| 23 | 48°9 | 12 50 | 56°1 | 41°9 | 16 28 | 14°2 | 516 | 7 8 | 547 | 461 | 13 20 | 86 | 97 | 16 35 | 127 | 81 | 10 25 | 46 |
| 24 | 47°9 | 13 50 | 53°0 | 42°3 | 8 55 | 10°7 | 520 | 0 31 | 552 | 489 | 9 50 | 63 | 87 | 0 10 | 95 | 74 | 12 40 | 21 |
| 25 * | 48°8 | 13 32 | 57°1 | 43°5 | 9 0 | 13°6 | 526 | 0 4 | 545 | 484 | 11 50 | 61 | 89 | 15 20 | 97 | 86 | 10 45 | 11 |
| 26 | 48°9 | 12 50 | 55°6 | 43°4 | 8 25 | 12°2 | 531 | 20 50 | 551 | 495 | 10 56 | 56 | 84 | 20 45 | 94 | 71 | 11 20 | 23 |
| 27 * | 49°2 | 13 34 | 55°3 | 44°4 | 8 55 | 10°9 | 536 | 17 25 | 555 | 506 | 10 58 | 49 | 82 | 15 40 | 88 | 69 | 12 0 | 19 |
| 28 | 49°4 | 12 0 | 56°7 | 43°7 | 23 45 | 13°0 | 534 | 23 32 | 564 | 491 | 12 12 | 73 | 84 | 23 15 | 97 | 66 | 10 40 | 31 |
| 29 | 47°9 | 13 22 | 54°9 | 41°0 | 20 35 | 13°9 | 528 | 3 10 | 565 | 494 | 11 20 | 71 | 85 | 19 30 | 96 | 74 | 10 50 | 22 |
| 30 | 48°7 | 14 40 | 55°6 | 44°5 | 8 55 | 11°1 | 524 | 1 2 | 572 | 493 | | | | | | | | |

TABLE IV. - DAILY MEAN AND EXTREME VALUES OF MAGNETIC ELEMENTS AS RECORDED BY THE MAGNETOGRAPHS

| Date | DECLINATION WEST | | | | | | HORIZONTAL INTENSITY | | | | | | VERTICAL INTENSITY | | | | | |
|----------|------------------|---------|---------|-------|------------------|---------|----------------------|-------|------------------|---------|---------|-------|--------------------|---------|---------|-------|-------|------|
| | Mean Daily Value | Maximum | Minimum | Range | Mean Daily Value | Maximum | Minimum | Range | Mean Daily Value | Maximum | Minimum | Range | Mean Daily Value | Maximum | Minimum | Range | | |
| November | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | h m | h m | h m | h m | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 49°2 | 12 58 | 56°2 | 44°7 | 19 20 | 11°5 | 527 | 5 20 | 549 | 489 | 11 58 | 60 | 87 | 19 30 | 100 | 75 | 10 30 | 25 |
| 2 | 48°8 | 13 25 | 53°3 | 45°0 | 9 2 | 8°3 | 532 | 5 14 | 559 | 501 | 11 57 | 58 | 84 | 15 40 | 90 | 77 | 12 55 | 13 |
| 3 | 49°1 | 13 9 | 55°1 | 43°0 | 23 5 | 12°1 | 536 | 22 15 | 557 | 500 | 12 15 | 57 | 83 | 18 30 | 93 | 71 | 12 0 | 22 |
| 4 | 48°4 | 12 50 | 52°8 | 43°0 | 0 1 | 9°8 | 538 | 8 5 | 554 | 519 | 11 20 | 35 | 82 | 19 30 | 87 | 70 | 13 0 | 17 |
| 5 | 48°6 | 12 50 | 53°4 | 45°7 | 9 15 | 7°7 | 534 | 17 40 | 546 | 510 | 10 20 | 36 | 85 | 19 30 | 91 | 80 | 11 25 | 11 |
| 6 | 48°6 | 13 48 | 52°4 | 43°7 | 21 40 | 8°7 | 538 | 23 45 | 563 | 523 | 20 45 | 40 | 83 | 21 20 | 95 | 77 | 11 30 | 18 |
| 7 | 48°3 | 13 55 | 53°6 | 43°4 | 0 20 | 10°2 | 532 | 21 45 | 550 | 508 | 16 20 | 44 | 82 | 17 40 | 93 | 74 | 12 50 | 19 |
| 8 * | 48°9 | 13 0 | 53°1 | 45°8 | 8 40 | 7°3 | 537 | 19 20 | 554 | 515 | 13 20 | 39 | 82 | 13 55 | 87 | 78 | 11 40 | 9 |
| 9 | 48°8 | 13 30 | 52°5 | 44°8 | 9 7 | 7°7 | 537 | 21 55 | 549 | 519 | 11 30 | 30 | 82 | 15 35 | 90 | 72 | 10 50 | 18 |
| 10 * | 48°8 | 12 48 | 52°8 | 45°8 | 8 35 | 7°0 | 536 | 4 50 | 551 | 524 | 9 40 | 27 | 84 | 20 20 | 90 | 77 | 10 25 | 13 |
| 11 | 48°8 | 13 5 | 53°2 | 42°9 | 23 50 | 10°3 | 539 | 20 20 | 551 | 519 | 22 8 | 32 | 82 | 19 25 | 90 | 73 | 11 5 | 17 |
| 12 ** | 49°0 | 14 13 | 56°1 | 38°5 | 0 35 | 17°6 | 530 | 6 55 | 551 | 501 | 15 35 | 50 | 85 | 17 0 | 95 | 74 | 10 0 | 21 |
| 13 ** | 47°9 | 11 40 | 56°4 | 29°8 | 20 46 | 26°6 | 510 | 4 5 | 607 | 454 | 14 0 | 153 | 95 | 14 30 | 144 | 57 | 4 30 | 87 |
| 14 ** | 47°1 | 1 15 | 57°8 | 37°4 | 22 31 | 20°4 | 514 | 1 15 | 565 | 479 | 10 45 | 86 | 89 | 16 10 | 112 | 58 | 1 50 | 54 |
| 15 | 48°2 | 13 35 | 52°8 | 42°5 | 0 53 | 10°3 | 523 | 20 10 | 546 | 497 | 13 8 | 49 | 89 | 16 20 | 105 | 74 | 0 45 | 31 |
| 16 | 48°5 | 13 25 | 51°3 | 45°6 | 17 45 | 5°7 | 529 | 21 55 | 541 | 507 | 12 25 | 34 | 89 | 19 40 | 100 | 84 | 10 55 | 16 |
| 17 | 49°2 | 13 50 | 52°7 | 46°1 | 19 40 | 6°8 | 537 | 17 40 | 555 | 520 | 12 17 | 35 | 86 | 19 50 | 95 | 77 | 11 10 | 18 |
| 18 * | 49°2 | 13 30 | 52°7 | 45°2 | 9 35 | 7°5 | 538 | 17 15 | 554 | 512 | 11 30 | 42 | 86 | 7 10 | 94 | 79 | 10 55 | 15 |
| 19 | 49°0 | 17 2 | 54°3 | 45°0 | 23 58 | 9°3 | 536 | 6 33 | 554 | 497 | 17 32 | 57 | 86 | 18 30 | 106 | 77 | 11 10 | 29 |
| 20 | 48°1 | 12 40 | 50°9 | 44°3 | 1 33 | 6°8 | 530 | 5 45 | 551 | 517 | 10 40 | 34 | 88 | 15 20 | 98 | 80 | 10 50 | 18 |
| 21 | 48°2 | 12 45 | 53°1 | 45°9 | 2 20 | 7°2 | 535 | 18 0 | 549 | 514 | 11 40 | 35 | 88 | 16 20 | 95 | 83 | 3 50 | 12 |
| 22 * | 48°5 | 12 50 | 52°4 | 46°0 | 22 45 | 6°4 | 541 | 18 35 | 555 | 521 | 11 40 | 34 | 85 | 9 0 | 90 | 82 | 17 5 | 8 |
| 23 * | 48°5 | 12 30 | 52°9 | 45°6 | 8 40 | 7°3 | 546 | 17 10 | 558 | 531 | 10 0 | 27 | 82 | 14 30 | 89 | 77 | 10 0 | 12 |
| 24 | 48°5 | 13 55 | 55°5 | 36°6 | 22 21 | 18°9 | 540 | 18 10 | 563 | 499 | 22 55 | 64 | 84 | 21 35 | 99 | 77 | 10 10 | 22 |
| 25 ** | 48°3 | 13 50 | 57°9 | 34°5 | 21 25 | 23°4 | 513 | 5 20 | 558 | 429 | 21 30 | 129 | 90 | 21 45 | 119 | 64 | 6 55 | 55 |
| 26 ** | 48°1 | 13 0 | 53°4 | 35°8 | 20 19 | 17°6 | 520 | 1 48 | 554 | 488 | 10 52 | 66 | 88 | 15 15 | 101 | 70 | 2 14 | 31 |
| 27 | 48°2 | 4 15 | 53°9 | 44°2 | 8 53 | 9°7 | 529 | 4 30 | 545 | 500 | 11 20 | 45 | 87 | 16 30 | 97 | 76 | 4 42 | 21 |
| 28 | 48°3 | 12 55 | 52°7 | 45°3 | 8 55 | 7°4 | 529 | 5 20 | 554 | 504 | 11 25 | 50 | 87 | 14 15 | 95 | 79 | 11 20 | 16 |
| 29 | 48°3 | 12 35 | 53°7 | 40°9 | 21 40 | 12°8 | 531 | 21 55 | 555 | 508 | 15 10 | 49 | 87 | 15 25 | 99 | 79 | 11 35 | 20 |
| 30 | 48°3 | 13 50 | 52°4 | 43°6 | 23 10 | 8°8 | 534 | 6 20 | 551 | 516 | 11 15 | 35 | 86 | 20 30 | 98 | 77 | 10 35 | 19 |
| Mean | 48°5 | - | 53°7 | 42°7 | - | 11°0 | 532 | - | 555 | 504 | - | 51°1 | 86 | - | 98 | 75 | - | 22°9 |
| Mean * | 48°8 | - | 52°8 | 45°7 | - | 7°1 | 540 | - | 554 | 521 | - | 33°8 | 84 | - | 90 | 79 | - | 11°4 |
| Mean ** | 48°1 | - | 56°3 | 35°2 | - | 21°1 | 517 | - | 567 | 470 | - | 96°8 | 89 | - | 114 | 65 | - | 49°6 |
| December | 10°+ | U.T. | 10°+ | 10°+ | U.T. | | 18000 | U.T. | 18000 | 18000 | U.T. | Y | 43000 | U.T. | 43000 | 43000 | U.T. | Y |
| | h m | h m | h m | h m | h m | | Y + | h m | Y + | Y + | h m | Y | Y + | h m | Y + | Y + | h m | Y |
| 1 | 48°2 | 13 5 | 52°4 | 45°1 | 1 7 | 7°3 | 537 | 6 25 | 567 | 503 | 11 40 | 64 | 83 | 20 20 | 93 | 72 | 11 40 | 21 |
| 2 | 48°2 | 13 40 | 52°2 | 43°0 | 21 39 | 9°2 | 539 | 19 7 | 554 | 520 | 20 55 | 34 | 84 | 20 40 | 95 | 73 | 11 5 | 22 |
| 3 | 48°2 | 13 20 | 52°0 | 39°5 | 22 20 | 12°5 | 540 | 6 50 | 555 | 512 | 22 20 | 43 | 83 | 22 48 | 94 | 73 | 11 0 | 21 |
| 4 | 47°2 | 13 30 | 50°9 | 40°8 | 1 5 | 10°1 | 537 | 20 20 | 551 | 514 | 1 20 | 37 | 85 | 16 35 | 90 | 80 | 12 35 | 10 |
| 5 | 48°6 | 16 47 | 58°8 | 37°6 | 23 48 | 21°2 | 528 | 8 10 | 551 | 483 | 19 42 | 68 | 92 | 20 55 | 118 | 80 | 1 25 | 38 |
| 6 ** | 46°4 | 12 42 | 54°1 | 27°3 | 20 52 | 26°8 | 527 | 20 9 | 573 | 456 | 22 50 | 117 | 91 | 20 52 | 116 | 83 | 11 5 | 33 |
| 7 ** | 46°2 | 3 42 | 59°9 | 33°1 | 22 38 | 26°8 | 504 | 22 56 | 575 | 434 | 14 35 | 141 | 97 | 18 59 | 152 | 41 | 4 8 | 111 |
| 8 ** | 48°1 | 6 50 | 57°7 | 31°7 | 16 5 | 26°0 | 513 | 23 58 | 566 | 455 | 15 50 | 111 | 98 | 16 25 | 132 | 66 | 3 42 | 64 |
| 9 | 47°7 | 0 9 | 54°3 | 34°9 | 18 22 | 19°4 | 522 | 18 48 | 554 | 464 | 13 25 | 90 | 93 | 13 45 | 111 | 68 | 0 27 | 43 |
| 10 | 47°4 | 12 12 | 51°8 | 41°3 | 21 35 | 10°5 | 529 | 21 50 | 552 | 507 | 14 10 | 45 | 92 | 15 50 | 105 | 86 | 11 5 | 19 |
| 11 | 47°9 | 12 45 | 51°9 | 44°4 | 21 15 | 7°5 | 532 | 6 40 | 549 | 510 | 11 40 | 39 | 90 | 16 20 | 102 | 81 | 10 0 | 21 |
| 12 | 47°6 | 2 36 | 51°4 | 35°5 | 22 16 | 15°9 | 536 | 22 20 | 551 | 517 | 17 58 | 34 | 89 | 18 20 | 101 | 79 | 10 50 | 22 |
| 13 | 48°0 | 14 5 | 51°6 | 43°5 | 0 38 | 8°1 | 536 | 6 50 | 553 | 508 | 14 40 | 45 | 88 | 18 30 | 100 | 80 | 5 37 | 20 |
| 14 * | 48°3 | 12 55 | 51°4 | 45°8 | 0 30 | 5°6 | 543 | 19 55 | 558 | 522 | 11 40 | 36 | 86 | 16 20 | 94 | 82 | 12 50 | 12 |
| 15 | 48°2 | 14 30 | 52°4 | 43°4 | 0 50 | 9°0 | 535 | 7 0 | 552 | 506 | 16 40 | 44 | 88 | 19 20 | 100 | 82 | 11 35 | 18 |
| 16 | 47°7 | 14 15 | 52°1 | 32°9 | 23 15 | 19°2 | 543 | 16 38 | 566 | 505 | 22 10 | 61 | 84 | 22 35 | 94 | 73 | 23 2 | 21 |
| 17 | 47°8 | 13 35 | 51°4 | 41°9 | 0 0 | 9°5 | 534 | 7 15 | 544 | 517 | 0 0 | 27 | 86 | 16 30 | 96 | 77 | 11 10 | 19 |
| 18 * | 47°4 | 13 24 | 49°6 | 44°7 | 2 37 | 4°9 | 539 | 18 2 | 549 | 527 | 0 20 | 22 | 88 | 16 30 | 95 | 83 | 9 55 | 12 |
| 19 * | 47°9 | 12 32 | 51°2 | 46°0 | 5 12 | 5°2 | 543 | 18 33 | 553 | 537 | 13 40 | 16 | 84 | 16 40 | 89 | 76 | 12 35 | 13 |
| 20 * | 47°9 | 13 0 | 50°3 | 44°4 | 23 45 | 5°9 | 548 | 17 40 | 562 | 531 | 22 45 | 31 | 84 | 23 10 | 92 | 80 | 10 10 | 12 |
| 21 ** | 48°4 | 14 52 | 57°9 | 43°3 | 6 25 | 14°6 | 530 | 8 40 | 566 | 495 | 15 6 | 71 | 89 | 20 20 | 107 | 75 | 9 15 | 32 |
| 22 ** | 47°9 | 14 32 | 55°5 | 37°0 | 0 38 | 18°5 | 522 | 0 14 | 571 | 467 | 15 55 | 104 | 92 | 16 25 | 120 | 69 | 0 35 | 51 |
| 23 | 48°0 | 12 50 | 53°0 | 43°1 | 22 15 | 9°9 | 532 | 22 23 | 569 | 503 | 10 40 | 66 | 88 | 17 15 | 95 | 80 | 5 5 | 15 |
| 24 | 47°1 | 14 50 | 51°8 | 42°4 | 20 40 | 9°4 | 527 | 8 10 | 548 | 505 | 21 15 | 43 | 88 | 21 25 | 98 | 79 | 1 50 | 19 |
| 25 | 47°9 | 12 50 | 52°3 | 41°5 | 21 55 | 10°8 | 531 | 2 20 | 556 | 512 | 14 5 | 44 | 87 | 14 25 | 97 | 77 | 3 20 | 20 |
| 26 | 48°2 | 5 25 | 52°3 | 44°0 | 23 45 | 8°3 | 541 | 6 35 | 564 | 521 | 11 30 | 43 | 84 | 15 45 | 95 | 73 | 7 10 | 22 |
| 27 | 48°5 | 16 53 | 56°3 | 40°2 | 19 67 | 16°1 | 544 | 4 50 | 570 | 506 | 19 20 | 64 | 84 | 19 55 | 100 | 75 | 9 55 | 25 |
| 28 | 47°8 | 19 16 | 51°3 | 44°1 | 23 40 | 7°2 | 536 | 4 30 | 548 | 516 | 23 45 | 32 | 87 | 19 0 | 98 | 78 | 9 40 | 20 |
| 29 | 47°2 | 11 32 | 51°2 | 43°8 | 3 20 | 7°4 | 535 | 24 0 | 566 | 512 | | | | | | | | |

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS -
DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

"All" Days.

DECLINATION WEST (unit 0'.01)

| Month and Season, 1939. | Universal Time. Hour commencing - | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| Jan. | -168 | -141 | -123 | -062 | -045 | -033 | -036 | -086 | -076 | -047 | +040 | +148 | +266 | +241 | +162 | +153 | +187 | +144 | +055 | +005 | -078 | -148 | -162 | -169 | |
| Feb. | -292 | -325 | -270 | -205 | -145 | -106 | -056 | 000 | -047 | -044 | +069 | +214 | +347 | +400 | +339 | +276 | +231 | +222 | +128 | +116 | -010 | -010 | -249 | -300 | -286 |
| March | -254 | -227 | -162 | -210 | -210 | -194 | -123 | -209 | -251 | -158 | +037 | +298 | +536 | +648 | +583 | +471 | +259 | +142 | +087 | -111 | -142 | -242 | -263 | -290 | |
| April | -236 | -168 | -142 | -155 | -216 | -239 | -298 | -450 | -461 | -282 | -041 | +335 | +659 | +796 | +750 | +537 | +365 | +164 | -050 | -113 | -142 | -180 | -180 | -264 | |
| May | -172 | -222 | -311 | -324 | -357 | -413 | -483 | -465 | -346 | -186 | +063 | +392 | +834 | +710 | +634 | +483 | +356 | +199 | +081 | +006 | -030 | -032 | -066 | -145 | |
| June | -096 | -138 | -172 | -224 | -280 | -415 | -583 | -629 | -543 | -373 | -090 | +250 | +522 | +622 | +653 | +544 | +384 | +245 | +134 | +086 | +080 | +045 | -008 | -021 | |
| July | -131 | -193 | -233 | -276 | -398 | -431 | -450 | -467 | -439 | -275 | -037 | +306 | +570 | +668 | +661 | +547 | +365 | +227 | +127 | +072 | +022 | -021 | -083 | -122 | |
| Aug. | -101 | -173 | -245 | -322 | -382 | -424 | -557 | -548 | -459 | -182 | +135 | +466 | +703 | +779 | +687 | +482 | +268 | +057 | -005 | -034 | -024 | -029 | -037 | -066 | |
| Sept. | -199 | -200 | -263 | -261 | -292 | -317 | -431 | -497 | -473 | -276 | +064 | +475 | +744 | +793 | +678 | +473 | +296 | +160 | +085 | -014 | -069 | -118 | -136 | -217 | |
| Oct. | -181 | -177 | -127 | -154 | -160 | -107 | -200 | -299 | -423 | -262 | +024 | +349 | +593 | +639 | +599 | +416 | +270 | +130 | +037 | -060 | -231 | -172 | -234 | -265 | |
| Nov. | -177 | -122 | -105 | -042 | -041 | -035 | -066 | -101 | -170 | -171 | -007 | +207 | +334 | +368 | +313 | +225 | +176 | +099 | +081 | +002 | -117 | -193 | +234 | -215 | |
| Dec. | -169 | -127 | -057 | -029 | -013 | -037 | -012 | -027 | -042 | 000 | +079 | +182 | +270 | +285 | +234 | +186 | +107 | +118 | +023 | -041 | +149 | -249 | -296 | -246 | |
| Year | -181 | -184 | -184 | -189 | -211 | -229 | -275 | -315 | -311 | -188 | +028 | +302 | +515 | +579 | +524 | +399 | +270 | +159 | +063 | -007 | -074 | -132 | -167 | -192 | |
| Winter | -202 | -179 | -139 | -085 | -061 | -053 | -043 | -054 | -084 | -066 | +045 | +188 | +304 | +324 | +262 | +210 | +170 | +146 | +071 | +021 | -089 | -210 | -248 | -229 | |
| Equinox | -218 | -193 | -174 | -195 | -220 | -214 | -263 | -364 | -402 | -245 | +021 | +364 | +633 | +719 | +653 | +474 | +298 | +149 | +035 | -075 | -146 | -178 | -203 | -259 | |
| Summer | -125 | -182 | -240 | -287 | -354 | -421 | -518 | -527 | -447 | -254 | +018 | +354 | +607 | +695 | +659 | +514 | +342 | +182 | +084 | +033 | +012 | -009 | -049 | -089 | |

INCLINATION (unit 0'.01)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jan. | +011 | +001 | -020 | -040 | -064 | -072 | -070 | -052 | -021 | +030 | +057 | +067 | +044 | +028 | +030 | +031 | +031 | +012 | +012 | +001 | -010 | -003 | -001 | +004 |
| Feb. | +010 | -009 | -023 | -037 | -048 | -061 | -079 | -067 | -071 | -056 | -081 | +008 | +013 | +004 | +014 | +017 | +048 | +046 | +050 | +055 | +092 | +052 | +039 | +022 |
| March | -043 | -038 | -044 | -032 | -054 | -069 | -080 | -046 | -008 | +047 | +068 | +073 | +053 | +046 | +025 | +039 | +058 | +040 | +014 | -007 | +009 | -012 | -005 | -037 |
| April | -053 | -030 | -059 | -036 | -034 | -036 | -008 | +049 | +094 | +119 | +146 | +137 | +087 | +057 | +022 | -012 | -015 | -063 | -103 | -078 | -040 | -027 | -047 | -070 |
| May | -057 | -057 | -062 | -052 | -037 | -013 | +040 | +079 | +108 | +116 | +111 | +082 | +060 | +075 | +070 | +014 | -025 | -054 | -070 | -072 | -064 | -082 | -067 | -044 |
| June | -078 | -080 | -062 | -045 | -045 | -027 | +026 | +095 | +146 | +169 | +163 | +141 | +104 | +112 | +040 | +005 | -011 | -063 | -087 | -100 | -101 | -100 | -101 | -099 |
| July | -063 | -055 | -053 | -054 | -044 | -029 | +021 | +078 | +114 | +130 | +147 | +126 | +099 | +088 | +067 | +008 | -035 | -075 | -092 | -084 | -074 | -082 | -075 | -062 |
| Aug. | -094 | -093 | -079 | -054 | -045 | -008 | +039 | +090 | +153 | +182 | +175 | +106 | +057 | +047 | +048 | +017 | +008 | -018 | -080 | -094 | -109 | -097 | -095 | -085 |
| Sept. | -063 | -081 | -067 | -077 | -073 | -033 | -007 | +039 | +093 | +136 | +156 | +127 | +065 | +041 | +024 | +023 | +022 | +006 | -022 | -046 | -056 | -067 | -069 | -071 |
| Oct. | -086 | -094 | -111 | -141 | -110 | -101 | -069 | -025 | +038 | +133 | +185 | +166 | +128 | +099 | +069 | +053 | +024 | -005 | +005 | -001 | +001 | -024 | -044 | -067 |
| Nov. | -013 | -024 | -036 | -050 | -076 | -083 | -081 | -066 | -027 | +030 | +070 | +100 | +084 | +064 | +056 | +041 | +014 | +004 | +005 | +005 | 000 | +001 | -005 | -015 |
| Dec. | +007 | +009 | -013 | -036 | -050 | -062 | -077 | -069 | -047 | -021 | +012 | +030 | +023 | +032 | +037 | +038 | +022 | +008 | +011 | +028 | +037 | +037 | +023 | +021 |
| Year | -044 | -046 | -052 | -055 | -057 | -050 | -029 | +009 | +048 | +085 | +106 | +097 | +068 | +058 | +042 | +023 | +012 | -014 | -028 | -033 | -026 | -034 | -037 | -044 |
| Winter | +004 | -006 | -023 | -041 | -080 | -070 | -077 | -064 | -042 | -004 | +030 | +051 | +041 | +032 | +034 | +032 | +029 | +018 | +020 | +022 | +030 | +022 | +014 | +008 |
| Equinox | -061 | -061 | -070 | -072 | -088 | -080 | -041 | +004 | +054 | +109 | +139 | +126 | +083 | +061 | +035 | +026 | +022 | -006 | -027 | -033 | -022 | -033 | -041 | -066 |
| Summer | -073 | -071 | -064 | -051 | -043 | -019 | +032 | +086 | +130 | +149 | +149 | +114 | +080 | +081 | +056 | +011 | -016 | -053 | -077 | -088 | -087 | -090 | -085 | -073 |

HORIZONTAL INTENSITY (unit 0.1γ)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jan. | - 16 | - 05 | + 21 | + 48 | + 80 | + 96 | + 94 | + 69 | + 21 | - 50 | - 90 | -112 | - 74 | - 40 | - 40 | - 41 | - 35 | - 03 | + 03 | + 18 | + 30 | + 18 | + 07 | - 04 |
| Feb. | - 20 | - 07 | + 18 | + 37 | + 51 | + 71 | + 93 | + 71 | + 78 | + 49 | - 12 | - 50 | - 53 | - 30 | - 24 | - 14 | - 43 | - 25 | - 20 | - 16 | - 72 | - 29 | - 39 | - 21 |
| March | + 56 | + 40 | + 40 | + 11 | + 48 | + 79 | + 98 | + 54 | - 08 | -103 | -149 | -165 | -125 | - 97 | - 34 | - 18 | - 19 | + 12 | + 48 | + 67 | + 33 | + 55 | + 22 | + 59 |
| April | + 42 | + 07 | + 47 | + 19 | + 18 | + 31 | - 08 | - 92 | - 161 | -219 | -276 | -279 | -204 | -123 | - 14 | + 96 | +118 | +204 | +254 | +194 | +104 | + 66 | + 84 | + 86 |
| May | + 67 | + 50 | + 48 | + 34 | + 24 | - 07 | - 85 | -149 | -200 | -233 | -245 | -211 | -163 | -138 | - 79 | + 47 | +129 | +188 | +209 | +199 | +167 | +165 | +117 | + 67 |
| June | +108 | +101 | + 69 | + 49 | + 55 | + 33 | - 46 | -156 | -242 | -297 | -304 | -288 | -219 | -202 | - 49 | + 35 | + 78 | +167 | +202 | +214 | +203 | +181 | +166 | +148 |
| July | + 81 | + 67 | + 61 | + 62 | + 57 | + 34 | - 50 | -142 | -207 | -248 | -290 | -269 | -218 | -160 | - 80 | + 40 | +126 | +198 | +221 | +192 | +161 | +148 | +119 | + 95 |
| Aug. | +113 | +107 | + 75 | + 30 | + 41 | + 03 | - 57 | -135 | -242 | -303 | -308 | -216 | -137 | - 96 | - 54 | + 42 | + 73 | +109 | +156 | +196 | +194 | +162 | +142 | +114 |
| Sept. | + 97 | +118 | + 92 | + 99 | + 95 | + 48 | + 17 | - 58 | -151 | -238 | -294 | -260 | -161 | -103 | - 45 | - 09 | + 15 | + 48 | + 85 | +116 | +120 | +130 | +123 | +118 |
| Oct. | +111 | +108 | +118 | +147 | +105 | +108 | + 80 | + 34 | - 61 | -216 | -308 | -280 | -215 | -151 | - 81 | - 31 | + 26 | + 75 | + 57 | + 61 | + 50 | + 62 | + 72 | +122 |
| Nov. | + 11 | + 23 | + 35 | + 56 | + 95 | +106 | +102 | + 86 | + 37 | - 57 | -124 | -166 | -134 | - 92 | - 66 | - 37 | + 06 | + 18 | + 18 | + 19 | + 23 | + 15 | + 14 | + 19 |
| Dec. | - 20 | - 24 | + 04 | + 31 | + 52 | + 70 | + 94 | + 85 | + 53 | + 10 | - 39 | - 59 | - 44 | - 48 | - 42 | - 33 | 00 | + 16 | + 16 | - 10 | - 25 | - 34 | - 26 | - 31 |
| Year | + 53 | + 49 | + 52 | + 52 | + 60 | + 56 | + 28 | - 28 | - 90 | -159 | -203 | -196 | -146 | -107 | - 51 | + 06 | + 40 | + 84 | +104 | +104 | + 82 | + 78 | + 67 | + 64 |
| Winter | - 11 | - 03 | + 20 | + 43 | + 70 | + 86 | + 96 | + 78 | + 47 | - 12 | - 66 | - 97 | - 76 | - 53 | - 43 | - 31 | - 18 | + 02 | + 04 | + 03 | - 11 | - 08 | - 11 | - 09 |
| Equinox | + 77 | + 68 | + 74 | + 69 | + 67 | + 67 | + 47 | - 15 | - 95 | -194 | -257 | -248 | -178 | -119 | - 44 | + 10 | + 35 | + 85 | +111 | +110 | + 77 | + 78 | + 75 | + 96 |
| Summer | + 92 | + 81 | + 63 | + 44 | + 44 | + 16 | - 60 | -146 | -223 | -270 | -287 | -248 | -184 | -149 | - 66 | + 41 | +102 | +166 | +197 | +200 | +181 | +164 | +136 | +106 |

TABLE V. - MEAN DIURNAL INEQUALITIES OF GEOGRAPHICAL COMPONENTS OF MAGNETIC INTENSITY

"All" Days

NORTH COMPONENT (unit 0.1γ)

| Month and Season, 1939. | Universal Time. Hour commencing - | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Jan. | + 01 | + 09 | + 33 | + 53 | + 83 | + 98 | + 96 | + 76 | + 28 | - 45 | - 93 | -125 | - 99 | - 64 | - 56 | - 56 | - 51 | - 17 | - 03 | + 17 | + 37 | + 33 | + 23 | + 13 |
| Feb. | + 10 | + 26 | + 45 | + 57 | + 65 | + 81 | + 97 | + 70 | + 81 | + 53 | - 19 | - 71 | - 87 | - 70 | - 58 | - 42 | - 66 | - 47 | - 32 | - 27 | - 70 | - 04 | - 08 | + 08 |
| March | + 81 | + 62 | + 56 | + 32 | + 68 | + 97 | +109 | + 74 | + 17 | - 85 | -150 | -192 | -177 | -161 | + 92 | - 65 | - 45 | - 03 | + 41 | + 77 | + 47 | + 78 | + 48 | + 87 |
| April | + 65 | + 24 | + 61 | + 34 | + 39 | + 55 | + 22 | - 45 | -112 | -187 | -267 | -308 | -267 | -201 | - 89 | + 40 | + 79 | +184 | +255 | +202 | +117 | + 83 | +101 | +111 |
| May | + 83 | + 72 | + 79 | + 66 | + 60 | + 35 | - 35 | -100 | -162 | -210 | -247 | -247 | -224 | -207 | -141 | - 02 | + 92 | +165 | +197 | +195 | +167 | +165 | +122 | + 81 |
| June | +116 | +113 | + 85 | + 71 | + 82 | + 74 | + 13 | - 90 | -183 | -255 | -290 | -308 | -268 | -261 | -114 | - 20 | + 38 | +140 | +185 | +202 | +192 | +173 | +164 | +148 |
| July | + 93 | + 85 | + 83 | + 89 | + 96 | + 77 | - 04 | - 93 | -159 | -218 | -281 | -295 | -272 | -224 | -145 | - 16 | + 87 | +172 | +204 | +182 | +156 | +148 | +125 | +106 |
| Aug. | +121 | +123 | + 98 | + 62 | + 79 | + 46 | 00 | - 78 | -192 | -280 | -316 | -259 | -205 | -173 | -122 | - 07 | + 45 | +101 | +154 | +196 | +193 | +162 | +143 | +119 |
| Sept. | +115 | +136 | +117 | +124 | +123 | + 79 | + 60 | - 05 | -101 | -206 | -295 | -303 | -233 | -181 | -112 | - 56 | - 15 | + 31 | + 75 | +115 | +125 | +140 | +135 | +138 |
| Oct. | +127 | +124 | +129 | +160 | +119 | +117 | + 99 | + 63 | - 18 | -186 | -305 | -310 | -271 | -213 | -140 | - 72 | - 02 | + 61 | + 52 | + 66 | + 72 | + 78 | + 94 | +147 |
| Nov. | + 29 | + 35 | + 45 | + 59 | + 98 | +108 | +107 | + 95 | + 54 | - 39 | -121 | -184 | -165 | -127 | - 96 | - 59 | - 12 | + 08 | + 10 | + 19 | + 34 | + 34 | + 37 | + 40 |
| Dec. | - 03 | - 11 | + 10 | + 33 | + 52 | + 73 | + 94 | + 86 | + 56 | + 10 | - 46 | - 76 | - 70 | - 76 | - 65 | - 51 | - 11 | + 04 | + 13 | - 08 | - 10 | - 08 | + 04 | - 06 |
| Year | + 70 | + 67 | + 70 | + 70 | + 80 | + 78 | + 55 | + 04 | - 58 | -137 | -203 | -223 | -195 | -163 | -103 | - 34 | + 12 | + 67 | + 96 | +103 | + 88 | + 90 | + 82 | + 83 |
| Winter | + 09 | + 15 | + 33 | + 51 | + 75 | + 90 | + 99 | + 82 | + 55 | - 05 | - 70 | -114 | -105 | - 84 | - 69 | - 52 | - 35 | - 13 | - 03 | + 01 | - 02 | + 14 | + 14 | + 14 |
| Equinox | + 97 | + 87 | + 91 | + 88 | + 87 | + 87 | + 73 | + 22 | - 54 | -166 | -254 | -278 | -237 | -189 | -108 | - 38 | + 04 | + 68 | +106 | +115 | + 90 | + 95 | + 95 | +121 |
| Summer | +104 | + 98 | + 86 | + 72 | + 79 | + 58 | - 07 | - 90 | -174 | -240 | -284 | -277 | -242 | -216 | -131 | - 11 | + 66 | +145 | +185 | +194 | +177 | +162 | +139 | +114 |

WEST COMPONENT (unit 0.1γ)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jan. | - 92 | - 76 | - 61 | - 24 | - 09 | + 01 | - 02 | - 33 | - 36 | - 34 | + 04 | + 58 | +127 | +120 | + 78 | + 73 | + 82 | + 76 | + 30 | + 06 | - 36 | - 75 | - 85 | - 90 |
| Feb. | -158 | -173 | -140 | -102 | - 67 | - 43 | - 12 | + 13 | - 10 | - 14 | + 34 | +104 | +174 | +206 | +175 | +144 | +114 | +113 | + 63 | + 58 | - 19 | -137 | -166 | -155 |
| March | -124 | -113 | - 78 | -109 | -102 | - 88 | - 47 | -101 | -134 | -103 | - 08 | +127 | +260 | +325 | +302 | +246 | +134 | + 77 | + 45 | - 46 | - 69 | -118 | -135 | -143 |
| April | -117 | - 88 | - 66 | - 79 | -111 | -121 | -159 | -255 | -274 | -190 | - 73 | +125 | +311 | +398 | +395 | +302 | +215 | +125 | + 21 | - 24 | - 56 | - 83 | - 80 | -124 |
| May | - 79 | -108 | -156 | -165 | -185 | -220 | -272 | -274 | -221 | -142 | - 12 | +168 | +305 | +350 | +321 | +265 | +210 | +141 | + 82 | + 40 | + 15 | + 14 | - 13 | - 64 |
| June | - 31 | - 54 | - 78 | -109 | -138 | -214 | -317 | -362 | -333 | -253 | -104 | + 79 | +235 | +292 | +337 | +295 | +218 | +161 | +109 | + 86 | + 80 | + 58 | + 27 | + 17 |
| July | - 54 | - 90 | -112 | -135 | -200 | -222 | -248 | -274 | -271 | -192 | - 74 | +112 | +261 | +324 | +335 | +297 | +217 | +157 | +109 | + 74 | + 42 | + 17 | - 22 | - 47 |
| Aug. | - 32 | - 72 | -116 | -165 | -195 | -224 | -306 | -315 | -288 | -153 | + 14 | +206 | +347 | +394 | +354 | +263 | +156 | + 51 | + 27 | + 19 | + 24 | + 15 | + 07 | - 14 |
| Sept. | - 87 | - 84 | -122 | -120 | -137 | -159 | -225 | -274 | -279 | -191 | - 21 | +203 | +364 | +401 | +351 | +249 | +160 | + 94 | + 61 | + 14 | - 14 | - 38 | - 49 | - 93 |
| Oct. | - 75 | - 74 | - 45 | - 54 | - 65 | - 36 | - 91 | -152 | -235 | -179 | - 45 | +132 | +274 | +310 | +302 | +214 | +148 | + 83 | + 30 | - 20 | -113 | - 79 | -110 | -118 |
| Nov. | - 92 | - 60 | - 49 | - 12 | - 04 | + 01 | - 16 | - 37 | - 83 | -101 | - 27 | + 79 | +152 | +178 | +153 | +112 | + 94 | + 56 | + 46 | + 05 | - 58 | - 99 | -121 | -110 |
| Dec. | - 93 | - 72 | - 30 | - 10 | + 03 | - 07 | + 11 | + 02 | - 12 | + 02 | + 35 | + 85 | +135 | +142 | +116 | + 92 | + 57 | + 66 | + 15 | - 24 | - 84 | -138 | -162 | -136 |
| Year | - 86 | - 89 | - 88 | - 90 | -101 | -111 | -140 | -172 | -181 | -129 | - 23 | +123 | +245 | +287 | +268 | +213 | +150 | +100 | + 53 | + 16 | - 24 | - 55 | - 76 | - 90 |
| Winter | -109 | - 95 | - 70 | - 37 | - 19 | - 12 | - 05 | - 14 | - 35 | - 37 | + 12 | + 82 | +147 | +162 | +131 | +105 | + 87 | + 78 | + 39 | + 11 | -49 | -112 | -134 | -123 |
| Equinox | -101 | - 90 | - 78 | - 91 | -104 | -101 | -131 | -196 | -231 | -166 | - 37 | +147 | +302 | +359 | +338 | +253 | +164 | + 95 | + 39 | - 19 | - 63 | - 80 | - 94 | -120 |
| Summer | - 49 | - 81 | -116 | -144 | -180 | -220 | -266 | -306 | -278 | -185 | - 44 | +141 | +287 | +340 | +337 | +280 | +200 | +128 | + 82 | + 55 | + 40 | + 26 | - 00 | - 27 |

VERTICAL COMPONENT (unit 0.1γ)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jan. | - 01 | - 08 | - 21 | - 26 | - 33 | - 24 | - 23 | - 21 | - 25 | - 13 | - 15 | - 27 | - 21 | + 02 | + 11 | + 10 | + 25 | + 33 | + 50 | + 44 | + 35 | + 31 | + 15 | + 05 | |
| Feb. | - 09 | - 47 | - 39 | - 43 | - 49 | - 46 | - 55 | - 67 | - 65 | - 78 | - 89 | - 89 | - 89 | - 79 | - 57 | - 07 | + 28 | + 66 | +100 | +129 | +151 | +153 | +110 | + 45 | + 26 |
| March | - 17 | - 39 | - 60 | - 87 | - 76 | - 55 | - 50 | - 33 | - 44 | - 76 | -109 | -133 | -107 | - 67 | + 07 | + 94 | +154 | +165 | +160 | +131 | +106 | + 86 | + 34 | + 12 | |
| April | - 85 | - 88 | - 92 | - 78 | - 75 | - 53 | - 46 | - 46 | - 50 | - 97 | -140 | -178 | -174 | - 91 | + 46 | +182 | +223 | +256 | +236 | +184 | +103 | + 59 | + 36 | - 41 | |
| May | - 40 | - 81 | -103 | -101 | - 72 | - 64 | - 60 | - 72 | - 90 | -141 | -187 | -209 | -173 | - 64 | + 59 | +158 | +216 | +252 | +245 | +216 | +165 | +101 | + 42 | + 02 | |
| June | - 19 | - 42 | - 55 | - 43 | - 26 | - 17 | - 18 | - 35 | - 58 | -108 | -146 | -184 | -150 | - 83 | + 25 | + 99 | +142 | +170 | +168 | +151 | +123 | + 75 | + 37 | + 03 | |
| July | - 28 | - 36 | - 42 | - 41 | - 20 | - 20 | - 45 | - 62 | - 88 | -129 | -166 | -191 | -166 | - 70 | + 46 | +122 | +174 | +201 | +196 | +157 | +117 | + 64 | + 19 | + 07 | |
| Aug. | - 61 | - 73 | - 99 | -116 | - 60 | - 21 | + 04 | - 02 | - 35 | - 78 | -110 | -135 | -120 | - 61 | + 41 | +156 | +197 | +189 | +155 | +131 | + 77 | + 43 | + 03 | - 27 | |
| Sept. | + 07 | - 06 | - 18 | - 34 | - 31 | - 03 | + 13 | + 05 | - 32 | - 82 | -144 | -166 | -149 | - 96 | - 21 | + 60 | +109 | +130 | +121 | +111 | + 86 | + 68 | + 48 | + 26 | |
| Oct. | - 38 | - 72 | -112 | -145 | -134 | - 96 | - 52 | - 08 | - 10 | - 40 | - 75 | - 77 | - 59 | - 09 | + 47 | +110 | +143 | +155 | +148 | +139 | +122 | + 63 | + 15 | - 19 | |
| Nov. | - 20 | - 31 | - 41 | - 42 | - 43 | - 43 | - 40 | - 27 | - 08 | - 28 | - 45 | - 40 | - 20 | + 08 | + 42 | + 56 | + 61 | + 56 | + 58 | + 61 | + 52 | + 38 | + 13 | - 07 | |
| Dec. | - 20 | - 24 | - 34 | - 51 | - 52 | - 51 | - 47 | - 41 | - 39 | - 48 | - 47 | - 35 | - 24 | 00 | + 31 | + 53 | + 77 | + 67 | + 77 | + 72 | + 69 | + 50 | + 21 | 00 | |
| Year | - 28 | - 46 | - 60 | - 67 | - 56 | - 41 | - 35 | - 34 | - 45 | - 76 | -106 | -122 | -104 | - 49 | + 27 | + 94 | +132 | +148 | +145 | +129 | +101 | + 66 | + 27 | - 01 | |
| Winter | - 13 | - 28 | - 34 | - 41 | - 44 | - 41 | - 41 | - 39 | - 34 | - 42 | - 49 | - 48 | - 36 | - 12 | + 19 | + 37 | + 57 | + 64 | + 79 | + 82 | + 77 | + 57 | + 24 | + 06 | |
| Equinox | - 33 | - 51 | - 71 | - 86 | - 79 | - 52 | - 34 | - 21 | - 34 | - 74 | -117 | -139 | -122 | - 66 | + 20 | +112 | +157 | +177 | +166 | +141 | +104 | + 69 | + 33 | - 06 | |
| Summer | - 37 | - 58 | - 75 | - 75 | - 45 | - 31 | - 30 | - 43 | - 68 | -114 | -152 | -180 | -152 | - 70 | + 43 | +134 | +182 | +203 | +191 | +164 | +121 | + 71 | + 25 | - 04 | |

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS - DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

International Quiet Days

DECLINATION WEST (unit 0'.01)

| Month and Season, 1939. | Universal Time. Hour commencing - | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------------------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|-------------|-------------|-------------|------|------|------|------|------|------|------|------|-------------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Jan. | -122 | -058 | -032 | -024 | -044 | -060 | -088 | -124 | -146 | -112 | -016 | +108 | +242 | +220 | +122 | +084 | +110 | +118 | +066 | +010 | -036 | -068 | -080 | -082 |
| Feb. | -093 | -079 | -069 | -079 | -071 | -113 | -123 | -127 | -187 | -179 | -083 | +113 | +259 | +301 | +227 | +183 | +139 | +123 | +093 | +051 | +003 | -099 | -123 | -095 |
| March | -169 | -155 | -157 | -159 | -129 | -163 | -161 | -279 | -331 | -221 | +007 | +209 | +421 | +499 | +415 | +285 | +163 | +093 | +059 | +023 | +027 | -035 | -091 | -163 |
| April | -032 | -020 | -092 | -146 | -156 | -168 | -226 | -392 | -522 | -502 | -274 | +070 | +482 | +662 | +602 | +432 | +254 | +112 | +002 | -028 | -056 | -016 | +024 | -012 |
| May | -043 | -091 | -145 | -189 | -277 | -421 | -483 | -447 | -329 | -231 | -017 | +295 | +487 | +505 | +455 | +365 | +281 | +155 | +053 | +065 | +067 | +009 | -025 | -021 |
| June | +001 | -011 | -061 | -129 | -243 | -373 | -511 | -615 | -579 | -435 | -195 | +121 | +397 | +513 | +549 | +505 | +387 | +217 | +117 | +085 | +105 | +041 | +043 | +075 |
| July | -074 | -052 | -130 | -268 | -356 | -516 | -616 | -628 | -464 | -194 | +082 | +362 | +582 | +610 | +580 | +410 | +288 | +130 | +096 | +088 | +086 | +082 | +020 | -040 |
| August | -111 | -159 | -189 | -217 | -299 | -473 | -561 | -587 | -519 | -335 | -071 | +275 | +575 | +741 | +735 | +543 | +349 | +159 | +081 | +081 | +081 | +029 | -043 | -077 |
| Sept. | -130 | -132 | -218 | -262 | -288 | -306 | -382 | -468 | -462 | -302 | -002 | +348 | +626 | +702 | +616 | +398 | +214 | +102 | +090 | +038 | +008 | -006 | -036 | -156 |
| Oct. | -156 | +004 | -046 | -088 | -136 | -152 | -230 | -326 | -434 | -356 | -070 | +262 | +480 | +520 | +402 | +244 | +156 | +100 | +080 | +004 | -040 | -080 | -068 | -078 |
| Nov. | -097 | -071 | -057 | -089 | -085 | -089 | -119 | -163 | -219 | -199 | -005 | +213 | +323 | +299 | +215 | +149 | +115 | +071 | +053 | +021 | -023 | -085 | -083 | -107 |
| Dec. | -095 | -045 | -077 | -075 | -045 | -075 | -073 | -071 | -051 | -023 | +039 | +105 | +183 | +193 | +135 | +131 | +105 | +069 | +035 | -001 | -025 | -077 | -119 | -137 |
| Year | -093 | -072 | -106 | -142 | -177 | -242 | -298 | -352 | -352 | -257 | -050 | +207 | +420 | +480 | +419 | +309 | +212 | +121 | +067 | +036 | +014 | -022 | -048 | -074 |
| Winter | -102 | -063 | -059 | -062 | -061 | -084 | -101 | -121 | -146 | -128 | -011 | +135 | +252 | +253 | +175 | +132 | +117 | +095 | +062 | +020 | -020 | -077 | -101 | -105 |
| Equinox | -122 | -076 | -128 | -164 | -177 | -197 | -250 | -366 | -437 | -345 | -085 | +222 | +502 | +596 | +509 | +340 | +197 | +102 | +053 | +009 | -015 | -029 | -040 | -102 |
| Summer | -057 | -078 | -131 | -201 | -294 | -446 | -543 | -569 | -473 | -299 | -055 | +263 | +505 | +592 | +575 | +456 | +321 | +165 | +087 | +080 | +077 | +040 | -001 | -016 |

INCLINATION (unit 0'.01)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|-------------|-------------|-------------|------|-------------|-------------|-------------|-------------|------|------|-------------|------|------|-------------|-------------|-------------|------|------|-------------|
| Jan. | +018 | 000 | -023 | -043 | -054 | -067 | -066 | -052 | -013 | +046 | +072 | +095 | +071 | +055 | +029 | +027 | +023 | +002 | -010 | -026 | -021 | -015 | -023 | -027 |
| Feb. | +014 | +017 | +017 | +012 | +006 | -012 | -024 | -042 | -036 | -020 | -002 | +005 | +005 | +011 | +021 | +024 | +017 | +009 | 000 | -022 | 000 | +006 | +005 | -012 |
| March | -021 | -019 | +006 | -006 | -010 | -029 | -033 | -018 | +007 | +056 | +070 | +072 | +041 | +036 | +039 | +031 | +024 | +013 | -021 | -051 | -040 | -043 | -046 | -066 |
| April | -040 | -023 | -013 | -013 | -030 | -043 | -015 | +023 | +040 | +077 | +122 | +124 | +086 | +069 | +042 | +009 | +007 | -016 | -028 | -031 | -044 | -090 | -105 | -109 |
| May | -017 | -004 | +008 | +017 | +009 | +006 | +012 | +025 | +049 | +051 | +049 | +057 | +057 | +068 | +072 | +021 | -029 | -049 | -062 | -088 | -082 | -071 | -065 | -054 |
| June | -036 | -040 | -028 | -026 | -043 | -025 | +013 | +067 | +104 | +131 | +145 | +145 | +148 | +123 | +037 | -034 | -066 | -084 | -103 | -095 | -094 | -090 | -087 | -064 |
| July | 000 | -003 | -022 | -006 | +003 | +001 | +018 | +064 | +121 | +130 | +123 | +085 | +050 | +051 | +042 | +011 | -027 | -046 | -090 | -102 | -120 | -111 | -094 | -072 |
| Aug. | -053 | -039 | -039 | -036 | -025 | -006 | +027 | +084 | +137 | +152 | +152 | +116 | +079 | +055 | +018 | +003 | -028 | -046 | -080 | -109 | -111 | -102 | -089 | -059 |
| Sept. | -028 | -037 | -027 | -027 | -025 | -014 | -007 | +032 | +092 | +132 | +161 | +119 | +050 | +002 | -019 | -007 | -003 | -028 | -065 | -065 | -053 | -069 | -049 | -069 |
| Oct. | -033 | -062 | -045 | -037 | -047 | -057 | -065 | -026 | +040 | +119 | +184 | +186 | +151 | +109 | +068 | +029 | -013 | -034 | -046 | -061 | -076 | -068 | -096 | -097 |
| Nov. | +008 | +006 | +001 | -010 | -036 | -052 | -048 | -029 | +021 | +082 | +094 | +095 | +081 | +053 | +014 | -008 | -033 | -035 | -040 | -035 | -031 | -034 | -037 | -029 |
| Dec. | +039 | +028 | +016 | +010 | -005 | -013 | -013 | -002 | -006 | +010 | +034 | +048 | +023 | +009 | -004 | -006 | -024 | -048 | -050 | -035 | -035 | -004 | +007 | +012 |
| Year | -012 | -015 | -012 | -014 | -021 | -026 | -017 | +011 | +046 | +061 | +100 | +096 | +070 | +055 | +030 | +008 | -013 | -030 | -050 | -060 | -059 | -058 | -057 | -054 |
| Winter | +020 | +013 | +003 | -008 | -022 | -036 | -038 | -031 | -009 | +030 | +050 | +061 | +045 | +031 | +015 | +009 | -004 | -018 | -025 | -030 | -022 | -012 | -012 | -014 |
| Equinox | -031 | -035 | -020 | -021 | -028 | -036 | -030 | +003 | +045 | +096 | +134 | +125 | +082 | +054 | +033 | +016 | +004 | -016 | -040 | -052 | -053 | -070 | -074 | -085 |
| Summer | -027 | -022 | -020 | -013 | -014 | -006 | +018 | +060 | +103 | +116 | +117 | +101 | +084 | +079 | +042 | +000 | -038 | -056 | -084 | -099 | -102 | -094 | -084 | -062 |

HORIZONTAL INTENSITY (unit 0.1γ)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|------|-------------|------|------|------|------|------|-------------|-------------|------|------|-------------|
| Jan. | - 25 | - 05 | + 27 | + 53 | + 69 | + 95 | + 95 | + 77 | + 21 | - 67 | -113 | -153 | -115 | - 75 | - 33 | - 37 | - 29 | - 01 | + 27 | + 45 | + 39 | + 31 | + 35 | + 39 |
| Feb. | - 14 | - 20 | - 20 | - 14 | - 02 | + 28 | + 42 | + 60 | + 50 | + 12 | - 34 | - 58 | -108 | - 48 | - 46 | - 36 | - 14 | + 02 | + 22 | + 52 | + 24 | + 16 | + 14 | + 34 |
| March | + 34 | + 28 | - 06 | + 12 | + 18 | + 48 | + 56 | + 38 | - 12 | -110 | -148 | -168 | -108 | - 82 | - 68 | - 32 | - 14 | + 08 | + 58 | + 98 | + 82 | + 84 | + 84 | +104 |
| April | + 74 | + 44 | + 30 | + 28 | + 52 | + 76 | + 40 | - 10 | - 48 | -136 | -230 | -264 | -216 | -174 | - 92 | - 06 | + 18 | + 50 | + 78 | + 84 | + 96 | +160 | +172 | +168 |
| May | + 43 | + 21 | + 01 | - 11 | + 11 | + 11 | - 11 | - 41 | - 91 | -119 | -143 | -177 | -173 | -179 | -117 | - 19 | + 67 | +109 | +137 | +173 | +159 | +136 | +117 | + 97 |
| June | + 58 | + 64 | + 44 | + 50 | + 86 | + 62 | + 04 | - 84 | -152 | -220 | -272 | -294 | -288 | -232 | - 70 | + 56 | +112 | +150 | +184 | +172 | +166 | +158 | +142 | +100 |
| July | + 15 | + 17 | + 33 | + 13 | + 11 | + 17 | - 23 | - 97 | -189 | -221 | -233 | -193 | -145 | -123 | - 69 | + 05 | + 63 | +107 | +177 | +185 | +205 | +181 | +151 | +117 |
| Aug. | + 83 | + 63 | + 65 | + 63 | + 61 | + 39 | - 13 | -107 | -195 | -239 | -261 | -239 | -193 | -145 | - 57 | + 03 | + 65 | + 99 | +143 | +181 | +183 | +161 | +139 | + 95 |
| Sept. | + 57 | + 67 | + 51 | + 51 | + 49 | + 37 | + 33 | - 33 | -133 | -217 | -291 | -247 | -137 | - 51 | + 05 | + 13 | + 19 | + 59 | +115 | +121 | +103 | +109 | + 91 | +119 |
| Oct. | + 52 | + 94 | + 58 | + 52 | + 74 | + 92 | +104 | + 54 | - 48 | -182 | -292 | -306 | -254 | -180 | -102 | - 26 | + 34 | + 64 | + 82 | +100 | +122 | +132 | +138 | +140 |
| Nov. | - 14 | - 14 | - 08 | + 06 | + 48 | + 68 | + 66 | + 42 | - 26 | -122 | -148 | -148 | -122 | - 72 | - 08 | + 22 | + 56 | + 60 | + 64 | + 56 | + 52 | + 52 | + 40 | |
| Dec. | - 63 | - 45 | - 31 | - 21 | + 03 | + 13 | + 15 | + 03 | + 03 | - 23 | - 57 | - 75 | - 41 | - 19 | + 09 | + 17 | + 51 | + 81 | + 85 | + 61 | + 59 | + 11 | - 09 | - 21 |
| Year | + 25 | + 26 | + 20 | + 24 | + 40 | + 49 | + 34 | - 08 | - 68 | -137 | -185 | -194 | -154 | -115 | - 54 | - 04 | + 36 | + 66 | + 98 | +111 | +108 | +103 | + 94 | + 86 |
| Winter | - 29 | - 21 | - 08 | + 06 | + 30 | + 51 | + 55 | + 46 | + 12 | - 50 | - 88 | -109 | - 83 | - 54 | - 20 | - 09 | + 16 | + 36 | + 50 | + 54 | + 44 | + 28 | + 23 | + 23 |
| Equinox | + 54 | + 58 | + 33 | + 36 | + 48 | + 63 | + 58 | + 12 | - 60 | -161 | -240 | -246 | -179 | -122 | - 64 | - 13 | + 14 | + 45 | + 83 | +101 | +121 | +121 | +121 | +133 |
| Summer | + 50 | + 41 | + 36 | + 29 | + 42 | + 32 | - 11 | - 82 | -157 | -200 | -227 | -226 | -200 | -170 | - 78 | + 09 | + 77 | +116 | +160 | +178 | +178 | +159 | +137 | +102 |

TABLE VI. - MEAN DIURNAL INEQUALITIES OF GEOGRAPHICAL COMPONENTS OF MAGNETIC INTENSITY

International Quiet Days

| NORTH COMPONENT (unit 0.1γ) | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------------------|------|------|------|------|------|-------------|-------------|------|------|-------------|-------------|-------------|-------------|------|------|------|------|-------------|-------------|-------------|------|-------------|-------------|
| Month and Season, 1939. | Universal Time. Hour commencing - | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Jan. | - 11 | + 01 | + 30 | + 55 | + 72 | + 99 | +102 | + 88 | + 35 | - 55 | -109 | -161 | -137 | - 96 | - 45 | - 45 | - 40 | - 13 | + 20 | + 43 | + 42 | + 37 | + 42 | + 47 |
| Feb. | - 05 | - 12 | - 13 | - 06 | + 05 | + 39 | + 54 | + 72 | + 66 | + 30 | - 27 | - 68 | - 77 | - 78 | - 68 | - 52 | - 28 | - 10 | + 12 | + 46 | + 23 | + 26 | + 26 | + 43 |
| March | + 50 | + 43 | + 10 | + 28 | + 31 | + 64 | + 71 | + 65 | + 22 | - 86 | -146 | -186 | -149 | -131 | -109 | - 60 | - 30 | - 01 | + 51 | + 94 | + 78 | + 86 | + 92 | +119 |
| April | + 76 | + 45 | + 39 | + 42 | + 67 | + 92 | + 62 | + 30 | + 05 | - 83 | -199 | -267 | -261 | -238 | -151 | - 49 | - 08 | + 38 | + 77 | + 85 | +102 | +159 | +167 | +166 |
| May | + 47 | + 30 | + 16 | + 08 | + 39 | + 53 | + 38 | + 05 | - 56 | - 94 | -139 | -204 | -219 | -227 | -161 | - 55 | + 38 | + 92 | +129 | +164 | +151 | +132 | +118 | + 98 |
| June | + 57 | + 64 | + 49 | + 62 | +109 | + 98 | + 55 | - 21 | - 91 | -173 | -248 | -301 | -323 | -280 | -124 | + 04 | + 71 | +126 | +169 | +161 | +153 | +151 | +135 | + 91 |
| July | + 22 | + 22 | + 46 | + 40 | + 47 | + 69 | + 39 | - 32 | -139 | -198 | -235 | -226 | -199 | -182 | -124 | - 46 | + 35 | + 92 | +164 | +178 | +193 | +170 | +146 | +119 |
| Aug. | + 93 | + 78 | + 83 | + 84 | + 90 | + 86 | + 44 | - 46 | -140 | -201 | -250 | -263 | -248 | -217 | -130 | - 52 | + 29 | + 81 | +133 | +170 | +174 | +155 | +141 | +101 |
| Sept. | + 69 | + 79 | + 72 | + 76 | + 77 | + 67 | + 71 | + 15 | - 84 | -183 | -286 | -278 | -198 | -121 | - 57 | - 27 | - 03 | + 48 | +104 | +115 | +100 | +108 | + 93 | +133 |
| Oct. | + 67 | + 92 | + 62 | + 60 | + 86 | +106 | +125 | + 86 | - 04 | -143 | -280 | -327 | -298 | -229 | -141 | - 50 | + 18 | + 53 | + 75 | + 98 | +124 | +136 | +142 | +145 |
| Nov. | - 04 | - 07 | - 02 | + 13 | + 56 | + 76 | + 77 | + 58 | - 04 | -100 | -145 | -167 | -152 | -101 | - 30 | + 07 | + 43 | + 52 | + 58 | + 53 | + 53 | + 58 | + 59 | + 50 |
| Dec. | - 52 | - 40 | - 23 | - 13 | + 07 | + 20 | + 22 | + 10 | + 08 | - 20 | - 60 | - 84 | - 59 | - 38 | - 05 | + 04 | + 40 | + 73 | + 80 | + 60 | + 61 | + 19 | + 03 | - 07 |
| Year | + 34 | + 33 | + 31 | + 37 | + 57 | + 72 | + 63 | + 28 | - 32 | -109 | -177 | -211 | -193 | -162 | - 95 | - 35 | + 14 | + 53 | + 89 | +105 | +105 | +103 | + 97 | + 92 |
| Winter | - 18 | - 15 | - 02 | + 12 | + 35 | + 59 | + 64 | + 57 | + 26 | - 36 | - 85 | -120 | -106 | - 78 | - 37 | - 22 | + 04 | + 26 | + 43 | + 51 | + 45 | + 35 | + 33 | + 33 |
| Equinox | + 66 | + 65 | + 46 | + 52 | + 65 | + 82 | + 82 | + 49 | - 15 | -124 | -228 | -265 | -227 | -180 | -115 | - 46 | - 06 | + 35 | + 77 | + 98 | +101 | +122 | +124 | +141 |
| Summer | + 55 | + 49 | + 49 | + 49 | + 71 | + 77 | + 44 | - 24 | -107 | -167 | -218 | -249 | -247 | -227 | -135 | - 37 | + 43 | + 98 | +149 | +167 | +168 | +152 | +135 | +102 |

| WEST COMPONENT (unit 0.1γ) | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|-------------|-------------|-------------|------|------|------|------|------|------|------|------|------|
| Jan. | - 69 | - 32 | - 12 | - 03 | - 10 | - 14 | - 29 | - 51 | - 73 | - 72 | - 30 | + 29 | +107 | +103 | + 58 | + 38 | + 53 | + 62 | + 40 | + 14 | - 12 | - 30 | - 36 | - 36 |
| Feb. | - 52 | - 46 | - 40 | - 44 | - 38 | - 55 | - 57 | - 56 | - 79 | - 93 | - 40 | + 49 | +127 | +150 | +112 | + 80 | + 71 | + 66 | + 53 | + 37 | + 06 | - 49 | - 63 | - 44 |
| March | - 83 | - 77 | - 84 | - 82 | - 65 | - 77 | - 75 | -141 | -177 | -138 | - 24 | + 79 | +203 | +249 | +207 | +145 | + 84 | + 51 | + 42 | + 31 | + 30 | - 03 | - 33 | - 67 |
| April | - 03 | - 02 | - 43 | - 72 | - 73 | - 75 | -112 | -209 | -285 | -291 | -188 | - 12 | +215 | +318 | +302 | +228 | +138 | + 69 | + 16 | + 01 | - 11 | + 21 | + 45 | + 25 |
| May | - 15 | - 44 | - 77 | -102 | -145 | -221 | -258 | -244 | -191 | -145 | - 36 | +123 | +225 | +234 | +219 | +190 | +161 | +103 | + 54 | + 67 | + 60 | + 30 | + 09 | + 07 |
| June | + 11 | + 06 | - 24 | - 59 | -113 | -186 | -270 | -341 | -335 | -271 | -154 | + 09 | +156 | +228 | +278 | +226 | +143 | + 96 | + 77 | + 87 | + 51 | + 49 | + 58 | |
| July | - 36 | - 24 | - 63 | -140 | -186 | -270 | -330 | -351 | -281 | -144 | - 11 | +156 | +270 | +300 | +284 | +216 | +154 | + 89 | + 84 | + 81 | + 84 | + 77 | + 39 | + 01 |
| Aug. | - 43 | - 72 | - 68 | -103 | -147 | -243 | -299 | -331 | -311 | -222 | - 86 | +101 | +268 | +365 | +378 | +288 | +197 | +103 | + 70 | + 77 | + 67 | + 46 | + 03 | - 23 |
| Sept. | - 58 | - 57 | -106 | -129 | -143 | -155 | -196 | -254 | -270 | -201 | - 65 | +138 | +306 | +362 | +327 | +213 | +117 | + 65 | + 69 | + 43 | + 24 | + 17 | - 02 | - 60 |
| Oct. | - 73 | + 20 | - 14 | - 37 | - 58 | - 63 | -102 | -163 | -239 | -223 | - 92 | + 82 | +207 | +242 | +193 | +124 | + 89 | + 65 | + 47 | + 21 | + 02 | - 07 | - 05 | - 15 |
| Nov. | - 54 | - 40 | - 32 | - 35 | - 36 | - 34 | - 51 | - 78 | -121 | -128 | - 30 | + 85 | +148 | +145 | +112 | + 83 | + 71 | + 49 | + 40 | + 22 | - 03 | - 25 | - 34 | - 49 |
| Dec. | - 62 | - 32 | - 47 | - 44 | - 23 | - 37 | - 36 | - 37 | - 26 | - 17 | + 10 | + 42 | + 89 | + 99 | + 73 | + 73 | + 65 | + 52 | + 34 | + 11 | - 02 | - 39 | - 65 | - 76 |
| Year | - 45 | - 33 | - 53 | - 71 | - 66 | -119 | -151 | -188 | -200 | -162 | - 62 | + 73 | +193 | +233 | +212 | +163 | +119 | + 76 | + 54 | + 40 | + 28 | + 07 | - 08 | - 23 |
| Winter | - 59 | - 38 | - 33 | - 32 | - 27 | - 35 | - 43 | - 56 | - 75 | - 78 | - 23 | + 51 | +118 | +124 | + 89 | + 69 | + 65 | + 57 | + 42 | + 21 | - 03 | - 36 | - 50 | - 51 |
| Equinox | - 54 | - 29 | - 62 | - 80 | - 85 | - 93 | -121 | -192 | -243 | -213 | - 92 | + 72 | +233 | +293 | +257 | +178 | +107 | + 63 | + 44 | + 24 | + 11 | + 07 | + 01 | - 29 |
| Summer | - 21 | - 34 | - 63 | -101 | -148 | -230 | -289 | -317 | -280 | -196 | - 72 | + 97 | +230 | +282 | +290 | +243 | +185 | +110 | + 76 | + 76 | + 75 | + 51 | + 25 | + 11 |

| VERTICAL COMPONENT (unit 0.1γ) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|------|------|------|------|-------------|-------------|-------------|------|------|------|------|
| Jan. | + 03 | - 11 | - 19 | - 25 | - 29 | - 11 | - 07 | + 01 | + 03 | + 03 | - 13 | - 29 | - 23 | + 17 | + 23 | + 07 | + 09 | + 05 | + 29 | + 15 | + 19 | + 21 | + 05 | - 05 |
| Feb. | + 17 | + 15 | + 13 | + 11 | + 17 | + 23 | + 13 | - 07 | - 07 | - 43 | - 85 | -119 | -103 | - 73 | - 33 | + 01 | + 27 | + 35 | + 51 | + 45 | + 55 | + 59 | + 47 | + 37 |
| March | + 07 | + 01 | + 07 | + 07 | + 07 | + 11 | + 19 | + 29 | - 03 | - 61 | -103 | -141 | -111 | - 67 | - 23 | + 31 | + 53 | + 61 | + 61 | + 53 | + 51 | + 47 | + 37 | + 15 |
| April | + 33 | + 23 | + 25 | + 21 | + 19 | + 29 | + 43 | + 57 | + 27 | - 53 | -113 | -187 | -203 | -165 | - 69 | + 17 | + 65 | + 69 | + 83 | + 89 | + 77 | + 63 | + 37 | + 15 |
| May | + 43 | + 33 | + 31 | + 33 | + 55 | + 45 | + 19 | - 09 | - 41 | -101 | -161 | -215 | -203 | -111 | - 23 | + 29 | + 57 | + 83 | +103 | + 97 | + 87 | + 69 | + 49 | + 37 |
| June | + 12 | + 10 | + 06 | + 28 | + 52 | + 58 | + 54 | + 34 | + 08 | - 60 | -130 | -182 | -158 | -114 | - 36 | + 14 | + 32 | + 58 | + 74 | + 74 | + 64 | + 54 | + 32 | + 10 |
| July | + 37 | + 27 | - 01 | + 09 | + 33 | + 41 | + 11 | - 03 | - 21 | - 67 | -119 | -157 | -165 | -111 | - 13 | + 29 | + 53 | + 89 | + 99 | + 81 | + 61 | + 39 | + 27 | + 23 |
| Aug. | + 12 | + 10 | + 16 | + 22 | + 56 | + 70 | + 64 | + 42 | + 22 | - 32 | - 82 | -154 | -178 | -150 | - 68 | + 18 | + 56 | + 72 | + 56 | + 46 | + 42 | + 20 | + 16 | + 18 |
| Sept. | + 33 | + 29 | + 23 | + 23 | + 27 | + 39 | + 51 | + 35 | + 07 | - 47 | -121 | -161 | -147 | -111 | - 55 | + 07 | + 35 | + 43 | + 43 | + 55 | + 57 | + 49 | + 41 | + 37 |
| Oct. | + 08 | + 02 | - 20 | - 06 | + 10 | + 16 | + 18 | + 34 | + 28 | - 12 | - 46 | - 70 | - 70 | - 42 | + 04 | + 42 | + 34 | + 30 | + 30 | + 22 | + 20 | + 02 | - 12 | - 10 |
| Nov. | - 03 | - 11 | - 15 | - 21 | - 15 | - 21 | - 15 | - 03 | + 13 | + 01 | - 21 | - 19 | - 05 | + 17 | + 01 | + 31 | + 23 | + 17 | + 09 | + 11 | + 13 | + 03 | - 07 | - 07 |
| Dec. | - 11 | - 07 | - 17 | - 13 | - 11 | - 13 | - 09 | + 01 | - 13 | - 17 | - 13 | - 07 | - 19 | - 13 | + 07 | + 19 | + 33 | + 25 | + 25 | + 21 | + 19 | + 11 | + 03 | - 07 |
| Year | + 16 | + 10 | + 04 | + 08 | + 18 | + 24 | + 22 | + 18 | + 02 | - 41 | - 84 | -120 | -115 | - 77 | - 22 | + 20 | + 39 | + 49 | + 55 | + 51 | + 47 | + 36 | + 23 | + 14 |
| Winter | + 02 | - 03 | - 10 | - 12 | - 10 | - 06 | - 05 | - 02 | - 01 | - 14 | - 33 | - 44 | - 38 | - 13 | + 07 | + 13 | + 22 | + 21 | + 29 | + 23 | + 27 | + 24 | + 12 | + 06 |
| Equinox | + 20 | + 14 | + 09 | + 11 | + 16 | + 24 | + 33 | + 39 | + 15 | - 43 | - 96 | -140 | -133 | - 96 | - 38 | + 24 | + 47 | + 51 | + 54 | + 55 | + 51 | + 40 | + 26 | + 14 |
| Summer | + 26 | + 20 | + 13 | + 23 | + 49 | + 54 | + 37 | + 16 | - 08 | - 65 | -123 | -177 | -176 | -122 | - 35 | + 23 | + 50 | + 76 | + 83 | + 75 | + 64 | + 46 | + 31 | + 22 |

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS - DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

| International Disturbed Days | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|------|-------------|--------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-------------|-------------|
| DECLINATION WEST (unit 0'.01) | | | | | | | | | | | | | | | | | | | | | | | | |
| Month and Season, 1939. | Universal Time. Hour commencing | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Jan. | -179 | -209 | -187 | -061 | -027 | -023 | +009 | -013 | +003 | +031 | +099 | +113 | +267 | +225 | +199 | +199 | +231 | +169 | -087 | -055 | -029 | -231 | -273 | -179 |
| Feb. | -747 | -975 | -645 | -439 | -243 | -007 | +145 | +313 | +135 | +169 | +307 | +389 | +551 | +629 | +509 | +407 | +383 | +507 | +381 | +373 | -003 | -713 | -705 | -713 |
| March | -508 | -400 | -138 | -180 | -248 | -262 | -016 | -128 | -188 | -058 | +146 | +396 | +710 | +896 | +834 | +804 | +428 | +152 | +088 | -288 | -326 | -640 | -546 | -540 |
| April | -428 | -164 | -042 | -178 | -430 | -456 | -470 | -704 | -570 | -268 | -034 | +440 | +776 | +994 | +1152 | +842 | +598 | +372 | +048 | -078 | -248 | -298 | -288 | -582 |
| May | -021 | -187 | -405 | -343 | -265 | -273 | -479 | -187 | -187 | -197 | +097 | +469 | +629 | +719 | +491 | +395 | +461 | +295 | +137 | -043 | -231 | -287 | -297 | -301 |
| June | -294 | -546 | -472 | -284 | -264 | -332 | -490 | -548 | -450 | -244 | +120 | +458 | +724 | +764 | +774 | +834 | +286 | +132 | +034 | +050 | -006 | +038 | +038 | -114 |
| July | -221 | -471 | -475 | -459 | -675 | -399 | -331 | -469 | -475 | -407 | -165 | +181 | +603 | +839 | +1067 | +1053 | +709 | +457 | +179 | +089 | -043 | -157 | -235 | -203 |
| Aug. | -101 | -249 | -369 | -745 | -711 | -323 | -479 | -293 | -359 | +021 | +311 | +645 | +793 | +993 | +939 | +693 | +399 | +009 | -143 | -363 | -227 | -289 | -125 | -021 |
| Sept. | -259 | -309 | -489 | -363 | -275 | -267 | -365 | -407 | -361 | -207 | +177 | +621 | +845 | +903 | +817 | +609 | +511 | +275 | +033 | -285 | -283 | -345 | -293 | -287 |
| Oct. | -233 | -107 | +055 | -119 | -301 | -169 | -273 | -251 | -417 | -003 | +089 | +419 | +769 | +865 | +919 | +683 | +505 | -039 | -175 | +041 | -595 | -353 | -679 | -621 |
| Nov. | -382 | -214 | -196 | +006 | -020 | +170 | +106 | +006 | -058 | -042 | +116 | +380 | +490 | +536 | +486 | +252 | +192 | -008 | +006 | -084 | -428 | -496 | -478 | -348 |
| Dec. | -330 | -198 | -108 | +048 | 000 | +024 | +170 | +128 | +074 | +152 | +246 | +376 | +450 | +476 | +360 | +236 | -024 | +234 | -014 | -196 | -420 | -692 | -680 | -302 |
| Year | -308 | -336 | -289 | -260 | -289 | -193 | -206 | -213 | -236 | -088 | +126 | +407 | +834 | +737 | +712 | +567 | +390 | +213 | +039 | -070 | -237 | -372 | -380 | -351 |
| Winter | -410 | -399 | -284 | -112 | -073 | +041 | +108 | +109 | +039 | +078 | +192 | +315 | +440 | +467 | +389 | +274 | +196 | +226 | +072 | +010 | -220 | -533 | -534 | -386 |
| Equinox | -357 | -245 | -154 | -210 | -314 | -289 | -281 | -373 | -379 | -134 | +095 | +469 | +775 | +915 | +931 | +735 | +511 | +190 | -007 | -153 | -363 | -409 | -452 | -508 |
| Summer | -159 | -363 | -430 | -458 | -479 | -332 | -445 | -374 | -368 | -207 | +091 | +438 | +687 | +829 | +818 | +694 | +464 | +223 | +052 | -067 | -127 | -174 | -155 | -160 |
| INCLINATION (unit 0'.01) | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +010 | -011 | -046 | -072 | -093 | -087 | -072 | -052 | -027 | +015 | +031 | +071 | +035 | +038 | +034 | +027 | +030 | +035 | +091 | +033 | +017 | -005 | +005 | 000 |
| Feb. | +013 | -048 | -096 | -111 | -145 | -152 | -172 | -143 | -204 | -171 | -108 | -093 | -036 | -001 | +008 | -021 | +061 | +081 | +135 | +211 | +356 | +224 | +215 | +206 |
| March | -049 | -059 | -118 | -110 | -137 | -107 | -156 | -074 | -023 | +064 | +096 | +126 | +089 | +084 | -011 | +001 | -019 | +029 | +041 | +020 | +114 | +086 | +079 | +027 |
| April | -083 | -051 | -178 | -103 | -087 | +030 | +118 | +190 | +096 | +119 | +149 | +190 | +151 | +076 | -046 | -117 | +018 | -035 | -316 | -295 | -063 | +097 | +063 | +075 |
| May | -144 | -130 | -086 | -110 | -082 | -085 | +036 | +014 | +030 | +097 | +163 | +141 | 000 | +034 | +136 | +019 | -015 | +007 | -002 | +026 | +002 | -012 | -027 | -011 |
| June | -250 | -246 | -199 | -164 | -124 | -102 | +010 | +138 | +269 | +305 | +240 | +147 | +075 | +122 | +091 | +080 | +081 | +016 | -035 | -081 | -071 | -089 | -121 | -089 |
| July | -242 | -172 | -178 | -186 | -161 | -131 | -088 | +026 | +104 | +237 | +306 | +307 | +253 | +240 | +178 | +011 | -108 | -121 | -121 | -033 | +021 | -048 | -035 | -067 |
| Aug. | -287 | -323 | -328 | -240 | -179 | -088 | +095 | +109 | +235 | +305 | +294 | +155 | +156 | +109 | +137 | -028 | +078 | +062 | +042 | -025 | -110 | -047 | -051 | -093 |
| Sept. | -168 | -244 | -247 | -245 | -279 | -158 | -085 | -029 | +039 | +137 | +183 | +184 | +124 | +155 | +103 | +103 | +113 | +137 | +109 | +021 | +039 | +041 | +011 | -033 |
| Oct. | -166 | -172 | -262 | -407 | -268 | -199 | -093 | -073 | +063 | +189 | +235 | +172 | +152 | +094 | +074 | +048 | -026 | -018 | +068 | +123 | +200 | +149 | +157 | -049 |
| Nov. | -024 | -086 | -107 | -150 | -214 | -179 | -156 | -111 | -065 | -008 | +074 | +164 | +130 | +100 | +124 | +109 | +095 | +080 | +053 | +024 | +030 | +075 | +039 | -004 |
| Dec. | -013 | -005 | -057 | -160 | -146 | -141 | -155 | -150 | -085 | -066 | -019 | -004 | +013 | +043 | +117 | +141 | +090 | +077 | +096 | +123 | +125 | +104 | +052 | +023 |
| Year | -117 | -129 | -159 | -172 | -160 | -215 | -060 | -013 | +036 | +102 | +137 | +130 | +095 | +091 | +079 | +031 | +033 | +029 | +013 | +012 | +055 | +048 | +032 | -001 |
| Winter | -004 | -038 | -077 | -123 | -150 | -140 | -139 | -114 | -095 | -058 | -006 | +035 | +036 | +045 | +071 | +064 | +069 | +068 | +094 | +098 | +132 | +100 | +078 | +056 |
| Equinox | -117 | -132 | -201 | -216 | -193 | -109 | -054 | +004 | +044 | +127 | +166 | +168 | +129 | +102 | +030 | +009 | +022 | +028 | -025 | -033 | +073 | +093 | +078 | +005 |
| Summer | -231 | -218 | -198 | -175 | -137 | -097 | +013 | +072 | +160 | +236 | +251 | +188 | +121 | +126 | +136 | +021 | +009 | -009 | -029 | -028 | -040 | -049 | -059 | -065 |
| HORIZONTAL INTENSITY (unit 0.1γ) | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | - 13 | + 17 | + 51 | + 83 | +111 | +107 | + 89 | + 61 | + 23 | - 29 | - 55 | -115 | - 59 | - 49 | - 41 | - 35 | - 29 | - 29 | - 99 | - 13 | - 01 | + 27 | - 03 | - 03 |
| Feb. | - 81 | - 45 | + 61 | +109 | +155 | +165 | +177 | +123 | +215 | +171 | + 95 | + 91 | + 21 | - 11 | + 25 | + 85 | - 13 | - 03 | - 49 | -105 | -333 | -237 | -321 | -301 |
| March | + 39 | + 37 | + 99 | + 65 | +111 | + 87 | +171 | + 57 | - 13 | -145 | -189 | -241 | -171 | -153 | + 43 | + 91 | +189 | +129 | + 99 | + 79 | -103 | - 81 | -131 | - 61 |
| April | + 48 | - 26 | +146 | + 68 | + 22 | -128 | -290 | -414 | -240 | -280 | -318 | -360 | -258 | - 98 | +200 | +460 | +234 | +310 | +680 | +578 | + 92 | -180 | - 78 | -166 |
| May | +128 | + 64 | - 02 | + 72 | + 50 | + 58 | -120 | - 86 | -102 | -208 | -324 | -288 | - 56 | - 38 | -102 | +128 | +220 | +190 | +178 | +112 | +100 | + 54 | + 22 | - 44 |
| June | +326 | +302 | +218 | +174 | +106 | + 80 | - 78 | -260 | -456 | -522 | -400 | -270 | -134 | -158 | - 58 | + 04 | + 24 | +108 | +156 | +194 | +164 | +166 | +188 | +120 |
| July | +290 | +188 | +210 | +210 | +166 | +108 | + 20 | -144 | -280 | -458 | -566 | -554 | -430 | -330 | -156 | +146 | +370 | +386 | +366 | +172 | + 52 | +100 | + 30 | + 92 |
| Aug. | +275 | +325 | +259 | + 53 | + 41 | - 59 | -241 | -227 | -405 | -491 | -463 | -249 | -213 | - 83 | - 35 | +349 | +215 | +193 | +155 | +207 | +225 | + 99 | + 29 | + 43 |
| Sept. | +211 | +313 | +297 | +271 | +315 | +163 | + 69 | - 01 | -113 | -259 | -351 | -343 | -241 | -259 | -143 | - 71 | - 27 | - 23 | - 01 | + 85 | + 13 | - 01 | + 27 | + 59 |
| Oct. | +188 | +168 | +232 | +378 | +178 | +152 | + 56 | + 66 | -122 | -306 | -364 | -254 | -210 | - 82 | - 30 | + 28 | +170 | +192 | + 58 | + 24 | -122 | -146 | -228 | + 36 |
| Nov. | + 26 | + 90 | +108 | +176 | +258 | +208 | +172 | +122 | + 70 | - 20 | -140 | -248 | -180 | -114 | -124 | -100 | - 76 | - 62 | - 22 | + 22 | - 10 | - 84 | - 54 | - 04 |
| Dec. | + 04 | - 14 | + 50 | +166 | +140 | +146 | +178 | +180 | + 94 | + 66 | - 06 | - 18 | - 26 | - 56 | -146 | -158 | - 62 | - 52 | - 70 | -104 | -114 | -104 | - 62 | - 32 |
| Year | +120 | +118 | +144 | +152 | +138 | + 91 | + 17 | - 44 | -109 | -207 | -256 | -237 | -163 | -119 | - 47 | + 77 | +101 | +112 | +121 | + 99 | - 03 | - 32 | - 48 | - 22 |
| Winter | - 16 | + 12 | + 68 | +134 | +166 | +157 | +154 | +122 | +101 | + 47 | - 27 | - 73 | - 61 | - 58 | - 72 | - 52 | - 45 | - 37 | - 60 | - 53 | -115 | -100 | -110 | - 85 |
| Equinox | +122 | +123 | +194 | +196 | +157 | + 68 | + 02 | - 73 | -122 | -248 | -305 | -300 | -220 | -146 | + 18 | +127 | +142 | +152 | +209 | +180 | - 30 | -102 | -103 | - 33 |
| Summer | +255 | +220 | +171 | +127 | + 91 | + 47 | -104 | -179 | -306 | -420 | -438 | -340 | -208 | -152 | - 87 | +157 | +207 | +219 | +214 | +171 | +135 | +105 | + 67 | + 53 |

TABLE VII. - MEAN DIURNAL INEQUALITIES OF GEOGRAPHICAL COMPONENTS OF MAGNETIC INTENSITY

| International Disturbed Days | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| NORTH COMPONENT (unit 0.1Y) | | | | | | | | | | | | | | | | | | | | | | | | |
| Month and Season, 1939. | Universal Time. Hour commencing - | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Jan. | + 05 | + 38 | + 69 | + 88 | +112 | +108 | + 87 | + 61 | + 22 | - 32 | - 64 | -124 | - 85 | - 71 | - 60 | - 54 | - 52 | - 46 | - 89 | - 07 | + 02 | + 50 | + 25 | + 15 |
| Feb. | - 05 | + 54 | +125 | +151 | +177 | +163 | +159 | + 89 | +198 | +151 | + 63 | + 50 | - 35 | - 74 | - 27 | + 43 | - 51 | - 54 | - 87 | -141 | -327 | -161 | -245 | -224 |
| March | + 89 | + 77 | +111 | + 82 | +134 | +112 | +170 | + 69 | + 04 | -137 | -201 | -277 | -240 | -240 | - 42 | + 09 | +143 | +112 | + 91 | +107 | - 68 | - 15 | - 74 | - 06 |
| April | + 90 | - 09 | +148 | + 85 | + 65 | - 80 | -238 | -336 | -179 | -248 | -307 | -398 | -332 | -196 | + 81 | +368 | +170 | +267 | +664 | +576 | +115 | -147 | - 48 | -105 |
| May | +128 | + 82 | + 39 | +105 | + 76 | + 84 | - 70 | - 66 | - 82 | -185 | -328 | -330 | -118 | -110 | -150 | + 86 | +170 | +157 | +161 | +114 | +122 | + 82 | + 51 | - 13 |
| June | +350 | +352 | +262 | +200 | +131 | +112 | - 26 | -201 | -403 | -489 | -405 | -311 | -205 | -232 | -133 | - 60 | - 05 | + 93 | +150 | +186 | +162 | +159 | +181 | +130 |
| July | +307 | +232 | +254 | +253 | +231 | +146 | + 53 | - 95 | -208 | -409 | -540 | -563 | -483 | -409 | -261 | + 38 | +292 | +334 | +342 | +160 | + 55 | +114 | + 53 | +111 |
| Aug. | +281 | +345 | +292 | +127 | +112 | - 26 | -189 | -194 | -362 | -485 | -486 | -310 | -289 | -181 | -129 | +274 | +171 | +189 | +167 | +240 | +244 | +126 | + 41 | + 44 |
| Sept. | +233 | +339 | +341 | +303 | +337 | +187 | +105 | + 40 | - 75 | -234 | -363 | -400 | -322 | -345 | -223 | -131 | - 78 | - 50 | - 04 | +112 | + 41 | + 34 | + 56 | + 87 |
| Oct. | +208 | +176 | +223 | +384 | +205 | +166 | + 82 | + 90 | - 78 | -301 | -367 | -292 | -284 | -168 | -122 | - 43 | +116 | +193 | + 75 | - 28 | - 60 | -108 | -156 | + 98 |
| Nov. | + 64 | +110 | +126 | +172 | +256 | +187 | +158 | +119 | + 75 | - 16 | -149 | -282 | -226 | -166 | -171 | -124 | - 94 | - 60 | - 22 | + 20 | + 33 | - 33 | - 05 | + 31 |
| Dec. | + 37 | + 06 | + 60 | +158 | +138 | +141 | +158 | +164 | + 85 | + 50 | - 31 | - 56 | - 71 | -103 | -180 | -179 | - 59 | - 75 | - 67 | - 83 | - 70 | - 33 | + 07 | - 01 |
| Year | +149 | +150 | +171 | +176 | +165 | +108 | + 37 | - 22 | - 84 | -195 | -265 | -274 | -224 | -191 | -118 | + 19 | + 60 | + 88 | +115 | +105 | + 21 | + 06 | - 10 | + 14 |
| Winter | + 25 | + 52 | + 95 | +142 | +171 | +150 | +141 | +108 | + 95 | + 38 | - 45 | -103 | -104 | -104 | -110 | - 79 | - 64 | - 59 | - 66 | - 53 | - 91 | - 44 | - 55 | - 45 |
| Equinox | +155 | +146 | +206 | +214 | +185 | + 96 | + 30 | - 34 | - 82 | -230 | -310 | -342 | -295 | -237 | - 77 | + 51 | + 88 | +131 | +207 | +192 | + 07 | - 59 | - 56 | + 19 |
| Summer | +267 | +253 | +212 | +171 | +138 | + 79 | - 58 | -139 | -264 | -392 | -440 | -379 | -274 | -233 | -168 | + 85 | +157 | +193 | +205 | +175 | +146 | +120 | + 82 | + 68 |
| WEST COMPONENT (unit 0.1Y) | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | - 97 | -107 | - 90 | - 17 | + 07 | + 08 | + 21 | + 05 | + 06 | + 11 | + 42 | + 38 | +130 | +110 | + 98 | + 99 | +117 | + 84 | - 65 | - 32 | - 16 | -117 | -145 | - 95 |
| Feb. | -411 | -525 | -330 | -212 | -100 | + 27 | +110 | +189 | +112 | +122 | +180 | +223 | +296 | +331 | +274 | +231 | +200 | +268 | +193 | +178 | - 64 | -422 | -433 | -434 |
| March | -262 | -206 | - 55 | - 83 | -111 | -122 | + 24 | - 57 | - 91 | - 58 | + 42 | +165 | +344 | +446 | +450 | +443 | +262 | +105 | + 55 | -138 | -192 | -354 | -314 | -297 |
| April | -217 | - 82 | + 05 | - 82 | -224 | -265 | -303 | -450 | -347 | -194 | - 77 | +166 | +363 | +508 | +647 | +532 | +360 | +255 | +153 | + 67 | -114 | -192 | -167 | -339 |
| May | + 13 | - 87 | -215 | -168 | -131 | -134 | -276 | -115 | -118 | -143 | - 09 | +194 | +323 | +374 | +241 | +233 | +285 | +192 | +106 | - 02 | -104 | -142 | -153 | -166 |
| June | - 95 | -233 | -209 | -118 | -121 | -161 | -274 | -339 | -324 | -227 | - 11 | +192 | +358 | +375 | +399 | +336 | +156 | + 90 | + 47 | + 63 | + 28 | + 51 | + 55 | - 38 |
| July | - 63 | -214 | -212 | -204 | -326 | -191 | -172 | -275 | -300 | -301 | -193 | - 08 | +238 | +383 | +536 | +585 | +445 | +314 | +163 | + 79 | - 13 | - 64 | -119 | - 90 |
| Aug. | - 02 | - 71 | -147 | -385 | -369 | -182 | -299 | -198 | -266 | - 81 | + 78 | +294 | +380 | +510 | +491 | +432 | +251 | + 41 | - 47 | -154 | - 78 | -135 | - 61 | - 03 |
| Sept. | - 98 | -105 | -203 | -142 | - 87 | -111 | -180 | -216 | -212 | -158 | + 28 | +265 | +402 | +429 | +406 | +309 | +266 | +141 | + 17 | -135 | -147 | -183 | -150 | -141 |
| Oct. | - 88 | - 25 | + 73 | + 08 | -126 | - 61 | -134 | -121 | -244 | - 59 | - 21 | +174 | +368 | +443 | +481 | +367 | +299 | + 15 | - 82 | + 17 | -338 | -214 | -402 | -322 |
| Nov. | -197 | - 97 | - 84 | + 36 | + 38 | +129 | + 88 | + 26 | - 18 | - 26 | + 35 | +155 | +226 | +263 | +234 | +115 | + 87 | - 16 | - 01 | - 42 | -229 | -278 | -263 | -185 |
| Dec. | -174 | -107 | - 48 | + 56 | + 26 | + 40 | +123 | +102 | + 57 | + 93 | +129 | +196 | +233 | +242 | +163 | + 95 | - 24 | +114 | - 21 | -123 | -244 | -386 | -372 | -166 |
| Year | -141 | -155 | -126 | -109 | -127 | - 85 | -106 | -121 | -145 | - 85 | + 19 | +171 | +305 | +368 | +368 | +315 | +225 | +134 | + 43 | - 19 | -126 | -203 | -210 | -190 |
| Winter | -220 | -209 | -138 | - 34 | - 07 | + 51 | + 86 | + 81 | + 39 | + 50 | + 97 | +153 | +221 | +237 | +192 | +135 | + 95 | +113 | + 27 | - 05 | -138 | -301 | -303 | -220 |
| Equinox | -166 | -104 | - 45 | - 75 | -137 | -140 | -148 | -211 | -224 | -117 | - 07 | +193 | +369 | +457 | +497 | +413 | +297 | +129 | + 36 | - 47 | -198 | -236 | -258 | -275 |
| Summer | - 37 | -151 | -196 | -219 | -237 | -167 | -255 | -232 | -252 | -188 | - 34 | +168 | +325 | +411 | +417 | +397 | +284 | +159 | + 67 | - 04 | - 42 | - 73 | - 70 | - 75 |
| VERTICAL COMPONENT (unit 0.1Y) | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | + 04 | 00 | - 42 | - 56 | - 64 | - 52 | - 40 | - 38 | - 42 | - 16 | - 20 | - 20 | - 18 | + 16 | + 22 | + 10 | + 34 | + 52 | + 82 | + 84 | + 56 | + 44 | + 10 | - 06 |
| Feb. | -145 | -269 | -191 | -131 | -141 | -143 | -185 | -209 | -203 | -193 | -153 | -111 | - 77 | - 27 | + 85 | +123 | +179 | +273 | +353 | +483 | +457 | +221 | - 03 | + 09 |
| March | - 81 | -119 | -175 | -227 | -215 | -167 | -141 | -123 | -111 | -117 | -107 | -123 | - 89 | - 65 | + 63 | +213 | +373 | +401 | +375 | +251 | +155 | +107 | - 31 | - 49 |
| April | -177 | -235 | -277 | -197 | -249 | -195 | -265 | -309 | -227 | -239 | -221 | -179 | - 79 | + 35 | +309 | +667 | +605 | +601 | +493 | +325 | - 05 | - 83 | + 39 | -127 |
| May | -200 | -300 | -300 | -214 | -166 | -160 | -154 | -152 | -134 | -148 | -192 | -182 | -130 | + 26 | +232 | +362 | +460 | +466 | +408 | +350 | +238 | + 82 | - 42 | -142 |
| June | -106 | -148 | -180 | -164 | -182 | -166 | -142 | -128 | -132 | -158 | -102 | -120 | - 52 | + 54 | +184 | +288 | +334 | +308 | +242 | +174 | +134 | + 76 | + 22 | - 28 |
| July | -161 | -157 | -129 | -155 | -171 | -199 | -259 | -245 | -245 | -247 | -261 | -229 | -123 | + 61 | +251 | +377 | +489 | +481 | +433 | +287 | +193 | + 65 | - 53 | - 15 |
| Aug. | -352 | -360 | -534 | -706 | -522 | -372 | -232 | -152 | -130 | - 86 | - 64 | - 46 | + 46 | +182 | +392 | +716 | +770 | +666 | +504 | +396 | +142 | + 66 | -108 | -222 |
| Sept. | - 89 | -115 | -161 | -219 | -233 | -167 | -135 | -105 | -127 | -129 | -185 | -161 | -131 | - 65 | + 23 | +189 | +327 | +423 | +373 | +269 | +165 | +137 | + 99 | + 25 |
| Oct. | -135 | -203 | -367 | -529 | -513 | -337 | -191 | -101 | - 67 | - 59 | - 33 | + 03 | + 39 | +135 | +187 | +225 | +303 | +383 | +371 | +369 | +409 | +175 | + 15 | - 87 |
| Nov. | - 25 | - 85 | -119 | -111 | -437 | -135 | -139 | -101 | - 61 | - 71 | - 69 | - 09 | + 31 | + 81 | +143 | +145 | +151 | +133 | +131 | +111 | + 79 | + 63 | + 11 | - 23 |
| Dec. | - 35 | - 47 | - 81 | -165 | -179 | -149 | -121 | - 99 | - 77 | - 75 | - 79 | - 55 | - 15 | + 17 | + 65 | +121 | +167 | +145 | +171 | +181 | +167 | +117 | + 33 | + 01 |
| Year | -125 | -170 | -213 | -240 | -231 | -187 | -167 | -147 | -130 | -128 | -124 | -103 | - 50 | + 38 | +163 | +286 | +349 | +361 | +328 | +273 | +183 | + 90 | - 01 | - 55 |
| Winter | - 50 | -100 | -108 | -118 | -130 | -120 | -121 | -112 | - 96 | - 89 | - 80 | - 49 | - 20 | + 22 | + 79 | +100 | +133 | +151 | +184 | +215 | +190 | +111 | + 13 | - 05 |
| Equinox | -121 | -168 | -245 | -293 | -303 | -217 | -183 | -160 | -133 | -136 | -137 | -115 | - 65 | + 10 | +146 | +324 | +402 | +452 | +403 | +304 | +181 | + 84 | + 31 | - 60 |
| Summer | -205 | -241 | -286 | -310 | -260 | -224 | -197 | -169 | -160 | -160 | -155 | -144 | - 65 | + 81 | +265 | +436 | +513 | +480 | +397 | +302 | +177 | + 73 | - 45 | -102 |

TABLE VIII. - HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC INTENSITY

Values of a_n, b_n , in the Series $\Sigma (a_n \cos nt + b_n \sin nt)$, t being reckoned in hours from 0^h U.T. and converted into arc at the rate of 15° to each hour.

Table with 3 main columns: NORTH COMPONENT, WEST COMPONENT, and VERTICAL COMPONENT. Each column has 8 sub-columns (a1, b1, a2, b2, a3, b3, a4, b4). Rows include months from Jan to Dec 1939, Year, Winter, Equinox, and Summer for three categories: All Days, International Quiet Days, and International Disturbed Days.

TABLE IX. - HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC INTENSITY

Values of c_n, α_n , in the series $\Sigma c_n \sin (\pi T + \alpha_n)$, T being reckoned in hours from Midnight, Abinger Local Mean Time, and converted into arc at the rate of 15° to each hour. New phase-angles expressing the inequalities relative to Apparent Local Time may be obtained from the tabulated angles by applying corrections $\alpha, 2\alpha, 3\alpha, 4\alpha$, respectively, where α has the following values.

Summary table of phase-angle corrections alpha for various months: January +2 19, February +3 28, March +2 12, April +0 4, May -0 51, June +0 5, July +1 22, August +0 59, September -1 12, October +3 28, November -3 42, December -1 6, Winter +0 12, Equinox -0 36, Summer +0 24.

Table with 3 main columns: NORTH COMPONENT, WEST COMPONENT, and VERTICAL COMPONENT. Each column has 8 sub-columns (c1, alpha1, c2, alpha2, c3, alpha3, c4, alpha4). Rows include months from Jan to Dec 1939, Year, Winter, Equinox, and Summer for three categories: All Days, International Quiet Days, and International Disturbed Days.

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1939.

| Month and Season | 'All' Days | | | Quiet Days | | | Disturbed Days | | | 'All' Days | | | Quiet Days | | | Disturbed Days | | |
|------------------|------------|------|------|------------|------|------|----------------|------|-------|------------|------|------|------------|------|------|----------------|-------|-------|
| | D | I | H | D | I | H | D | I | H | X | Y | Z | X | Y | Z | X | Y | Z |
| | | | Y | | | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| January | 4°35 | 1°39 | 20°8 | 3°88 | 1°62 | 24°8 | 5°40 | 1°84 | 22°6 | 22°3 | 21°9 | 8°3 | 26°3 | 18°0 | 5°8 | 23°6 | 27°5 | 14°8 |
| February | 7°25 | 1°71 | 16°5 | 4°80 | 0°66 | 11°8 | 16°04 | 5°60 | 54°8 | 18°4 | 37°9 | 24°2 | 15°0 | 24°3 | 17°8 | 52°5 | 85°6 | 75°2 |
| March | 9°38 | 1°53 | 26°3 | 8°30 | 1°38 | 27°2 | 15°36 | 2°82 | 43°0 | 30°1 | 46°8 | 29°8 | 30°5 | 42°6 | 20°2 | 44°7 | 80°4 | 62°8 |
| April | 12°57 | 2°49 | 53°3 | 11°84 | 2°33 | 43°6 | 18°56 | 5°06 | 109°4 | 56°3 | 67°2 | 43°4 | 43°4 | 60°9 | 29°2 | 106°2 | 109°7 | 97°6 |
| May | 11°93 | 1°98 | 45°4 | 9°88 | 1°76 | 35°2 | 11°98 | 3°07 | 54°4 | 44°4 | 62°4 | 46°1 | 39°1 | 49°2 | 31°8 | 50°0 | 65°0 | 76°6 |
| June | 12°62 | 2°70 | 51°8 | 11°64 | 2°51 | 47°8 | 13°22 | 5°55 | 84°8 | 51°0 | 69°9 | 35°4 | 49°2 | 61°9 | 25°6 | 84°1 | 73°8 | 51°6 |
| July | 11°35 | 2°39 | 51°1 | 12°38 | 2°50 | 43°8 | 17°42 | 5°49 | 95°2 | 49°9 | 60°9 | 39°2 | 42°8 | 65°1 | 26°4 | 90°5 | 91°1 | 74°8 |
| August | 13°36 | 2°91 | 50°4 | 13°28 | 2°63 | 44°4 | 17°38 | 6°33 | 84°0 | 51°2 | 70°9 | 33°2 | 43°7 | 70°9 | 25°0 | 83°1 | 89°5 | 147°6 |
| September | 12°90 | 2°37 | 42°4 | 11°70 | 2°30 | 41°2 | 13°92 | 4°63 | 66°6 | 44°3 | 68°0 | 29°6 | 41°9 | 63°2 | 21°8 | 74°1 | 64°5 | 65°6 |
| October | 10°62 | 3°26 | 45°5 | 9°54 | 2°83 | 44°6 | 15°98 | 6°42 | 74°2 | 47°0 | 54°5 | 30°0 | 47°2 | 48°1 | 11°2 | 75°1 | 88°3 | 93°8 |
| November | 6°02 | 1°83 | 27°2 | 5°42 | 1°47 | 21°6 | 10°32 | 3°78 | 50°6 | 29°2 | 29°9 | 10°6 | 24°4 | 27°6 | 5°2 | 53°8 | 54°1 | 29°0 |
| December | 5°81 | 1°15 | 15°3 | 3°30 | 0°98 | 16°0 | 11°68 | 3°01 | 33°8 | 17°0 | 30°4 | 12°9 | 16°4 | 17°5 | 5°2 | 34°4 | 62°8 | 36°0 |
| Year | 9°86 | 2°14 | 37°2 | 8°83 | 1°91 | 33°5 | 13°94 | 4°47 | 64°5 | 38°4 | 51°7 | 28°6 | 35°0 | 45°8 | 18°8 | 64°3 | 74°4 | 68°8 |
| Winter | 5°85 | 1°52 | 20°0 | 4°35 | 1°18 | 18°6 | 10°86 | 3°56 | 40°5 | 21°7 | 30°0 | 14°0 | 20°5 | 21°9 | 8°5 | 41°1 | 57°5 | 38°8 |
| Equinox | 11°37 | 2°41 | 41°9 | 10°35 | 2°21 | 39°2 | 15°96 | 4°73 | 73°3 | 44°4 | 59°1 | 33°2 | 40°8 | 53°7 | 20°6 | 75°0 | 85°7 | 80°0 |
| Summer | 12°37 | 2°50 | 49°7 | 11°80 | 2°35 | 42°8 | 15°00 | 5°11 | 79°6 | 49°1 | 66°0 | 38°5 | 43°7 | 61°8 | 27°2 | 76°9 | 79°9 | 87°7 |

TABLE XI. - NON-CYCLIC CHANGE (24^h minus 0^h)

| Month, 1939. | 'All' Days | | | Quiet Days | | | Disturbed Days | | |
|--------------|------------------|----------------------|--------------------|------------------|----------------------|--------------------|------------------|----------------------|--------------------|
| | Declination West | Horizontal Intensity | Vertical Intensity | Declination West | Horizontal Intensity | Vertical Intensity | Declination West | Horizontal Intensity | Vertical Intensity |
| | | Y | Y | | Y | Y | | Y | Y |
| January | +0°01 | +0°2 | -0°1 | +0°64 | +6°0 | -1°8 | -0°54 | -1°4 | -1°8 |
| February | -0°13 | -1°1 | +1°0 | +0°16 | +5°0 | +0°8 | -1°34 | -25°8 | +12°4 |
| March | -0°18 | +0°5 | -0°7 | +0°02 | +5°6 | -1°0 | 0°00 | -8°4 | -0°4 |
| April | +0°23 | +0°1 | +0°6 | +0°50 | +9°0 | -2°6 | -0°80 | -20°8 | -1°2 |
| May | -0°39 | +0°7 | -0°1 | -0°12 | +5°4 | -1°0 | -1°30 | -13°2 | -1°6 |
| June | -0°03 | -0°0 | -0°2 | -0°12 | +0°8 | -0°2 | +0°20 | -24°6 | +4°0 |
| July | -0°12 | +0°1 | +0°1 | -0°04 | +8°8 | -1°8 | -0°20 | -20°4 | +8°8 |
| August | -0°03 | -0°2 | +0°2 | +0°18 | +0°8 | -0°6 | +0°88 | -21°0 | +1°0 |
| September | -0°20 | -1°0 | +0°5 | -0°72 | +3°4 | +0°2 | -0°08 | -17°0 | +7°6 |
| October | +0°18 | +0°6 | -0°2 | +1°34 | +7°8 | -3°4 | -0°30 | -17°0 | +4°8 |
| November | -0°09 | -0°1 | -0°1 | +0°20 | +3°8 | -1°0 | +1°10 | +1°2 | -3°2 |
| December | +0°04 | +0°2 | +0°1 | -0°44 | +2°8 | -0°6 | +1°68 | +2°2 | -1°4 |
| Year 1939 | ... | .. | .. | +0°14 | +4°9 | -1°1 | -0°06 | -13°9 | +2°4 |

TABLE XII. - MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS AT THE ABINGER MAGNETIC STATION.

| Month, 1939. | Declination West | Inclination | Intensity | | | | |
|--------------|------------------|-------------|------------|--------|--------|----------|--------|
| | | | Horizontal | North | West | Vertical | Total |
| | ° | ° | | | | | |
| January | 10 56°7 | 66 42°5 | •18536 | •18199 | •03519 | •43057 | •46878 |
| February | 10 55°6 | 66 43°8 | •18521 | •18184 | •03511 | •43065 | •46879 |
| March | 10 54°6 | 66 43°6 | •18524 | •18189 | •03506 | •43066 | •46882 |
| April | 10 53°5 | 66 44°1 | •18519 | •18185 | •03499 | •43072 | •46885 |
| May | 10 52°8 | 66 43°4 | •18528 | •18195 | •03497 | •43071 | •46886 |
| June | 10 52°5 | 66 42°7 | •18539 | •18206 | •03498 | •43070 | •46892 |
| July | 10 52°0 | 66 43°1 | •18534 | •18202 | •03494 | •43073 | •46892 |
| August | 10 50°7 | 66 43°6 | •18527 | •18196 | •03486 | •43075 | •46890 |
| September | 10 49°7 | 66 43°7 | •18527 | •18197 | •03481 | •43078 | •46893 |
| October | 10 48°6 | 66 44°9 | •18514 | •18185 | •03472 | •43088 | •46898 |
| November | 10 48°5 | 66 43°6 | •18532 | •18203 | •03475 | •43086 | •46902 |
| December | 10 47°8 | 66 43°5 | •18534 | •18206 | •03472 | •43088 | •46905 |
| Year 1939 | 10 51°9 | 66 43°5 | •18528 | •18196 | •03492 | •43074 | •46890 |

TABLE XIII. - DAILY MEAN VALUE OF THE BASE- LINE OF THE DECLINATION MAGNETOGRAMS AT ABINGER MAGNETIC STATION

| Day | January | February | March | April | May | June | July | August | September | October | November | December |
|-----|---------|-----------------------------------|-----------------------------------|-----------------------------------|---------|---------|---------|---------|-----------|---------|----------|----------|
| 1 | 10 39°4 | 10 39°5 | 10 36°6 | 10 36°9 | 10 36°6 | 10 36°4 | 10 36°4 | 10 35°8 | 10 35°5 | 10 36°2 | 10 35°9 | 10 36°4 |
| 2 | 39°2 | 39°5 | 36°6 | 36°6 | 36°4 | 36°4 | 36°6 | 35°7 | 35°3 | 36°1 | 36°1 | 36°5 |
| 3 | 39°3 | 39°4 | 36°4 | 36°7 | 36°5 | 36°4 | 36°8 | 35°7 | 35°3 | 36°1 | 36°1 | 36°5 |
| 4 | 39°3 | 39°4 | 36°7 | 36°6 | 36°2 | 36°2 | 36°5 | 36°1 | 35°4 | 36°1 | 36°0 | 36°5 |
| 5 | 39°3 | 39°5 | 36°8 | 36°7 | 36°2 | 36°2 | 36°7 | 36°1 | 35°2 | 36°0 | 36°0 | 36°3 |
| 6 | 39°4 | 39°6 | 36°3 | 36°7 | 36°2 | 36°4 | 36°6 | 36°2 | 35°3 | 36°0 | 36°1 | 36°3 |
| 7 | 39°2 | 39°7 | 36°3 | 36°7 | 36°3 | 36°5 | 36°6 | 36°3 | 35°5 | 35°9 | 36°1 | 36°4 |
| 8 | 39°4 | 39°3 | 36°3 | 36°7 | 36°7 | 36°4 | 36°2 | 36°2 | 35°3 | 36°0 | 36°0 | 36°3 |
| 9 | 39°3 | 39°5 | 36°3 | 36°6 | 36°8 | 36°3 | - | 36°2 | 35°4 | 36°0 | 36°1 | 36°3 |
| 10 | 39°3 | 39°6 | 36°3 | 36°6 | 36°7 | 36°2 | 36°4 | 36°2 | 35°3 | 35°9 | 36°1 | 36°3 |
| 11 | 39°3 | 39°5 | $\frac{36^{\circ}3}{37^{\circ}2}$ | 36°7 | 36°6 | 36°4 | 36°4 | 36°3 | 35°4 | 36°0 | 36°0 | 36°3 |
| 12 | 39°5 | 39°6 | 37°5 | 36°6 | 36°5 | 36°3 | 36°4 | 36°3 | 35°4 | 36°0 | 36°1 | 36°3 |
| 13 | 39°4 | 39°5 | 37°5 | 36°4 | 36°5 | 36°2 | 36°3 | 36°3 | 35°4 | 35°9 | 36°1 | 36°3 |
| 14 | 39°4 | 39°4 | 37°6 | 36°5 | 36°6 | 36°6 | 36°0 | 36°4 | 35°4 | 36°1 | 36°1 | 36°3 |
| 15 | 39°6 | 39°4 | 37°4 | 36°6 | 36°6 | 36°2 | 36°0 | 36°4 | 35°4 | 36°1 | 36°1 | 36°3 |
| 16 | 39°4 | 39°5 | 37°7 | 36°8 | 36°6 | 36°2 | 36°1 | 36°3 | 35°5 | 36°1 | 36°0 | 36°3 |
| 17 | 39°7 | <u>39°5</u> | 38°1 | 36°9 | 36°6 | 36°1 | 36°1 | 36°1 | 35°4 | 36°1 | 36°0 | 36°2 |
| 18 | 39°6 | 37°6 | $\frac{38^{\circ}1}{37^{\circ}0}$ | 36°8 | 36°5 | 36°2 | 36°1 | 35°9 | 35°5 | 36°2 | 35°7 | 36°0 |
| 19 | 39°5 | 38°1 | 37°0 | 36°8 | 36°5 | 36°2 | 36°1 | 35°8 | 35°5 | 36°2 | 35°9 | 36°0 |
| 20 | 39°4 | $\frac{37^{\circ}7}{36^{\circ}6}$ | 36°9 | 36°9 | 36°5 | 36°5 | 36°0 | 35°8 | 35°5 | 36°0 | 35°8 | 36°1 |
| 21 | 39°7 | 36°5 | 36°9 | $\frac{36^{\circ}8}{36^{\circ}2}$ | 36°4 | 36°6 | 36°1 | 35°9 | 35°3 | 36°0 | 35°8 | 36°1 |
| 22 | 39°5 | 36°6 | 36°7 | 36°3 | 36°5 | 36°6 | 36°0 | 36°1 | 35°4 | 36°0 | 36°0 | 36°1 |
| 23 | 39°6 | 36°4 | 36°8 | 36°6 | 36°6 | 36°4 | 35°9 | 36°1 | 35°3 | 36°0 | 36°5 | 36°1 |
| 24 | 39°4 | 36°6 | 36°7 | 36°5 | 36°5 | 36°7 | 35°9 | 35°8 | 35°3 | 36°0 | 36°3 | 36°1 |
| 25 | 39°3 | 36°6 | 36°6 | 36°5 | 36°6 | 36°7 | 35°8 | 35°4 | 35°4 | 36°0 | 36°3 | 36°1 |
| 26 | 39°5 | 36°4 | 36°6 | 36°4 | 36°7 | 36°6 | 36°1 | 35°6 | 35°5 | 36°0 | 36°4 | 36°1 |
| 27 | 39°5 | 36°6 | 36°5 | 36°4 | 36°5 | 36°7 | 35°9 | 35°6 | 35°4 | 36°0 | 36°4 | 36°0 |
| 28 | 39°5 | 36°5 | 36°6 | 36°3 | 36°8 | 36°6 | 35°9 | 35°7 | 35°3 | 36°0 | 36°3 | 36°0 |
| 29 | 39°3 | - | 36°6 | 36°2 | 36°8 | 36°6 | 35°6 | 35°6 | 35°4 | 36°0 | 36°4 | 35°9 |
| 30 | 39°5 | - | 36°7 | 36°2 | 36°6 | 36°6 | 35°7 | 35°5 | 36°0 | 36°0 | 36°4 | 35°6 |
| 31 | 39°5 | - | 36°6 | - | 36°5 | - | 35°7 | 35°5 | - | 36°0 | - | 35°7 |

June 5. Control temperature raised from 16°0 to 21°0 C.

TABLE XIV (A). - RESULTS OF THE DETERMINATIONS OF THE ABSOLUTE VALUE OF HORIZONTAL INTENSITY FROM OBSERVATIONS MADE WITH THE UNIFILAR MAGNETOMETER CASELLA 181 AT ABINGER, WITH THE DEDUCED VALUES OF THE BASE-LINE OF THE HORIZONTAL INTENSITY MAGNETOGRAMS

| Universal Time | | Observed Horizontal Intensity | Deduced Value of Base Line | Universal Time | | Observed Horizontal Intensity | Deduced Value of Base Line | Universal Time | | Observed Horizontal Intensity | Deduced Value of Base Line |
|----------------|---------------|-------------------------------|----------------------------|----------------|---------------|-------------------------------|----------------------------|----------------|---------------|-------------------------------|----------------------------|
| h | m | Y | Y | h | m | Y | Y | h | m | Y | Y |
| Jan. 17 | 11 39 - 12 42 | 18497 | 18458 | April 1 | 11 34 - 12 32 | 18484 | 18366 | June 2 | 10 8 - 10 56 | 18514 | 18367 |
| 20 | 10 4 - 10 53 | 18513 | 18451 | 5 | 11 35 - 12 45 | 18497 | 18373 | 6 | 10 11 - 11 0 | 18506 | 18371 |
| | | | | 6 | 11 35 - 12 51 | 18515 | 18372 | 7 | 10 16 - 11 9 | 18516 | 18370 |
| | | | | 12 | 11 34 - 12 54 | 18495 | 18371 | 9 | 10 15 - 11 1 | 18525 | 18367 |
| Feb. 21 | 11 53 - 12 54 | 18527 | 18370 | 13 | 15 26 - 16 19 | 18530 | 18371 | 10 | 10 12 - 10 58 | 18540 | 18369 |
| 22 | 11 42 - 12 43 | 18533 | 18370 | 14 | 11 7 - 12 2 | 18512 | 18372 | 13 | 10 9 - 10 56 | 18534 | 18370 |
| 23 | 11 35 - 12 36 | 18529 | 18374 | 15 | 11 31 - 12 31 | 18512 | 18367 | 15 | 14 54 - 15 52 | 18530 | 18368 |
| 24 | 15 38 - 16 36 | 18503 | 18368 | 18 | 9 59 - 10 51 | 18469 | 18371 | 17 | 10 10 - 10 57 | 18498 | 18363 |
| 25 | 11 50 - 12 44 | 18428 | 18374 | 19 | 10 3 - 10 52 | 18490 | 18373 | 22 | 9 37 - 10 53 | 18511 | 18367 |
| 28 | 14 44 - 16 0 | 18531 | 18373 | 21 | 9 48 - 10 36 | 18495 | 18385 | 27 | 13 41 - 14 58 | 18532 | 18371 |
| | | | | 22 | 11 15 - 12 12 | 18498 | 18383 | 28 | 13 47 - 14 46 | 18529 | 18367 |
| | | | | 24 | 9 4 - 10 3 | 18463 | 18368 | | | | |
| | | | | | 10 13 - 11 11 | 18460 | 18372 | July 1 | 10 11 - 11 0 | 18495 | 18364 |
| | | | | 26 | 10 4 - 10 52 | 18468 | 18369 | 3 | 14 0 - 16 20 | 18549 | 18369 |
| | | | | 28 | 14 12 - 15 5 | 18508 | 18370 | 4 | 10 9 - 11 54 | 18490 | 18369 |
| Mar. 1 | 11 37 - 12 56 | 18514 | 18370 | 29 | 10 17 - 11 31 | 18499 | 18373 | 5 | 9 0 - 10 36 | 18418 | 18369 |
| 2 | 15 13 - 15 59 | 18514 | 18379 | | | | | 10 | 13 49 - 14 59 | 18548 | 18368 |
| 3 | 11 32 - 12 52 | 18516 | 18372 | May 2 | 10 14 - 11 2 | 18476 | 18372 | 14 | 13 58 - 14 48 | 18518 | 18360 |
| 7 | 11 40 - 12 44 | 18514 | 18374 | 4 | 10 10 - 10 58 | 18486 | 18367 | 18 | 13 52 - 14 42 | 18524 | 18362 |
| 8 | 11 30 - 12 47 | 18517 | 18373 | 5 | 10 10 - 10 58 | 18492 | 18370 | 19 | 9 51 - 10 42 | 18510 | 18362 |
| 9 | 11 43 - 12 47 | 18521 | 18377 | 6 | 10 1 - 10 49 | 18504 | 18373 | 25 | 14 4 - 15 19 | 18521 | 18368 |
| 10 | 11 34 - 12 49 | 18517 | 18373 | 9 | 10 0 - 10 47 | 18490 | 18370 | 27 | 14 15 - 15 13 | 18534 | 18370 |
| 11 | 11 27 - 12 29 | 18522 | 18378 | 11 | 13 40 - 14 32 | 18528 | 18374 | Aug. 4 | 14 15 - 16 4 | 18545 | 18361 |
| 14 | 10 50 - 11 57 | 18541 | 18378 | 12 | 10 16 - 11 0 | 18512 | 18364 | 30 | 9 36 - 10 56 | 18500 | 18362 |
| 15 | 11 48 - 12 57 | 18521 | 18375 | 13 | 10 6 - 10 50 | 18539 | 18369 | | | | |
| 16 | 11 28 - 12 53 | 18518 | 18369 | 17 | 9 9 - 10 32 | 18523 | 18372 | Sept. 20 | 13 57 - 14 59 | 18486 | 18356 |
| 17 | 11 42 - 12 46 | 18514 | 18374 | 18 | 10 9 - 10 57 | 18519 | 18369 | 29 | 9 59 - 11 10 | 18515 | 18362 |
| 18 | 11 41 - 12 42 | 18508 | 18371 | 19 | 13 47 - 14 41 | 18538 | 18370 | | | | |
| 21 | 11 45 - 12 46 | 18500 | 18369 | 20 | 10 8 - 10 54 | 18510 | 18367 | Nov. 17 | 9 50 - 11 17 | 18528 | 18357 |
| 22 | 11 35 - 12 51 | 18484 | 18367 | 23 | 10 12 - 10 57 | 18501 | 18375 | | | | |
| 23 | 11 56 - 12 56 | 18515 | 18371 | 31 | 10 12 - 11 1 | 18505 | 18370 | | | | |
| 24 | 11 37 - 12 58 | 18499 | 18362 | | | | | | | | |
| 25 | 12 2 - 12 54 | 18528 | 18372 | | | | | | | | |
| 30 | 11 37 - 12 55 | 18509 | 18372 | | | | | | | | |
| 31 | 11 42 - 12 42 | 18502 | 18371 | | | | | | | | |

June 5. Temperature raised to 21.0°.

TABLE XV(A). - DAILY VALUE OF THE BASE-LINE OF THE VERTICAL INTENSITY MAGNETOGRAMS AT THE ABINGER MAGNETIC STATION, DEDUCED FROM OBSERVATIONS OF MAGNETIC DIP MADE WITH THE EARTH INDUCTOR

| Day | January | February | March | April | May | June | July | August | September | October | November | December |
|-----|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|
| | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 1 | - | 42990 | 42932 | 42932 | 42938 | 42930 | 42938 | 42932 | 42930 | - | 42935 | 42952 |
| 2 | 42957 | 985 | 918 | - | 928 | 925 | - | 927 | 924 | 42936 | 939 | 957 |
| 3 | - | 990 | 938 | 929 | - | 923 | - | 929 | - | 931 | 932 | - |
| 4 | 959 | 988 | 934 | 936 | 933 | - | 929 | 933 | 928 | - | 931 | 957 |
| 5 | 959 | - | - | 934 | 942 | 936 | 924 | 937 | 926 | 923 | - | 952 |
| 6 | 954 | 984 | 928 | 928 | 936 | 932 | - | - | 932 | 926 | 937 | 957 |
| 7 | 957 | 987 | 930 | - | - | 936 | 939 | - | 928 | 938 | 930 | 957 |
| 8 | - | 986 | 934 | 941 | 931 | 926 | 937 | 940 | 929 | - | 930 | 959 |
| 9 | 956 | 987 | 929 | - | 932 | 931 | - | 934 | 925 | 933 | 927 | 956 |
| 10 | 972 | 985 | 935 | 932 | 938 | 923 | 937 | 932 | - | 932 | 928 | - |
| 11 | 972 | 983 | 933 | 940 | 924 | - | 929 | 933 | 925 | 930 | 932 | 962 |
| 12 | 984 | - | - | 933 | 929 | 936 | 936 | - | 926 | 934 | - | 956 |
| 13 | 982 | 988 | 932 | 929 | 930 | 925 | 926 | - | 934 | 933 | 938 | 952 |
| 14 | 987 | 983 | 927 | 929 | - | 934 | 931 | 935 | 929 | 934 | 936 | 957 |
| 15 | - | 992 | 937 | 936 | 927 | 939 | 923 | 925 | 932 | - | 930 | 948 |
| 16 | 982 | 987 | 935 | - | 926 | 935 | - | 934 | 924 | 931 | 927 | 967 |
| 17 | 987 | - | 940 | 934 | 926 | 934 | 930 | 925 | - | 932 | 934 | - |
| 18 | 995 | 958 | 945 | 935 | 930 | - | 928 | 934 | 927 | 934 | 935 | - |
| 19 | 990 | - | - | 922 | 925 | 934 | 934 | 927 | 925 | 931 | - | 954 |
| 20 | 998 | 940 | 935 | 934 | 927 | 937 | 930 | - | 929 | 934 | 929 | 955 |
| 21 | 982 | 941 | 935 | 942 | - | 944 | 931 | 940 | 922 | 932 | 929 | 961 |
| 22 | - | 952 | 929 | 929 | 926 | 926 | 937 | 925 | 925 | - | 932 | 960 |
| 23 | 984 | 939 | 936 | - | 924 | 932 | - | 932 | 926 | 936 | - | - |
| 24 | 988 | 920 | 930 | 932 | 924 | 934 | 931 | 927 | - | 933 | 934 | - |
| 25 | 989 | 937 | 929 | 930 | 920 | - | 932 | 934 | 930 | 932 | 931 | - |
| 26 | 987 | - | - | 930 | 931 | 923 | - | 926 | 927 | 928 | - | - |
| 27 | 986 | - | 927 | 938 | 925 | 929 | 941 | - | 932 | 933 | - | 952 |
| 28 | 989 | 936 | 927 | 927 | - | 924 | 930 | 931 | 931 | 930 | 928 | 956 |
| 29 | - | - | 935 | 935 | - | 936 | 930 | 932 | 933 | - | 955 | 959 |
| 30 | 986 | - | 931 | - | 924 | 932 | - | 926 | 935 | 933 | 957 | 953 |
| 31 | 987 | - | 930 | - | 923 | - | 935 | 928 | - | 931 | - | - |

June 5. Temperature raised to 21.0°.

An adjustment of the bearings of the axis of the rotating coil was made on February 18, March 27, July 31 and November 7.

TABLE XVI(A). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS DETERMINED AT THE ROYAL OBSERVATORY, GREENWICH, BETWEEN THE YEARS 1818-1925

| Year | Declination West | Horizontal Intensity | Vertical Intensity | Dip | Year | Declination West | Horizontal Intensity | Vertical Intensity | Dip |
|------|------------------|----------------------|--------------------|---------|------|------------------|----------------------|--------------------|---------|
| | ° / | C.G.S. Unit | C.G.S. Unit | ° / | | ° / | C.G.S. Unit | C.G.S. Unit | ° / |
| 1818 | 24 19 † | .. | .. | .. | 1882 | 18 22°3 | 0° 1806 | 0° 4375 | 67 34°2 |
| 1819 | 24 21 | .. | .. | .. | 1883 | 18 15°0 | 0° 1812 | 0° 4381 | 67 31°7 |
| 1820 | 24 21 | .. | .. | .. | 1884 | 18 7°6 | 0° 1814 | 0° 4379 | 67 29°7 |
| 1841 | 23 16°2 | .. | .. | .. | 1885 | 18 1°7 | 0° 1817 | 0° 4380 | 67 28°0 |
| 1842 | 23 14°6 | .. | .. | .. | 1886 | 17 54°5 | 0° 1818 | 0° 4377 | 67 27°1 |
| 1843 | 23 11°7 | .. | .. | 69 0°6 | 1887 | 17 49°1 | 0° 1819 | 0° 4380 | 67 26°6 |
| 1844 | 23 15°3 | .. | .. | 69 0°3 | 1888 | 17 40°4 | 0° 1822 | 0° 4383 | 67 25°6 |
| 1845 | 22 56°7 | .. | .. | 68 57°5 | 1889 | 17 34°9 | 0° 1823 | 0° 4380 | 67 24°3 |
| 1846 | 22 49°6 | 0° 1731 | .. | 68 58°1 | 1890 | 17 28°6 | 0° 1825 | 0° 4381 | 67 23°0 |
| 1847 | 22 51°3 | 0° 1736 | .. | 68 59°0 | 1891 | 17 23°4 | 0° 1827 | 0° 4380 | 67 21°5 |
| 1848 | 22 51°8 | 0° 1731 | .. | 68 54°7 | 1892 | 17 17°4 | 0° 1829 | 0° 4379 | 67 20°0 |
| 1849 | 22 37°8 | 0° 1733 | .. | 68 51°3 | 1893 | 17 11°4 | 0° 1831 | 0° 4373 | 67 17°9 |
| 1850 | 22 23°5 | 0° 1738 | .. | 68 46°9 | 1894 | 17 4°6 | 0° 1831 | 0° 4374 | 67 17°4 |
| 1851 | 22 18°3 | 0° 1744 | .. | 68 40°4 | 1895 | 16 57°4 | 0° 1834 | 0° 4378 | 67 16°1 |
| 1852 | 22 17°9 | 0° 1745 | .. | 68 42°7 | 1896 | 16 51°7 | 0° 1835 | 0° 4382 | 67 15°1 |
| 1853 | 22 10°1 | 0° 1748 | .. | 68 44°6 | 1897 | 16 45°8 | 0° 1838 | 0° 4377 | 67 13°5 |
| 1854 | 22 0°8 | 0° 1749 | .. | 68 47°7 | 1898 | 16 39°2 | 0° 1840 | 0° 4377 | 67 12°1 |
| 1855 | 21 48°4 | 0° 1756 | .. | 68 44°6 | 1899 | 16 34°2 | 0° 1843 | 0° 4380 | 67 10°5 |
| 1856 | 21 43°5 | 0° 1759 | .. | 68 43°5 | 1900 | 16 29°0 | 0° 1846 | 0° 4380 | 67 8°8 |
| 1857 | 21 35°4 | 0° 1769 | .. | 68 31°1 | 1901 | 16 26°0 | 0° 1850 | 0° 4381 | 67 6°4 |
| 1858 | 21 30°3 | 0° 1762 | .. | 68 28°3 | 1902 | 16 22°8 | 0° 1852 | 0° 4377 | 67 3°8 |
| 1859 | 21 23°5 | 0° 1761 | .. | 68 26°9 | 1903 | 16 19°1 | 0° 1852 | 0° 4368 | 67 1°2 |
| 1860 | 21 14°3 | .. | .. | 68 30°1 | 1904 | 16 15°0 | 0° 1854 | 0° 4359 | 66 57°6 |
| 1861 | 21 5°5 | 0° 1773 | .. | 68 24°6 | 1905 | 16 9°9 | 0° 1854 | 0° 4355 | 66 56°3 |
| 1861 | | 0° 1759 | .. | 68 15°8 | 1906 | 16 3°6 | 0° 1854 | 0° 4353 | 66 55°6 |
| 1862 | 20 52°6 | 0° 1763 | 0° 4403 | 68 9°6 | 1907 | 15 59°8 | 0° 1855 | 0° 4357 | 66 56°2 |
| 1863 | 20 45°9 | 0° 1764 | 0° 4396 | 68 7°0 | 1908 | 15 53°5 | 0° 1854 | 0° 4356 | 66 56°3 |
| 1864 | .. | 0° 1767 | 0° 4393 | 68 4°1 | 1909 | 15 47°6 | 0° 1854 | 0° 4348 | 66 54°1 |
| 1865 | 20 33°9 | 0° 1767 | 0° 4388 | 68 2°7 | 1910 | 15 41°2 | 0° 1855 | 0° 4345 | 66 52°8 |
| 1866 | 20 28°0 | 0° 1773 | 0° 4397 | 68 1°3 | 1911 | 15 33°0 | 0° 1855 | 0° 4342 | 66 52°1 |
| 1867 | 20 20°5 | 0° 1777 | 0° 4392 | 67 57°2 | 1912 | 15 24°3 | 0° 1855 | 0° 4340 | 66 51°8 |
| 1868 | 20 13°1 | 0° 1779 | 0° 4395 | 67 56°5 | 1913 | 15 15°2 | 0° 1853 | 0° 4333 | 66 50°5 |
| 1869 | 20 4°1 | 0° 1782 | 0° 4396 | 67 54°8 | 1914 | 15 6°3 | 0° 1853 | 0° 4333 | 66 50°8 |
| 1870 | 19 53°0 | 0° 1784 | 0° 4392 | 67 52°5 | 1915 | 14 56°5 | 0° 1851 | 0° 4331 | 66 51°6 |
| 1871 | 19 41°9 | 0° 1786 | 0° 4389 | 67 50°3 | 1916 | 14 46°9 | 0° 1848 | 0° 4326 | 66 52°2 |
| 1872 | 19 36°8 | 0° 1789 | 0° 4383 | 67 47°8 | 1917 | 14 37°1 | 0° 1848 | 0° 4330* | 66 53°0 |
| 1873 | 19 33°4 | 0° 1793 | 0° 4386 | 67 45°8 | 1918 | 14 27°8 | 0° 1846 | 0° 4325 | 66 52°8 |
| 1874 | 19 28°9 | 0° 1797 | 0° 4387 | 67 43°6 | 1919 | 14 18°2 | 0° 1845 | 0° 4324 | 66 53°3 |
| 1875 | 19 21°2 | 0° 1797 | 0° 4383 | 67 42°4 | 1920 | 14 8°6 | 0° 1845 | 0° 4325 | 66 53°6 |
| 1876 | 19 8°3 | 0° 1799 | 0° 4383 | 67 41°0 | 1921 | 13 57°6 | 0° 1845 | 0° 4322 | 66 53°0 |
| 1877 | 18 57°2 | 0° 1800 | 0° 4381 | 67 39°7 | 1922 | 13 46°7 | 0° 1844 | 0° 4318 | 66 52°3 |
| 1878 | 18 49°3 | 0° 1802 | 0° 4382 | 67 38°2 | 1923 | 13 35°1 | 0° 1843 | 0° 4314 | 66 51°9 |
| 1879 | 18 40°5 | 0° 1805 | 0° 4382 | 67 37°0 | 1924 | 13 22°8 | 0° 1843 | 0° 4311 | 66 51°6 |
| 1880 | 18 32°6 | 0° 1805 | 0° 4380 | 67 35°7 | 1925 | 13 9°9 | 0° 1841 | 0° 4308 | 66 51°4 |
| 1881 | 18 27°1 | 0° 1807 | 0° 4379 | 67 34°7 | | | | | |

In 1818, 1819 and 1820 numerous observations of Declination were made with a Dolland needle.

In 1861 new Unifilar Apparatus for absolute Horizontal Intensity 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 complete suspension of Declination observations. From 1914 the Dip was determined with an Inductor.

N.B. - In the above table the values of Vertical Intensity for the years 1862-1913 inclusive were computed from the corresponding values of Horizontal Intensity and Dip, the values of Dip being the mean of all the absolute observations taken in any year, and the time of observation approximating to noon on the average. Beginning with 1914 the values of Dip have been computed from the corresponding annual mean values of Horizontal and Vertical Intensity.

† Mean of seven months June to December. * Mean of ten months, March to December.

TABLE XVI(B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS DETERMINED AT THE ABINGER MAGNETIC STATION,
FOR THE YEARS 1925-1939

| Year | Declination West | Horizontal Intensity | Vertical Intensity | Inclination |
|------|---------------------|-------------------------|-----------------------|-------------|
| | ° ' " | C.G.S. Unit | C.G.S. Unit | ° ' " |
| 1925 | 13 22.7 | 0.18597 | 0.42946 | 66 35.1 |
| 1926 | 13 10.4 | 0.18581 | 0.42947 | 66 36.3 |
| 1927 | 12 58.4 | 0.18575 | 0.42932 | 66 36.2 |
| 1928 | 12 47.0 | 0.18564 | 0.42941 | 66 37.3 |
| 1929 | 12 35.8 | 0.18556 | 0.42918 | 66 37.2 |
| 1930 | 12 24.6 | 0.18542 | 0.42924 | 66 38.2 |
| 1931 | 12 13.7 | 0.18543 | 0.42923 | 66 38.1 |
| 1932 | 12 2.6 | 0.18536 | 0.42940 | 66 39.1 |
| 1933 | 11 51.7 | 0.18532 | 0.42942 | 66 39.4 |
| 1934 | 11 41.1 | 0.18533 | 0.42955 | 66 39.7 |
| 1935 | 11 30.3 | 0.18527 | 0.42981 | 66 40.9 |
| 1936 | 11 20.0 | 0.18524 | 0.43007 | 66 41.8 |
| 1937 | 11 10.4 | 0.18522 | 0.43031 | 66 42.7 |
| 1938 | 11 1.4 | 0.18522 | 0.43050 | 66 43.2 |
| 1939 | 10 51.9 | 0.18528 | 0.43074 | 66 43.5 |

The values of Inclination are computed from the corresponding values of horizontal and vertical Intensity.

Commencing with the years 1927 and 1929 respectively, the values of horizontal and vertical intensity are based upon observations with Coil-magnetometers.

ROYAL OBSERVATORY, GREENWICH.

**Results of
Meteorological Observations**

1939

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | TEMPERATURE | | | | | | | Difference between the Air Temperature and Dew Point Temperature | | | Degree of Humidity (Saturation = 100) | TEMPERATURE | | | Rain collected in Onaga No. 6, whose receiving surface is 6 inches above the ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|----------------------------------|--------------------------|---------------------------|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | Mean of 24 Hourly Values | Deducted Mean Daily Value | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Jan. 1 | 29.416 | 49.3 | 38.1 | 11.2 | 44.3 | + 5.7 | 42.7 | 40.7 | 3.6 | 8.5 | 0.7 | 87 | 56.7 | 34.8 | 45.2 | 0.178 | 0.7 | 7.9 |
| 2 | 29.147 | 41.3 | 35.4 | 5.9 | 38.8 | + 0.4 | 37.1 | 34.5 | 4.3 | 6.6 | 2.7 | 84 | 42.0 | 29.6 | 45.1 | 0.032 | 0.0 | 7.9 |
| 3 | 29.576 | 37.8 | 30.0 | 7.8 | 34.9 | - 3.4 | 32.9 | 29.5 | 5.4 | 7.9 | 2.2 | 79 | 42.7 | 24.9 | 45.0 | 0.000 | 0.0 | 7.9 |
| 4 | 29.307 | 45.4 | 30.2 | 15.2 | 37.7 | - 0.6 | 37.1 | 36.2 | 1.5 | 3.3 | 0.6 | 94 | 51.7 | 25.1 | 45.0 | 0.206 | 0.0 | 8.0 |
| 5 | 29.649 | 36.6 | 28.9 | 7.7 | 33.8 | - 4.4 | 32.1 | 29.1 | 4.7 | 9.1 | 0.9 | 82 | 40.9 | 24.4 | 44.7 | 0.000 | 0.8 | 8.0 |
| 6 | 29.970 | 33.8 | 24.5 | 9.3 | 29.1 | - 9.0 | 28.4 | 27.2 | 1.9 | 3.1 | 0.0 | 92 | 30.3 | 19.0 | 44.7 | 0.016 | 0.0 | 8.0 |
| 7 | 29.861 | 52.0 | 33.8 | 18.2 | 43.5 | + 5.5 | 42.2 | 40.5 | 3.0 | 5.7 | 1.0 | 89 | 50.6 | 31.4 | 44.6 | 0.359 | 0.0 | 8.0 |
| 8 | 29.821 | 54.2 | 49.3 | 4.9 | 51.4 | +13.5 | 48.8 | 46.0 | 5.4 | 8.4 | 3.1 | 82 | 67.3 | 45.0 | 44.4 | 0.000 | 0.4 | 8.1 |
| 9 | 29.631 | 51.6 | 47.0 | 4.6 | 49.2 | +11.3 | 46.5 | 43.4 | 5.8 | 8.1 | 3.2 | 80 | 57.6 | 42.0 | 44.4 | 0.012 | 0.0 | 8.1 |
| 10 | 29.644 | 47.0 | 40.4 | 6.6 | 43.8 | + 5.9 | 41.3 | 37.9 | 5.9 | 13.2 | 0.7 | 79 | 54.5 | 38.2 | 44.3 | 0.073 | 0.0 | 8.1 |
| 11 | 29.272 | 47.8 | 38.4 | 9.4 | 44.6 | + 6.7 | 42.4 | 39.5 | 5.1 | 10.8 | 0.0 | 82 | 59.1 | 31.3 | 44.7 | 0.081 | 0.4 | 8.2 |
| 12 | 29.265 | 42.3 | 34.1 | 8.2 | 37.5 | - 0.4 | 35.5 | 32.1 | 5.4 | 10.5 | 2.6 | 81 | 56.5 | 27.1 | 44.7 | 0.000 | 4.7 | 8.2 |
| 13 | 29.416 | 45.3 | 30.0 | 15.3 | 37.0 | - 1.0 | 34.8 | 31.0 | 6.0 | 10.1 | 0.7 | 79 | 58.6 | 23.2 | 44.8 | 0.000 | 5.8 | 8.2 |
| 14 | 29.391 | 52.7 | 28.7 | 24.0 | 37.2 | - 0.8 | 36.4 | 35.1 | 2.1 | 3.3 | 0.0 | 92 | 50.3 | 22.0 | 44.7 | 0.252 | 0.0 | 8.3 |
| 15 | 29.088 | 54.8 | 49.0 | 5.8 | 52.4 | +14.3 | 49.9 | 47.3 | 5.1 | 10.4 | 1.4 | 83 | 66.1 | 45.3 | 44.6 | 0.678 | 1.4 | 8.3 |
| 16 | 28.983 | 51.9 | 44.2 | 7.7 | 48.5 | +10.2 | 46.0 | 43.2 | 5.3 | 11.8 | 1.6 | 81 | 64.6 | 40.1 | 44.6 | 0.362 | 1.7 | 8.3 |
| 17 | 29.063 | 53.3 | 46.5 | 6.8 | 49.8 | +11.3 | 48.1 | 46.2 | 3.6 | 6.6 | 1.4 | 87 | 55.9 | 42.1 | 44.7 | 0.157 | 0.0 | 8.4 |
| 18 | 29.016 | 50.9 | 48.0 | 2.9 | 49.6 | +11.0 | 48.2 | 46.7 | 2.9 | 4.4 | 1.0 | 90 | 62.3 | 44.0 | 44.9 | 0.220 | 0.3 | 8.4 |
| 19 | 29.482 | 49.7 | 45.2 | 4.5 | 47.6 | + 8.9 | 46.5 | 45.2 | 2.4 | 5.0 | 0.5 | 91 | 51.3 | 41.1 | 45.0 | 0.094 | 0.0 | 8.5 |
| 20 | 29.360 | 51.4 | 43.5 | 7.9 | 47.7 | + 8.9 | 46.7 | 45.5 | 2.2 | 4.4 | 0.9 | 92 | 61.8 | 36.5 | 45.2 | 0.301 | 0.3 | 8.5 |
| 21 | 29.183 | 51.6 | 45.9 | 5.7 | 47.3 | + 8.5 | 46.8 | 46.2 | 1.1 | 3.2 | 0.4 | 96 | 56.6 | 33.5 | 45.4 | 0.115 | 0.0 | 8.5 |
| 22 | 29.341 | 48.4 | 44.1 | 4.3 | 46.3 | + 7.5 | 44.2 | 41.6 | 4.7 | 8.2 | 2.0 | 84 | 55.4 | 38.8 | 45.7 | 0.059 | 0.6 | 8.6 |
| 23 | 29.220 | 48.0 | 41.7 | 6.3 | 45.4 | + 6.5 | 43.3 | 40.6 | 4.8 | 8.7 | 2.2 | 83 | 51.4 | 35.8 | 45.7 | 0.082 | 0.0 | 8.7 |
| 24 | 29.847 | 42.4 | 32.5 | 9.9 | 39.1 | + 0.2 | 36.1 | 30.9 | 8.2 | 11.4 | 1.6 | 73 | 57.6 | 27.7 | 45.7 | 0.000 | 3.8 | 8.7 |
| 25 | 29.175 | 36.6 | 32.1 | 4.5 | 33.4 | - 5.7 | 33.1 | 32.6 | 0.8 | 3.2 | 0.0 | 97 | 34.2 | 28.3 | 45.6 | 0.922 | 0.0 | 8.8 |
| 26 | 29.044 | 37.2 | 34.4 | 2.8 | 36.0 | - 3.3 | 35.4 | 34.3 | 1.7 | 3.8 | 0.7 | 94 | 42.9 | 31.0 | 45.3 | 0.000 | 0.0 | 8.8 |
| 27 | 29.368 | 39.4 | 34.5 | 4.9 | 36.9 | - 2.6 | 34.9 | 31.5 | 5.4 | 8.3 | 1.7 | 80 | 51.9 | 28.2 | 45.0 | 0.007 | 0.1 | 8.9 |
| 28 | 29.754 | 40.1 | 33.9 | 6.2 | 36.8 | - 2.8 | 35.2 | 32.6 | 4.2 | 9.1 | 0.8 | 84 | 68.1 | 29.8 | 44.9 | 0.027 | 3.4 | 8.9 |
| 29 | 29.806 | 39.7 | 37.2 | 2.5 | 38.6 | - 1.1 | 35.4 | 30.0 | 8.6 | 12.2 | 2.3 | 70 | 44.8 | 35.2 | 44.6 | 0.000 | 0.0 | 9.0 |
| 30 | 29.867 | 39.0 | 36.5 | 2.5 | 37.6 | - 2.1 | 34.8 | 30.0 | 7.6 | 8.1 | 5.7 | 74 | 45.7 | 33.6 | 44.6 | 0.000 | 0.0 | 9.0 |
| 31 | 29.917 | 38.1 | 35.4 | 2.7 | 36.8 | - 2.9 | 34.3 | 29.9 | 6.9 | 8.0 | 4.4 | 75 | 71.3 | 33.4 | 44.2 | 0.000 | 1.8 | 9.1 |
| Means | 29.445 | 45.5 | 37.9 | 7.6 | 41.7 | + 3.1 | 39.9 | 37.3 | 4.4 | 7.6 | 1.5 | 84.4 | 53.6 | 33.0 | 44.9 | Sum 4.233 | 0.8 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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) and deduced from the autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.445 in., being 0.358 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 54.8 on January 15; the lowest in the month was 24.5 on January 6; and the range was 30.3.

The mean of all the highest daily readings in the month was 45.5, being 2.4 higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 37.9, being 3.7 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 7.6, being 1.3 less 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.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | | |
|--------------------------------|-------------------------|----------------------------|----------------|----------------------------|---|-------------|----------|-----------------------------|---------------------------------|--|--------------------------------------|--------------------------------------|------------------------------------|--|
| | POLARIS | | 6 URSE MINORIS | | OSLER'S | | | Pressure on the Square Foot | | Robin-son's | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Greatest | Mean of 24 hourly Measures | Horizontal Move-ment of the Air | | | | | |
| | | | | | A.M. | P.M. | | | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h | |
| Jan. 1 | 4.1 | 0.30 | 4.1 | 0.30 | SSW:WSW | SW:SSW | 3.4 | 0.28 | 371 | d _o d _o r _o | r _o d Nbst c Stcu | c Stcu b | b c b | |
| 2 | 9.0 | 0.65 | 9.0 | 0.65 | WSW:WNW | NW | 2.4 | 0.25 | 405 | b c ir | c Ast m Nbst d _o | c Nbst d m | c b c | |
| 3 | 0.0 | 0.00 | 0.0 | 0.00 | W:WNW | NW:SW | 1.1 | 0.08 | 306 | c b x c | c s _o m b Ast Frst c Stcu | c Stcu m _o | bc c | |
| 4 | 3.5 | 0.25 | 3.5 | 0.25 | SE:SSW | W:NNW | 1.2 | 0.05 | 278 | c s r | rr ir m Nbst | c ir c m | c ir | |
| 5 | 7.7 | 0.56 | 0.0 | 0.00 | NNW | NW:SSW | 1.7 | 0.13 | 298 | c b x m | b Frst x m | b c Frst x m | bm f Cist lu-ha | |
| 6 | 0.0 | 0.00 | 0.0 | 0.00 | SW:Calm | Calm:SSE | 0.0 | 0.00 | 196 | b x f | ffx | ff | cm d _o | |
| 7 | 0.0 | 0.00 | 0.0 | 0.00 | S:SSW | SW | 2.3 | 0.25 | 370 | c d rr _o | c Nbst r _o | r _o c | c | |
| 8 | 1.3 | 0.10 | 1.3 | 0.10 | SW | SW | 5.3 | 0.92 | 536 | c d _o | c Stcu Cicu Frst | c p _o c | c d _o c | |
| 9 | 4.8 | 0.35 | 4.8 | 0.35 | SW | SW:WSW | 4.7 | 0.91 | 502 | c b | c Stcu Nbst d _o | c ir _o c Stcu | c | |
| 10 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:Calm | NE:E | 1.3 | 0.07 | 249 | c b c | c m Stcu Ast | c m _o Ast | c m _o d _o ir | |
| 11 | 6.4 | 0.47 | 6.0 | 0.44 | SSE:SSW:SW | SW:SSW | 5.0 | 0.60 | 392 | c r c | c Stcu Frst | c Ci Ast b | b c | |
| 12 | 12.4 | 0.90 | 11.5 | 0.83 | WSW | WSW:SW | 0.5 | 0.06 | 280 | c | c m Stcu b | b Cist m _o | b x | |
| 13 | 10.9 | 0.79 | 10.3 | 0.75 | SW:SSW | WSW:SSW | 1.3 | 0.09 | 280 | b bc x | b m _o Cicu | b m _o Frcu | b f x | |
| 14 | 0.0 | 0.00 | 0.0 | 0.00 | Calm | Calm:SE:SSW | 2.5 | 0.11 | 224 | b x f Fe Fe | Fe Fe c f Ast | c f m St id _o r | r c ir | |
| 15 | 2.4 | 0.18 | 1.3 | 0.10 | SW | SW:SSW | 8.6 | 1.50 | 551 | c ir _o q ir | ir Nbst c Frcu | c | c rr _o q rR | |
| 16 | 6.0 | 0.45 | 4.8 | 0.36 | SW | SW | 11.0 | 1.37 | 534 | c bc c | c r Nbst bc qp bc Acu | c Stcu Frst q | c rRc b | |
| 17 | 5.6 | 0.42 | 5.3 | 0.40 | SW:SSW | S:SSW | 4.8 | 0.56 | 391 | bc p _o | bc c d _o Nbst | c d _o d _o St r | rc b | |
| 18 | 0.0 | 0.00 | 0.0 | 0.00 | SSW:S | S:SSW | 3.8 | 0.29 | 366 | b c r _o P | c ir id | c id c | c ir | |
| 19 | 0.4 | 0.03 | 0.2 | 0.02 | SSW:NW:WNW | WSW:SW:SSW | 1.0 | 0.07 | 285 | c ir c | c m | c m | c m _o rr | |
| 20 | 2.5 | 0.19 | 2.1 | 0.16 | S:SSW | S:SW | 2.1 | 0.11 | 288 | rr c | cm _o Stcu Cicu Nbst r | r c rr | rr c | |
| 21 | 1.7 | 0.13 | 0.7 | 0.06 | Calm:S | SW:N:NW | 1.4 | 0.05 | 257 | c | c rR Nbst | c r c | c f p | |
| 22 | 3.2 | 0.24 | 2.7 | 0.21 | NW:W:SW | SSW:SW | 5.6 | 0.39 | 396 | c | c Ci c Ast | c d c r | c r c | |
| 23 | 11.5 | 0.88 | 11.3 | 0.87 | SW:W:NW | NW | 5.1 | 0.93 | 501 | c r c | c Nbst r | r ir Nbst c Stcu | c b c b | |
| 24 | 1.4 | 0.11 | 0.1 | 0.01 | NW | NW:SSW | 4.0 | 0.22 | 309 | b x m _o | b bc m _o z _o | bc c Ci Frst m _o | cf c m | |
| 25 | 1.5 | 0.12 | 0.9 | 0.07 | SE:ESE | E:ENE | 3.0 | 0.18 | 309 | c | c r ss | ss | rsrs c | |
| 26 | 0.0 | 0.00 | 0.0 | 0.00 | ENE:NE | NE:NNE | 1.1 | 0.21 | 358 | c | c Stcu | c | c r _o s _o | |
| 27 | 2.9 | 0.22 | 2.3 | 0.17 | NNE:NE | NE:NNE | 0.7 | 0.12 | 296 | c id _o | id _o r _o Nbst | c bc b | b c x m _o | |
| 28 | 0.0 | 0.00 | 0.0 | 0.00 | NNE:NE | NE:ENE | 0.7 | 0.09 | 274 | c s c | c bc Acu Cist Frst | bc c | c d _o | |
| 29 | 0.0 | 0.00 | 0.0 | 0.00 | E | ENE:E | 5.5 | 1.03 | 473 | d _o c | c | c | c | |
| 30 | 0.1 | 0.01 | 0.0 | 0.00 | E | E | 3.5 | 0.63 | 432 | c | c Stcu m _o | c Stcu | c | |
| 31 | 2.2 | 0.18 | 0.6 | 0.05 | E | E | 3.4 | 0.33 | 373 | c | c Stcu | c Stcu b c | c | |
| Means | 3.3 | 0.24 | 2.7 | 0.20 | ... | ... | ... | 0.38 | 357 | | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |

The mean *Temperature of Evaporation* for the month was 39°·9, being 2°·7 higher than the average for the 65 years, 1841-1905.

The mean *Temperature of the Dew Point* for the month was 37°·3, being 2°·2 higher than the average for the 65 years, 1841-1905.

The mean *Degree of Humidity* for the month was 84·4, being 2·4 less than the average for the 65 years, 1841-1905.

The mean *Elastic Force of Vapour* for the month was 0·223 in., being 0·018 in. greater than the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·101. The maximum daily amount of *Sunshine* was 5·8 hours on January 15.

The highest reading of the *Solar Radiation Thermometer* was 71°·3 on January 31; and the lowest reading of the *terrestrial Radiation Thermometer* was 19°·0 on January 6.

The *Proportions of Wind* referred to the cardinal points were N.12, E.20, S.33, W.30. Calm or nearly calm conditions 5, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 11·0 lbs. on the square foot on January 16. The mean daily *Horizontal Movement of the Air* for the month was 367 miles; the greatest daily value was 551 miles on January 15, and the least daily value was 196 miles on January 6.

Rain (0·005 in. or over) fell on 21 days in the month, amounting to 4·233 in., as measured by gauge No. 6 partly sunk below the ground; being 2·562 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 6 inches above the ground | Daily Duration of sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|----------------------------------|--|---|--|----------|-------|---------------------------------------|--|-----------------------|---------------------|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation Mean of 24 Hourly Values | Of the Dew Point Deducted Mean Daily Value | Of Radiation | | | | Of the Earth 4 ft. below the Surface of the Soil | | | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | | | Mean | Greatest | Least | | | Highest in Sun's Rays | Lowest on the Grass | | | |
| Feb. 1 | 29.900 | 39.4 | 33.9 | 5.5 | 36.3 | - 3.3 | 34.4 | 31.1 | 5.2 | 8.0 | 2.2 | 81 | 66.7 | 29.3 | 44.0 | 0.000 | 1.1 | 9.1 |
| 2 | 29.979 | 38.5 | 33.3 | 5.2 | 35.1 | - 4.4 | 33.6 | 30.9 | 4.2 | 8.1 | 2.2 | 85 | 67.4 | 28.4 | 44.0 | 0.000 | 3.3 | 9.2 |
| 3 | 30.093 | 34.8 | 29.0 | 5.8 | 31.6 | - 7.9 | 31.4 | 30.8 | 0.8 | 6.4 | 0.0 | 98 | 43.0 | 21.6 | 43.8 | 0.000 | 0.0 | 9.3 |
| 4 | 30.175 | 45.8 | 32.6 | 13.2 | 40.7 | + 1.2 | 39.3 | 37.4 | 3.3 | 7.7 | 0.3 | 87 | 53.9 | 32.0 | 43.8 | 0.000 | 0.0 | 9.3 |
| 5 | 30.152 | 49.7 | 33.8 | 15.9 | 40.9 | + 1.3 | 39.8 | 38.4 | 2.5 | 7.5 | 0.6 | 90 | 62.5 | 26.1 | 43.8 | 0.000 | 2.7 | 9.3 |
| 6 | 60.133 | 52.7 | 34.7 | 18.0 | 40.9 | + 1.3 | 39.1 | 36.5 | 4.4 | 12.3 | 1.4 | 84 | 84.0 | 24.7 | 43.7 | 0.003* | 7.8 | 9.4 |
| 7 | 30.078 | 54.5 | 34.4 | 20.1 | 43.8 | + 4.3 | 40.2 | 34.9 | 8.9 | 20.1 | 2.3 | 71 | 95.4 | 24.0 | 43.7 | 0.043 | 6.9 | 9.5 |
| 8 | 30.064 | 49.9 | 46.0 | 3.9 | 48.0 | + 8.7 | 46.5 | 44.8 | 3.2 | 9.1 | 1.4 | 89 | 60.6 | 41.9 | 43.6 | 0.111 | 0.0 | 9.5 |
| 9 | 29.942 | 53.0 | 47.9 | 5.1 | 50.2 | +11.1 | 47.1 | 43.5 | 6.7 | 14.2 | 2.2 | 78 | 81.6 | 44.1 | 43.7 | 0.071 | 2.4 | 9.6 |
| 10 | 30.223 | 55.8 | 51.5 | 4.3 | 53.6 | +14.7 | 50.7 | 47.8 | 5.8 | 8.3 | 3.7 | 80 | 65.8 | 46.1 | 43.9 | 0.000 | 0.0 | 9.6 |
| 11 | 30.251 | 57.8 | 48.0 | 9.8 | 51.8 | +13.0 | 49.3 | 46.6 | 5.2 | 10.8 | 3.1 | 82 | 93.7 | 45.0 | 44.1 | 0.000 | 3.7 | 9.7 |
| 12 | 29.955 | 54.3 | 41.3 | 13.0 | 48.6 | + 9.8 | 44.7 | 39.8 | 8.8 | 20.2 | 3.1 | 72 | 93.2 | 34.7 | 44.2 | 0.000 | 2.7 | 9.8 |
| 13 | 29.968 | 45.3 | 38.1 | 7.2 | 42.4 | + 3.4 | 38.9 | 33.6 | 8.8 | 12.6 | 5.2 | 70 | 59.3 | 31.8 | 44.6 | 0.002 | 0.5 | 9.8 |
| 14 | 30.325 | 46.8 | 35.8 | 11.0 | 42.0 | + 2.7 | 38.9 | 34.0 | 8.0 | 14.0 | 3.0 | 73 | 60.0 | 27.0 | 44.7 | 0.000 | 1.2 | 9.9 |
| 15 | 30.182 | 55.8 | 39.0 | 16.8 | 45.9 | + 6.5 | 43.3 | 40.0 | 5.9 | 11.4 | 1.8 | 80 | 89.5 | 32.6 | 44.7 | 0.000 | 5.5 | 10.0 |
| 16 | 30.052 | 50.1 | 38.3 | 11.8 | 45.3 | + 5.8 | 41.0 | 34.7 | 10.6 | 18.6 | 2.4 | 66 | 83.0 | 29.0 | 44.7 | 0.000 | 4.9 | 10.0 |
| 17 | 29.806 | 45.8 | 32.6 | 13.2 | 40.1 | + 0.5 | 38.1 | 35.1 | 5.0 | 11.1 | 0.8 | 82 | 83.0 | 26.0 | 44.6 | 0.042 | 1.0 | 10.1 |
| 18 | 29.808 | 46.8 | 37.9 | 8.9 | 43.1 | + 3.6 | 39.9 | 35.3 | 7.8 | 13.9 | 0.8 | 74 | 87.0 | 31.0 | 44.7 | 0.000 | 5.6 | 10.1 |
| 19 | 29.919 | 51.7 | 39.8 | 11.9 | 46.0 | + 6.5 | 42.9 | 38.8 | 7.2 | 13.0 | 3.4 | 76 | 90.6 | 33.8 | 44.7 | 0.000 | 3.4 | 10.2 |
| 20 | 30.133 | 48.0 | 31.8 | 16.2 | 39.3 | - 0.2 | 37.2 | 33.9 | 5.4 | 9.7 | 1.6 | 81 | 76.5 | 24.9 | 44.6 | 0.000 | 1.4 | 10.3 |
| 21 | 29.932 | 52.0 | 30.3 | 21.7 | 39.9 | + 0.3 | 37.4 | 33.4 | 6.5 | 15.2 | 0.8 | 77 | 100.2 | 22.9 | 44.6 | 0.000 | 7.2 | 10.3 |
| 22 | 29.345 | 43.2 | 39.5 | 3.7 | 41.0 | + 1.3 | 39.2 | 36.7 | 4.3 | 8.6 | 1.5 | 84 | 58.8 | 34.3 | 44.3 | 0.148 | 0.0 | 10.4 |
| 23 | 29.025 | 50.4 | 36.2 | 14.2 | 42.8 | + 3.0 | 38.3 | 31.0 | 11.8 | 21.4 | 2.3 | 63 | 103.0 | 26.6 | 44.4 | 0.000 | 8.6 | 10.5 |
| 24 | 29.491 | 46.3 | 29.0 | 17.3 | 40.1 | + 0.1 | 36.9 | 31.6 | 8.5 | 14.7 | 1.5 | 71 | 72.0 | 21.8 | 44.2 | 0.005 | 3.6 | 10.5 |
| 25 | 29.605 | 46.8 | 37.6 | 9.2 | 42.5 | + 2.4 | 40.9 | 38.7 | 3.8 | 8.4 | 2.0 | 86 | 50.4 | 30.2 | 44.3 | 0.400 | 0.0 | 10.6 |
| 26 | 29.640 | 49.7 | 36.1 | 13.6 | 42.6 | + 2.4 | 39.3 | 34.3 | 8.3 | 16.8 | 2.6 | 72 | 97.3 | 29.9 | 44.1 | 0.000 | 7.0 | 10.7 |
| 27 | 29.750 | 50.0 | 34.9 | 15.1 | 41.8 | + 1.5 | 38.5 | 33.4 | 8.4 | 17.6 | 3.5 | 72 | 93.0 | 29.1 | 44.2 | 0.000 | 6.8 | 10.7 |
| 28 | 29.208 | 50.2 | 38.0 | 12.2 | 42.6 | + 2.3 | 40.7 | 38.0 | 4.6 | 9.2 | 3.3 | 84 | 78.0 | 32.4 | 44.0 | 0.247 | 0.7 | 10.8 |
| Means | 29.898 | 48.8 | 37.2 | 11.6 | 42.8 | + 3.3 | 40.3 | 36.6 | 6.2 | 12.5 | 2.1 | 78.9 | 76.8 | 30.8 | 44.2 | Sum 1.072 | 3.1 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.898 in., being 0.089 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 57°·8 on February 11; the lowest in the month was 29°·0 on February 3, 24; and the range was 28°·8.

The mean of all the highest daily readings in the month was 48°·8, being 3°·9 higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 37°·2, being 2°·5 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 11°·6, being 1°·4 greater than the average for the 65 years, 1841-1905. †

The mean for the month was 42°·6, being 3°·3 higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

* Rainfall (Column 16). The amount entered on February 6 is derived from Hoar-frost.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------------|-------------------------|----------------------------------|-----------------|----------------------------------|---|----------|-----------------------------------|----------------------------------|-------------------------------------|----------------------------------|---|---|------------------------------------|
| | POLARIS | | δ URSAE MINORIS | | OSLER'S | | | Robin- son's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Move- ment of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| Feb. 1 | 0.6 | 0.05 | 0.0 | 0.00 | E | ENE:NE | 1.0 | 0.13 | 317 | c | c Stcu | c Stcu | c m _o |
| 2 | 5.1 | 0.41 | 4.0 | 0.32 | E | E | 1.0 | 0.13 | 297 | c m _o | c bc Ast m _o | bc Cist c m _o | c m _o |
| 3 | 0.0 | 0.00 | 0.0 | 0.00 | Calm | Calm | 0.0 | 0.00 | 158 | c b cfx Fe | FeFe | FeFe | FeFe f |
| 4 | 9.5 | 0.76 | 9.0 | 0.72 | SW | SW:SSW | 1.1 | 0.10 | 293 | f c m | c Stcu | c bc | bc c bc b |
| 5 | 12.5 | 1.00 | 12.5 | 1.00 | SSW | SSW | 0.3 | 0.03 | 251 | b x | b bc c | c b | b x |
| 6 | 12.5 | 1.00 | 12.5 | 1.00 | SSW | SW:SSW | 0.4 | 0.02 | 272 | b x | b | b | b x |
| 7 | 0.0 | 0.00 | 0.0 | 0.00 | SSW | SSW:SW | 1.7 | 0.18 | 334 | b x | b Ci | b bc Acu | c ir |
| 8 | 0.9 | 0.08 | 0.8 | 0.06 | SSW:SW | SSW | 2.0 | 0.20 | 336 | c ir | ir c St | c Stcu p _o c | c |
| 9 | 0.0 | 0.00 | 0.0 | 0.00 | SW:WSW | WSW:SW | 3.7 | 0.90 | 498 | c | c bc p c Frst | c Acu Stcu Frcu r _o r _o | r _o r _o c |
| 10 | 0.8 | 0.06 | 0.5 | 0.04 | WSW | WSW | 4.5 | 0.46 | 415 | c | c Stcu | c b | b c |
| 11 | 4.7 | 0.39 | 4.2 | 0.35 | WSW | SW | 4.5 | 0.41 | 405 | c | c Stcu | c b Frcu c | c b c |
| 12 | .. | .. | .. | .. | SW:WSW | W | 12.5 | 1.00 | 500 | c | c bc q c Stcu | c p _o q c | c b |
| 13 | 5.5 | 0.45 | 4.4 | 0.36 | W:NW | NNW:N | 3.4 | 0.31 | 369 | b | b c Stcu Frcu Cu | c r _o c | c |
| 14 | 3.4 | 0.29 | 3.0 | 0.25 | N:Calm | W:WSW | 0.3 | 0.03 | 220 | c f x | c b f x Ci | b f Ci c Stcu Frcu m _o | c mf |
| 15 | 4.9 | 0.41 | 4.3 | 0.36 | WSW | WSW | 1.4 | 0.11 | 324 | c b c | c bc Frcu | b Frcu Ci | b w c |
| 16 | 11.0 | 0.91 | 10.1 | 0.85 | WSW:NNW | NW:W | 1.5 | 0.10 | 300 | c | c Frcu Cist y | c y | b |
| 17 | 5.0 | 0.42 | 4.9 | 0.41 | WSW:SWS | SW | 1.8 | 0.10 | 292 | bx | b c x m Ast | c Ast Acu | c r _o r _o |
| 18 | 3.2 | 0.28 | 2.3 | 0.20 | NNW | NW:WSW | 2.1 | 0.13 | 302 | c b | b m _o Ci c Stcu | c z _o | c m |
| 19 | 9.0 | 0.78 | 8.0 | 0.70 | WSW:NW | NNW | 1.4 | 0.13 | 303 | c | c d m Nbst b Frcu | b c | c |
| 20 | 10.7 | 0.93 | 9.5 | 0.83 | NNW:Calm | Calm:SSW | 0.2 | 0.00 | 189 | c b x | b f c Acu Stcu Frcu | c Stcu m f | c f b x |
| 21 | 3.5 | 0.31 | 1.4 | 0.12 | SSW | SSW:SSE | 1.5 | 0.13 | 282 | b c | c b Frcu bc Stcu Cu | bc Frst y b | b c |
| 22 | 6.4 | 0.56 | 6.3 | 0.54 | S | SSE | 4.6 | 0.46 | 353 | c | c ir _o Nbst | c ir _o Nbst c | c r _o ir b |
| 23 | 10.4 | 0.91 | 8.7 | 0.76 | SSW:SW | SW | 4.0 | 0.51 | 402 | b c b | b Acu Frcu Ci y | b c Frcu y | c b c x |
| 24 | 1.2 | 0.10 | 0.9 | 0.08 | Calm:N | NNE:NE | 1.4 | 0.07 | 243 | c b bc x | bc Cist m Frcu | c so-ha Ast c | c r _o r _o bc |
| 25 | 5.6 | 0.51 | 5.0 | 0.45 | NW:SW | SW | 3.3 | 0.29 | 342 | bc c rr c | c Ast Stcu Nbst r | c r d | c r _o id |
| 26 | 9.9 | 0.90 | 9.8 | 0.89 | WSW | WSW | 2.7 | 0.21 | 372 | c bc b | b bc Frcu | bc c y c p _o bc | bc c b |
| 27 | 1.0 | 0.09 | 0.9 | 0.08 | WSW | SW:SSW | 1.7 | 0.25 | 367 | b x | b x bc Cist Frcu | bc y so-ha Cist c b | b c |
| 28 | 6.0 | 0.59 | 5.2 | 0.48 | SSW:S | SW:WSW | 3.7 | 0.54 | 394 | c d _o c | c r r _o r _o Nbst ir | c p rRrr Nbst | c bc |
| Means | 5.3 | 0.45 | 4.7 | 0.40 | ... | ... | ... | 0.25 | 326 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 40°·3, being 2°·6 higher than
 The mean *Temperature of the Dew Point* for the month was 36°·6, being 1°·6 higher than
 The mean *Degree of Humidity* for the month was 78·9, being 4·7 less than
 The mean *Elastic Force of Vapour* for the month was 0·217 in., being 0·013 in. greater than
 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 0·316. The maximum daily amount of *Sunshine* was 8·6 hours on February 23.
 The highest reading of the *Solar Radiation Thermometer* was 103°·0 on February 23; and the lowest reading of the *terrestrial Radiation Thermometer* was 21°·6 on February 3.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.8, S.35, W.41, calm or nearly calm conditions 6, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 12·5 lbs. on the square foot on February 12. The mean daily *Horizontal Movement of the Air* for the month was 326 miles; the greatest daily value was 500 miles on February 12, and the least daily value was 158 miles on February 3.
Rain (0·006 in. or over) fell on 8 days in the month, amounting to 1·072 in., as measured by gauge No.6 partly sunk below the ground; being 0·408 in. less than the average fall for the 65 years, 1841-1906.

} the average for the 65 years, 1841-1906.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 6 inches above the ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|----------------------------------|--|---|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation Mean of 24 Hourly Values | Of the Dew Point Deducted Mean Daily Value | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | | | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Mar. 1 | 29.477 | 47.9 | 38.2 | 9.7 | 43.9 | + 3.5 | 39.9 | 33.8 | 10.1 | 19.2 | 3.8 | 68 | 71.6 | 32.6 | 44.1 | 0.022 | 1.8 | 10.9 |
| 2 | 29.735 | 54.3 | 44.3 | 10.0 | 48.7 | + 8.3 | 46.0 | 42.9 | 5.8 | 15.1 | 2.2 | 80 | 73.7 | 36.1 | 44.0 | 0.000 | 0.0 | 10.9 |
| 3 | 29.758 | 60.3 | 41.0 | 19.3 | 49.9 | + 9.4 | 46.1 | 41.6 | 8.3 | 14.6 | 3.3 | 73 | 109.7 | 29.8 | 44.2 | 0.000 | 6.4 | 11.0 |
| 4 | 29.693 | 56.3 | 44.7 | 11.6 | 49.5 | + 8.8 | 47.0 | 44.3 | 5.2 | 11.0 | 2.9 | 82 | 95.8 | 36.9 | 44.4 | 0.060 | 2.0 | 11.1 |
| 5 | 29.645 | 56.3 | 45.4 | 10.9 | 49.9 | + 9.0 | 46.0 | 41.3 | 8.6 | 22.3 | 1.4 | 72 | 110.2 | 41.4 | 44.4 | 0.062 | 5.3 | 11.1 |
| 6 | 29.839 | 54.8 | 44.6 | 10.2 | 49.2 | + 8.2 | 45.7 | 41.5 | 7.7 | 16.3 | 1.8 | 74 | 107.7 | 39.7 | 44.8 | 0.000 | 3.2 | 11.2 |
| 7 | 29.958 | 49.7 | 40.3 | 9.4 | 45.2 | + 4.2 | 40.1 | 32.3 | 12.9 | 21.9 | 4.8 | 68 | 93.3 | 33.1 | 44.8 | 0.000 | 5.1 | 11.3 |
| 8 | 29.898 | 51.6 | 38.3 | 13.3 | 44.6 | + 3.5 | 40.7 | 34.9 | 9.7 | 18.3 | 3.6 | 69 | 89.3 | 35.1 | 44.9 | 0.082 | 0.2 | 11.3 |
| 9 | 29.957 | 50.3 | 38.3 | 12.0 | 43.4 | + 2.4 | 39.8 | 34.4 | 9.0 | 15.5 | 3.4 | 70 | 90.7 | 28.8 | 44.9 | 0.000 | 5.4 | 11.4 |
| 10 | 30.163 | 49.0 | 34.6 | 14.4 | 41.3 | + 0.4 | 38.3 | 33.5 | 7.8 | 13.7 | 3.2 | 74 | 89.0 | 25.3 | 45.0 | 0.000 | 5.5 | 11.4 |
| 11 | 30.083 | 44.3 | 29.2 | 15.1 | 39.1 | - 1.9 | 38.1 | 36.5 | 2.6 | 7.0 | 0.0 | 91 | 61.4 | 23.3 | 44.9 | 0.278 | 0.3 | 11.5 |
| 12 | 30.238 | 44.9 | 33.7 | 11.2 | 41.4 | + 0.3 | 39.0 | 35.4 | 6.0 | 11.4 | 1.3 | 79 | 83.0 | 25.6 | 44.7 | 0.029 | 1.3 | 11.6 |
| 13 | 30.427 | 47.7 | 31.1 | 16.6 | 40.3 | - 1.0 | 37.9 | 34.1 | 6.2 | 14.2 | 0.5 | 78 | 70.3 | 23.0 | 44.8 | 0.000 | 0.7 | 11.6 |
| 14 | 30.212 | 51.5 | 46.2 | 5.3 | 48.5 | + 7.0 | 45.6 | 42.1 | 6.4 | 11.3 | 2.6 | 78 | 62.1 | 40.1 | 44.7 | 0.000 | 0.0 | 11.7 |
| 15 | 30.184 | 47.1 | 40.9 | 6.2 | 43.9 | + 2.2 | 39.9 | 33.8 | 10.1 | 15.1 | 3.5 | 68 | 95.8 | 37.7 | 44.7 | 0.010 | 1.7 | 11.8 |
| 16 | 30.010 | 50.6 | 39.0 | 11.6 | 44.1 | + 2.2 | 41.2 | 37.2 | 6.9 | 13.2 | 2.9 | 76 | 69.7 | 37.9 | 44.8 | 0.065 | 0.0 | 11.8 |
| 17 | 29.871 | 45.1 | 32.6 | 12.5 | 39.7 | - 2.3 | 37.0 | 32.5 | 7.2 | 12.1 | 3.0 | 76 | 88.8 | 27.2 | 44.8 | 0.042 | 0.8 | 11.9 |
| 18 | 30.089 | 39.3 | 31.6 | 7.7 | 35.6 | - 6.4 | 32.5 | 27.0 | 8.6 | 15.0 | 4.3 | 69 | 86.1 | 27.8 | 44.8 | 0.000 | 1.1 | 12.0 |
| 19 | 29.918 | 43.1 | 35.0 | 8.1 | 39.5 | - 2.4 | 37.5 | 34.4 | 5.1 | 11.4 | 0.0 | 82 | 74.5 | 34.6 | 44.7 | 0.026 | 0.0 | 12.0 |
| 20 | 29.848 | 47.8 | 37.0 | 10.8 | 41.4 | - 0.5 | 37.8 | 32.1 | 9.3 | 14.4 | 4.0 | 69 | 65.2 | 35.2 | 44.7 | 0.000 | 0.1 | 12.1 |
| 21 | 29.768 | 48.7 | 39.6 | 9.1 | 43.8 | + 1.9 | 39.1 | 31.5 | 12.3 | 15.2 | 7.2 | 62 | 87.4 | 32.5 | 44.7 | 0.000 | 2.4 | 12.2 |
| 22 | 29.407 | 51.3 | 36.4 | 14.9 | 43.5 | + 1.5 | 39.8 | 34.2 | 9.3 | 22.9 | 1.4 | 70 | 108.6 | 30.8 | 44.7 | 0.268 | 5.9 | 12.2 |
| 23 | 29.322 | 48.4 | 35.2 | 13.2 | 41.3 | - 0.9 | 37.7 | 32.0 | 9.3 | 17.1 | 2.5 | 69 | 94.2 | 29.7 | 44.6 | 0.042 | 3.3 | 12.3 |
| 24 | 29.384 | 49.4 | 30.2 | 19.2 | 38.8 | - 3.6 | 35.5 | 29.9 | 8.9 | 18.6 | 1.0 | 69 | 96.1 | 24.5 | 44.6 | 0.076 | 5.6 | 12.4 |
| 25 | 29.587 | 43.3 | 32.4 | 10.9 | 37.6 | - 5.1 | 35.1 | 30.7 | 6.9 | 17.0 | 0.0 | 76 | 95.6 | 26.9 | 44.6 | 0.010 | 2.9 | 12.4 |
| 26 | 29.894 | 42.3 | 36.1 | 6.2 | 39.3 | - 3.7 | 36.6 | 32.1 | 7.2 | 12.3 | 1.8 | 75 | 56.7 | 34.7 | 44.4 | 0.000 | 0.0 | 12.5 |
| 27 | 29.691 | 40.3 | 34.3 | 6.0 | 37.3 | - 6.0 | 35.8 | 33.5 | 3.8 | 7.7 | 2.6 | 86 | 54.5 | 32.6 | 44.4 | 0.061 | 0.0 | 12.6 |
| 28 | 29.501 | 41.7 | 36.1 | 5.6 | 39.1 | - 4.6 | 37.8 | 35.9 | 3.2 | 6.2 | 1.8 | 88 | 58.4 | 32.9 | 44.2 | 0.072 | 0.0 | 12.6 |
| 29 | 29.581 | 50.3 | 33.6 | 16.7 | 41.3 | - 2.8 | 38.9 | 35.3 | 6.0 | 11.6 | 0.3 | 79 | 106.6 | 27.0 | 44.3 | 0.000 | 2.8 | 12.7 |
| 30 | 29.685 | 50.7 | 37.4 | 13.3 | 43.6 | - 0.9 | 40.4 | 35.8 | 7.8 | 18.9 | 0.4 | 74 | 97.1 | 28.2 | 44.3 | 0.000 | 3.9 | 12.7 |
| 31 | 29.705 | 56.2 | 38.6 | 17.6 | 46.4 | + 1.5 | 43.3 | 39.3 | 7.1 | 16.9 | 1.0 | 76 | 106.4 | 33.1 | 44.3 | 0.000 | 7.3 | 12.8 |
| Means | 29.824 | 48.9 | 37.3 | 11.6 | 42.9 | + 1.0 | 39.9 | 35.3 | 7.6 | 14.8 | 2.3 | 74.6 | 85.5 | 31.7 | 44.6 | 1.205 | 2.4 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.842 in., being 0.071 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 60°.3 on March 3; the lowest in the month was 29°.2 on March 11; and the range was 31°.1.

The mean of all the highest daily readings in the month was 48°.9, being 0°.3 lower than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 37°.3, being 1°.7 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 11°.6, being 2°.0 less than the average for the 65 years, 1841-1905. †

The mean for the month was 42°.9, being 1°.0 higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|-----------|-----------------------------|----------------------------|--------------------------------|-----------------------------------|---|------------------------------------|------------------------------------|
| | POLARIS | | δ URSAE MINORIS | | OSLER'S | | | Robinson's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures |  |  |  |  |  | miles |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| Mar. 1 | 0.3 | 0.02 | 0.2 | 0.01 | WSW:W | SW:SSW | 10.4 | 0.71 | 462 | bc p q | bc Frst c Ast Frcu | c Ast so-ha Acu | c r c |
| 2 | 10.1 | 0.92 | 10.0 | 0.91 | SSW | SSW:S:SSE | 3.0 | 0.40 | 374 | c | c Ast St | c Stcu | c bc b w |
| 3 | 10.2 | 0.93 | 9.4 | 0.85 | SSE:S | S | 1.2 | 0.14 | 286 | b w | b Ci Cist | b c Cist Acu | c b |
| 4 | 3.1 | 0.29 | 3.1 | 0.29 | S:SSW | SSW | 2.0 | 0.24 | 315 | bc c | c Ast so-ha Stcu Frcu | c v c | bc c |
| 5 | 2.4 | 0.23 | 1.2 | 0.11 | SSW:WSW | WSW:SW | 6.7 | 0.76 | 411 | c dd c | c b bc y | bc c y | c r _o id _o |
| 6 | 0.8 | 0.08 | 0.5 | 0.05 | SW:WSW | WSW | 3.2 | 0.43 | 372 | c | c Acu Stcu | c Acu Ast | c d _o c |
| 7 | 8.7 | 0.83 | 7.9 | 0.75 | WNW | NW:W:WSW | 5.2 | 0.53 | 396 | c | c b y Frst Cist c Stcu | c y | b lu-ha c |
| 8 | 2.9 | 0.28 | 2.8 | 0.27 | WSW | WSW:NW | 10.7 | 1.74 | 556 | bc c lu-ha | c Ast so-ha prhn q | c Ast Frcu so-ha q | c rr c |
| 9 | 9.8 | 0.93 | 8.6 | 0.82 | NW:NNW | NNW | 1.3 | 0.15 | 272 | c | c b Frst Ci | c Acu Stcu Ci | bc m b |
| 10 | 9.6 | 0.91 | 8.9 | 0.85 | NNW:N | N:Calm | 0.8 | 0.04 | 212 | bx | b c Cist Frcu m _o | c Stcu Frcu y b m | b m x |
| 11 | 0.0 | 0.00 | 0.0 | 0.00 | Calm | Calm:SW | 0.4 | 0.00 | 177 | b bc x c | c Acu m | c St Nbst d r m | c rr m |
| 12 | 7.4 | 0.74 | 7.4 | 0.74 | NNE:NE | NNE:ENE | 0.9 | 0.13 | 280 | r r _o r _o m | c Stcu m m _o | c Stcu | c b x |
| 13 | 0.0 | 0.00 | 0.0 | 0.00 | Calm | NNW:NW | 0.6 | 0.05 | 213 | b c x | c b f c Stcu Acu | c Acu | c m c |
| 14 | 1.4 | 0.14 | 1.3 | 0.13 | NNW | NNW | 1.3 | 0.22 | 315 | c d | c Stcu | c Stcu y | c b c r _o |
| 15 | 0.0 | 0.00 | 0.0 | 0.00 | NNW:N | N | 3.7 | 0.44 | 358 | c r c | c Frcu | c Stcu y | c |
| 16 | 0.8 | 0.08 | 0.3 | 0.03 | NNW:SW | NW:NNW | 2.0 | 0.13 | 267 | c | c r _o d _o fc Stcu | c Nbst d _o rr | r c r c |
| 17 | 4.3 | 0.43 | 3.0 | 0.30 | NNW:N | NE:NNE | 5.5 | 0.65 | 429 | c | c ir _o p Nbst bc | c ih Nbst c Cicu Cu | c b c |
| 18 | 0.0 | 0.00 | 0.0 | 0.00 | NNE | N:NNW:SSW | 1.7 | 0.14 | 311 | c bc x c | c Acu Stcu y | c y | c |
| 19 | 0.4 | 0.04 | 0.0 | 0.00 | WSW:N | N | 3.0 | 0.32 | 349 | c ir | c Frst Stcu r _o c Acu | c Acu Stcu | c d c |
| 20 | 5.4 | 0.56 | 4.1 | 0.42 | NNW:NW | NW:WSW | 8.5 | 0.48 | 366 | c | c m _o Stcu | c Stcu r _o c | c |
| 21 | 4.7 | 0.48 | 3.8 | 0.39 | NW | NW:WSW | 5.7 | 0.90 | 435 | c b | b c Frst Stcu | c Stcu y | c b |
| 22 | 6.1 | 0.63 | 5.8 | 0.60 | SW:WNW | W:WSW | 9.9 | 0.70 | 421 | b c rr | rr c bc Acu Frcu | bc Cu Frcu y c r | r b |
| 23 | 7.1 | 0.73 | 7.0 | 0.72 | WSW:NW | NW | 4.3 | 0.39 | 376 | b c r c | c Nbst Stcu Acu | c p _o c Stcu Cicu | c b c b |
| 24 | 2.9 | 0.30 | 2.7 | 0.28 | WSW:NW | NW:Calm | 2.6 | 0.05 | 229 | b x | b Cu Stcu Frcu | c y r | rc bc b c x |
| 25 | 0.0 | 0.00 | 0.0 | 0.00 | NNE | N:NNE | 2.7 | 0.26 | 327 | c f | f c Stcu y | c y is _o | c rs c |
| 26 | 0.0 | 0.00 | 0.0 | 0.00 | NNE | NNE | 5.0 | 1.17 | 496 | c | c Stcu | c | c |
| 27 | 0.0 | 0.00 | 0.0 | 0.00 | NNE:N | N | 2.2 | 0.26 | 346 | c | c Nbst d _o r _o | rr _o Nbst c | c r r _o d |
| 28 | 1.9 | 0.21 | 1.6 | 0.17 | Calm:NNW | NNW | 0.2 | 0.01 | 205 | c m _o | c Stcu m _o d _o | c d _o m _o rr | c d c |
| 29 | .. | .. | .. | .. | Calm:SW | Calm:SE | 0.1 | 0.00 | 190 | c bc b x c | c Cu Frcu Stcu m _o | c Acu Stcu b | b x c |
| 30 | 9.0 | 1.00 | 9.0 | 1.00 | E | E | 3.6 | 0.40 | 353 | b bc x | b Cist Cicu c Ast | c Cist so-ha prhn Frst | c b |
| 31 | 5.8 | 0.64 | 5.8 | 0.64 | ENE:E | ESE:E | 0.9 | 0.11 | 276 | b w | b Frst | b y c | c b |
| Means | 3.8 | 0.38 | 3.5 | 0.34 | ... | ... | .. | 0.39 | 335 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 39°·9, being 0°·5 higher than the average for the 65 years, 1841-1905.

The mean *Temperature of the Dew Point* for the month was 35°·3, being 0°·3 lower than the average for the 65 years, 1841-1905.

The mean *Degree of Humidity* for the month was 74·6, being 3·5 less than the average for the 65 years, 1841-1905.

The mean *Elastic Force of Vapour* for the month was 0·206 in., being 0·003 in. less than the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·204. The maximum daily amount of *Sunshine* was 7·3 hours on March 31.

The highest reading of the *Solar Radiation Thermometer* was 110°·2 on March 5; and the lowest reading of the *terrestrial Radiation Thermometer* was 22°·3 on March 11.

The *Proportions of Wind* referred to the cardinal points were N.35, E.12, S.17, W.29, calm or nearly calm conditions, 7, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 10·7 lbs. on the square foot on March 8. The mean daily *Horizontal Movement of the Air* for the month was 335 miles; the greatest daily value was 556 miles on March 8., and the least daily value was 177 miles on March 11.

Rain (0·005 in. or over) fell on 16 days in the month, amounting to 1·206 in. as measured by gauge No.6 partly sunk below the ground; being 0·315 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 6 inches above the ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------------|--|-------------|--------|----------------|-----------------------------------|--|------------------------|------------------------|---|----------|-------|--|-----------------------------|---------------------------|---|--|-------------------------------|-------------------|
| | | Of the Air | | | | | Of Evapo- ration | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface Of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean Of 24 Hourly Values | Excess above Average Of 65 Years | | | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Apr. 1 | 29.655 | 56.2 | 38.4 | 17.8 | 47.6 | + 2.3 | 45.4 | 42.9 | 4.7 | 9.9 | 0.0 | 83 | 84.4 | 29.0 | 44.6 | 0.033 | 0.0 | 12.9 |
| 2 | 29.438 | 53.7 | 39.4 | 14.3 | 47.9 | + 2.2 | 46.1 | 44.1 | 3.8 | 12.5 | 0.6 | 86 | 88.4 | 30.7 | 45.0 | 0.162 | 0.1 | 12.9 |
| 3 | 29.242 | 48.6 | 34.6 | 14.0 | 43.6 | - 2.4 | 42.6 | 41.3 | 2.3 | 8.7 | 0.2 | 92 | 72.8 | 26.7 | 44.7 | 0.057 | 0.1 | 13.0 |
| 4 | 28.977 | 54.2 | 45.3 | 8.9 | 48.8 | + 2.6 | 47.0 | 45.0 | 3.8 | 9.0 | 0.6 | 86 | 97.5 | 39.3 | 44.8 | 0.343 | 1.5 | 13.1 |
| 5 | 29.225 | 57.7 | 43.5 | 14.2 | 50.0 | + 3.7 | 48.0 | 45.8 | 4.2 | 9.1 | 0.8 | 86 | 107.5 | 38.2 | 45.0 | 0.068 | 1.5 | 13.2 |
| 6 | 29.577 | 48.3 | 39.8 | 8.5 | 43.1 | - 3.2 | 41.2 | 38.5 | 4.6 | 10.3 | 0.9 | 84 | 54.5 | 35.0 | 45.1 | 0.069 | 0.0 | 13.2 |
| 7 | 29.880 | 48.4 | 36.1 | 12.3 | 42.7 | - 3.6 | 39.6 | 35.0 | 7.7 | 13.5 | 1.5 | 74 | 91.4 | 30.2 | 45.4 | 0.000 | 2.9 | 13.3 |
| 8 | 29.893 | 56.6 | 29.8 | 26.8 | 44.1 | - 2.0 | 40.4 | 34.9 | 9.2 | 18.6 | 0.3 | 70 | 103.3 | 23.2 | 45.7 | 0.000 | 8.0 | 13.3 |
| 9 | 29.859 | 64.8 | 36.0 | 28.8 | 50.8 | + 4.8 | 45.5 | 38.7 | 12.1 | 24.0 | 0.9 | 64 | 117.9 | 29.8 | 45.8 | 0.000 | 11.3 | 13.4 |
| 10 | 29.789 | 63.8 | 39.8 | 24.0 | 51.0 | + 5.1 | 46.7 | 41.7 | 9.3 | 20.6 | 1.3 | 70 | 119.0 | 30.0 | 45.8 | 0.000 | 8.9 | 13.5 |
| 11 | 29.736 | 69.5 | 43.1 | 26.4 | 55.5 | + 9.7 | 51.1 | 46.7 | 8.8 | 17.4 | 2.0 | 72 | 119.5 | 36.7 | 46.0 | 0.000 | 10.8 | 13.5 |
| 12 | 29.820 | 75.0 | 48.1 | 26.9 | 61.0 | +15.1 | 53.6 | 46.3 | 14.7 | 26.8 | 1.6 | 59 | 134.7 | 38.2 | 46.2 | 0.000 | 9.7 | 13.6 |
| 13 | 29.771 | 65.1 | 47.8 | 17.3 | 55.2 | + 9.1 | 51.2 | 47.3 | 7.9 | 15.7 | 1.6 | 75 | 122.9 | 40.0 | 46.3 | 0.037 | 3.0 | 13.7 |
| 14 | 29.585 | 59.2 | 47.3 | 11.9 | 51.9 | + 5.5 | 49.2 | 46.3 | 5.6 | 12.7 | 2.0 | 81 | 103.7 | 41.2 | 46.7 | 0.080 | 1.6 | 13.7 |
| 15 | 29.760 | 59.3 | 44.0 | 15.3 | 51.9 | + 5.1 | 47.6 | 42.7 | 9.2 | 19.3 | 2.4 | 70 | 121.2 | 38.3 | 47.3 | 0.000 | 5.2 | 13.8 |
| 16 | 28.864 | 61.1 | 45.7 | 15.4 | 55.2 | + 8.0 | 51.2 | 47.3 | 7.9 | 16.5 | 3.3 | 75 | 99.0 | 39.5 | 47.2 | 0.005 | 1.6 | 13.9 |
| 17 | 29.905 | 58.4 | 42.2 | 16.2 | 49.7 | + 2.1 | 44.5 | 37.8 | 11.9 | 21.4 | 2.7 | 64 | 104.5 | 38.9 | 47.5 | 0.033 | 4.6 | 13.9 |
| 18 | 30.334 | 53.9 | 38.6 | 15.3 | 46.7 | - 1.3 | 41.8 | 34.6 | 12.1 | 19.5 | 3.5 | 63 | 115.8 | 28.6 | 47.6 | 0.000 | 11.0 | 14.0 |
| 19 | 30.418 | 62.7 | 34.1 | 28.6 | 48.7 | + 0.4 | 44.2 | 38.4 | 10.3 | 18.6 | 0.5 | 68 | 99.3 | 26.7 | 47.9 | 0.000 | 8.5 | 14.1 |
| 20 | 30.265 | 70.8 | 38.7 | 32.1 | 55.6 | + 7.1 | 48.4 | 40.0 | 15.6 | 24.4 | 1.5 | 56 | 120.6 | 31.1 | 48.0 | 0.000 | 12.2 | 14.1 |
| 21 | 30.060 | 69.8 | 38.7 | 31.1 | 56.1 | + 7.4 | 47.0 | 35.1 | 21.0 | 33.4 | 2.1 | 45 | 125.7 | 28.5 | 48.0 | 0.000 | 10.5 | 14.2 |
| 22 | 29.745 | 56.0 | 44.7 | 11.3 | 49.1 | + 0.4 | 42.6 | 33.3 | 15.8 | 25.2 | 6.4 | 54 | 117.6 | 37.8 | 48.0 | 0.000 | 7.8 | 14.2 |
| 23 | 29.644 | 51.9 | 42.0 | 9.9 | 47.0 | - 1.6 | 44.3 | 41.1 | 5.9 | 12.1 | 3.2 | 79 | 90.3 | 36.2 | 48.0 | 0.081 | 1.0 | 14.3 |
| 24 | 29.284 | 55.8 | 40.6 | 15.2 | 48.2 | - 0.4 | 45.0 | 41.0 | 7.2 | 19.2 | 1.9 | 76 | 125.6 | 31.7 | 48.2 | 0.227 | 5.7 | 14.4 |
| 25 | 29.424 | 52.3 | 34.7 | 17.6 | 43.1 | - 5.5 | 39.9 | 35.3 | 7.8 | 16.1 | 0.2 | 74 | 102.6 | 28.1 | 48.3 | 0.002 | 5.5 | 14.4 |
| 26 | 29.746 | 49.5 | 33.9 | 15.6 | 41.7 | - 6.9 | 38.4 | 33.3 | 8.4 | 15.9 | 1.1 | 71 | 115.1 | 26.0 | 48.2 | 0.072 | 4.5 | 14.5 |
| 27 | 30.033 | 47.7 | 35.1 | 12.6 | 40.1 | - 8.6 | 37.8 | 34.2 | 5.9 | 13.5 | 1.4 | 79 | 116.2 | 28.9 | 48.1 | 0.196 | 7.3 | 14.6 |
| 28 | 30.077 | 49.7 | 34.1 | 15.6 | 42.3 | - 6.5 | 38.6 | 32.9 | 9.4 | 16.7 | 1.2 | 69 | 108.2 | 28.1 | 48.1 | 0.300 | 4.9 | 14.6 |
| 29 | 29.989 | 49.9 | 36.3 | 13.6 | 42.3 | - 6.7 | 40.3 | 37.4 | 4.9 | 13.3 | 0.0 | 83 | 106.4 | 29.7 | 48.0 | 0.100 | 2.3 | 14.7 |
| 30 | 29.792 | 44.2 | 40.9 | 3.3 | 43.0 | - 6.1 | 42.5 | 41.8 | 1.2 | 4.5 | 0.0 | 96 | 50.2 | 40.0 | 47.9 | 0.623 | 0.0 | 14.7 |
| Means | 29.759 | 57.1 | 39.8 | 17.4 | 48.5 | + 1.2 | 44.7 | 40.0 | 8.4 | 16.6 | 1.5 | 73.5 | 104.5 | 32.9 | 46.8 | ^{Sum} 2.438 | 5.1 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic measures of the Dry-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 29.759 in., being 0.004 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 75.0 on April 12; the lowest in the month was 29.8 on April 8; and the range was 45.2.

The mean of all the highest daily readings in the month was 57.1, being 1.0 higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 39.8, being 0.3 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 17.4, being 0.8 greater than the average for the 65 years, 1841-1905. †

The mean for the month was 48.5, being 1.2 higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------------|-------------------------|-------------------------------|-----------------|-------------------------------|---|------------|-----------------------------------|----------------------------------|-------------------------------------|--|---------------------------------------|---|------------------------------------|
| | POLARIS | | δ URSAE MINORIS | | OSLER'S | | | Robinson's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Move- ment of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| Apr. 1 | 0.0 | 0.00 | 0.0 | 0.00 | Calm:E | Calm:E | 0.7 | 0.04 | 208 | b f | b f m c so-ha | c r _o c | c r _o r r _o |
| 2 | 7.7 | 0.91 | 7.1 | 0.84 | E:Calm:S | WSW:SW | 1.1 | 0.07 | 246 | c r r c | c r m _o r _o c | c r _o c m _o | c m _o b |
| 3 | 0.1 | 0.01 | 0.1 | 0.01 | SSW:S | S:Calm | 1.6 | 0.07 | 242 | b x c | c Nbst d _o | c Nbst p _o c dd | d c r |
| 4 | 5.1 | 0.60 | 4.8 | 0.57 | SW | SW | 4.8 | 0.18 | 319 | rr c rc | c b c Nbst ir | R ir c Stcu | c bc c r |
| 5 | 0.0 | 0.00 | 0.0 | 0.00 | SW | SW:Calm:NE | 1.5 | 0.09 | 269 | c b c | c Frcu p Stcu Cumb | c P r _o c | c rd |
| 6 | 5.0 | 0.59 | 4.4 | 0.51 | ENE:NE | ENE:NE | 1.4 | 0.18 | 333 | c r _o c r _o d _o | c Nbst r _o ir Nbst | c Nbst | c |
| 7 | 7.7 | 0.90 | 7.6 | 0.89 | NE:ENE | E:Calm | 0.5 | 0.07 | 242 | c b | b c Acu Frst Stcu y | c Stcu | c b |
| 8 | 7.9 | 0.99 | 7.2 | 0.90 | Calm | W:SW | 0.2 | 0.01 | 177 | b x f | c f b Acu Cu bc Ast | c bc b | b |
| 9 | 8.0 | 1.00 | 8.0 | 1.00 | Calm | Calm:ESE | 0.3 | 0.03 | 184 | b x bc | bc b y | b y | b |
| 10 | 8.0 | 1.00 | 8.0 | 1.00 | Calm:E | ESE:E | 1.8 | 0.15 | 259 | b w | b Cist bc so-ha | bc y | bc b |
| 11 | 6.8 | 0.85 | 6.4 | 0.80 | E | ESE:Calm | 0.3 | 0.03 | 209 | b w | b m _o Ci | b Ci y | b |
| 12 | 7.4 | 0.93 | 7.4 | 0.93 | Calm:SW | SW | 1.9 | 0.20 | 281 | b bc w | bc Acu y b | b Ci c y | c b |
| 13 | 4.2 | 0.52 | 3.9 | 0.48 | SW | SW | 5.0 | 0.54 | 368 | b bc | c Ast Stcu | c bc Cu Acu c | c r c b bc |
| 14 | 6.9 | 0.86 | 6.7 | 0.84 | SSW:SW | SW:WSW | 1.3 | 0.15 | 315 | b c | c Stcu Nbst d | r d _o p c | c P c b |
| 15 | 0.4 | 0.05 | 0.3 | 0.04 | WSW | WSW | 3.8 | 0.68 | 426 | b c b | bc bc Nbst c Ast y | c y | c |
| 16 | 3.5 | 0.47 | 3.3 | 0.44 | WSW | W:WSW | 4.0 | 0.65 | 429 | c | c d _o Nbst ir _o | c | c b c |
| 17 | 0.5 | 0.07 | 0.5 | 0.07 | WSW:WNW | NW:NNW:N | 5.6 | 0.93 | 442 | c r c | c Frst Stcu y | c p _o c h c y | c r c |
| 18 | 7.4 | 0.99 | 7.4 | 0.99 | N:NNE | NE:SSE | 1.7 | 0.24 | 301 | c b | bc c Frcu y | bc Frcu Cicu b y | b c b |
| 19 | 7.5 | 1.00 | 7.5 | 1.00 | Calm | Calm:SSW | 0.1 | 0.01 | 167 | b x | b x z z _o y | b z _o y | b |
| 20 | 7.5 | 1.00 | 7.5 | 1.00 | SW:Calm | W:NW | 0.7 | 0.04 | 217 | b z _o w | b z _o y | b y | b |
| 21 | 7.2 | 0.96 | 6.1 | 0.81 | Calm:SW | WSW:SW | 1.4 | 0.10 | 246 | b w | b Cist y so-ha | b Cist c y | c b y |
| 22 | 6.6 | 0.94 | 6.1 | 0.87 | WSW:W:WNW | NW:WNW | 8.7 | 1.77 | 524 | b c | c Stcu bc c y | bc p _o y | b |
| 23 | 0.4 | 0.06 | 0.3 | 0.04 | WNW:W | W:WSW | 2.0 | 0.30 | 386 | b | b c Stcu Nbst r _o r | rr c | c ir _o |
| 24 | 6.2 | 0.88 | 5.9 | 0.85 | WSW | NW:WSW | 5.6 | 0.24 | 343 | c ir | c Nbst ir rc ph | c ir h c y | c b |
| 25 | 6.8 | 0.97 | 6.8 | 0.97 | WSW:Calm:NW | N:NE | 3.6 | 0.09 | 250 | b bc x b | b c Frcu Nbst | r _o Nbst Stcu c r r _o | r _o c b |
| 26 | 6.5 | 0.93 | 6.5 | 0.93 | NNE | NE:N | 2.0 | 0.08 | 249 | b x | b c Stcu y | c p c ir | ir c b |
| 27 | 7.0 | 1.00 | 7.0 | 1.00 | N:NNE | NE:NNE | 5.5 | 0.16 | 282 | b | b c Stcu Nbst h | c Nbst r H ir c | c b |
| 28 | 5.3 | 0.75 | 5.2 | 0.74 | N:NNE | NE:Var. | 1.5 | 0.07 | 219 | b x | c Frst y | c y c ir _o | r _o R r c b |
| 29 | 0.0 | 0.00 | 0.0 | 0.00 | NE | NE:NNE | 2.5 | 0.22 | 317 | b bc p _o | b c Acu Stcu Nbst r _o | c r | c r c |
| 30 | 0.0 | 0.00 | 0.0 | 0.00 | NNE:NE | NE | 0.9 | 0.15 | 301 | c r _o d r | c Nbst rr m | c Nbst dd | c dd |
| Means | 4.9 | 0.64 | 4.7 | 0.62 | ... | ... | ... | 0.24 | 292 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 44°·7, being 0°·8 higher than
 The mean *Temperature of the Dew Point* for the month was 40°·0, being 0°·4 higher than
 The mean *Degree of Humidity* for the month was 73·5, being 1·0 less than
 The mean *Elastic Force of Vapour* for the month was 0·248 in., being 0·004 in. greater than
 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 0·367. The maximum daily amount of *Sunshine* was 12·2 hours on April 20.
 The highest reading of the *Solar Radiation Thermometer* was 134°·7 on April 12; and the lowest reading of the *Ferrestrial Radiation Thermometer* was 23°·2 on April 8.
 The *Proportions of Wind* referred to the cardinal points were N.19, E.20, S.18, W.30, calm or nearly calm conditions, 13, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 8·7 lbs. on the square foot on April 22. The mean daily *Horizontal Movement of the Air* for the month was 292 miles; the greatest daily value was 524 miles on April 22, and the least daily value was 167 miles on April 19.
Rain (0·006 in. or over) fell on 17 days in the month, amounting to 2·488 in., as measured by gauge No.6 partly sunk below the ground; being 0·922 in. greater than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | 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 6 inches above the Ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|--|-------------|--------|-------------|--------------------------|----------------------------------|--|---|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | Of the Air | | | | | Of Evaporation Mean of 24 Hourly Values | Of the Dew Point Deducted Mean Daily Value | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | | | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| May 1 | 29.794 | 45.9 | 42.2 | 3.7 | 44.3 | - 5.0 | 43.7 | 43.1 | 1.2 | 4.9 | 0.9 | 95 | 53.4 | 40.9 | 47.8 | 0.516 | 0.0 | 14.8 |
| 2 | 29.787 | 50.8 | 42.1 | 8.7 | 45.2 | - 4.3 | 43.3 | 40.8 | 4.4 | 12.8 | 2.4 | 85 | 98.0 | 40.7 | 47.8 | 0.014 | 0.2 | 14.8 |
| 3 | 29.804 | 52.8 | 38.6 | 14.2 | 46.6 | - 3.2 | 43.2 | 38.8 | 7.8 | 16.9 | 1.9 | 74 | 110.7 | 28.8 | 47.7 | 0.000 | 6.2 | 14.9 |
| 4 | 29.689 | 58.2 | 37.4 | 20.8 | 47.2 | - 2.8 | 43.9 | 39.8 | 7.4 | 16.1 | 0.4 | 75 | 121.0 | 29.8 | 47.7 | 0.000 | 3.9 | 14.9 |
| 5 | 29.356 | 57.6 | 38.7 | 18.9 | 48.9 | - 1.4 | 46.3 | 43.3 | 5.6 | 15.5 | 0.0 | 80 | 94.1 | 29.8 | 47.8 | 0.004 | 1.9 | 15.0 |
| 6 | 29.359 | 61.8 | 40.8 | 21.0 | 50.7 | + 0.2 | 47.0 | 42.7 | 8.0 | 17.7 | 0.2 | 74 | 120.4 | 31.9 | 47.9 | 0.000 | 5.0 | 15.1 |
| 7 | 29.631 | 63.0 | 38.6 | 24.4 | 51.5 | + 0.8 | 47.7 | 43.4 | 8.1 | 15.2 | 0.0 | 74 | 124.1 | 30.7 | 48.0 | 0.000 | 9.8 | 15.1 |
| 8 | 29.886 | 69.3 | 40.5 | 28.8 | 53.9 | + 2.9 | 49.8 | 45.5 | 8.4 | 20.1 | 0.3 | 73 | 127.0 | 31.9 | 48.2 | 0.000 | 8.8 | 15.2 |
| 9 | 30.045 | 69.7 | 43.4 | 26.3 | 56.6 | + 5.4 | 51.3 | 45.9 | 10.7 | 18.0 | 1.2 | 67 | 130.0 | 34.1 | 48.6 | 0.000 | 9.5 | 15.2 |
| 10 | 30.093 | 68.3 | 46.1 | 22.2 | 57.3 | + 5.8 | 52.5 | 47.9 | 9.4 | 17.3 | 1.2 | 71 | 106.3 | 37.1 | 48.7 | 0.000 | 2.2 | 15.3 |
| 11 | 30.078 | 61.7 | 44.9 | 16.8 | 53.2 | + 1.4 | 48.6 | 43.5 | 9.7 | 20.0 | 2.6 | 70 | 127.7 | 38.5 | 49.0 | 0.000 | 4.5 | 15.4 |
| 12 | 29.954 | 53.4 | 44.2 | 9.2 | 48.4 | - 3.7 | 44.4 | 39.3 | 9.1 | 14.2 | 5.4 | 70 | 94.0 | 38.4 | 49.0 | 0.010 | 0.8 | 15.4 |
| 13 | 29.944 | 63.4 | 45.7 | 17.7 | 54.3 | + 1.9 | 47.5 | 39.3 | 15.0 | 28.7 | 2.7 | 56 | 124.1 | 35.0 | 49.3 | 0.000 | 13.7 | 15.5 |
| 14 | 29.810 | 62.1 | 40.6 | 21.5 | 50.2 | - 2.4 | 46.6 | 42.3 | 7.9 | 19.7 | 0.9 | 74 | 119.6 | 30.6 | 49.6 | 0.055 | 3.2 | 15.5 |
| 15 | 29.522 | 49.6 | 44.4 | 5.2 | 47.6 | - 5.2 | 46.1 | 44.4 | 3.2 | 7.1 | 1.9 | 88 | 63.8 | 40.9 | 49.3 | 0.154 | 0.0 | 15.6 |
| 16 | 29.524 | 58.2 | 45.5 | 12.7 | 49.9 | - 3.1 | 47.2 | 44.2 | 5.7 | 16.8 | 0.6 | 80 | 115.7 | 44.3 | 49.7 | 0.689 | 1.9 | 15.6 |
| 17 | 29.472 | 55.8 | 42.6 | 13.2 | 49.3 | - 3.8 | 47.2 | 44.9 | 4.4 | 9.6 | 0.4 | 85 | 112.6 | 33.3 | 49.7 | 0.132 | 0.7 | 15.7 |
| 18 | 29.567 | 54.4 | 42.1 | 12.3 | 48.3 | - 5.0 | 46.7 | 44.9 | 3.4 | 9.6 | 0.0 | 88 | 73.8 | 33.1 | 49.7 | 0.068 | 0.0 | 15.7 |
| 19 | 29.665 | 55.5 | 42.0 | 13.5 | 48.4 | - 5.1 | 43.5 | 36.9 | 11.5 | 18.6 | 3.2 | 64 | 111.8 | 33.8 | 49.5 | 0.000 | 5.3 | 15.8 |
| 20 | 29.734 | 63.1 | 39.9 | 23.2 | 51.2 | - 2.6 | 46.4 | 40.6 | 10.6 | 19.9 | 0.4 | 67 | 120.8 | 31.0 | 49.9 | 0.000 | 7.1 | 15.8 |
| 21 | 29.811 | 62.8 | 41.1 | 21.7 | 53.5 | - 0.7 | 48.9 | 43.9 | 9.6 | 19.5 | 0.7 | 70 | 121.1 | 37.0 | 49.8 | 0.000 | 4.9 | 15.9 |
| 22 | 29.995 | 67.9 | 42.5 | 25.4 | 56.7 | + 2.1 | 52.7 | 48.8 | 7.9 | 16.7 | 0.0 | 75 | 133.3 | 32.1 | 50.1 | 0.000 | 5.4 | 15.9 |
| 23 | 30.190 | 74.2 | 46.3 | 27.9 | 60.7 | + 5.8 | 55.3 | 50.5 | 10.2 | 18.4 | 0.2 | 69 | 137.8 | 36.6 | 50.2 | 0.000 | 10.5 | 16.0 |
| 24 | 30.213 | 74.9 | 46.6 | 28.3 | 61.3 | + 6.0 | 54.7 | 48.6 | 12.7 | 25.6 | 0.4 | 63 | 132.8 | 33.1 | 50.7 | 0.000 | 13.3 | 16.0 |
| 25 | 30.200 | 67.0 | 51.1 | 15.9 | 58.6 | + 3.1 | 53.9 | 49.6 | 9.0 | 18.7 | 3.1 | 72 | 118.3 | 42.0 | 50.8 | 0.000 | 5.9 | 16.0 |
| 26 | 30.209 | 66.3 | 46.8 | 19.5 | 56.3 | + 0.5 | 50.7 | 44.9 | 11.4 | 20.6 | 2.8 | 65 | 126.9 | 38.0 | 51.0 | 0.000 | 12.6 | 16.1 |
| 27 | 30.118 | 70.2 | 49.3 | 20.9 | 60.1 | + 4.1 | 55.5 | 51.4 | 8.7 | 16.3 | 2.6 | 73 | 134.1 | 38.0 | 51.3 | 0.000 | 4.3 | 16.1 |
| 28 | 30.237 | 64.8 | 45.9 | 18.9 | 56.5 | + 0.3 | 51.1 | 45.5 | 11.0 | 19.1 | 3.2 | 67 | 134.0 | 37.5 | 51.7 | 0.000 | 9.9 | 16.1 |
| 29 | 30.271 | 64.3 | 44.3 | 20.0 | 53.6 | - 2.8 | 49.0 | 44.0 | 9.6 | 19.3 | 3.4 | 70 | 130.3 | 38.1 | 51.8 | 0.000 | 11.7 | 16.2 |
| 30 | 30.200 | 65.0 | 47.9 | 17.1 | 56.1 | - 0.6 | 51.2 | 46.2 | 9.9 | 16.4 | 2.4 | 70 | 128.8 | 41.2 | 52.1 | 0.000 | 10.8 | 16.2 |
| 31 | 30.115 | 69.9 | 47.5 | 22.4 | 57.9 | + 0.8 | 53.0 | 48.4 | 9.5 | 19.3 | 3.0 | 70 | 134.9 | 43.2 | 52.2 | 0.000 | 10.3 | 16.3 |
| Means | 29.880 | 62.0 | 43.5 | 18.5 | 52.7 | - 0.3 | 48.7 | 44.3 | 8.4 | 17.1 | 1.6 | 73.4 | 115.5 | 35.9 | 49.6 | 1.642 | 5.9 | 15.6 |
| Number of Column for Reference | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic records. The average temperature (Column 8) 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.880 in., being 0.079 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 74.9 on May 24; the lowest in the month was 37.4 on May 4; and the range was 37.5.

The mean of all the highest daily readings in the month was 62.0, being 0.2 lower than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 43.5, being 0.7 lower than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 18.5, being 0.5 greater than the average for the 65 years, 1841-1905. †

The mean for the month was 52.7, being 0.3 lower than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|------------|------------|-----------------------------|--------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|----------------------|
| | POLARIS | | 5 URSAE MINORIS | | OBLER'S | | | Pressure on the Square Foot | | Robin- sch's | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Greatest | Mean of 24 Hourly Measures | | | | | | |
| | | | | | A.M. | P.M. | | | Horizontal Movement of the Air | | | | | |
| | hours | | hours | | | | | | miles | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h | |
| May | 1 | 0.0 | 0.00 | 0.0 | 0.00 | NE | NNE | 0.7 | 0.12 | 284 | c r c d | dd Nbst r ₀ | rr ₀ rr Nbst | rr r ₀ c |
| | 2 | 0.0 | 0.00 | 0.0 | 0.00 | NNE:N | NNE:NE | 2.4 | 0.30 | 352 | c | c Stcu | c | c r d ₀ c |
| | 3 | 4.0 | 0.62 | 3.9 | 0.59 | NE | NE:ESE:Cal | 0.6 | 0.07 | 249 | c | c b Frcu c Stcu y | c | c b x |
| | 4 | 3.6 | 0.55 | 3.5 | 0.54 | SSE:Cal | SSW:SSE | 0.2 | 0.04 | 198 | b c | c Stcu Frcu | d Stcu Frcu y | c b |
| | 5 | 4.3 | 0.65 | 4.2 | 0.64 | SSE:S | SSE:SSW | 2.2 | 0.13 | 253 | b c | c Ast Nbst r ₀ | c Nbst r ₀ Ast c | b |
| | 6 | 6.0 | 1.00 | 6.0 | 1.00 | Cal:E | ESE:Cal | 0.6 | 0.05 | 210 | b c w | c Cist Acu so-ha | bc y | bc b w |
| | 7 | 5.8 | 0.97 | 4.9 | 0.81 | Cal:NE | E:ESE | 0.3 | 0.03 | 172 | b w | b Cu Cist | b y c | c b |
| | 8 | 4.5 | 0.75 | 3.5 | 0.59 | Cal:SW | SW:E:Cal | 0.2 | 0.01 | 177 | b w | b z bc y | bc y | bc c bc w |
| | 9 | 5.3 | 0.87 | 5.1 | 0.85 | Cal | Cal | 0.1 | 0.00 | 159 | bc b w bc | bc c Cist Frcu y | c Frcu Cist y | c bc b |
| | 10 | 5.2 | 0.86 | 4.6 | 0.77 | Cal | Cal:NW | 0.3 | 0.02 | 162 | b c w | c Acu Ast z ₀ y | y Frcu Stcu y | c d c b |
| | 11 | 2.2 | 0.37 | 2.1 | 0.36 | NNW:NNE | N | 3.0 | 0.41 | 333 | b c | c b Acu Cu c | c Stcu | c b c |
| | 12 | 0.0 | 0.00 | 0.0 | 0.00 | NNW:N | N:NNE | 3.2 | 0.63 | 392 | c | c Stcu p | c d ₀ Nbst c | c |
| | 13 | 5.5 | 1.00 | 5.5 | 1.00 | NNE | NE:NNE | 3.8 | 0.78 | 396 | c b | b Ast y bc | bc y Ci b so-ha | b |
| | 14 | 0.0 | 0.00 | 0.0 | 0.00 | NNW:Cal | NW:W | 0.5 | 0.06 | 221 | b bc w | bc Ci b z ₀ so-ha Ast y | c ir ₀ r | c r c |
| | 15 | 0.0 | 0.00 | 0.0 | 0.00 | NW:NNW | Cal:NNE | 0.4 | 0.03 | 189 | c | c r id St Nb | c id c Nbst | c r d c |
| | 16 | 0.0 | 0.00 | 0.0 | 0.00 | N:NNE | NNE:N:NNW | 4.5 | 0.75 | 404 | rr c | c ir ir ₀ Nbst | c Stcu Acu Ast y | c r c |
| | 17 | 2.8 | 0.52 | 2.8 | 0.52 | NW:NNE:Cal | ESE:Cal | 0.4 | 0.03 | 204 | c rr c | c Nbst rr r ₀ c Ast | c Stcu | c bc c bc |
| | 18 | 0.5 | 0.08 | 0.4 | 0.07 | Cal:NNE | Cal:NNE | 0.2 | 0.02 | 195 | bc c m ₀ | c | c Nbst rr c | c |
| | 19 | 4.7 | 0.85 | 2.1 | 0.38 | NNE | NE:Cal | 0.6 | 0.04 | 213 | c | bc c Stcu y | c bc Stcu c y | bc b w |
| | 20 | 2.1 | 0.43 | 1.3 | 0.26 | Cal:SW | SSW:SW | 0.2 | 0.02 | 196 | b c b w | b c Frcu y | c Stcu y | c |
| | 21 | 4.9 | 0.98 | 4.9 | 0.98 | SSW:SW | W:WSW | 0.4 | 0.02 | 210 | c | c b Cu Cist bc Frcu y | c y | c b |
| | 22 | 5.0 | 1.00 | 5.0 | 1.00 | Cal:WSW | Cal:SW | 0.1 | 0.00 | 192 | b w | c w b Cicu Acu c Stcu y | c p ₀ c | c bc b w |
| | 23 | 5.0 | 1.00 | 5.0 | 1.00 | Cal | SE:Cal | 0.1 | 0.01 | 173 | b | b Frcu Cu Ci bc y | bc Frcu y b | b w |
| | 24 | 1.8 | 0.36 | 1.7 | 0.34 | Cal | ESE:Cal | 0.3 | 0.02 | 150 | b m f w | b z ₀ y | b Frcu y | b bc |
| | 25 | 0.0 | 0.00 | 0.0 | 0.00 | Cal:NNE | N:NNE | 1.4 | 0.16 | 273 | c z ₀ | c b z ₀ c y | c Acu Stcu y | c |
| | 26 | 3.7 | 0.73 | 3.4 | 0.69 | NNE | NNE:Cal | 0.7 | 0.06 | 227 | c | c b y | b y | b |
| | 27 | 0.7 | 0.14 | 0.7 | 0.14 | WSW | NNW:NE | 1.0 | 0.10 | 249 | b c | c Ci Cicu Acu | c | c b c |
| | 28 | 3.8 | 0.81 | 3.7 | 0.78 | NNE | NNE | 1.8 | 0.20 | 299 | c bc b | b c bc y | b y | b |
| | 29 | 2.7 | 0.56 | 2.7 | 0.56 | N:NNE | NE:ESE:E | 0.9 | 0.11 | 274 | b c | c b Cu y | b y | b |
| | 30 | 2.2 | 0.47 | 1.6 | 0.34 | ENE | NE:E | 1.8 | 0.18 | 289 | b c | c Stcu b Ci Frcu y | b Frcu y | b c w |
| | 31 | 4.7 | 1.00 | 4.7 | 1.00 | NE:ENE | ENE:NE | 1.5 | 0.16 | 294 | c | c b Frst z ₀ | b | b |
| | Means | 2.9 | 0.53 | 2.7 | 0.49 | ... | ... | ... | 0.15 | 245 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |

The mean Temperature of Evaporation for the month was 48°·7, being 0°·3 lower than
 The mean Temperature of the Dew Point for the month was 44°·4, being 0°·5 lower than
 The mean Degree of Humidity for the month was 78·4, being 0·5 less than
 The mean Elastic Force of Vapour for the month was 0·293 in., being 0·005 in. less than
 The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·0.
 The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0·381. The maximum daily amount of Sunshine was 13·7 hours on May 13.
 The highest reading of the Solar Radiation Thermometer was 137°·8 on May 23; and the lowest reading of the Terrestrial Radiation Thermometer was 28°·8 on May 3.
 The Proportions of Wind referred to the cardinal points were N.32, E.22, S.12, W.9, calm or nearly calm conditions, 25, the whole month being represented by 100.
 The Greatest Pressure of the Wind in the month was 4·5 lbs. on the square foot on May 16. The mean daily Horizontal Movement of the Air for the month was 245 miles; the greatest daily value was 404 miles on May 16, and the least daily value was 150 miles on May 24.
 Rain (0·005 in. or over) fell on 8 days in the month, amounting to 1·642 in., as measured by gauge No. 6 partly sunk below the ground; being 0·273 in. less than the average fall for the 65 years, 1841-1906.

the average for the 65 years, 1841-1906.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|----------------------------------|--------------------------|---------------------------|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | Mean of 24 Hourly Values | Deducted Mean Daily Value | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| June 1 | 30.109 | 65.7 | 47.1 | 18.6 | 54.5 | - 2.9 | 49.6 | 44.4 | 10.1 | 25.1 | 2.2 | 69 | 125.4 | 41.0 | 52.3 | 0.000 | 7.5 | 16.3 |
| 2 | 30.096 | 73.7 | 50.1 | 23.6 | 61.3 | + 3.5 | 53.9 | 46.7 | 14.6 | 32.8 | 3.9 | 59 | 133.8 | 44.6 | 52.8 | 0.000 | 12.1 | 16.3 |
| 3 | 30.106 | 71.4 | 47.8 | 23.6 | 60.2 | + 2.1 | 50.2 | 38.5 | 21.7 | 36.1 | 5.3 | 44 | 131.8 | 37.3 | 52.9 | 0.000 | 14.3 | 16.4 |
| 4 | 30.081 | 73.5 | 45.1 | 28.4 | 61.2 | + 2.9 | 51.3 | 40.3 | 20.9 | 29.3 | 4.5 | 46 | 133.1 | 30.1 | 53.1 | 0.000 | 15.1 | 16.4 |
| 5 | 30.081 | 75.9 | 48.0 | 27.9 | 63.7 | + 5.3 | 53.8 | 43.8 | 19.9 | 33.3 | 5.0 | 48 | 137.6 | 34.6 | 53.3 | 0.000 | 13.7 | 16.4 |
| 6 | 30.000 | 82.6 | 56.2 | 26.4 | 69.0 | +10.7 | 62.2 | 57.4 | 11.6 | 22.5 | 2.3 | 67 | 140.1 | 49.1 | 53.6 | 0.000 | 13.5 | 16.4 |
| 7 | 29.978 | 85.2 | 57.1 | 28.1 | 70.8 | +12.6 | 63.1 | 57.8 | 13.0 | 22.4 | 1.5 | 63 | 139.0 | 46.6 | 53.8 | 0.000 | 12.9 | 16.5 |
| 8 | 30.046 | 73.7 | 51.4 | 22.3 | 62.8 | + 4.7 | 56.2 | 50.4 | 12.4 | 18.4 | 3.6 | 64 | 133.0 | 43.5 | 54.1 | 0.000 | 10.5 | 16.5 |
| 9 | 30.125 | 65.6 | 46.6 | 19.0 | 56.5 | - 1.5 | 49.9 | 42.7 | 13.8 | 20.3 | 4.1 | 59 | 132.4 | 33.6 | 54.2 | 0.000 | 12.0 | 16.5 |
| 10 | 29.830 | 78.8 | 45.0 | 33.8 | 62.7 | + 4.6 | 54.2 | 45.9 | 16.8 | 25.4 | 3.9 | 54 | 135.6 | 33.1 | 54.6 | 0.000 | 13.7 | 16.5 |
| 11 | 29.563 | 63.0 | 48.0 | 15.0 | 56.7 | - 1.5 | 52.5 | 48.5 | 8.2 | 18.5 | 0.9 | 74 | 125.3 | 44.7 | 54.6 | 0.407 | 3.0 | 16.5 |
| 12 | 29.694 | 61.0 | 44.8 | 16.2 | 51.2 | - 7.2 | 46.3 | 40.3 | 10.9 | 22.3 | 1.2 | 67 | 123.8 | 37.1 | 54.8 | 0.109 | 8.3 | 16.6 |
| 13 | 29.820 | 59.7 | 42.9 | 16.8 | 50.7 | - 7.8 | 45.3 | 38.4 | 12.3 | 19.8 | 3.4 | 63 | 123.0 | 33.8 | 54.7 | 0.000 | 5.3 | 16.6 |
| 14 | 29.753 | 65.6 | 47.6 | 18.0 | 55.7 | - 3.0 | 52.5 | 49.5 | 6.2 | 15.8 | 2.9 | 80 | 133.6 | 43.2 | 54.8 | 0.000 | 2.0 | 16.6 |
| 15 | 29.664 | 64.1 | 54.6 | 9.5 | 59.5 | + 0.7 | 56.0 | 53.1 | 6.4 | 12.1 | 3.2 | 79 | 109.2 | 51.0 | 54.8 | 0.002 | 0.2 | 16.6 |
| 16 | 29.616 | 62.3 | 52.4 | 9.9 | 58.0 | - 0.9 | 55.8 | 53.9 | 4.1 | 11.1 | 1.3 | 86 | 91.5 | 44.5 | 54.8 | 0.136 | 0.8 | 16.6 |
| 17 | 29.805 | 66.9 | 46.1 | 20.8 | 57.7 | - 1.3 | 52.7 | 47.9 | 9.8 | 17.9 | 1.9 | 70 | 131.4 | 38.1 | 54.8 | 0.000 | 8.4 | 16.6 |
| 18 | 29.784 | 66.2 | 51.9 | 14.3 | 58.9 | - 0.3 | 55.5 | 52.6 | 6.3 | 14.4 | 2.0 | 79 | 116.1 | 45.9 | 54.8 | 0.089 | 4.9 | 16.6 |
| 19 | 29.862 | 67.2 | 49.9 | 17.3 | 58.0 | - 1.5 | 52.2 | 46.5 | 11.5 | 22.6 | 3.9 | 65 | 120.1 | 39.4 | 54.8 | 0.000 | 3.5 | 16.6 |
| 20 | 29.888 | 63.7 | 48.8 | 14.9 | 54.9 | - 5.0 | 51.0 | 47.1 | 7.8 | 11.7 | 2.6 | 75 | 126.3 | 36.1 | 54.8 | 0.064 | 1.3 | 16.6 |
| 21 | 29.877 | 69.0 | 52.2 | 16.8 | 58.9 | - 1.4 | 55.8 | 53.2 | 5.7 | 17.1 | 1.5 | 81 | 134.8 | 44.2 | 54.9 | 0.072 | 2.3 | 16.6 |
| 22 | 29.798 | 62.3 | 52.9 | 9.4 | 57.2 | - 3.4 | 55.9 | 54.9 | 2.3 | 7.6 | 0.9 | 91 | 87.3 | 52.1 | 54.9 | 0.000 | 0.3 | 16.6 |
| 23 | 29.670 | 61.0 | 52.8 | 8.2 | 55.5 | - 5.4 | 53.9 | 52.5 | 3.0 | 6.2 | 1.4 | 90 | 80.4 | 52.0 | 54.9 | 0.018 | 0.0 | 16.6 |
| 24 | 29.497 | 59.1 | 50.6 | 8.5 | 54.0 | - 7.2 | 51.1 | 48.3 | 5.7 | 9.9 | 2.4 | 81 | 89.2 | 49.8 | 55.0 | 0.000 | 0.0 | 16.6 |
| 25 | 29.563 | 60.2 | 47.8 | 12.4 | 53.5 | - 7.9 | 48.8 | 43.7 | 9.8 | 15.4 | 4.8 | 69 | 108.9 | 44.8 | 54.9 | 0.000 | 0.8 | 16.6 |
| 26 | 29.818 | 64.9 | 48.0 | 16.9 | 55.6 | - 5.9 | 51.1 | 46.6 | 9.0 | 19.8 | 1.5 | 71 | 120.1 | 39.9 | 55.0 | 0.043 | 4.8 | 16.6 |
| 27 | 30.025 | 71.9 | 45.2 | 26.7 | 59.5 | - 2.1 | 52.9 | 46.5 | 13.0 | 24.2 | 1.1 | 62 | 137.5 | 33.6 | 55.1 | 0.000 | 12.0 | 16.6 |
| 28 | 29.765 | 66.1 | 56.8 | 9.3 | 61.4 | - 0.2 | 57.4 | 54.2 | 7.2 | 14.8 | 3.5 | 77 | 110.7 | 52.7 | 55.0 | 0.012 | 0.9 | 16.6 |
| 29 | 29.736 | 74.0 | 54.3 | 19.7 | 62.9 | + 1.3 | 56.4 | 50.8 | 12.1 | 34.0 | 3.6 | 65 | 138.8 | 44.6 | 55.1 | 0.013 | 7.1 | 16.6 |
| 30 | 29.709 | 66.6 | 49.8 | 16.8 | 57.6 | - 3.9 | 53.8 | 50.3 | 7.3 | 16.1 | 1.6 | 77 | 129.2 | 38.2 | 55.3 | 0.417 | 4.8 | 16.6 |
| Means | 29.845 | 68.0 | 49.7 | 18.3 | 58.7 | - 0.7 | 53.3 | 48.2 | 10.4 | 19.9 | 2.7 | 69.2 | 122.6 | 42.0 | 54.4 | Sum 1.382 | 6.5 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.845 in., being 0.023 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 85.2 on June 7; the lowest in the month was 42.9 on June 13; and the range was 42.3.

The mean of all the highest daily readings in the month was 68.0, being 0.9 lower than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 49.7, being 0.7 lower than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 18.3, being 0.2 less than the average for the 65 years, 1841-1905. †

The mean for the month was 58.7, being 0.7 lower than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1839 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|----------------|----------------------------|---|----------|-----------------------------|----------------------------|--------------------------------|----------------------------------|---------------------------------------|------------------------------------|------------------------------------|
| | POLARIS | | 6 URSÆ MINORIS | | OSLER'S | | | Robinson's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| June 1 | 1.1 | 0.24 | 0.4 | 0.08 | NNE | NNE | 3.0 | 0.50 | 381 | b c | c Stcu | c b y | b c |
| 2 | 4.7 | 1.00 | 4.7 | 1.00 | NNE:NE | NE | 2.8 | 0.48 | 377 | c | c b Frcu Cu Ci y | b y | b |
| 3 | 4.5 | 1.00 | 4.5 | 1.00 | NE:ENE | ENE:NE | 2.7 | 0.42 | 341 | b | b bc Ci y so-ha | b y v | b y |
| 4 | 4.5 | 1.00 | 4.5 | 1.00 | ENE | E | 2.3 | 0.26 | 299 | b | b y | b y | b y |
| 5 | 2.1 | 0.47 | 1.9 | 0.43 | ENE:E | E | 1.7 | 0.17 | 290 | b | b Cist y | b Ci y | bc |
| 6 | 4.5 | 1.00 | 4.5 | 1.00 | ENE | E | 1.1 | 0.07 | 240 | bc b | b Ci y | b Cist y | b |
| 7 | 3.9 | 0.87 | 3.9 | 0.87 | Calm:NE | E:ESE | 0.6 | 0.05 | 205 | b m z _o | b z _o y | b z _o y | b c b |
| 8 | 4.5 | 1.00 | 4.5 | 1.00 | NE:N | NE:ENE | 2.0 | 0.14 | 267 | b | b Cist z _o | b c y | c b |
| 9 | 4.5 | 1.00 | 4.5 | 1.00 | NE:ENE | ESE:Calm | 1.2 | 0.07 | 234 | b | b Acu Ast Cist so-ha y | b y | b |
| 10 | 0.2 | 0.05 | 0.2 | 0.05 | Calm:SW | SW | 1.7 | 0.11 | 254 | b c | c y bc Ci b | b Ci y | bc c |
| 11 | 0.7 | 0.15 | 0.6 | 0.14 | Calm:N | NNW:N | 2.5 | 0.12 | 239 | c r _o rr R | rrc ir _o | c r c | c rtl |
| 12 | 3.3 | 0.73 | 3.1 | 0.69 | N | NW:NNE | 2.1 | 0.23 | 294 | rtl c bc | bc Frcu c y | c ir _o y | c b |
| 13 | 0.0 | 0.00 | 0.0 | 0.00 | NNW | NW:SSE | 1.1 | 0.06 | 237 | b c | c y | c Stcu r _o c y | c r _o c |
| 14 | 0.1 | 0.03 | 0.1 | 0.03 | Calm:SSW | SSW | 0.9 | 0.10 | 255 | c | c Acu bc c Stcu y | c ir _o | c |
| 15 | 0.1 | 0.02 | 0.1 | 0.02 | SSW | SW:SSW | 2.0 | 0.34 | 344 | c r _o c | c id _o Nbst r _o | c Nbst p _o c | c |
| 16 | 4.1 | 0.91 | 3.8 | 0.85 | SSW | S:SW | 1.1 | 0.14 | 262 | c r c | c Nbst rr | rr r _o r _o c | c b |
| 17 | 2.3 | 0.50 | 1.9 | 0.43 | WSW:SW | SW:SSW | 1.0 | 0.11 | 273 | b | b bc Frst Ci Stcu Frcu y | c y | c bc |
| 18 | 2.3 | 0.51 | 2.1 | 0.47 | S:SSW | SW | 4.0 | 0.31 | 324 | bc | b c Acu Frst | c p c | c p c bc |
| 19 | 2.2 | 0.50 | 2.2 | 0.50 | W:WNW | WNW:NNW | 2.8 | 0.22 | 315 | bc b c | c Stcu Frcu y | c Stcu Frst | c b |
| 20 | 2.2 | 0.49 | 1.9 | 0.43 | WSW:Calm | Var:ENE | 0.6 | 0.04 | 202 | b c | c r | rRt c ir | c b |
| 21 | 0.0 | 0.00 | 0.0 | 0.00 | NE:NNE | NE | 4.3 | 0.51 | 398 | b c | c Nbst ir c Stcu Ast | c Frst | c |
| 22 | 0.0 | 0.00 | 0.0 | 0.00 | NE:NNE | NNE | 2.5 | 0.23 | 332 | c | o St m _o r _o | oc St | c |
| 23 | 0.0 | 0.00 | 0.0 | 0.00 | NNE | NNW | 1.2 | 0.06 | 252 | c r _o r c | c m _o | c | c |
| 24 | 0.0 | 0.00 | 0.0 | 0.00 | NNW:NNE | NNE | 1.2 | 0.12 | 266 | c | c | c | c |
| 25 | 0.0 | 0.00 | 0.0 | 0.00 | N | N:NNE | 0.6 | 0.06 | 230 | c | c Stcu | c | c |
| 26 | 4.5 | 1.00 | 4.5 | 1.00 | Calm | Calm:SSW | 0.6 | 0.01 | 173 | c | b c Nbst Frcu Cunb y | c Cunb Frcu r c | c bc b |
| 27 | 0.0 | 0.00 | 0.0 | 0.00 | SW | SSW:S | 0.8 | 0.08 | 250 | b | b bc Cu Acu Frcu y | c b Frcu c y | c |
| 28 | 1.1 | 0.24 | 1.1 | 0.24 | S:SSW | SSW:SW | 2.5 | 0.35 | 346 | c p c | c ir _o | c Nbst | c |
| 29 | 4.5 | 1.00 | 4.5 | 1.00 | SW:WSW | WSW:SW | 3.0 | 0.31 | 348 | bc c | c Nbst r c Frcu | c Acu y | c b |
| 30 | 4.5 | 1.00 | 4.5 | 1.00 | SSW:SW | SSW:WSW | 1.9 | 0.08 | 263 | b bc c | c Stcu | c iR | c b |
| Means | 2.2 | 0.49 | 2.1 | 0.47 | ... | ... | ... | 0.19 | 283 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 53°·3, being 1°·6 lower than

The mean *Temperature of the Dew Point* for the month was 48°·2, being 2°·6 lower than

The mean *Degree of Humidity* for the month was 69·2, being 4·0 less than

The mean *Elastic Force of Vapour* for the month was 0·339 in., being 0·036 in. 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 6·2.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·393. The maximum daily amount of *Sunshine* was 15·1 hours June 4.

The highest reading of the *Solar Radiation Thermometer* was 140°·1 on June 6; and the lowest reading of the *ferrestrial Radiation Thermometer* was 30°·1 on June 4.

The *Proportions of Wind* referred to the cardinal points were N.29, E.22, S.21, W.19, calm or nearly calm conditions, 9, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 4·3 lbs. on the square foot on June 21. The mean daily *Horizontal Movement of the Air* for the month was 283 miles; the greatest daily value was 398 miles on June 21, and the least daily value was 202 miles on June 20.

Rain (0·005 in. or over) fell on 11 days in the month, amounting to 1·382 in., as measured by gauge No.6 partly sunk below the ground; being 0·656 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit) | 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 6 inches above the ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------------|--|-------------|--------|----------------|-----------------------------------|--|-----------------------------------|------------------------------------|---|----------|-------|--|-----------------------------|---------------------------|---|--|-------------------------------|-------------------|
| | | Of the Air | | | | | Of Evapo- ration | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | Mean of 24 Hourly Values | Deducted Mean Daily Value | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| July 1 | 29.720 | 66.4 | 48.0 | 18.4 | 56.4 | - 5.1 | 51.7 | 47.1 | 9.3 | 19.7 | 0.8 | 71 | 125.0 | 34.9 | 55.2 | 0.009 | 6.8 | 16.6 |
| 2 | 29.909 | 66.0 | 44.4 | 21.6 | 56.3 | - 5.3 | 51.8 | 47.4 | 8.9 | 19.5 | 2.5 | 72 | 118.3 | 31.6 | 55.5 | 0.023 | 6.4 | 16.6 |
| 3 | 29.956 | 71.2 | 52.8 | 18.4 | 61.1 | - 0.7 | 55.0 | 49.5 | 11.6 | 20.9 | 2.3 | 66 | 137.9 | 43.7 | 55.4 | 0.000 | 6.6 | 16.5 |
| 4 | 29.749 | 80.4 | 55.5 | 24.9 | 67.8 | + 5.7 | 59.3 | 52.5 | 15.3 | 28.0 | 5.3 | 58 | 137.0 | 47.2 | 55.7 | 0.080 | 5.0 | 16.5 |
| 5 | 29.606 | 71.7 | 55.4 | 16.3 | 63.9 | + 1.6 | 58.0 | 53.2 | 10.7 | 19.7 | 4.7 | 68 | 130.6 | 48.6 | 55.7 | 0.020 | 4.4 | 16.5 |
| 6 | 29.816 | 65.7 | 52.2 | 13.5 | 58.5 | - 3.9 | 54.9 | 51.8 | 6.7 | 16.3 | 1.9 | 78 | 128.1 | 48.4 | 55.8 | 0.178 | 3.1 | 16.5 |
| 7 | 29.756 | 73.3 | 56.9 | 16.4 | 63.0 | + 0.6 | 58.7 | 55.4 | 7.6 | 18.2 | 3.5 | 76 | 133.1 | 52.1 | 55.9 | 0.030 | 7.2 | 16.5 |
| 8 | 29.715 | 67.4 | 58.6 | 8.8 | 62.5 | + 0.1 | 59.8 | 57.9 | 4.6 | 10.8 | 1.7 | 85 | 92.8 | 52.8 | 56.1 | 0.015 | 0.3 | 16.4 |
| 9 | 29.742 | 70.5 | 55.7 | 14.8 | 63.1 | + 0.7 | 56.6 | 51.0 | 12.1 | 23.0 | 3.2 | 65 | 135.2 | 51.2 | 56.3 | 0.000 | 10.3 | 16.4 |
| 10 | 29.983 | 68.7 | 51.8 | 16.9 | 60.1 | - 2.4 | 54.2 | 48.8 | 11.3 | 18.5 | 2.0 | 66 | 125.8 | 44.6 | 56.2 | 0.000 | 8.3 | 16.4 |
| 11 | 30.028 | 69.4 | 49.8 | 19.6 | 59.7 | - 3.0 | 52.7 | 45.7 | 14.0 | 21.0 | 4.4 | 60 | 131.0 | 36.1 | 56.6 | 0.000 | 8.1 | 16.3 |
| 12 | 29.923 | 69.2 | 53.3 | 15.9 | 60.8 | - 2.1 | 53.5 | 46.3 | 14.5 | 20.1 | 4.2 | 59 | 129.5 | 45.6 | 56.7 | 0.000 | 5.0 | 16.3 |
| 13 | 29.716 | 72.1 | 50.1 | 22.0 | 61.5 | - 1.6 | 55.2 | 49.5 | 12.0 | 24.1 | 1.7 | 65 | 131.6 | 37.0 | 56.7 | 0.000 | 8.0 | 16.3 |
| 14 | 29.455 | 69.9 | 50.0 | 19.9 | 60.1 | - 3.2 | 55.9 | 52.3 | 7.8 | 18.1 | 0.9 | 75 | 131.1 | 36.4 | 56.7 | 0.010 | 5.5 | 16.3 |
| 15 | 29.434 | 72.0 | 54.0 | 18.0 | 63.2 | - 0.2 | 57.8 | 53.4 | 9.8 | 18.9 | 0.9 | 71 | 137.2 | 44.2 | 56.8 | 0.000 | 7.3 | 16.2 |
| 16 | 29.373 | 73.2 | 56.1 | 17.1 | 62.8 | - 0.6 | 58.1 | 54.4 | 8.4 | 19.7 | 1.3 | 74 | 134.7 | 49.3 | 56.8 | 0.012 | 8.2 | 16.2 |
| 17 | 29.466 | 72.2 | 54.8 | 17.4 | 61.1 | - 2.3 | 57.4 | 54.4 | 6.7 | 16.0 | 1.8 | 79 | 131.9 | 48.4 | 57.0 | 0.087 | 2.8 | 16.1 |
| 18 | 29.595 | 71.1 | 54.0 | 17.1 | 61.9 | - 1.4 | 58.4 | 55.7 | 6.2 | 15.6 | 1.3 | 80 | 121.6 | 48.0 | 57.1 | 0.066 | 3.9 | 16.1 |
| 19 | 29.496 | 69.2 | 54.5 | 14.7 | 62.0 | - 1.2 | 58.7 | 56.2 | 5.8 | 13.5 | 0.7 | 81 | 122.1 | 43.8 | 57.1 | 0.040 | 5.9 | 16.1 |
| 20 | 29.646 | 68.7 | 53.8 | 14.9 | 60.0 | - 3.2 | 57.3 | 55.1 | 4.9 | 15.4 | 0.8 | 84 | 132.4 | 45.0 | 57.2 | 0.430 | 1.3 | 16.0 |
| 21 | 29.738 | 69.2 | 56.1 | 13.1 | 60.1 | - 3.1 | 58.7 | 57.7 | 2.4 | 10.3 | 0.9 | 92 | 119.1 | 49.8 | 57.2 | 0.825 | 1.6 | 16.0 |
| 22 | 29.677 | 67.0 | 56.1 | 10.9 | 60.7 | - 2.4 | 58.7 | 57.3 | 3.4 | 12.9 | 0.0 | 88 | 111.5 | 49.8 | 57.3 | 0.004 | 0.4 | 16.0 |
| 23 | 29.592 | 66.3 | 49.2 | 17.1 | 59.6 | - 3.4 | 54.2 | 49.3 | 10.3 | 19.9 | 1.1 | 69 | 124.9 | 40.0 | 57.5 | 0.000 | 3.7 | 15.9 |
| 24 | 29.455 | 62.3 | 47.7 | 14.6 | 53.4 | - 9.5 | 50.3 | 47.1 | 6.3 | 14.6 | 1.2 | 79 | 116.9 | 37.8 | 57.2 | 0.178 | 2.7 | 15.9 |
| 25 | 29.759 | 72.1 | 48.2 | 23.9 | 60.6 | - 2.1 | 54.1 | 48.0 | 12.6 | 22.4 | 2.2 | 63 | 124.3 | 41.1 | 57.6 | 0.000 | 11.5 | 15.8 |
| 26 | 29.837 | 66.0 | 53.7 | 12.3 | 58.5 | - 4.0 | 55.6 | 53.2 | 5.3 | 11.1 | 1.3 | 82 | 93.1 | 42.0 | 57.4 | 0.017 | 0.9 | 15.8 |
| 27 | 29.932 | 74.8 | 50.0 | 24.8 | 63.1 | + 0.7 | 57.9 | 53.7 | 9.4 | 21.0 | 0.8 | 72 | 134.2 | 38.1 | 57.1 | 0.000 | 7.7 | 15.7 |
| 28 | 29.843 | 71.8 | 59.3 | 12.5 | 65.1 | + 2.8 | 61.0 | 58.0 | 7.1 | 13.7 | 2.3 | 78 | 121.5 | 51.8 | 57.6 | 0.001 | 3.0 | 15.7 |
| 29 | 29.654 | 71.3 | 59.6 | 11.7 | 65.3 | + 3.0 | 62.1 | 59.9 | 5.4 | 10.1 | 3.4 | 83 | 118.6 | 52.3 | 57.6 | 0.000 | 1.3 | 15.6 |
| 30 | 29.544 | 75.5 | 57.2 | 18.3 | 65.6 | + 3.3 | 60.8 | 57.4 | 8.2 | 20.8 | 1.4 | 75 | 138.1 | 50.0 | 57.7 | 0.001 | 5.1 | 15.6 |
| 31 | 29.706 | 68.1 | 54.6 | 13.5 | 60.5 | - 1.7 | 56.9 | 53.9 | 6.6 | 16.4 | 1.5 | 79 | 120.7 | 47.3 | 57.8 | 0.333 | 7.3 | 15.5 |
| Means | 29.704 | 70.1 | 53.3 | 16.8 | 61.2 | - 1.4 | 56.6 | 52.7 | 8.6 | 17.7 | 2.0 | 74.0 | 125.5 | 44.8 | 56.7 | 2.359 | 5.1 | 16.1 |
| Number of Column for Reference | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.704 in., being 0.102 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 80.4 on July 4; the lowest in the month was 44.4 on July 21 and the range was 36.0.

The mean of all the highest daily readings in the month was 70.1, being 2.0 lower than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 53.3, being 0.5 lower than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 16.8, being 1.5 less than the average for the 65 years, 1841-1905. †

The mean for the month was 61.2, being 1.4 lower than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed affect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER * | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|-------------|-----------------------------|----------------------------|--------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| | POLARIS | | S URSAE MINORIS | | OSLER'S | | | Robinson's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | | | | |
| hours | hours | hours | hours | lbs. | lbs. | lbs. | lbs. | miles | | | | | |
| July 1 | 4.3 | 0.95 | 4.3 | 0.95 | Calm:NNW | NNW:N | 1.8 | 0.12 | 253 | b c | c b c y | c y | c p b |
| 2 | 3.3 | 0.75 | 3.3 | 0.75 | SW:WSW | SW | 2.0 | 0.17 | 303 | b | bc c Frst Nbst y | c p c | c b |
| 3 | 1.6 | 0.35 | 1.4 | 0.32 | SW | SSW:SE | 1.2 | 0.08 | 259 | bc c | c bc Stcu c y | c bc y | b c |
| 4 | 3.7 | 0.83 | 3.5 | 0.79 | SE:SSE | SSE | 2.3 | 0.15 | 261 | c | c Nbst r y | c y | c y bc b |
| 5 | 3.6 | 0.80 | 3.6 | 0.80 | SE:SSW | SW:SSW | 2.4 | 0.28 | 334 | b c r c | c Nbst ir c Frcu Cist y | c y b Cist Acu bc c | c bc |
| 6 | 0.0 | 0.00 | 0.0 | 0.00 | SW | SW:SSW | 5.2 | 0.77 | 395 | bc c rr c | c r c Frcu Nbst y | c ir Nbst Frst c | c ir. |
| 7 | 1.1 | 0.25 | 0.9 | 0.20 | SSW:SW | SW | 3.6 | 0.58 | 417 | c r c | c Nbst r d, ir, Stcu | bc b Acu y | b c |
| 8 | 0.7 | 0.15 | 0.6 | 0.13 | SSW:SW | SW | 7.0 | 0.69 | 402 | c r c | c St | c r c | c |
| 9 | 4.6 | 0.93 | 4.6 | 0.93 | WSW:W | W:WSW | 2.4 | 0.40 | 379 | c | c bc y | bc y r, bc | bc b |
| 10 | .. | .. | .. | .. | W:NW | NW:N | 1.4 | 0.10 | 277 | b c | c Stcu Frst y | c Frcu y | c |
| 11 | 0.0 | 0.00 | 0.0 | 0.00 | NW:WNW | NW:NNW | 0.7 | 0.06 | 247 | c b | b bc Frst y | bc c y | c |
| 12 | 5.0 | 1.00 | 5.0 | 1.00 | NNW:NW | Calm:WSW:SW | 0.3 | 0.04 | 220 | c | c bc Frcu y | c y Frcu | bc b bc b w |
| 13 | 4.0 | 0.80 | 3.1 | 0.61 | WSW:SW | SW:S | 1.8 | 0.08 | 250 | b | b bc Frcu c Stcu y | c y | c b |
| 14 | 2.5 | 0.49 | 2.3 | 0.47 | S:SSW | SSW | 2.5 | 0.24 | 296 | b c ir. | c Nbst idd, Ast | c bc Cu Nbst y | bc b c |
| 15 | 1.8 | 0.35 | 1.6 | 0.30 | S:SSW | S:SSE | 1.3 | 0.13 | 273 | c | c Frcu Nbst Stcu | c p v y | c bc |
| 16 | 1.9 | 0.35 | 1.7 | 0.32 | S:SSW | SSW | 1.6 | 0.11 | 265 | bc c ir c | c Acu Cu y | c y | c b c r. |
| 17 | 3.1 | 0.60 | 3.0 | 0.57 | SW:WSW | SW:SSW | 2.4 | 0.14 | 285 | c | c Acu Frcu bc y | c tlr Cunb Acu | bc b bc |
| 18 | 1.6 | 0.30 | 1.5 | 0.29 | SSW | SSE:S | 1.3 | 0.08 | 245 | bc c | c bc Frcu Acu Nbst id | c rd ir | cp bc c bc |
| 19 | 4.9 | 0.92 | 4.9 | 0.92 | S:SSW | S:SSW | 1.8 | 0.14 | 271 | bc c b | b c Nbst d, ir | c bc Acu Frcu | bc b |
| 20 | 0.0 | 0.00 | 0.0 | 0.00 | SSW | SSW | 1.4 | 0.10 | 270 | b bc p | bc c Nbst p, c | c ir | c ir rr R |
| 21 | 1.5 | 0.29 | 1.5 | 0.29 | SSW | SW:SSW | 1.3 | 0.03 | 222 | rrRc | c ir t Nbst c rr | e ir tt p | ctc b c |
| 22 | 0.0 | 0.00 | 0.0 | 0.00 | SSW:WSW | SW | 0.7 | 0.07 | 252 | c | c | c r. | c id. |
| 23 | 4.5 | 0.78 | 4.0 | 0.70 | NW:W:WSW | WSW:SW | 1.0 | 0.10 | 286 | c r, c | c y | c y r. | c b |
| 24 | 5.7 | 0.98 | 5.6 | 0.97 | SSW:WSW | NW:NNW | 2.6 | 0.06 | 237 | b c rR | rRc Cunb Nbst Acu | c ir, it ir | c r c bc p b |
| 25 | 0.5 | 0.08 | 0.3 | 0.04 | NW:NNW | NW:WSW | 0.8 | 0.09 | 253 | b c b | b bc Frcu Cu y | bc Frcu Cu y | bc c d. |
| 26 | 5.7 | 1.00 | 5.7 | 1.00 | Calm | Calm:SW | 0.2 | 0.00 | 165 | c | c ir | c Ast Stcu | bc b w m. |
| 27 | 0.0 | 0.00 | 0.0 | 0.00 | WSW | SW | 0.8 | 0.08 | 256 | b w m. | b Ci Cu x, y | b c Stcu v y | c d, c |
| 28 | 3.7 | 0.64 | 3.6 | 0.63 | SW | SW:SSW | 1.5 | 0.14 | 296 | c r c | c Stcu | c Stcu | c b w |
| 29 | 3.2 | 0.51 | 3.0 | 0.48 | SSW | SW:SSW | 1.7 | 0.20 | 311 | b c | c Acu Nbst | c Frcu | d, c bc |
| 30 | 5.1 | 0.81 | 5.0 | 0.79 | S:SW | WSW:SW | 1.5 | 0.14 | 287 | bc c r. | c d, Stcu bc c y | c b y v c | c b |
| 31 | 4.4 | 0.71 | 4.3 | 0.68 | SW | SW | 3.8 | 0.19 | 346 | b | b c Stcu Frcu Nbst r | c ir Rtl Nbst c | bc b c b |
| Means | 2.7 | 0.52 | 2.6 | 0.50 | ... | ... | ... | 0.18 | 284 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean temperature of Evaporation for the month was 56°.6, being 1°.3 lower than the average for the 65 years, 1841-1905.

The mean temperature of the Dew Point for the month was 52°.7, being 1°.4 lower than the average for the 65 years, 1841-1905.

The mean Degree of Humidity for the month was 74.0, being 0.8 greater than the average for the 65 years, 1841-1905.

The mean Elastic Force of Vapour for the month was 0.401 in., being 0.020 in. 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 7.2.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.319. The maximum daily amount of Sunshine was 11.5 hours on July 25.

The highest reading of the Solar Radiation Thermometer was 138°.1 on July 30; and the lowest reading of the terrestrial Radiation Thermometer was 31°.6 on July 8.

The Proportions of Wind referred to the cardinal points were N.8, E.2, S.46, W.38, calm or nearly calm conditions 6, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 7.0 lbs. on the square foot on July 8. The mean daily Horizontal Movement of the Air for the month was 284 miles; the greatest daily value was 417 miles on July 7, and the least daily value was 165 miles on July 26.

Rain (0.005 in. or over) fell on 17 days in the month, amounting to 2.359 in., as measured by gauge No.6 partly sunk below the ground; being 0.040 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected to 32° and reduced to 32° Fahrenheit) | 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 | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|--|-------------|--------|-------------|--------------------------|----------------------------------|--------------------------|----------------------------|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | Mean of 24 Hourly Values | Deducted Mean Daily Value. | | | | | Highest In Sun's Rays | Lowest on the Grass | Of the Earth 4 ft. below the Surface of the Soil | | | |
| Aug. 1 | 29.899 | 71.8 | 53.6 | 18.2 | 61.2 | - 1.0 | 57.2 | 53.9 | 7.3 | 17.0 | 2.1 | 77 | 129.2 | 48.1 | 58.0 | 0.240 | 4.3 | 15.5 |
| 2 | 29.895 | 69.0 | 52.2 | 16.8 | 59.7 | - 2.4 | 56.0 | 52.9 | 6.8 | 17.0 | 0.2 | 78 | 122.1 | 47.0 | 58.1 | 0.020 | 1.9 | 15.4 |
| 3 | 29.627 | 58.0 | 54.0 | 4.0 | 55.9 | - 6.2 | 55.2 | 54.6 | 1.3 | 4.6 | 1.1 | 95 | 80.5 | 51.6 | 58.0 | 0.888 | 0.5 | 15.4 |
| 4 | 29.686 | 64.0 | 54.8 | 9.2 | 58.6 | - 3.5 | 57.2 | 56.1 | 2.5 | 10.1 | 0.4 | 91 | 113.7 | 53.2 | 58.1 | 0.546 | 0.7 | 15.3 |
| 5 | 29.665 | 64.3 | 52.4 | 11.9 | 58.8 | - 3.3 | 57.2 | 55.9 | 2.9 | 9.0 | 0.9 | 90 | 117.3 | 44.6 | 58.2 | 0.556 | 2.9 | 15.3 |
| 6 | 29.695 | 71.8 | 52.3 | 19.5 | 60.8 | - 1.4 | 57.2 | 54.3 | 6.5 | 17.1 | 0.2 | 79 | 131.4 | 44.0 | 58.2 | 0.000 | 4.5 | 15.2 |
| 7 | 29.636 | 65.0 | 52.2 | 12.8 | 57.9 | - 4.3 | 56.0 | 54.4 | 3.5 | 8.8 | 0.2 | 88 | 93.8 | 43.3 | 58.2 | 0.015 | 0.7 | 15.1 |
| 8 | 29.607 | 70.7 | 53.1 | 17.6 | 60.2 | - 2.1 | 57.4 | 55.1 | 5.1 | 12.8 | 0.6 | 83 | 131.7 | 45.0 | 58.3 | 0.116 | 3.5 | 15.1 |
| 9 | 29.723 | 68.7 | 51.7 | 17.0 | 59.9 | - 2.4 | 57.4 | 55.3 | 4.6 | 15.6 | 0.8 | 85 | 127.7 | 45.6 | 58.3 | 0.002 | 1.7 | 15.0 |
| 10 | 29.721 | 67.6 | 57.6 | 10.0 | 62.5 | + 0.2 | 60.6 | 59.3 | 3.2 | 7.0 | 0.8 | 89 | 108.6 | 54.0 | 58.3 | 0.079 | 0.1 | 15.0 |
| 11 | 29.883 | 70.0 | 53.9 | 16.1 | 60.9 | - 1.5 | 56.0 | 51.8 | 9.1 | 20.6 | 0.4 | 72 | 124.2 | 43.0 | 58.3 | 0.000 | 9.7 | 14.9 |
| 12 | 30.024 | 69.9 | 50.0 | 19.9 | 60.4 | - 2.1 | 55.2 | 50.6 | 9.8 | 17.9 | 1.4 | 70 | 130.1 | 40.0 | 58.4 | 0.000 | 9.2 | 14.9 |
| 13 | 30.093 | 69.2 | 51.1 | 18.1 | 60.8 | - 1.7 | 55.8 | 51.5 | 9.3 | 20.2 | 2.9 | 71 | 128.1 | 38.6 | 58.5 | 0.000 | 7.1 | 14.8 |
| 14 | 30.150 | 70.8 | 47.3 | 23.5 | 59.6 | - 2.9 | 54.9 | 50.7 | 8.9 | 17.1 | 0.6 | 72 | 120.5 | 36.2 | 58.6 | 0.000 | 8.9 | 14.7 |
| 15 | 30.184 | 73.4 | 48.0 | 25.4 | 60.8 | - 1.6 | 55.6 | 51.1 | 9.7 | 21.3 | 0.4 | 70 | 126.6 | 36.0 | 58.5 | 0.000 | 11.9 | 14.7 |
| 16 | 30.116 | 76.3 | 51.1 | 25.2 | 63.5 | + 1.2 | 58.9 | 55.4 | 8.1 | 16.6 | 0.2 | 75 | 122.8 | 39.6 | 58.6 | 0.000 | 5.7 | 14.6 |
| 17 | 30.042 | 73.8 | 54.3 | 19.5 | 63.7 | + 1.6 | 58.5 | 54.3 | 9.4 | 17.8 | 0.5 | 72 | 128.1 | 43.8 | 58.7 | 0.000 | 11.9 | 14.6 |
| 18 | 29.942 | 74.6 | 58.1 | 16.5 | 65.5 | + 3.6 | 61.2 | 58.2 | 7.3 | 15.5 | 1.1 | 77 | 129.0 | 52.2 | 58.7 | 0.000 | 8.0 | 14.5 |
| 19 | 29.826 | 78.7 | 58.4 | 20.3 | 67.7 | + 6.0 | 63.3 | 60.4 | 7.3 | 17.6 | 1.1 | 78 | 124.2 | 53.0 | 58.7 | 0.000 | 7.8 | 14.4 |
| 20 | 29.671 | 79.6 | 62.1 | 17.5 | 69.4 | + 7.9 | 64.3 | 61.0 | 8.4 | 18.5 | 1.2 | 75 | 125.3 | 58.7 | 58.9 | 0.000 | 8.8 | 14.4 |
| 21 | 29.601 | 82.3 | 60.5 | 21.8 | 67.7 | + 6.4 | 63.9 | 61.5 | 6.2 | 17.7 | 0.8 | 80 | 132.7 | 51.0 | 59.0 | 0.432 | 5.4 | 14.3 |
| 22 | 29.752 | 75.6 | 57.1 | 18.5 | 65.6 | + 4.5 | 62.0 | 59.5 | 6.1 | 14.7 | 0.0 | 81 | 127.4 | 44.5 | 59.3 | 0.000 | 5.3 | 14.3 |
| 23 | 29.939 | 73.8 | 52.0 | 21.8 | 62.6 | + 1.7 | 58.8 | 55.9 | 6.7 | 13.9 | 1.0 | 78 | 115.7 | 40.8 | 59.3 | 0.000 | 3.6 | 14.2 |
| 24 | 29.897 | 68.7 | 59.3 | 9.4 | 62.9 | + 2.1 | 60.6 | 59.0 | 3.9 | 10.1 | 0.5 | 87 | 105.4 | 52.6 | 59.3 | 0.043 | 0.4 | 14.1 |
| 25 | 29.785 | 68.3 | 60.1 | 8.2 | 63.3 | + 2.6 | 61.9 | 60.9 | 2.4 | 6.5 | 0.5 | 92 | 88.6 | 54.0 | 59.3 | 0.070 | 0.0 | 14.1 |
| 26 | 29.795 | 76.2 | 55.7 | 20.5 | 65.1 | + 4.4 | 61.7 | 59.4 | 5.7 | 15.6 | 0.0 | 82 | 133.0 | 45.6 | 59.4 | 0.090 | 8.2 | 14.0 |
| 27 | 29.884 | 76.8 | 59.4 | 17.4 | 66.3 | + 5.7 | 62.4 | 59.8 | 6.5 | 15.2 | 1.7 | 79 | 135.8 | 49.1 | 59.6 | 0.000 | 4.6 | 14.0 |
| 28 | 29.918 | 77.4 | 55.0 | 22.4 | 66.0 | + 5.6 | 61.9 | 59.1 | 6.9 | 14.2 | 0.0 | 79 | 132.6 | 44.1 | 59.6 | 0.000 | 4.9 | 13.9 |
| 29 | 29.856 | 77.2 | 57.3 | 19.9 | 66.4 | + 6.1 | 61.3 | 57.7 | 8.7 | 19.7 | 0.9 | 74 | 133.7 | 46.2 | 59.8 | 0.000 | 10.5 | 13.8 |
| 30 | 29.783 | 70.5 | 57.8 | 12.7 | 63.4 | + 3.3 | 60.0 | 57.5 | 5.9 | 11.9 | 1.4 | 81 | 120.1 | 46.6 | 59.6 | 0.000 | 4.3 | 13.8 |
| 31 | 29.769 | 70.0 | 56.1 | 13.9 | 62.4 | + 2.5 | 60.8 | 59.7 | 2.7 | 6.7 | 0.0 | 91 | 97.8 | 46.4 | 59.7 | 0.000 | 0.3 | 13.7 |
| Means | 29.841 | 71.7 | 54.8 | 17.0 | 62.6 | + 0.9 | 59.0 | 56.3 | 6.2 | 14.5 | 0.8 | 80.4 | 120.6 | 46.4 | 58.8 | 3.097 | 5.1 | 14.6 |
| Number of Column for Reference | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.841 in., being 0.051 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 82.3° on August 21; the lowest in the month was 47.3° on August 14; and the range was 35.0°.

The mean of all the highest daily readings in the month was 71.7°, being 0.9° higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 54.8°, being 1.2° higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 17.0°, being 0.2° less than the average for the 65 years, 1841-1905. †

The mean for the month was 62.6°, being 0.9° higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction D. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|----------------|----------------------------|---|-------------|-----------------------------|----------------------------|--------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| | POLARIS | | S URSÆ MINORIS | | OSLER'S | | | ROBINSON'S | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| Aug. 1 | 5.3 | 0.85 | 5.3 | 0.85 | WSW | WSW:SW:WSW | 1.7 | 0.08 | 308 | b c | c id. Acu Cu bc y | bc y c Ci Cist Cu t | c irtl R bc |
| 2 | 0.0 | 0.00 | 0.0 | 0.00 | WSW | WSW:SW | 1.3 | 0.06 | 284 | bc | bc c Frcu Acu y | c | c r. c rr. |
| 3 | 0.0 | 0.00 | 0.0 | 0.00 | SSW: Calm | NNW | 0.4 | 0.00 | 206 | rr | rr | rr c | c ir |
| 4 | 1.3 | 0.21 | 0.9 | 0.15 | N:NNE | NNE:N | 3.0 | 0.08 | 270 | c | c Nbst Frcu R t | c irRtl | cir b c |
| 5 | 2.1 | 0.30 | 1.5 | 0.23 | N:NNE | NNE:N: Calm | 2.3 | 0.10 | 275 | c rr | rr c Nbst | c bc | bc b c |
| 6 | 6.5 | 0.97 | 6.4 | 0.95 | Calm:W | W:SW | 0.5 | 0.03 | 220 | c | c | c | c b |
| 7 | 4.2 | 0.62 | 3.7 | 0.55 | SSW | SSW | 0.8 | 0.05 | 247 | b c | c r. r. Nb Stcu. | c r. c | c b bc |
| 8 | 5.1 | 0.76 | 3.4 | 0.50 | WSW | SW:WSW | 0.7 | 0.03 | 227 | bc c ir. | c b c d. Acu | c rht ir. | c |
| 9 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:SW | SSW:SW | 1.2 | 0.10 | 285 | c | c Acu bc c Stcu | c Stcu Nbst r. | r. c |
| 10 | 3.2 | 0.47 | 3.0 | 0.44 | SSW:SW | SW | 2.8 | 0.29 | 332 | c id. | c Nbst rr. | r. c rr. Nbst | r. c |
| 11 | 6.3 | 0.94 | 5.9 | 0.87 | WSW | W:WSW | 1.4 | 0.10 | 272 | c | c Frcu Stcu y | c y | c b w |
| 12 | 3.5 | 0.48 | 3.3 | 0.45 | SW:WSW | NNW | 0.3 | 0.02 | 216 | b | b bc Frst Frcu Acu y | c y | c |
| 13 | 7.3 | 1.00 | 7.3 | 1.00 | Calm:NNE | Calm:NE | 0.2 | 0.00 | 184 | c b w | b c Stcu y | c y | c b w |
| 14 | 7.3 | 1.00 | 7.3 | 1.00 | Calm | E: Calm | 0.0 | 0.00 | 156 | b w | b z. c Stcu y | c bc Ci Stcu b y | b |
| 15 | 4.4 | 0.61 | 4.4 | 0.61 | Calm | E: Calm | 0.2 | 0.01 | 166 | b z. w | b z. y | b Cu y | b c b |
| 16 | 7.3 | 1.00 | 7.3 | 1.00 | Calm | Calm | 0.0 | 0.00 | 157 | b c w b | b z. y | c z. y | bc b z |
| 17 | 3.4 | 0.47 | 3.1 | 0.43 | Calm:ENE | E | 0.5 | 0.06 | 213 | b z w f | b z. Frcu Cu y | b y | b c w |
| 18 | 6.9 | 0.96 | 6.9 | 0.96 | ENE:NE | E:ENE | 0.8 | 0.09 | 248 | c m | c Stcu Frst | c Frcu Stcu b | b c b. |
| 19 | 3.7 | 0.48 | 3.4 | 0.43 | NE | E:NE | 1.2 | 0.11 | 270 | b c f | c m w bc c Stcu | c bc y b | b w c |
| 20 | 3.9 | 0.51 | 3.5 | 0.45 | NE | E | 1.1 | 0.12 | 284 | c | c b Frcu | b y | b c l |
| 21 | 2.0 | 0.26 | 1.9 | 0.24 | NE: Calm | Calm | 0.3 | 0.01 | 170 | c b c | c bc z b y | bc c tl Nbst Qmb Rtr c | bc b c m l |
| 22 | 7.6 | 0.98 | 7.5 | 0.97 | Calm:SW | SW | 0.6 | 0.05 | 214 | c m | c m. Ast | c bc Cu Frcu Ci y | bc b |
| 23 | 2.3 | 0.30 | 1.2 | 0.15 | Calm | Calm | 0.1 | 0.00 | 153 | b c w | c z. Ast | c Ast Stcu | c b c |
| 24 | 0.0 | 0.00 | 0.0 | 0.00 | ENE:E | ENE:NE | 0.3 | 0.03 | 229 | c r. | r. r. c Nbst Stcu | c Stcu | c r. c |
| 25 | 2.1 | 0.26 | 0.4 | 0.05 | NE:N | N: Calm | 0.1 | 0.00 | 178 | c | c m. Ast | c Rtc | ctl c r. |
| 26 | 3.4 | 0.42 | 3.1 | 0.39 | Calm:SW | SSW | 0.8 | 0.06 | 218 | c P bc b | b bc Ci Frst Acu | bc c | c b c |
| 27 | 8.0 | 1.00 | 8.0 | 1.00 | SSW:SW | SW | 0.6 | 0.05 | 220 | c | c Cist Acu Frcu | c | c b w |
| 28 | 5.3 | 0.66 | 4.7 | 0.58 | Calm | Calm | 0.1 | 0.01 | 159 | b w | b f m. Ci Cu c | c Acu | c b |
| 29 | 3.1 | 0.38 | 3.1 | 0.38 | Calm:E | E | 0.7 | 0.08 | 211 | b w m c | c b m. Ci | b Ci y | b bc w c |
| 30 | 5.0 | 0.63 | 4.1 | 0.51 | ENE:NE | ENE: Calm | 1.0 | 0.11 | 241 | c m | c Frst Ast | c Stcu b | b w c |
| 31 | 7.1 | 0.89 | 6.6 | 0.83 | ENE | Calm:SW | 0.4 | 0.02 | 198 | c m F | F m Ast | c r. Stcu c | c bc w |
| Means | 4.1 | 0.56 | 3.8 | 0.52 | ... | ... | ... | 0.06 | 226 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 59° 0, being 1° 5 higher than
 The mean *Temperature of the Dew Point* for the month was 56° 3, being 2° 0 higher than
 The mean *Degree of Humidity* for the month was 80.4, being 3.6 greater than
 The mean *Elastic Force of Vapour* for the month was 0.457 in., being 0.033 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.3.
 The mean proportion to *Sunshine* for the month (constant sunshine being represented by 1) was 0.347. The maximum daily amount of *Sunshine* was 11.9 hours on August 15 and 17.
 The highest reading of the *Solar Radiation Thermometer* was 135° 8 on August 27; and the lowest reading of the *ferrestrial Radiation Thermometer* was 36° 0 on August 15
 The *Proportions of Wind* referred to the cardinal points were N.14, E.21, S.18, W.21, calm or nearly calm conditions 26, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 3.0 lbs. on the square foot on August 4. The mean daily *Horizontal Movement of the Air* for the month was 226 miles; the greatest daily value was 332 miles on August 10, and the least daily value was 153 miles on August 23.
Rain (0.005 in. or over) fell on 12 days in the month, amounting to 3.097 in., as measured by gauge No. 6 partly sunk below the ground; being 0.763 in. greater than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|----------------------------------|--|---|--|----------|-------|---------------------------------------|-----------------------|---------------------|--|---|----------------------------|-------------------|
| | | Of the Air | | | | | Of Evaporation Mean of 24 Hourly Values | Of the Dew Point Deducted Mean Daily Value | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | | | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Sept. 1 | 29.839 | 74.8 | 56.0 | 18.8 | 65.3 | + 5.5 | 62.4 | 60.4 | 4.9 | 11.1 | 0.0 | 84 | 128.5 | 46.7 | 59.8 | 0.064 | 1.5 | 13.6 |
| 2 | 29.793 | 76.1 | 62.4 | 13.7 | 68.5 | + 8.8 | 65.1 | 63.0 | 5.5 | 10.6 | 0.0 | 82 | 124.4 | 60.1 | 59.9 | 0.427 | 1.0 | 13.6 |
| 3 | 29.651 | 73.7 | 57.3 | 16.4 | 66.2 | + 6.6 | 62.9 | 60.7 | 5.5 | 17.1 | 0.0 | 83 | 132.2 | 49.6 | 59.9 | 0.030 | 10.0 | 13.5 |
| 4 | 29.812 | 75.8 | 55.7 | 20.1 | 63.7 | + 4.2 | 59.5 | 56.4 | 7.3 | 17.4 | 0.0 | 77 | 129.8 | 44.5 | 60.0 | 0.000 | 6.4 | 13.5 |
| 5 | 29.938 | 78.0 | 53.5 | 24.5 | 63.5 | + 4.1 | 58.1 | 53.7 | 9.8 | 21.3 | 0.0 | 71 | 127.6 | 41.8 | 60.1 | 0.000 | 10.5 | 13.4 |
| 6 | 30.046 | 76.2 | 47.8 | 28.4 | 61.7 | + 2.5 | 56.8 | 52.7 | 9.0 | 16.5 | 0.0 | 72 | 134.9 | 34.8 | 60.2 | 0.000 | 9.0 | 13.3 |
| 7 | 30.070 | 79.5 | 49.9 | 29.6 | 64.3 | + 5.3 | 58.8 | 54.5 | 9.8 | 21.4 | 0.0 | 71 | 134.4 | 37.4 | 60.3 | 0.000 | 11.7 | 13.3 |
| 8 | 29.973 | 81.7 | 58.0 | 23.7 | 68.5 | + 9.7 | 63.8 | 60.7 | 7.8 | 16.1 | 0.0 | 77 | 130.8 | 45.3 | 60.2 | 0.000 | 10.5 | 13.2 |
| 9 | 29.917 | 80.7 | 56.2 | 24.5 | 67.1 | + 8.5 | 62.9 | 60.1 | 7.0 | 16.1 | 0.0 | 79 | 126.4 | 44.1 | 60.1 | 0.000 | 8.0 | 13.1 |
| 10 | 29.842 | 73.2 | 58.0 | 15.2 | 64.6 | + 6.2 | 60.7 | 57.9 | 6.7 | 15.4 | 0.0 | 79 | 124.8 | 44.8 | 60.1 | 0.010 | 5.9 | 13.0 |
| 11 | 29.713 | 66.6 | 54.5 | 12.1 | 61.1 | + 3.0 | 56.0 | 51.6 | 9.5 | 17.2 | 0.0 | 71 | 118.9 | 49.7 | 60.0 | 0.041 | 6.6 | 13.0 |
| 12 | 29.796 | 61.1 | 52.7 | 8.4 | 57.0 | - 1.0 | 53.7 | 50.7 | 6.3 | 9.5 | 2.5 | 79 | 76.7 | 46.7 | 59.9 | 0.000 | 0.1 | 12.9 |
| 13 | 29.660 | 63.1 | 53.2 | 9.9 | 57.7 | - 0.1 | 54.3 | 51.2 | 6.5 | 12.3 | 1.6 | 79 | 96.2 | 46.6 | 59.9 | 0.016 | 0.3 | 12.9 |
| 14 | 29.638 | 62.1 | 50.9 | 11.2 | 56.0 | - 1.7 | 52.9 | 50.0 | 6.0 | 11.9 | 0.7 | 81 | 108.0 | 44.1 | 59.8 | 0.018 | 2.5 | 12.8 |
| 15 | 29.743 | 57.9 | 52.1 | 5.8 | 54.7 | - 2.9 | 52.5 | 50.4 | 4.3 | 9.6 | 1.7 | 85 | 87.1 | 45.8 | 59.7 | 0.357 | 0.5 | 12.7 |
| 16 | 29.974 | 68.0 | 52.5 | 15.5 | 59.3 | + 1.8 | 57.1 | 55.4 | 3.9 | 13.2 | 1.0 | 87 | 122.1 | 45.2 | 59.7 | 0.108 | 4.1 | 12.7 |
| 17 | 30.100 | 68.7 | 56.3 | 12.4 | 61.0 | + 3.8 | 57.0 | 53.7 | 7.3 | 18.6 | 1.8 | 77 | 126.4 | 52.8 | 59.5 | 0.000 | 8.3 | 12.6 |
| 18 | 30.152 | 68.2 | 54.6 | 13.6 | 60.3 | + 3.4 | 55.9 | 52.1 | 8.2 | 17.1 | 3.3 | 74 | 122.9 | 49.6 | 59.3 | 0.000 | 9.2 | 12.5 |
| 19 | 30.147 | 67.9 | 55.6 | 12.3 | 60.5 | + 4.0 | 56.6 | 53.4 | 7.1 | 15.7 | 2.3 | 77 | 123.9 | 49.6 | 59.3 | 0.000 | 4.0 | 12.5 |
| 20 | 30.077 | 64.2 | 54.2 | 10.0 | 59.0 | + 2.8 | 55.7 | 53.0 | 6.0 | 14.5 | 2.5 | 80 | 108.6 | 49.0 | 59.2 | 0.000 | 2.1 | 12.4 |
| 21 | 30.003 | 65.9 | 53.1 | 12.8 | 58.8 | + 2.9 | 55.3 | 52.3 | 6.5 | 15.0 | 2.8 | 79 | 117.9 | 46.1 | 59.2 | 0.018 | 4.3 | 12.3 |
| 22 | 30.002 | 61.6 | 54.3 | 7.3 | 57.4 | + 1.8 | 54.3 | 51.5 | 5.9 | 15.6 | 0.7 | 81 | 107.5 | 49.9 | 59.1 | 0.069 | 0.7 | 12.3 |
| 23 | 30.005 | 61.2 | 53.1 | 8.1 | 55.9 | + 0.5 | 52.6 | 49.5 | 6.4 | 14.2 | 2.0 | 79 | 102.2 | 47.3 | 59.0 | 0.000 | 0.6 | 12.2 |
| 24 | 30.152 | 60.0 | 49.4 | 10.6 | 54.6 | - 0.7 | 51.1 | 47.7 | 6.9 | 13.6 | 4.1 | 77 | 97.2 | 43.0 | 58.8 | 0.000 | 3.0 | 12.2 |
| 25 | 30.195 | 59.2 | 48.2 | 11.0 | 53.9 | - 1.3 | 49.7 | 45.3 | 8.6 | 17.1 | 2.4 | 73 | 99.2 | 36.7 | 58.8 | 0.000 | 2.9 | 12.1 |
| 26 | 30.058 | 60.8 | 43.9 | 16.9 | 52.5 | - 2.7 | 48.3 | 43.6 | 8.9 | 18.1 | 0.4 | 71 | 110.8 | 30.6 | 58.7 | 0.000 | 5.1 | 12.0 |
| 27 | 30.146 | 56.0 | 46.1 | 9.9 | 49.9 | - 5.2 | 46.6 | 42.7 | 7.2 | 15.4 | 2.8 | 76 | 114.2 | 37.0 | 58.5 | 0.038 | 4.1 | 11.9 |
| 28 | 30.079 | 58.0 | 41.9 | 16.1 | 50.8 | - 4.1 | 46.0 | 40.1 | 10.7 | 21.0 | 2.7 | 67 | 117.7 | 28.6 | 58.2 | 0.000 | 6.4 | 11.9 |
| 29 | 29.829 | 60.7 | 48.9 | 11.8 | 53.6 | - 1.1 | 48.9 | 43.8 | 9.8 | 21.0 | 3.4 | 69 | 121.5 | 37.8 | 58.1 | 0.000 | 5.7 | 11.8 |
| 30 | 29.626 | 61.3 | 43.5 | 17.8 | 52.0 | - 2.4 | 47.9 | 43.3 | 8.7 | 18.3 | 1.9 | 72 | 119.5 | 27.5 | 58.0 | 0.000 | 8.1 | 11.8 |
| Means | 29.933 | 67.4 | 52.5 | 14.9 | 59.3 | + 2.1 | 55.4 | 52.0 | 7.3 | 15.7 | 1.4 | 77.0 | 116.4 | 43.8 | 59.4 | 1.196 | 5.1 | 12.7 |
| Number of Column for Reference | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.933 in., being 0.115 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 81° 7 on September 8; the lowest in the month was 41° 9 on September 28; and the range was 39° 8.

The mean of all the highest daily readings in the month was 67° 4, being 1° 2 higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 52° 5, being 2° 8 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 14° 9, being 1° 6 less than the average for the 65 years, 1841-1905. †

The mean for the month was 59° 3, being 2° 1 higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|---------|-----------------------------|----------------------------|--------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|--|
| | POLARIS | | 6 URSAE MINORIS | | OSLER'S | | | | Robin-son's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h | |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | | |
| Sept. 1 | 0.0 | 0.00 | 0.0 | 0.00 | SSW:SW | SSW:S | 0.4 | 0.04 | 207 | b c w | c Ast Stcu | c Ast Nbst r. | r. rr c r | |
| 2 | 2.7 | 0.31 | 2.0 | 0.23 | Calm:SE | SE:ESE | 0.7 | 0.05 | 193 | cir | c Frcu Nbst | c | c rr TL | |
| 3 | 6.3 | 0.72 | 5.9 | 0.67 | Calm:SSE:SSW | SW | 2.3 | 0.31 | 284 | r c b c | c y | c b | b | |
| 4 | 8.7 | 0.99 | 8.7 | 0.99 | WSW | W:Calm | 0.2 | 0.02 | 189 | b c w | c bc Ci Cu y | c y Stcu r. | c tlc b w | |
| 5 | 8.7 | 1.00 | 8.6 | 0.98 | WSW:Calm | WSW | 0.4 | 0.01 | 193 | b w m | b m. Frcu y | b Cu Frcu y | b lu-ha | |
| 6 | 6.3 | 0.71 | 6.3 | 0.71 | WSW:Calm | SW:Calm | 0.6 | 0.02 | 186 | b w lu-ha | b Cist | b bc c Frcu Cist | c b | |
| 7 | 8.7 | 1.00 | 8.7 | 1.00 | Calm | S | 0.3 | 0.02 | 179 | b w | b c Frst Acu Cist y | bc b Cist y | b w | |
| 8 | 8.7 | 1.00 | 8.7 | 1.00 | S:SSW | SSW:SW | 0.2 | 0.02 | 207 | b w m | b Ci y | b Frcu y | b | |
| 9 | 4.9 | 0.53 | 3.9 | 0.42 | SW:Calm | W:Calm | 0.2 | 0.01 | 160 | b w m | b m. bc Frst | bc Frcu y | bc c | |
| 10 | 0.3 | 0.04 | 0.2 | 0.02 | Calm:WSW | WSW:SW | 1.8 | 0.14 | 256 | c b w m. | b bc m. | c Cist so-ha c | c r bc c | |
| 11 | 2.0 | 0.21 | 1.9 | 0.20 | WSW:NW | NW:NNW | 2.0 | 0.30 | 338 | c r c b | c bc Stcu Frcu y | bc c y | c r. c b c | |
| 12 | 0.7 | 0.08 | 0.5 | 0.05 | NNW | NNW | 4.0 | 0.63 | 382 | c | c Nbst | c Stcu Nbst | c | |
| 13 | 4.9 | 0.53 | 4.7 | 0.51 | NNW:NW:W | W:NNW | 1.4 | 0.07 | 257 | c m. | c m. Ast | c Acu r c | c d. d. c bc b | |
| 14 | 0.8 | 0.09 | 0.4 | 0.05 | NW:NNW | N:NNW | 1.8 | 0.09 | 256 | b c | c Frcu Acu Cumb | c r. c | c r c | |
| 15 | 5.4 | 0.59 | 5.0 | 0.54 | NW:NNW | NNW:NNE | 2.6 | 0.16 | 277 | c | c Nbst r c | r R tl r c | bc b | |
| 16 | 3.2 | 0.33 | 2.2 | 0.23 | NNE | NNE | 2.8 | 0.11 | 259 | b c | c bc Frcu Frst | c ir c | c b c | |
| 17 | 5.0 | 0.51 | 3.5 | 0.36 | NNE | NNE | 2.8 | 0.28 | 329 | c | c bc c Frst y | bc y | bc b | |
| 18 | 0.8 | 0.08 | 0.7 | 0.07 | NNE | NNE | 3.3 | 0.51 | 372 | b c | c bc Ast Frcu | bc y b | b c | |
| 19 | 4.8 | 0.49 | 4.4 | 0.45 | NNE | NE:NNE | 2.6 | 0.22 | 329 | c | c Frcu | c Nbst Frcu r. | c b c | |
| 20 | 2.6 | 0.27 | 1.8 | 0.18 | NNE | NE:NNE | 1.4 | 0.15 | 292 | c b c | c Frcu Acu Nbst | c d. c | c bc | |
| 21 | 2.7 | 0.27 | 2.1 | 0.22 | NNE | NE:NNE | 1.5 | 0.16 | 299 | b c b c | c Stcu | c Cumb Acu ir | c b c | |
| 22 | 2.9 | 0.30 | 2.0 | 0.21 | NNE | NNE | 1.4 | 0.13 | 286 | c dd c id | c Stcu | c Stcu Acu y | c d c | |
| 23 | 4.0 | 0.39 | 3.7 | 0.36 | NNE | NNE | 2.7 | 0.26 | 337 | c b c d c | c Stcu | c St. Nbst r. c | c | |
| 24 | 3.2 | 0.32 | 2.4 | 0.24 | NNE:N | NNE | 2.2 | 0.25 | 309 | c b c | c Frcu Stcu d c | c | c | |
| 25 | 2.1 | 0.20 | 1.6 | 0.15 | NNE:NE | NE:Calm | 0.2 | 0.01 | 201 | c b c | c Stcu y | c Acu Stcu y | c Stcu | |
| 26 | 8.3 | 0.81 | 8.0 | 0.78 | Calm:N | NNE | 1.5 | 0.10 | 221 | c | c b Cist m. bc y | c Acu Stcu y | c b c lu-ha | |
| 27 | 7.9 | 0.77 | 6.6 | 0.65 | NNE:NE | E:NE | 3.6 | 0.19 | 293 | c b w | c ir. Nbst Acu | bc p Cumb y | bc c | |
| 28 | 3.3 | 0.32 | 2.2 | 0.22 | E:NE | E:NE | 2.6 | 0.20 | 276 | c b m x | c bc Frcu y | bc y c | c d. c | |
| 29 | 7.9 | 0.77 | 7.1 | 0.69 | NE:E:NE | E | 1.5 | 0.11 | 260 | b c d. c | c Acu Frcu y | bc Frcu c y | c bc b c | |
| 30 | 5.7 | 0.53 | 4.9 | 0.45 | Calm:E | E:NE | 2.8 | 0.19 | 264 | c b m x | b m. c Frcu y | c y | c | |
| Means | 4.4 | 0.47 | 3.9 | 0.42 | ... | ... | ... | 0.16 | 263 | | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |

The mean Temperature of Evaporation for the month was 56°·4, being 1°·3 higher than the average for the 65 years, 1841-1905.

The mean Temperature of the Dew Point for the month was 52°·0, being 0°·9 higher than

The mean Degree of Humidity for the month was 77·0, being 2·9 less than

The mean Elastic Force of Vapour for the month was 0·390 in., being 0·011 in. greater than

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

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0·402. the maximum daily amount of Sunshine was 11·7 hours on September 7.

The highest reading of the Solar Radiation Thermometer was 134°·9 on September 6; and the lowest reading of the terrestrial Radiation Thermometer was 27°·5 on September 30.

The Proportions of Wind referred to the cardinal points were N.39, E.20, S.12, W.15, calm or nearly calm conditions 14, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 4·0 lbs. on the square foot on September 12. The mean daily Horizontal Movement of the Air for the month was 265 miles; the greatest daily value was 582 miles on September 12 and the least daily value was 160 miles on September 9.

Rain (0·005 in. or over) fell on 12 days in the month, amounting to 1·196 in., as measured by gauge No.6 partly sunk below the ground; being 0·952 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 6 inches above the ground | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------|---|-------------|--------|-------------|--------------------------|--|---|------|--|-------|----------------------------------|---------------------------------------|--|-----------------------|---------------------|---|----------------------------|-------------------|
| | | Of the Air | | | | Of Evaporation Mean of 24 Hourly Values | Of the Dew Point Deducted Mean Daily Value | Mean | Greatest | Least | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | | | | | | Excess above Average of 65 Years | | | Highest in Sun's Rays | Lowest on the Grass | | | |
| Oct. 1 | 29.445 | 58.7 | 47.5 | 11.2 | 57.7 | - 1.4 | 48.5 | 43.9 | 8.8 | 15.6 | 2.5 | 72 | 87.3 | 39.1 | 57.7 | 0.000 | 0.2 | 11.7 |
| 2 | 29.638 | 58.9 | 47.7 | 11.2 | 52.0 | - 1.7 | 48.0 | 43.5 | 8.5 | 10.9 | 2.2 | 73 | 110.1 | 41.2 | 57.5 | 0.000 | 6.0 | 11.6 |
| 3 | 29.820 | 57.3 | 46.7 | 10.6 | 51.5 | - 1.8 | 47.2 | 42.3 | 9.2 | 9.9 | 3.9 | 70 | 115.6 | 42.0 | 57.4 | 0.000 | 5.0 | 11.6 |
| 4 | 29.672 | 53.7 | 47.0 | 6.7 | 50.1 | - 2.9 | 46.3 | 41.8 | 8.3 | 9.2 | 0.4 | 73 | 88.6 | 40.0 | 57.2 | 0.273 | 2.0 | 11.5 |
| 5 | 29.378 | 64.7 | 49.2 | 15.5 | 55.4 | + 2.6 | 53.6 | 52.0 | 3.4 | 7.7 | 0.0 | 88 | 100.4 | 42.2 | 57.0 | 0.275 | 0.8 | 11.4 |
| 6 | 29.504 | 63.9 | 47.9 | 16.0 | 54.2 | + 1.7 | 51.2 | 48.3 | 5.9 | 11.9 | 0.0 | 80 | 115.7 | 42.8 | 56.9 | 0.056 | 3.5 | 11.4 |
| 7 | 29.753 | 60.9 | 44.0 | 16.9 | 51.5 | - 0.8 | 49.8 | 48.1 | 3.4 | 6.1 | 0.0 | 88 | 90.9 | 32.1 | 56.8 | 0.062 | 2.7 | 11.3 |
| 8 | 29.824 | 57.0 | 48.8 | 8.2 | 51.5 | - 0.5 | 49.4 | 47.2 | 4.3 | 8.0 | 0.0 | 85 | 95.6 | 44.8 | 56.7 | 0.005 | 2.1 | 11.3 |
| 9 | 29.501 | 56.1 | 45.9 | 10.2 | 51.3 | - 0.3 | 50.6 | 49.9 | 1.4 | 2.0 | 0.0 | 95 | 57.5 | 37.8 | 56.3 | 0.889 | 0.0 | 11.2 |
| 10 | 29.650 | 61.3 | 41.1 | 20.2 | 51.2 | - 0.1 | 48.9 | 46.5 | 4.7 | 9.2 | 0.0 | 84 | 112.5 | 30.0 | 56.3 | 0.009 | 6.9 | 11.1 |
| 11 | 29.586 | 63.3 | 46.0 | 17.3 | 53.0 | + 2.1 | 51.0 | 49.1 | 3.9 | 11.0 | 0.0 | 86 | 113.5 | 36.1 | 56.3 | 0.324 | 4.3 | 11.0 |
| 12 | 29.462 | 59.3 | 45.9 | 13.4 | 51.6 | + 1.0 | 49.7 | 47.8 | 3.8 | 8.2 | 0.0 | 87 | 102.8 | 34.9 | 56.2 | 0.000 | 2.7 | 11.0 |
| 13 | 29.371 | 59.5 | 42.1 | 17.4 | 50.8 | + 0.5 | 49.0 | 47.0 | 3.8 | 7.7 | 0.0 | 87 | 82.1 | 31.7 | 56.1 | 0.547 | 1.8 | 10.9 |
| 14 | 29.055 | 53.5 | 47.1 | 6.4 | 50.1 | - 0.0 | 48.9 | 47.7 | 2.4 | 5.1 | 0.0 | 91 | 65.8 | 46.4 | 55.9 | 1.168 | 0.0 | 10.9 |
| 15 | 29.203 | 50.4 | 46.3 | 4.1 | 48.7 | - 1.2 | 48.3 | 47.9 | 0.8 | 2.0 | 0.0 | 97 | 52.5 | 43.3 | 55.5 | 1.365 | 0.0 | 10.8 |
| 16 | 29.761 | 57.8 | 40.6 | 17.2 | 47.7 | - 2.1 | 45.8 | 43.6 | 4.1 | 8.5 | 0.0 | 85 | 95.1 | 32.8 | 55.4 | 0.000 | 6.2 | 10.7 |
| 17 | 29.861 | 57.7 | 43.5 | 14.2 | 50.4 | + 0.8 | 49.0 | 47.5 | 2.9 | 7.7 | 0.0 | 90 | 81.4 | 34.7 | 55.2 | 0.028 | 0.5 | 10.7 |
| 18 | 29.796 | 56.2 | 47.0 | 9.2 | 51.1 | + 1.8 | 48.4 | 45.5 | 5.6 | 13.8 | 0.0 | 81 | 86.5 | 42.0 | 55.0 | 0.000 | 3.6 | 10.6 |
| 19 | 29.844 | 48.2 | 42.6 | 5.6 | 46.6 | - 2.5 | 45.2 | 43.5 | 3.1 | 5.9 | 1.6 | 89 | 51.7 | 37.0 | 54.9 | 0.577 | 0.0 | 10.5 |
| 20 | 30.065 | 51.1 | 40.5 | 10.6 | 44.8 | - 4.0 | 41.4 | 36.5 | 8.3 | 11.9 | 3.5 | 73 | 93.0 | 29.5 | 54.8 | 0.000 | 3.1 | 10.5 |
| 21 | 30.134 | 53.4 | 34.4 | 19.0 | 45.3 | - 3.3 | 43.3 | 40.7 | 4.6 | 8.5 | 0.9 | 84 | 78.2 | 26.4 | 54.7 | 0.056 | 2.6 | 10.4 |
| 22 | 30.145 | 52.5 | 34.0 | 18.5 | 42.4 | - 5.9 | 41.2 | 39.6 | 2.8 | 12.8 | 0.2 | 90 | 90.7 | 26.1 | 54.3 | 0.000 | 4.3 | 10.3 |
| 23 | 30.034 | 55.5 | 31.9 | 23.6 | 46.1 | - 2.0 | 44.3 | 42.1 | 4.0 | 12.4 | 3.2 | 86 | 82.5 | 25.6 | 54.0 | 0.000 | 1.1 | 10.3 |
| 24 | 29.826 | 54.0 | 45.1 | 8.9 | 49.8 | + 1.9 | 47.4 | 44.8 | 5.0 | 14.6 | 4.4 | 83 | 68.4 | 40.3 | 53.8 | 0.174 | 1.7 | 10.2 |
| 25 | 29.759 | 47.4 | 38.4 | 9.0 | 43.6 | - 4.1 | 39.9 | 34.3 | 9.3 | 18.0 | 6.0 | 70 | 83.9 | 30.1 | 53.6 | 0.000 | 6.7 | 10.1 |
| 26 | 29.554 | 43.1 | 31.1 | 12.0 | 38.0 | - 9.6 | 36.0 | 32.7 | 5.3 | 14.6 | 0.0 | 81 | 80.5 | 24.0 | 53.3 | 0.091 | 0.9 | 10.1 |
| 27 | 29.709 | 44.9 | 35.6 | 9.3 | 39.0 | - 8.5 | 37.6 | 35.6 | 3.4 | 11.6 | 0.0 | 87 | 83.5 | 30.8 | 53.2 | 0.055 | 4.3 | 10.0 |
| 28 | 29.694 | 45.5 | 35.3 | 10.2 | 41.2 | - 6.2 | 39.5 | 37.1 | 4.1 | 10.8 | 2.1 | 85 | 51.7 | 30.0 | 52.9 | 0.061 | 0.0 | 10.0 |
| 29 | 29.592 | 45.5 | 36.0 | 9.5 | 41.6 | - 5.7 | 39.5 | 36.4 | 5.2 | 15.3 | 1.4 | 81 | 59.9 | 31.0 | 52.5 | 0.140 | 1.0 | 9.9 |
| 30 | 29.830 | 49.0 | 33.6 | 15.4 | 41.2 | - 6.0 | 39.6 | 37.4 | 3.8 | 12.5 | 0.0 | 86 | 83.3 | 26.1 | 52.3 | 0.000 | 5.2 | 9.8 |
| 31 | 29.722 | 46.8 | 43.8 | 3.0 | 45.4 | - 1.7 | 43.1 | 40.1 | 5.3 | 13.1 | 3.0 | 81 | 64.8 | 39.2 | 52.1 | 0.000 | 0.2 | 9.8 |
| Means | 29.683 | 54.4 | 42.1 | 12.3 | 48.1 | - 1.9 | 45.9 | 43.2 | 4.8 | 10.2 | 1.1 | 83.5 | 84.7 | 35.2 | 55.2 | 6.155 | 2.6 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.683 in., being 0.045 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 64.7° on October 5; the lowest in the month was 31.1° on October 26; and the range was 33.6°.

The mean of all the highest daily readings in the month was 54.4°, being 2.6° lower than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 42.1°, being 1.7° lower than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 12.3°, being 0.9° less than the average for the 65 years, 1841-1905. †

The mean for the month was 48.1°, being 1.9° lower than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------------|-------------------------|----------------------------------|----------------|----------------------------------|---|------------|-----------------------------------|----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| | POLARIS | | 8 URSÆ MINORIS | | OSLER'S | | | Robin- son's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Move- ment of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| hours | | hours | | | | lbs. | lbs. | miles | | | | | |
| Oct. 1 | .. | .. | .. | .. | NE:ENE | NE:NNE | 4.5 | 0.37 | 342 | c lu-ha m. | c Ast | c y | c b |
| 2 | 2.6 | 0.25 | 2.4 | 0.22 | NNE:N | NNE:NE | 2.1 | 0.34 | 354 | c r. b c | c b c Stcu | c bc Stcu Acu y | bc b c ir. |
| 3 | 8.1 | 0.76 | 7.9 | 0.74 | NE | ENE:ESE | 3.3 | 0.43 | 362 | c | c bc b Ci c Nbst p. | c Acu Nbst p. c | c b |
| 4 | 0.0 | 0.00 | 0.0 | 0.00 | ESE | E:ESE | 5.8 | 1.08 | 406 | b | bc c Frcu Acu Stcu | c St | c Rtl ^r ir. r R |
| 5 | 8.7 | 0.81 | 8.1 | 0.75 | ESE:SSW | SSW:SSE | 3.5 | 0.11 | 269 | R ir. | r. r c Frst Ast Cu | c Nbst Frst b | c b c r b |
| 6 | 3.8 | 0.36 | 2.4 | 0.22 | SSE:SW | SSW:S | 1.1 | 0.08 | 250 | b c ir. | c Ast Frst Stcu | c y | c bc w |
| 7 | 0.7 | 0.07 | 0.5 | 0.05 | Calm | NNE | 1.0 | 0.02 | 182 | bc w | bc m c Cist | c Cunb tLR m | c b m c |
| 8 | 1.5 | 0.14 | 0.3 | 0.03 | NNE:NE | ESE | 1.3 | 0.09 | 243 | c d. d. | d. d. m. bc Acu c Frcu | c b c | c bc c |
| 9 | 8.9 | 0.79 | 8.3 | 0.73 | ESE:SE | SE:WSW | 2.0 | 0.26 | 310 | c rr R | c Nbst rr d. | c rr dd Nbst | c b |
| 10 | 7.0 | 0.63 | 6.3 | 0.56 | WSW:SW | SSW:S | 0.5 | 0.03 | 236 | b c | c p bc Nbst Ci Acu | bc Acu Stcu c | c bc |
| 11 | 0.5 | 0.05 | 0.0 | 0.00 | SSW:SW | S:SE:NW | 0.8 | 0.04 | 240 | bc p b c | c b Ci Acu r. bc | bc c t ir | c ir r iR ir |
| 12 | 8.9 | 0.79 | 8.4 | 0.75 | W:WSW | W:WSW | 0.4 | 0.05 | 246 | c | c m Stcu Acu Frcu | c b | b c |
| 13 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:Calm | Calm:ESE:E | 3.0 | 0.03 | 186 | c bc b c w | c m bc c Ci m | c Cist so-ha | rr |
| 14 | 0.2 | 0.01 | 0.0 | 0.00 | ENE:NE:N | NNW:NNE | 3.7 | 0.35 | 310 | rr | r r. r | c | c rr |
| 15 | 3.5 | 0.31 | 3.0 | 0.26 | NNE:NE | NNE:N | 4.0 | 0.20 | 310 | rr c r | rr | rr | rr c |
| 16 | 3.4 | 0.29 | 2.5 | 0.21 | NW:Calm | Calm | 0.1 | 0.00 | 154 | c b | b f m. bc | bc m. | b m |
| 17 | 4.3 | 0.38 | 0.9 | 0.08 | Calm:E | E | 0.9 | 0.04 | 218 | bc c r m | c mf m. Stcu | c bc m. | bc c bc m. |
| 18 | 2.5 | 0.22 | 2.1 | 0.18 | ENE:NE | NE:NNE | 2.7 | 0.24 | 327 | c | b c Frcu Acu Nbst | c Stcu y | c |
| 19 | 4.3 | 0.38 | 3.2 | 0.28 | NNE:N | N | 3.3 | 0.55 | 395 | c d r c | c Nbst r r. | c rr. r r. | rr. c b |
| 20 | 6.2 | 0.54 | 6.2 | 0.54 | NNW:N | N:NW | 1.2 | 0.13 | 285 | b c | c m. b c Nbst Stcu | c | c b m c |
| 21 | 7.1 | 0.59 | 4.4 | 0.37 | Calm | N:NNE | 0.6 | 0.05 | 208 | c bc m x | bc f b x m | c f | c r b |
| 22 | 9.1 | 0.76 | 1.7 | 0.14 | Calm | N:Calm | 0.4 | 0.02 | 178 | b fe | fe F c Stcu | c b | b f x |
| 23 | 3.4 | 0.29 | 2.0 | 0.17 | WSW | WSW | 0.6 | 0.04 | 249 | b x c | c f | c m | c b c |
| 24 | 3.2 | 0.27 | 2.9 | 0.24 | WSW:WNW | NW:WSW:W | 2.5 | 0.15 | 292 | c r. rr r. | c bc m. c Stcu | c Nbst ir r. | c b c |
| 25 | 9.5 | 0.79 | 9.4 | 0.78 | NW:NNW | NNW | 1.6 | 0.20 | 315 | bc | bc b bc Acu y | bc Stcu b y | b c b |
| 26 | 3.7 | 0.31 | 2.1 | 0.17 | WSW:NNW | N | 3.8 | 0.45 | 339 | b x c | c f r. tlr b | b c r. Nbst Frcu | c b c ir. |
| 27 | 8.5 | 0.71 | 6.6 | 0.55 | N | N | 3.0 | 0.38 | 342 | c ir l ph b | b bc Acu Cunb p | bc p c Nbst b | b c b |
| 28 | 0.0 | 0.00 | 0.0 | 0.00 | N | N | 5.8 | 0.95 | 412 | b c | c ir r. Nbst | dd c | c lu-ha |
| 29 | 9.3 | 0.74 | 8.5 | 0.68 | N:NNE | ENE | 3.4 | 0.27 | 317 | c ir. | c rr m Nbst Frst | c m. bc b | b c ir bc b |
| 30 | 4.5 | 0.36 | 2.3 | 0.18 | NE:E | ENE | 2.8 | 0.17 | 298 | b m. x | b c m. bc Frst | bc | bc |
| 31 | 0.7 | 0.05 | 0.3 | 0.03 | ENE:E | E | 4.7 | 0.37 | 328 | c | c Ast Nbst r. c | c m. | c m. |
| Means | 4.5 | 0.39 | 3.4 | 0.30 | ... | ... | ... | 0.24 | 287 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 45°·9, being 2°·0 lower than
 The mean *Temperature of the Dew Point* for the month was 43°·2, being 2°·4 lower than
 The mean *Degree of Humidity* for the month was 83·5, being 1·4 less than
 The mean *Elastic Force of Vapour* for the month was 0·281 in., being 0·027 in. less than
 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 0·239. The maximum daily amount of *Sunshine* was 6·9 hours on October 10.
 The highest reading of the *Solar Radiation Thermometer* was 115°·7 on October 6; and the lowest reading of the *terrestrial Radiation Thermometer* was 24°·0 on October 26.
 The *Proportions of Wind* referred to the cardinal points were N.34, E.26, S.14, W.15, calm or nearly calm conditions, 11, the whole month being represented by 100.
 The *Greatest Pressure of Wind* in the month was 5·8 lbs. on the square foot on October 4, 28. The mean daily *Horizontal Movement of the Air* for the month was 287 miles; the greatest daily value was 412 miles on October 28, and the least daily value was 154 miles on October 16.
Rain (0·005 in., or over) fell on 19 days in the month, amounting to 6·155 in., as measured by gauge No.6 partly sunk below the ground; being 3·373 in. greater than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1939.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------------|--|-------------|--------|----------------|-----------------------------------|--|-------------------------|------------------------|---|----------|-------|--|-----------------------------|---------------------------|---|--|-------------------------------|-------------------|
| | | Of the Air | | | | | Of Evapor- ration | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | | | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Nov. 1 | 29.560 | 48.3 | 44.1 | 4.2 | 45.9 | - 1.1 | 44.7 | 43.2 | 2.7 | 5.0 | 1.2 | 91 | 63.8 | 41.0 | 52.0 | 0.002 | 0.1 | 9.7 |
| 2 | 29.553 | 52.0 | 43.0 | 9.0 | 47.3 | + 0.5 | 46.4 | 45.3 | 2.0 | 4.2 | 1.1 | 93 | 59.5 | 40.2 | 51.8 | 0.015 | 0.0 | 9.7 |
| 3 | 29.525 | 56.4 | 44.9 | 11.5 | 49.2 | + 2.6 | 48.2 | 47.2 | 2.0 | 4.9 | 0.6 | 93 | 70.8 | 37.1 | 51.8 | 0.018 | 0.6 | 9.6 |
| 4 | 29.146 | 56.1 | 47.0 | 9.1 | 50.5 | + 4.1 | 50.0 | 49.5 | 1.0 | 5.9 | 0.2 | 97 | 76.6 | 43.7 | 51.8 | 0.219 | 1.1 | 9.5 |
| 5 | 29.185 | 54.5 | 45.0 | 9.5 | 49.9 | + 3.8 | 46.6 | 42.7 | 7.2 | 14.2 | 1.3 | 76 | 94.9 | 43.0 | 51.8 | 0.148 | 2.5 | 9.5 |
| 6 | 29.403 | 54.7 | 45.5 | 9.2 | 49.8 | + 4.0 | 46.8 | 43.3 | 6.5 | 9.4 | 2.2 | 79 | 69.8 | 39.0 | 51.8 | 0.200 | 2.7 | 9.4 |
| 7 | 29.459 | 58.0 | 49.1 | 8.9 | 53.8 | + 8.4 | 52.1 | 50.5 | 3.3 | 6.6 | 2.0 | 88 | 66.1 | 43.6 | 51.8 | 0.036 | 0.0 | 9.4 |
| 8 | 29.379 | 58.2 | 52.3 | 5.9 | 55.8 | +10.8 | 52.2 | 48.7 | 7.1 | 10.2 | 2.3 | 77 | 81.5 | 48.8 | 51.9 | 0.208 | 2.1 | 9.3 |
| 9 | 29.515 | 55.3 | 45.6 | 9.7 | 51.7 | + 7.1 | 49.9 | 48.1 | 3.6 | 5.8 | 1.6 | 87 | 78.7 | 34.8 | 51.8 | 0.165 | 1.9 | 9.3 |
| 10 | 29.746 | 55.7 | 43.7 | 12.0 | 48.2 | + 3.9 | 47.2 | 46.1 | 2.1 | 6.5 | 0.4 | 92 | 67.5 | 30.9 | 51.9 | 0.002 | 1.6 | 9.2 |
| 11 | 29.657 | 51.2 | 43.0 | 8.2 | 48.2 | + 4.2 | 47.3 | 46.3 | 1.9 | 3.0 | 0.2 | 93 | 60.4 | 31.1 | 51.8 | 0.005 | 0.0 | 9.2 |
| 12 | 29.792 | 51.2 | 47.1 | 4.1 | 50.0 | + 6.3 | 49.0 | 48.0 | 2.0 | 3.5 | 0.8 | 93 | 57.5 | 36.5 | 51.8 | 0.000 | 0.0 | 9.1 |
| 13 | 29.880 | 51.5 | 46.2 | 5.3 | 49.3 | + 5.8 | 47.7 | 45.9 | 3.4 | 7.0 | 0.4 | 88 | 60.0 | 33.8 | 51.8 | 0.000 | 0.0 | 9.0 |
| 14 | 29.758 | 56.2 | 48.0 | 8.2 | 53.9 | +10.6 | 52.3 | 50.8 | 3.1 | 6.0 | 1.0 | 89 | 68.5 | 43.5 | 51.8 | 0.050 | 0.4 | 9.0 |
| 15 | 29.498 | 54.5 | 45.6 | 8.9 | 49.6 | + 6.5 | 47.4 | 45.0 | 4.6 | 9.3 | 1.6 | 84 | 64.5 | 39.6 | 51.7 | 0.332 | 3.3 | 8.9 |
| 16 | 29.552 | 56.9 | 43.0 | 13.9 | 48.1 | + 5.3 | 46.5 | 44.7 | 3.4 | 5.6 | 1.3 | 88 | 56.3 | 38.4 | 51.6 | 0.454 | 0.0 | 8.9 |
| 17 | 29.865 | 54.7 | 43.6 | 11.1 | 48.5 | + 5.9 | 47.7 | 46.9 | 1.6 | 3.9 | 0.2 | 94 | 56.8 | 38.0 | 51.5 | 0.085 | 0.0 | 8.8 |
| 18 | 29.959 | 54.6 | 47.7 | 6.9 | 52.5 | +10.1 | 51.5 | 50.6 | 1.9 | 4.7 | 0.2 | 93 | 63.9 | 41.8 | 51.6 | 0.225 | 0.3 | 8.8 |
| 19 | 29.764 | 54.1 | 46.5 | 7.6 | 50.0 | + 7.7 | 46.4 | 42.1 | 7.9 | 10.7 | 1.7 | 74 | 62.0 | 42.0 | 51.6 | 0.074 | 3.6 | 8.7 |
| 20 | 30.250 | 47.7 | 37.7 | 10.0 | 43.4 | + 1.2 | 41.7 | 39.4 | 4.0 | 5.8 | 1.3 | 86 | 55.8 | 29.8 | 51.3 | 0.000 | 0.3 | 8.7 |
| 21 | 30.396 | 45.0 | 35.4 | 9.6 | 41.3 | - 0.8 | 40.6 | 39.7 | 1.6 | 5.4 | 0.3 | 94 | 44.7 | 27.3 | 51.3 | 0.000 | 0.0 | 8.6 |
| 22 | 30.260 | 49.8 | 31.8 | 18.0 | 41.6 | - 0.5 | 39.5 | 36.4 | 5.2 | 10.1 | 0.0 | 82 | 71.1 | 25.0 | 51.2 | 0.000 | 3.7 | 8.6 |
| 23 | 29.856 | 48.7 | 45.8 | 2.9 | 47.4 | + 5.4 | 46.1 | 44.6 | 2.8 | 6.9 | 1.3 | 90 | 51.8 | 42.9 | 51.0 | 0.351 | 0.0 | 8.5 |
| 24 | 29.829 | 48.1 | 37.7 | 10.4 | 42.2 | + 0.2 | 40.5 | 38.1 | 4.1 | 6.3 | 0.9 | 85 | 48.3 | 30.3 | 50.7 | 0.288 | 0.0 | 8.5 |
| 25 | 29.877 | 50.6 | 32.2 | 18.4 | 40.6 | - 1.3 | 39.0 | 36.8 | 3.8 | 5.9 | 1.1 | 86 | 49.3 | 26.0 | 50.6 | 0.475 | 0.0 | 8.4 |
| 26 | 29.244 | 58.0 | 45.6 | 12.4 | 52.4 | +10.6 | 49.6 | 46.7 | 5.7 | 8.8 | 1.7 | 81 | 61.5 | 40.0 | 50.5 | 0.032 | 0.0 | 8.4 |
| 27 | 29.199 | 55.7 | 42.2 | 13.5 | 47.9 | + 6.2 | 45.7 | 43.2 | 4.7 | 7.4 | 1.3 | 83 | 59.3 | 36.3 | 50.3 | 0.423 | 0.0 | 8.4 |
| 28 | 29.745 | 49.0 | 38.8 | 10.2 | 44.6 | + 3.1 | 41.9 | 38.2 | 6.4 | 10.9 | 2.4 | 78 | 61.4 | 32.1 | 50.2 | 0.065 | 4.2 | 8.3 |
| 29 | 29.778 | 57.9 | 45.0 | 12.9 | 54.4 | +13.2 | 52.6 | 50.9 | 3.5 | 6.5 | 1.1 | 88 | 62.7 | 43.3 | 50.3 | 0.005 | 0.0 | 8.3 |
| 30 | 29.921 | 57.1 | 55.0 | 2.1 | 56.0 | +15.0 | 55.3 | 54.7 | 1.3 | 3.1 | 0.9 | 95 | 62.5 | 52.1 | 50.2 | 0.255 | 0.0 | 8.3 |
| Means | 29.685 | 53.4 | 43.9 | 9.5 | 48.8 | + 5.3 | 47.1 | 45.1 | 3.7 | 6.8 | 1.1 | 87.2 | 63.6 | 37.7 | 51.4 | Sum 4.132 | 0.9 | 8.9 |
| Number of Column for Reference | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.685 in., being 0.080 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 58°.2 on November 8; the lowest in the month was 31°.8 on November 22; and the range was 26°.4.

The mean of all the highest daily readings in the month was 53°.4, being 4°.5 higher than the average for the 65 years, 1841-1905. †

The mean of all the lowest daily readings in the month was 43°.9, being 5°.5 higher than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 9°.5, being 1°.0 less than the average for the 65 years, 1841-1905. †

The mean for the month was 48°.8, being 5°.3 higher than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed effect of the change of thermometer screen on 1938 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|----------|-----------------------------|----------------------------|--------------------------------|--|--|------------------------------------|------------------------------------|
| | POLARIS | | 8 URSAE MINORIS | | OSLER'S | | | Robin-son's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures | | | | | |
| Nov. 1 | 0.0 | 0.00 | 0.0 | 0.00 | E | E:ENE | 1.7 | 0.11 | 268 | c m _o | c id _o Ast | c m _o | c id _o |
| 2 | 0.0 | 0.00 | 0.0 | 0.00 | E:ENE | E | 0.8 | 0.04 | 229 | c | c St f m | c m _o | c d _o d |
| 3 | 0.0 | 0.00 | 0.0 | 0.00 | Calm:SE | SSE:E | 0.5 | 0.03 | 210 | c d _o | c f r _o m | c Ci Cist | c r _o r _o r |
| 4 | 2.1 | 0.16 | 0.9 | 0.07 | SE:S | S | 0.8 | 0.06 | 242 | rr c r _o | c id _o m _o Nbst r | c Stcu Nbst r _o | c r _o c |
| 5 | 7.5 | 0.59 | 6.8 | 0.54 | SW:WSW | SSW:WSW | 6.5 | 1.04 | 474 | c r _o | r _o c St m _o b Acu | b c r _o | rrc b |
| 6 | 7.9 | 0.62 | 7.4 | 0.58 | WSW:SW | SW:SSW | 9.3 | 0.85 | 432 | b | b Cist Frcu c t l r Nbst | c r q Nbst Acu Ci b | b c p b |
| 7 | 3.1 | 0.24 | 0.7 | 0.05 | SSW:S | S | 2.6 | 0.28 | 328 | b c | c Nbst r ir _o | c ir _o Nbst | c ir _o bc |
| 8 | 4.4 | 0.34 | 3.0 | 0.23 | SSW | SSW:SW | 8.0 | 1.65 | 503 | c | c bc r _o c | c b | c ir bc |
| 9 | 11.5 | 0.90 | 11.3 | 0.89 | SW | SW | 5.0 | 0.64 | 378 | bc c r | ir Nbst c Ast Frst | bc r _o b | b c |
| 10 | 8.4 | 0.66 | 7.1 | 0.56 | SW:SSW | SSW | 0.2 | 0.00 | 221 | c w b c d b | c Ci m Acu Nbst d _o | c Cist Acu b | b m W |
| 11 | 0.0 | 0.00 | 0.0 | 0.00 | Calm:E | E: Calm | 0.2 | 0.00 | 167 | b m W f | c m | c r _o c | c |
| 12 | 4.7 | 0.36 | 4.1 | 0.32 | WSW | Calm:SSW | 0.1 | 0.00 | 195 | c f b | bfc m | c m | c f c |
| 13 | 3.7 | 0.29 | 3.0 | 0.23 | SSW | SSW | 0.6 | 0.03 | 246 | c b c | c Nbst d _o Stcu | c | b c r _o bc |
| 14 | 0.0 | 0.00 | 0.0 | 0.00 | SSW:SW | SSW | 5.0 | 0.51 | 379 | c id _o c | c Frcu Stcu | c Nbst d | c d _o d r |
| 15 | 5.9 | 0.45 | 5.3 | 0.40 | SW:SSW | SW:WSW | 8.2 | 0.31 | 359 | rr | c b c Nbst | c bc c r _o c b | bc c b |
| 16 | 4.1 | 0.32 | 3.3 | 0.25 | WSW:SSE | WSW:NW:W | 4.3 | 0.41 | 352 | b c | c Nbst rr | rr c | c bc |
| 17 | 3.7 | 0.28 | 3.1 | 0.24 | WSW:Calm | Calm:WSW | 0.3 | 0.02 | 206 | b c | c Nbst rr c m | c d _o m f | c f c |
| 18 | 0.5 | 0.04 | 0.3 | 0.03 | WSW:SW | SW | 3.3 | 0.17 | 306 | c b W | b c W bc c Cist Acu St | c d _o rr d | rrd c rr |
| 19 | 10.6 | 0.78 | 10.1 | 0.75 | NW | NW:NNW | 17.0 | 1.69 | 512 | r b c q | c q bc c Frst | c | c b |
| 20 | 3.4 | 0.25 | 1.3 | 0.10 | NW:Calm | Calm | 0.3 | 0.00 | 180 | b x c | c b St f | b Ci m c | c m |
| 21 | 4.7 | 0.35 | 4.3 | 0.32 | Calm | Calm | 0.0 | 0.00 | 139 | o | o St f | o Stcu f c m f | c f b x |
| 22 | 0.7 | 0.05 | 0.2 | 0.02 | Calm:S | SSW | 0.8 | 0.07 | 271 | c f b x m | c Acu Ci m | c Stcu | c r |
| 23 | 0.0 | 0.00 | 0.0 | 0.00 | SSW | SSW | 2.9 | 0.70 | 417 | c id _o | c rr _o | r _o rr | rrr _o |
| 24 | 13.5 | 1.00 | 12.4 | 0.92 | N | NNW | 0.9 | 0.05 | 247 | rr | rr m c m _o | c bc Frcu Ci m _o b | b m _o w |
| 25 | 0.0 | 0.00 | 0.0 | 0.00 | WSW | SW | 5.5 | 0.49 | 367 | b x m _o m | b bc so-ha m c Ast | c d | rr |
| 26 | 7.0 | 0.52 | 4.9 | 0.37 | SW:WSW | W:WSW | 16.6 | 2.70 | 621 | rr d q c | c q | c q bc | bc |
| 27 | 12.7 | 0.94 | 12.7 | 0.94 | SW | W | 10.0 | 1.03 | 462 | bc c rr | rrq R r Nbst | r c bc Frcu Acu | bc b |
| 28 | 0.0 | 0.00 | 0.0 | 0.00 | W | WSW:SW | 2.6 | 0.30 | 363 | b w | b Ast m m _o | bc c Acu | c r dd |
| 29 | 0.0 | 0.00 | 0.0 | 0.00 | SSW:WSW | W:SW | 4.0 | 0.75 | 439 | dd id _o c | c Nbst Stcu | c Nbst Stcu | c id _o |
| 30 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:W | WSW | 4.7 | 0.59 | 400 | d _o r _o r _o | r _o d rr Nbst r _o | r _o dd | d c d _o c |
| Means | 4.0 | 0.30 | 3.4 | 0.26 | ... | ... | ... | 0.48 | 330 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 47°.1, being 5°.2 higher than
 The mean *Temperature of the Dew Point* for the month was 45°.1, being 5°.4 higher than
 The mean *Degree of Humidity* for the month was 87.2, being 0.6 greater than
 The mean *Elastic Force of Vapour* for the month was 0.301 in., being 0.055 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8.1.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.106. The maximum daily amount of *Sunshine* was 4.2 hours on November 28.
 The highest reading of the *Solar Radiation Thermometer* was 94°.9 on November 5, and the lowest reading of the *Terrestrial Radiation Thermometer* was 25°.0 on November 22.
 The *Proportions of Wind* referred to the cardinal points were N.6, E.8, S.38, W.36, calm or nearly calm conditions, 12, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 17.0 lbs. on the square foot on November 19. The mean daily *Horizontal Movement of the Air* for the month was 330 miles; the greatest daily value was 621 miles on November 26 and the least daily value was 139 miles on November 21.
Rain (0.005 in. or over) fell on 23 days in the month, amounting to 4.132 in., as measured by gauge No.6 partly sunk below the ground; being 1.912 in. in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit) | 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 | Daily Duration of Sunshine | Sun above Horizon |
|--------------------------------------|--|-------------|--------|----------------|-----------------------------------|--|-----------------------------------|------------------------------------|---|----------|-------|--|-----------------------------|---------------------------|---|--|-------------------------------|-------------------|
| | | Of the Air | | | | | Of Evapo- ration | Of the Dew Point | Mean | Greatest | Least | | Of Radiation | | Of the Earth 4 ft. below the Surface of the Soil | | | |
| | | Highest | Lowest | Daily Range | Mean of 24 Hourly Values | Excess above Average of 65 Years | Mean of 24 Hourly Values | Deducted Mean Daily Value | | | | | Highest in Sun's Rays | Lowest on the Grass | | | | |
| Dec. 1 | 29.847 | 55.7 | 51.7 | 4.0 | 54.3 | +13.4 | 51.7 | 49.3 | 5.0 | 7.8 | 3.7 | 83 | 65.8 | 46.8 | 50.2 | 0.000 | 1.0 | 8.2 |
| 2 | 29.740 | 55.4 | 39.2 | 16.2 | 48.6 | + 7.7 | 45.0 | 40.5 | 8.1 | 12.5 | 1.9 | 93 | 60.0 | 33.2 | 50.2 | 0.000 | 4.6 | 8.2 |
| 3 | 29.665 | 49.2 | 35.8 | 13.4 | 41.8 | + 0.7 | 39.8 | 36.9 | 4.9 | 9.5 | 2.4 | 83 | 60.9 | 29.3 | 50.2 | 0.365 | 2.3 | 8.2 |
| 4 | 29.109 | 44.0 | 36.1 | 7.9 | 40.5 | - 0.8 | 38.2 | 34.7 | 5.8 | 10.6 | 2.8 | 79 | 52.5 | 31.0 | 50.3 | 0.024 | 3.3 | 8.1 |
| 5 | 28.994 | 42.8 | 36.0 | 6.8 | 39.6 | - 1.9 | 37.8 | 35.1 | 4.5 | 7.0 | 1.7 | 84 | 46.3 | 31.1 | 50.0 | 0.060 | 0.0 | 8.1 |
| 6 | 29.643 | 44.8 | 33.8 | 11.0 | 41.4 | - 0.1 | 39.9 | 37.9 | 3.5 | 6.4 | 1.7 | 87 | 52.7 | 24.3 | 49.8 | 0.048 | 0.2 | 8.1 |
| 7 | 29.952 | 43.4 | 29.1 | 14.3 | 35.9 | - 5.4 | 35.5 | 34.8 | 1.1 | 2.3 | 0.3 | 96 | 45.5 | 23.7 | 49.4 | 0.009 | 0.2 | 8.0 |
| 8 | 29.619 | 53.1 | 43.4 | 9.7 | 48.8 | + 7.8 | 48.0 | 47.2 | 1.6 | 5.7 | 1.3 | 94 | 53.1 | 39.4 | 49.3 | 0.341 | 0.0 | 8.0 |
| 9 | 29.720 | 53.6 | 40.0 | 13.6 | 47.5 | + 6.9 | 46.6 | 45.5 | 2.0 | 4.4 | 0.6 | 93 | 57.7 | 31.6 | 49.2 | 0.010 | 1.8 | 8.0 |
| 10 | 29.571 | 53.7 | 38.0 | 15.7 | 47.3 | + 6.9 | 46.1 | 44.7 | 2.6 | 8.1 | 0.7 | 91 | 58.7 | 29.3 | 49.1 | 0.100 | 5.0 | 8.0 |
| 11 | 29.860 | 46.7 | 36.8 | 9.9 | 42.0 | + 1.8 | 41.7 | 41.4 | 0.6 | 3.1 | 0.4 | 97 | 53.5 | 28.1 | 49.0 | 0.006 | 0.0 | 7.9 |
| 12 | 30.077 | 39.0 | 37.1 | 1.9 | 38.0 | - 2.3 | 35.8 | 32.1 | 5.9 | 7.0 | 3.1 | 79 | 41.7 | 36.0 | 49.0 | 0.000 | 0.0 | 7.9 |
| 13 | 30.002 | 39.1 | 35.4 | 3.7 | 38.0 | - 2.5 | 36.2 | 33.4 | 4.6 | 7.0 | 2.8 | 83 | 40.0 | 35.5 | 48.8 | 0.000 | 0.0 | 7.9 |
| 14 | 29.764 | 38.2 | 34.7 | 3.5 | 36.4 | - 4.3 | 35.5 | 33.9 | 2.5 | 4.4 | 0.2 | 91 | 41.9 | 34.4 | 48.6 | 0.016 | 0.0 | 7.9 |
| 15 | 29.798 | 36.6 | 34.3 | 2.3 | 35.5 | - 5.3 | 34.7 | 33.3 | 2.2 | 4.0 | 0.8 | 92 | 37.0 | 33.8 | 48.5 | 0.019 | 0.0 | 7.9 |
| 16 | 29.959 | 37.5 | 33.0 | 4.5 | 35.2 | - 5.5 | 33.5 | 30.5 | 4.7 | 6.8 | 0.2 | 83 | 41.7 | 32.2 | 48.3 | 0.006 | 0.0 | 7.8 |
| 17 | 30.073 | 36.0 | 32.2 | 3.8 | 34.2 | - 6.2 | 32.5 | 29.6 | 4.6 | 6.9 | 2.5 | 82 | 39.8 | 31.4 | 48.1 | 0.000 | 0.0 | 7.8 |
| 18 | 30.000 | 37.4 | 33.9 | 3.5 | 35.9 | - 4.1 | 34.3 | 31.5 | 4.4 | 4.8 | 2.8 | 84 | 37.5 | 33.1 | 47.8 | 0.000 | 0.0 | 7.8 |
| 19 | 29.893 | 38.0 | 36.0 | 2.0 | 37.2 | - 2.3 | 36.2 | 34.5 | 2.7 | 4.1 | 2.1 | 91 | 38.4 | 35.7 | 47.5 | 0.005 | 0.0 | 7.8 |
| 20 | 30.088 | 41.5 | 34.2 | 7.3 | 38.7 | - 0.3 | 37.8 | 36.4 | 2.3 | 4.4 | 0.7 | 92 | 45.0 | 29.6 | 47.6 | 0.075 | 0.0 | 7.8 |
| 21 | 30.170 | 37.9 | 27.8 | 10.1 | 34.8 | - 3.9 | 32.9 | 29.7 | 5.1 | 4.4 | 1.4 | 80 | 44.1 | 17.5 | 47.3 | 0.000 | 3.9 | 7.8 |
| 22 | 30.099 | 34.0 | 21.3 | 12.7 | 27.1 | -11.3 | 26.5 | 25.3 | 1.8 | 6.0 | 0.0 | 93 | 34.9 | 15.0 | 47.0 | 0.000 | 1.1 | 7.8 |
| 23 | 30.079 | 31.8 | 23.1 | 8.7 | 27.8 | -10.4 | 27.7 | 27.5 | 0.3 | 1.3 | 0.0 | 98 | 31.4 | 16.7 | 46.8 | 0.000 | 0.0 | 7.8 |
| 24 | 30.029 | 33.8 | 29.1 | 4.7 | 31.8 | - 6.4 | 31.8 | 31.8 | 0.0 | 1.5 | 0.0 | 100 | 36.7 | 23.8 | 46.5 | 0.000 | 0.0 | 7.8 |
| 25 | 29.879 | 37.1 | 31.4 | 5.7 | 34.4 | - 4.0 | 33.9 | 33.1 | 1.3 | 3.0 | 0.0 | 95 | 37.7 | 28.0 | 46.2 | 0.004 | 0.0 | 7.8 |
| 26 | 29.801 | 43.7 | 33.8 | 9.9 | 39.0 | + 0.4 | 38.7 | 38.3 | 0.7 | 2.7 | 0.0 | 97 | 43.9 | 34.0 | 45.9 | 0.038 | 0.0 | 7.8 |
| 27 | 29.950 | 37.1 | 30.3 | 6.8 | 33.2 | - 5.6 | 31.8 | 29.9 | 3.3 | 7.2 | 1.7 | 84 | 42.8 | 24.2 | 45.8 | 0.000 | 2.4 | 7.9 |
| 28 | 29.894 | 31.3 | 23.8 | 7.5 | 29.1 | - 9.8 | 28.6 | 27.7 | 1.4 | 5.6 | 0.0 | 94 | 32.7 | 17.6 | 45.6 | 0.049 | 0.0 | 7.9 |
| 29 | 29.887 | 33.9 | 21.4 | 12.5 | 28.4 | -10.6 | 27.5 | 26.1 | 2.3 | 5.1 | 0.7 | 89 | 37.4 | 17.7 | 45.6 | 0.000 | 0.5 | 7.9 |
| 30 | 29.820 | 34.7 | 19.4 | 15.3 | 28.5 | -10.4 | 27.5 | 25.9 | 2.6 | 4.2 | 0.0 | 87 | 40.5 | 15.7 | 45.1 | 0.005 | 0.0 | 7.9 |
| 31 | 29.806 | 35.0 | 28.0 | 7.0 | 32.3 | - 6.4 | 32.1 | 31.7 | 0.6 | 4.1 | 0.0 | 98 | 41.8 | 21.0 | 45.0 | 0.000 | 0.0 | 7.9 |
| Means | 29.832 | 41.2 | 32.9 | 8.3 | 37.5 | - 2.4 | 36.3 | 34.5 | 3.0 | 5.5 | 1.2 | 88.8 | 45.0 | 28.4 | 48.0 | 1.180 | 0.9 | 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 |

The results apply to the civil day, except Columns 19 to 22 (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 autographic 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 Hygrometrical Tables, published by the Meteorological Office, Air Ministry. 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 autographic 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 29.832 in., being 0.040 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°·7 on December 1; the lowest in the month was 19°·4 on December 30; and the range was 36°·3.

The mean of all the highest daily readings on the month was 41°·2, 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 32°·9, being 2°·6 lower than the average for the 65 years, 1841-1905. †

The mean of the daily ranges was 8°·3, being 0°·4 less than the average for the 65 years, 1841-1905. †

The mean for the month was 37°·5, being 2°·4 lower than the average for the 65 years, 1841-1905.

† The average has been corrected for the presumed change of thermometer screen on 1928 January 1. (See Introduction p. xvii).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

| MONTH and DAY 1939 | RECORD OF THE NIGHT SKY | | | | WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS | | | | | CLOUDS AND WEATHER | | | |
|--------------------------------|-------------------------|----------------------------|-----------------|----------------------------|---|-----------|-----------------------------|----------------------------|----------------------------------|--|------------------------------------|--|------------------------------------|
| | POLARIS | | 8 URSAE MINORIS | | OSLER'S | | | Robinson's | | | | | |
| | Duration | Fraction of Total Exposure | Duration | Fraction of Total Exposure | General Direction | | Pressure on the Square Foot | | Horizontal Movement of the Air | | | | |
| | | | | | A.M. | P.M. | Greatest | Mean of 24 Hourly Measures |  |  |  |  |  | lbs. | lbs. | miles |
| hours | | hours | | | | lbs. | lbs. | miles | 0 ^h to 6 ^h | 6 ^h to 12 ^h | 12 ^h to 18 ^h | 18 ^h to 24 ^h | |
| Dec. 1 | 2.6 | 0.19 | 2.3 | 0.17 | WSW | SW | 6.3 | 1.32 | 515 | c | c Cist Frcu Nbst d _o | c | c q d _o c |
| 2 | 11.6 | 0.84 | 11.6 | 0.84 | W:WNW | W | 6.3 | 0.89 | 449 | c q | c bc Frcu b Cu | b c Ast Cu | c r _o c b |
| 3 | 5.9 | 0.43 | 2.6 | 0.19 | WSW | SW:W | 6.9 | 0.43 | 366 | b bc | bc m c bc Cicu Frst | bc c | c r _h b |
| 4 | 6.5 | 0.48 | 5.2 | 0.38 | WSW | WSW:SW | 4.4 | 0.52 | 414 | b x c b | b Ci c Nbst r | r c b Ci Cicu bc | bc p bc |
| 5 | 1.9 | 0.14 | 1.3 | 0.10 | WSW:WNW:W | NW:NNW | 4.0 | 0.47 | 387 | bc c ir | c bc m Acu c Stcu | c Stcu Nbst r b m | b c ird m |
| 6 | 9.7 | 0.71 | 6.3 | 0.46 | NNE | NNE:N | 4.6 | 0.36 | 321 | rr c m | c m _o ir | c p b m _o m | b m x |
| 7 | 0.4 | 0.03 | 0.3 | 0.02 | Calm | S:SSW | 0.7 | 0.02 | 199 | b x m f Fe | FeFe f b Ci Acu Fe | b c f m _o c | c d r _o r _o |
| 8 | 8.8 | 0.64 | 7.5 | 0.54 | SSW | SSW:W:WNW | 4.4 | 0.58 | 403 | c ird | ird rr Nbst | r c rr d _o d _o | c d _o c b |
| 9 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:SW | S | 1.3 | 0.10 | 297 | b w m | b c Ci m | c d _o c d _o d _o | d _o d _o |
| 10 | 8.0 | 0.58 | 7.9 | 0.57 | SSW:SW | SW:S | 3.4 | 0.09 | 294 | d _o d _o ir id _o | id _o c bc St Ci b Cu | b bc c b | b w |
| 11 | 0.0 | 0.00 | 0.0 | 0.00 | S:Calm | Calm:ENE | 2.0 | 0.04 | 185 | b w bc c | c f Stcu | c r b c | f d _o d _o c |
| 12 | 0.0 | 0.00 | 0.0 | 0.00 | ENE:NE | NE | 1.4 | 0.15 | 317 | o | o Nbst id _o | o id _o | o id _o |
| 13 | 0.0 | 0.00 | 0.0 | 0.00 | NNE:NE | NE:Calm | 1.7 | 0.07 | 253 | o id _o | o id _o Nbst | o St | o |
| 14 | 0.0 | 0.00 | 0.0 | 0.00 | Calm:ESE | Calm | 0.3 | 0.01 | 180 | o d o d _o | o St m | o m _o | o d |
| 15 | 0.0 | 0.00 | 0.0 | 0.00 | Calm | E:Calm | 0.0 | 0.00 | 164 | d m c | o m | o m | o d _o d _o |
| 16 | 0.0 | 0.00 | 0.0 | 0.00 | Calm:NE | NE | 3.0 | 0.29 | 361 | d _o c m | c Stcu m m _o | c m _o | c m _o |
| 17 | 0.0 | 0.00 | 0.0 | 0.00 | NE | NE:E | 2.2 | 0.28 | 376 | c m _o | c Stcu m _o | c m _o | c o |
| 18 | 0.0 | 0.00 | 0.0 | 0.00 | E:NE | ENE | 1.3 | 0.15 | 300 | m _o m | o St m | o St m | o m |
| 19 | 1.8 | 0.13 | 11.3 | 0.10 | NE:ENE | NE | 2.2 | 0.18 | 336 | o r _o s _o m | o m | o St m d | dd c r _o s _o |
| 20 | 0.0 | 0.00 | 0.0 | 0.00 | NE | NE:E | 0.7 | 0.07 | 255 | c b m | b c m | c m dd | dd c ddm m _o |
| 21 | 14.0 | 1.00 | 14.0 | 1.00 | Calm:ESE | E:Calm | 0.1 | 0.00 | 191 | c | c Ci Acu b x m _o | bc Ci b f | fx |
| 22 | 8.4 | 0.60 | 1.7 | 0.12 | Calm | Calm:WSW | 0.0 | 0.00 | 131 | f x | fFx f Ast | fx | fx |
| 23 | 0.0 | 0.00 | 0.0 | 0.00 | WSW:Calm | WSW:Calm | 0.0 | 0.00 | 187 | fFx | FeFex | FeFex | FeFex |
| 24 | 2.7 | 0.20 | 0.0 | 0.00 | WSW:Calm | WSW:Calm | 0.0 | 0.00 | 189 | FeFex | FeFex | FeFex | fefex |
| 25 | 0.0 | 0.00 | 0.0 | 0.0 | WSW:Calm | Calm | 0.0 | 0.00 | 188 | F f c f | c fe Fe | Fe ff | FeFe |
| 26 | 7.1 | 0.50 | 6.7 | 0.47 | Calm:WSW | NNE:N | 0.4 | 0.03 | 221 | c fe fe | c fe fe d | c fe r r _o c m r _o | c m |
| 27 | 13.3 | 0.95 | 10.9 | 0.77 | N | N:NNW | 0.6 | 0.09 | 266 | c m x | c b m x | b c m x b | b m x |
| 28 | 6.1 | 0.44 | 5.9 | 0.42 | Calm:WSW | Calm:NNE | 0.5 | 0.01 | 190 | b c m x | c f x Nbst s _o | s s _o f | s _o c m f |
| 29 | 12.0 | 0.86 | 9.0 | 0.64 | N | NNW:WSW | 0.6 | 0.03 | 230 | c b m f c | b m f Ast | bc Ast f | b m f |
| 30 | 6.3 | 0.45 | 3.2 | 0.24 | WSW | WSW | 0.3 | 0.05 | 261 | b x | bc Ci so-ha c f Ast | c f s _o c | c |
| 31 | 6.7 | 0.49 | 2.9 | 0.21 | WSW | Calm | 0.0 | 0.00 | 167 | b x c | c ff | c ff | c ff |
| Means | 4.3 | 0.31 | 3.2 | 0.23 | ... | ... | ... | 0.20 | 277 | | | | |
| Number of Column for Reference | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

The mean *Temperature of Evaporation* for the month was 36°.3, being 2°.2 lower than the average for the 65 years, 1841-1905.

The mean *Temperature of the Dew Point* for the month was 34°.5, being 1°.9 lower than the average for the 65 years, 1841-1905.

The mean *Degree of Humidity* for the month was 88.8, being 1.3 greater than the average for the 65 years, 1841-1905.

The mean *Elastic Force of Vapour* for the month was 0.200 in., being 0.016 in. 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 overcast sky by 10) was 7.7.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.107. The maximum daily amount of *Sunshine* was 5.0 hours on December 10.

The highest reading of the *Solar Radiation Thermometer* was 65°.8 on December 1; and the lowest reading of the *terrestrial Radiation Thermometer* was 15°.0 on December 22.

The *Proportions of Wind* referred to the cardinal points were N.20, E.18, S.18, W.27, calm or nearly calm conditions 19, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 6.9 lbs. on the square foot on December 3. The mean daily *Horizontal Movement of the Air* for the month was 277 miles; the greatest daily value was 515 miles on December 1, and the least daily value was 131 miles on December 22.

Rain (0.005 in. or over) fell on 17 days in the month, amounting to 1.180 in., as measured by gauge No. 6 partly sunk below the ground; being 0.647 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVIII(A). - HIGHEST AND LOWEST READINGS OF THE BAROMETER, REDUCED TO 32° FAHRENHEIT, AS EXTRACTED FROM THE PHOTOGRAPHIC RECORDS

| MAXIMA | | MINIMA | | MAXIMA | | MINIMA | | MAXIMA | | MINIMA | |
|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| U.T., 1939. | Reading | U.T., 1939. | Reading | U.T., 1939. | Reading | U.T., 1939. | Reading | U.T., 1939. | Reading | U.T., 1939. | Reading |
| d. h. m. | in. | d. h. m. | in. | d. h. m. | in. | d. h. m. | in. | d. h. m. | in. | d. h. m. | in. |
| January | | January | | May | | May | | October | | October | |
| | | 2. 0. 50 | 28° 997 | | | 1. 4. 5 | 29° 738 | | | 1. 15. 15 | 29° 400 |
| 3. 21. 5 | 29° 666 | 4. 13. 50 | 29° 179 | 1. 23. 30 | 29° 849 | 2. 17. 35 | 29° 746 | | | 5. 8. 0 | 29° 342 |
| 6. 19. 50 | 30° 050 | 9. 13. 35 | 29° 566 | 3. 20. 15 | 29° 835 | 5. 17. 45 | 29° 285 | 3. 23. 0 | 29° 855 | 9. 14. 45 | 29° 377 |
| 10. 10. 20 | 29° 718 | 12. 5. 40 | 29° 192 | 10. 8. 40 | 30° 122 | 16. 3. 0 | 29° 442 | 8. 7. 50 | 29° 868 | 14. 6. 5 | 29° 865 |
| 14. 8. 5 | 29° 498 | 15. 5. 30 | 29° 036 | 16. 17. 20 | 29° 574 | 17. 4. 0 | 29° 435 | 10. 9. 25 | 29° 886 | 18. 15. 30 | 29° 759 |
| 15. 11. 25 | 29° 207 | 15. 23. 35 | 28° 844 | 24. 1. 35 | 30° 248 | 24. 18. 10 | 30° 168 | 17. 0. 10 | 29° 907 | 25. 3. 0 | 29° 705 |
| 16. 16. 30 | 29° 064 | 16. 20. 10 | 28° 950 | 26. 4. 40 | 30° 253 | 27. 16. 15 | 30° 083 | 22. 8. 35 | 30° 180 | 26. 13. 15 | 29° 437 |
| 17. 7. 25 | 29° 159 | 18. 6. 0 | 28° 962 | 29. 8. 0 | 30° 304 | 31. 17. 5 | 30° 059 | 25. 20. 0 | 29° 790 | 29. 7. 15 | 29° 521 |
| 19. 16. 55 | 29° 644 | 21. 13. 35 | 29° 027 | June | | June | | 28. 1. 0 | 29° 758 | | |
| 22. 8. 45 | 29° 545 | 23. 2. 25 | 28° 861 | June | | June | | 30. 12. 0 | 29° 890 | | |
| 24. 10. 50 | 29° 929 | 25. 23. 25 | 28° 747 | 1. 9. 15 | 30° 142 | 7. 17. 15 | 29° 955 | | | | |
| February | | February | | 9. 0. 20 | 30° 175 | 11. 17. 20 | 29° 524 | | | | |
| 4. 11. 10 | 30° 212 | 7. 14. 40 | 30° 044 | 13. 8. 10 | 29° 848 | 16. 13. 30 | 29° 585 | November | | November | |
| 8. 10. 0 | 30° 120 | 9. 5. 45 | 29° 804 | 17. 23. 15 | 29° 850 | 18. 17. 25 | 29° 734 | | | 4. 17. 15 | 29° 088 |
| 11. 1. 10 | 30° 335 | 13. 6. 10 | 29° 846 | 21. 0. 15 | 29° 933 | 24. 11. 40 | 29° 465 | | | 5. 22. 0 | 29° 001 |
| 14. 10. 0 | 30° 384 | 17. 23. 5 | 29° 806 | 27. 9. 5 | 30° 073 | 29. 3. 10 | 29° 674 | | | 8. 2. 5 | 29° 277 |
| 20. 11. 20 | 30° 176 | 23. 3. 10 | 28° 860 | July | | July | | 5. 12. 15 | 29° 342 | 11. 15. 55 | 29° 595 |
| 24. 22. 15 | 29° 662 | 25. 22. 55 | 29° 542 | 3. 8. 55 | 29° 996 | 1. 2. 45 | 29° 621 | 6. 23. 55 | 29° 592 | 15. 13. 20 | 29° 422 |
| 27. 10. 40 | 29° 834 | 28. 16. 5 | 29° 023 | 6. 14. 25 | 29° 865 | 5. 7. 5 | 29° 542 | 10. 10. 45 | 29° 785 | 16. 14. 10 | 29° 307 |
| March | | March | | 7. 23. 5 | 29° 805 | 7. 7. 30 | 29° 724 | 13. 9. 10 | 29° 898 | 16. 13. 20 | 29° 382 |
| 2. 19. 35 | 29° 791 | 5. 6. 20 | 29° 432 | 10. 23. 40 | 30° 085 | 8. 19. 5 | 29° 630 | 16. 4. 15 | 29° 711 | 19. 1. 15 | 29° 681 |
| 7. 20. 45 | 30° 053 | 8. 19. 10 | 29° 729 | 18. 0. 30 | 29° 639 | 16. 16. 55 | 29° 335 | 18. 7. 0 | 30° 092 | 23. 22. 5 | 29° 681 |
| 10. 23. 50 | 30° 200 | 11. 22. 15 | 29° 961 | 21. 10. 50 | 29° 757 | 19. 17. 10 | 29° 455 | 21. 10. 55 | 29° 428 | 26. 12. 25 | 29° 183 |
| 13. 1. 0 | 30° 478 | 15. 2. 45 | 30° 115 | 27. 9. 55 | 29° 948 | 24. 10. 25 | 29° 374 | 25. 5. 0 | 30° 036 | 27. 9. 25 | 29° 038 |
| 15. 12. 0 | 30° 222 | 17. 9. 15 | 29° 754 | August | | August | | 27. 1. 35 | 29° 300 | 28. 18. 0 | 29° 864 |
| 18. 10. 5 | 30° 164 | 23. 3. 0 | 29° 279 | 2. 8. 30 | 29° 945 | 3. 11. 10 | 29° 571 | 28. 19. 50 | 29° 974 | 29. 3. 40 | 29° 669 |
| 16. 10. 0 | 29° 931 | 28. 15. 55 | 29° 463 | 4. 20. 50 | 29° 728 | 5. 4. 45 | 29° 648 | | | | |
| 31. 20. 40 | 29° 727 | | | 6. 21. 15 | 29° 727 | 8. 3. 10 | 29° 568 | December | | December | |
| April | | April | | 15. 8. 10 | 30° 222 | 21. 15. 0 | 29° 568 | | | | |
| 9. 23. 25 | 29° 949 | 4. 3. 45 | 28° 923 | 23. 10. 0 | 29° 968 | 25. 17. 5 | 29° 755 | 3. 3. 20 | 29° 892 | 2. 2. 10 | 29° 573 |
| 12. 21. 5 | 29° 872 | 11. 16. 5 | 29° 718 | 28. 8. 50 | 29° 939 | 31. 16. 35 | 29° 744 | 7. 10. 0 | 30° 018 | 5. 3. 5 | 29° 803 |
| 16. 22. 40 | 29° 933 | 14. 16. 45 | 29° 503 | September | | September | | 9. 10. 0 | 29° 814 | 8. 17. 10 | 29° 463 |
| 19. 7. 15 | 30° 469 | 17. 9. 25 | 29° 832 | 1. 23. 0 | 29° 890 | 3. 3. 55 | 29° 567 | 12. 10. 10 | 30° 097 | 10. 3. 10 | 29° 492 |
| 22. 19. 55 | 29° 783 | 22. 6. 55 | 29° 684 | 7. 7. 5 | 30° 105 | 11. 4. 40 | 29° 647 | 17. 10. 25 | 30° 100 | 14. 13. 50 | 29° 722 |
| 27. 21. 5 | 30° 122 | 24. 15. 10 | 29° 200 | 12. 11. 5 | 29° 817 | 14. 4. 25 | 29° 580 | 21. 10. 30 | 30° 213 | 19. 7. 50 | 29° 859 |
| | | | | 18. 23. 10 | 30° 195 | 23. 4. 45 | 29° 971 | 27. 23. 10 | 29° 975 | 26. 13. 10 | 29° 753 |
| | | | | 25. 7. 5 | 30° 239 | 26. 15. 50 | 30° 021 | 29. 21. 15 | 29° 948 | 29. 4. 0 | 29° 825 |
| | | | | 27. 20. 0 | 30° 196 | | | | | 31. 0. 40 | 29° 760 |

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 Universal Time.

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

TABLE XVIII(B). - HIGHEST AND LOWEST READINGS OF THE BAROMETER IN EACH MONTH FOR THE YEAR 1939

| | 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° 050 | 30° 384 | 30° 478 | 30° 469 | 30° 304 | 30° 175 | 30° 085 | 30° 222 | 30° 239 | 30° 180 | 30° 092 | 30° 213 |
| LOWEST | 28° 747 | 28° 860 | 29° 279 | 28° 923 | 29° 285 | 29° 465 | 29° 335 | 29° 568 | 29° 567 | 29° 342 | 29° 001 | 29° 463 |
| RANGE | 1° 303 | 1° 524 | 1° 199 | 1° 546 | 1° 019 | 0° 710 | 0° 750 | 0° 664 | 0° 672 | 0° 838 | 1° 091 | 0° 760 |

The highest reading in the year was 30° 478 in. on Mar. 13. The lowest reading in the year was 28° 747 in. on Jan. 25. The range of reading in the year was 1° 731 in.

TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1939.

| MONTH 1939 | Mean Reading of the Barometer | TEMPERATURE OF THE AIR | | | | | | | | Mean Temperature of Evaporation | Mean Temperature of the Dew Point | Mean Degree of Humidity (Saturation = 100) |
|---------------|--|------------------------|--------|--------------------------|----------------------------------|---------------------------------|-----------------------------------|-----------------|---|--|--|--|
| | | 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 | | | |
| | in. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| January | 29.445 | 54.8 | 24.5 | 30.3 | 45.5 | 37.9 | 7.6 | 41.7 | +3.1 | 39.9 | 37.3 | 84.4 |
| February | 29.898 | 57.8 | 29.0 | 28.8 | 48.8 | 37.2 | 11.6 | 42.8 | +3.3 | 40.3 | 36.6 | 78.9 |
| March | 29.824 | 60.3 | 29.2 | 31.1 | 48.9 | 37.3 | 11.6 | 42.9 | +1.0 | 39.9 | 35.3 | 74.6 |
| April | 29.759 | 75.0 | 29.8 | 45.2 | 57.1 | 39.8 | 17.4 | 48.5 | +1.2 | 44.7 | 40.0 | 73.5 |
| May | 29.880 | 74.9 | 37.4 | 37.5 | 62.0 | 43.5 | 18.5 | 52.7 | -0.3 | 48.7 | 44.3 | 73.4 |
| June | 29.845 | 85.2 | 42.9 | 42.3 | 68.0 | 49.7 | 18.3 | 58.7 | -0.7 | 53.3 | 48.2 | 69.2 |
| July | 29.704 | 80.4 | 44.4 | 36.0 | 70.1 | 53.3 | 16.8 | 61.2 | -1.4 | 56.6 | 52.7 | 74.0 |
| August | 29.841 | 82.3 | 47.3 | 35.0 | 71.7 | 54.8 | 17.0 | 62.6 | +0.9 | 59.0 | 56.3 | 80.4 |
| September | 29.933 | 81.7 | 41.9 | 39.8 | 67.4 | 52.5 | 14.9 | 59.3 | +2.1 | 55.4 | 52.0 | 77.0 |
| October | 29.683 | 64.7 | 31.1 | 33.6 | 54.4 | 42.1 | 12.3 | 48.1 | -1.9 | 45.9 | 43.2 | 83.5 |
| November | 29.685 | 58.2 | 31.8 | 26.4 | 53.4 | 43.9 | 9.5 | 48.8 | +5.3 | 47.1 | 45.1 | 87.2 |
| December | 29.832 | 55.7 | 19.4 | 36.3 | 41.2 | 32.9 | 8.3 | 37.5 | -2.4 | 36.3 | 34.5 | 88.8 |
| Means | 29.777 | 65.2 | 19.4 | 65.8 | 57.4 | 43.7 | 13.7 | 50.4 | +0.8 | 47.3 | 43.8 | 78.7 |

| MONTH 1939 | Mean Elastic Force of Vapour | Mean Tempera- ture of the Earth 4 feet below the Surface of the soil | Mean Amount of Cloud (0-10) | RAIN | | WIND | | | | | | | | | | Mean Daily Pressure on the Square Foot | From Robin- son's Anemo- meter Mean Daily Horizontal Move- ment of the Air |
|---------------|---------------------------------------|---|---|---|--|---|------|-----|------|-----|------|-----|-----|--|-------|---|---|
| | | | | Number of Rainy Days (0.005 in. or over) | Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground | From Osler's Anemometer | | | | | | | | Number of Calm or Nearly Calm Hours | | | |
| | | | | | | 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. | | | lbs. | miles | | |
| January | 0.223 | 44.9 | 8.0 | 21 | 4.233 | 22 | 58 | 102 | 27 | 109 | 244 | 61 | 86 | 35 | 0.38 | 357 | |
| February | 0.217 | 44.2 | 6.5 | 8 | 1.072 | 42 | 15 | 42 | 5 | 100 | 265 | 130 | 34 | 39 | 0.25 | 326 | |
| March | 0.206 | 44.6 | 7.5 | 16 | 1.205 | 152 | 76 | 43 | 17 | 68 | 98 | 90 | 149 | 51 | 0.39 | 336 | |
| April | 0.248 | 46.8 | 6.4 | 17 | 2.488 | 55 | 117 | 78 | 18 | 33 | 180 | 109 | 38 | 92 | 0.24 | 292 | |
| May | 0.293 | 49.6 | 6.0 | 8 | 1.642 | 144 | 174 | 51 | 43 | 35 | 66 | 15 | 33 | 163 | 0.15 | 245 | |
| June | 0.339 | 54.4 | 6.2 | 11 | 1.382 | 101 | 175 | 74 | 8 | 66 | 157 | 35 | 40 | 64 | 0.19 | 283 | |
| July | 0.401 | 56.7 | 7.2 | 17 | 2.359 | 28 | 0 | 1 | 27 | 154 | 350 | 76 | 61 | 47 | 0.18 | 284 | |
| August | 0.467 | 58.8 | 6.3 | 12 | 3.097 | 47 | 106 | 100 | 10 | 29 | 194 | 55 | 12 | 191 | 0.06 | 226 | |
| September | 0.390 | 59.4 | 6.6 | 12 | 1.196 | 175 | 183 | 58 | 20 | 33 | 76 | 40 | 56 | 99 | 0.16 | 283 | |
| October | 0.281 | 55.2 | 7.3 | 19 | 6.155 | 175 | 122 | 112 | 42 | 43 | 72 | 52 | 44 | 82 | 0.24 | 287 | |
| November | 0.301 | 51.4 | 8.1 | 23 | 4.132 | 22 | 7 | 45 | 26 | 137 | 257 | 106 | 35 | 85 | 0.48 | 330 | |
| December | 0.200 | 48.0 | 7.7 | 17 | 1.180 | 63 | 143 | 56 | 9 | 49 | 130 | 125 | 30 | 139 | 0.20 | 277 | |
| Sums | .. | .. | .. | 181 | 30.141 | 1026 | 1156 | 762 | 252 | 856 | 2089 | 894 | 618 | 1107 | .. | .. | |
| Means | 0.296 | 51.2 | 6.9 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.24 | 292 | |

The greatest recorded pressure of the wind on the square foot in the year was 17.0 lbs. on November 19.
 The greatest recorded daily horizontal movement of the air in the year was 621 miles on November 26.
 The least recorded daily horizontal movement of the air in the year was 131 miles on December 22.

TABLE XX. - MONTHLY MEAN READING OF THE BAROMETER AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

| Hour, Universal Time. | January | February | March | April | May | June | July | August | September | October | November | December | Yearly Means |
|-----------------------|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 0 ^h | in. 29.438 | in. 29.912 | in. 29.815 | in. 29.768 | in. 29.882 | in. 29.865 | in. 29.713 | in. 29.849 | in. 29.942 | in. 29.690 | in. 29.675 | in. 29.831 | in. 29.782 |
| 1 | 29.438 | 29.908 | 29.814 | 29.763 | 29.879 | 29.861 | 29.708 | 29.846 | 29.938 | 29.688 | 29.671 | 29.827 | 29.778 |
| 2 | 29.439 | 29.905 | 29.809 | 29.758 | 29.874 | 29.855 | 29.702 | 29.842 | 29.933 | 29.681 | 29.673 | 29.827 | 29.775 |
| 3 | 29.437 | 29.900 | 29.803 | 29.754 | 29.870 | 29.849 | 29.696 | 29.838 | 29.928 | 29.678 | 29.673 | 29.825 | 29.771 |
| 4 | 29.431 | 29.895 | 29.799 | 29.752 | 29.869 | 29.847 | 29.694 | 29.836 | 29.925 | 29.671 | 29.673 | 29.824 | 29.768 |
| 5 | 29.425 | 29.896 | 29.802 | 29.754 | 29.873 | 29.848 | 29.695 | 29.839 | 29.927 | 29.672 | 29.674 | 29.824 | 29.767 |
| 6 | 29.425 | 29.897 | 29.806 | 29.760 | 29.879 | 29.852 | 29.698 | 29.845 | 29.933 | 29.672 | 29.681 | 29.827 | 29.773 |
| 7 | 29.433 | 29.899 | 29.813 | 29.766 | 29.885 | 29.855 | 29.700 | 29.849 | 29.938 | 29.677 | 29.686 | 29.834 | 29.778 |
| 8 | 29.443 | 29.908 | 29.825 | 29.767 | 29.888 | 29.856 | 29.702 | 29.853 | 29.943 | 29.683 | 29.694 | 29.842 | 29.784 |
| 9 | 29.453 | 29.915 | 29.831 | 29.768 | 29.889 | 29.854 | 29.703 | 29.854 | 29.948 | 29.687 | 29.697 | 29.852 | 29.788 |
| 10 | 29.456 | 29.915 | 29.837 | 29.768 | 29.888 | 29.850 | 29.704 | 29.852 | 29.946 | 29.690 | 29.701 | 29.857 | 29.789 |
| 11 | 29.460 | 29.916 | 29.839 | 29.765 | 29.886 | 29.849 | 29.705 | 29.848 | 29.942 | 29.689 | 29.700 | 29.853 | 29.788 |
| 12 | 29.455 | 29.908 | 29.839 | 29.758 | 29.881 | 29.845 | 29.704 | 29.843 | 29.936 | 29.685 | 29.691 | 29.843 | 29.782 |
| 13 | 29.447 | 29.897 | 29.833 | 29.756 | 29.878 | 29.841 | 29.704 | 29.839 | 29.929 | 29.679 | 29.684 | 29.831 | 29.777 |
| 14 | 29.443 | 29.888 | 29.826 | 29.751 | 29.875 | 29.835 | 29.703 | 29.833 | 29.922 | 29.676 | 29.679 | 29.825 | 29.771 |
| 15 | 29.447 | 29.884 | 29.822 | 29.744 | 29.869 | 29.829 | 29.700 | 29.827 | 29.917 | 29.673 | 29.679 | 29.824 | 29.768 |
| 16 | 29.448 | 29.883 | 29.820 | 29.742 | 29.867 | 29.825 | 29.696 | 29.825 | 29.915 | 29.675 | 29.681 | 29.824 | 29.767 |
| 17 | 29.449 | 29.885 | 29.821 | 29.742 | 29.867 | 29.823 | 29.693 | 29.823 | 29.916 | 29.679 | 29.685 | 29.825 | 29.767 |
| 18 | 29.453 | 29.889 | 29.828 | 29.747 | 29.870 | 29.825 | 29.696 | 29.824 | 29.920 | 29.685 | 29.688 | 29.824 | 29.771 |
| 19 | 29.456 | 29.891 | 29.834 | 29.755 | 29.875 | 29.831 | 29.704 | 29.834 | 29.929 | 29.689 | 29.692 | 29.826 | 29.776 |
| 20 | 29.455 | 29.891 | 29.838 | 29.765 | 29.885 | 29.838 | 29.710 | 29.840 | 29.935 | 29.695 | 29.690 | 29.827 | 29.781 |
| 21 | 29.454 | 29.888 | 29.838 | 29.770 | 29.892 | 29.849 | 29.720 | 29.844 | 29.940 | 29.698 | 29.691 | 29.829 | 29.784 |
| 22 | 29.453 | 29.888 | 29.838 | 29.769 | 29.896 | 29.852 | 29.722 | 29.848 | 29.940 | 29.698 | 29.688 | 29.832 | 29.785 |
| 23 | 29.453 | 29.885 | 29.835 | 29.770 | 29.896 | 29.852 | 29.722 | 29.849 | 29.939 | 29.697 | 29.687 | 29.833 | 29.785 |
| 24 | 29.452 | 29.885 | 29.834 | 29.769 | 29.894 | 29.850 | 29.720 | 29.848 | 29.933 | 29.694 | 29.686 | 29.829 | 29.783 |
| Means | 0 ^h -23 ^h | 29.445 | 29.898 | 29.824 | 29.759 | 29.880 | 29.845 | 29.704 | 29.841 | 29.933 | 29.683 | 29.832 | 29.777 |
| | 1 ^h -24 ^h | 29.446 | 29.896 | 29.824 | 29.759 | 29.880 | 29.845 | 29.704 | 29.841 | 29.932 | 29.684 | 29.832 | 29.777 |
| No. of Days Employed | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | .. |

TABLE XXI. - MONTHLY MEAN TEMPERATURE OF THE AIR, AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE AUTOGRAPHIC RECORDS

| Hour, Universal Time. | January | February | March | April | May | June | July | August | September | October | November | December | Yearly Means | |
|-----------------------|---------------------------------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|--------------|------|
| 0 ^h | ° 40.9 | ° 41.3 | ° 40.6 | ° 44.5 | ° 47.2 | ° 53.4 | ° 56.6 | ° 58.3 | ° 55.9 | ° 45.7 | ° 47.7 | ° 37.1 | ° 47.4 | |
| 1 | 40.7 | 41.1 | 40.1 | 43.7 | 46.5 | 52.6 | 56.0 | 57.6 | 55.1 | 45.6 | 47.5 | 36.6 | 46.9 | |
| 2 | 40.7 | 40.6 | 39.8 | 43.1 | 45.9 | 52.0 | 55.4 | 57.1 | 54.4 | 45.3 | 47.1 | 36.3 | 46.5 | |
| 3 | 40.6 | 40.2 | 39.6 | 42.4 | 45.4 | 51.5 | 54.9 | 56.5 | 54.0 | 44.9 | 46.8 | 36.1 | 46.1 | |
| 4 | 40.5 | 39.6 | 39.2 | 41.8 | 44.8 | 51.0 | 54.7 | 56.1 | 53.7 | 44.6 | 46.6 | 35.9 | 45.7 | |
| 5 | 40.7 | 39.2 | 39.3 | 41.2 | 45.1 | 51.6 | 55.1 | 56.1 | 53.8 | 44.2 | 46.3 | 36.0 | 45.7 | |
| 6 | 40.8 | 39.5 | 39.6 | 41.7 | 46.8 | 53.6 | 58.8 | 56.7 | 54.1 | 44.5 | 46.4 | 36.1 | 46.4 | |
| 7 | 41.1 | 39.6 | 40.1 | 44.1 | 49.5 | 56.1 | 58.9 | 58.5 | 55.4 | 45.1 | 46.5 | 36.3 | 47.6 | |
| 8 | 41.2 | 40.0 | 41.1 | 47.2 | 52.2 | 58.6 | 61.0 | 60.7 | 58.0 | 46.4 | 47.3 | 36.3 | 49.2 | |
| 9 | 41.5 | 41.5 | 42.9 | 50.0 | 55.1 | 61.1 | 63.1 | 63.1 | 60.3 | 46.1 | 48.2 | 36.7 | 51.0 | |
| 10 | 41.6 | 43.1 | 44.6 | 52.0 | 57.3 | 62.8 | 64.3 | 65.5 | 62.1 | 49.6 | 49.4 | 37.5 | 52.5 | |
| 11 | 42.6 | 44.6 | 46.1 | 53.2 | 58.7 | 63.9 | 65.5 | 67.4 | 63.9 | 51.2 | 50.3 | 38.4 | 53.8 | |
| 12 | 43.0 | 46.2 | 47.2 | 53.9 | 59.3 | 65.0 | 66.6 | 68.5 | 65.3 | 52.6 | 50.9 | 39.1 | 54.8 | |
| 13 | 43.4 | 47.6 | 47.5 | 54.5 | 60.0 | 65.5 | 66.7 | 69.3 | 65.5 | 53.4 | 51.6 | 39.7 | 55.4 | |
| 14 | 43.6 | 47.8 | 47.5 | 55.1 | 59.7 | 65.8 | 67.2 | 70.1 | 66.2 | 53.2 | 51.6 | 39.8 | 55.7 | |
| 15 | 43.4 | 47.5 | 47.1 | 55.3 | 59.4 | 65.8 | 67.5 | 69.6 | 65.7 | 52.7 | 51.4 | 39.5 | 55.4 | |
| 16 | 43.2 | 46.6 | 46.5 | 55.0 | 59.0 | 65.1 | 67.2 | 68.8 | 64.9 | 51.3 | 50.9 | 39.0 | 54.8 | |
| 17 | 42.7 | 45.2 | 45.6 | 63.9 | 58.3 | 62.9 | 66.6 | 67.9 | 63.6 | 50.3 | 50.3 | 38.6 | 53.9 | |
| 18 | 42.4 | 44.3 | 44.4 | 52.3 | 56.9 | 62.4 | 65.2 | 66.7 | 61.9 | 49.3 | 50.0 | 38.3 | 52.8 | |
| 19 | 41.8 | 43.5 | 43.6 | 50.2 | 55.1 | 60.6 | 63.1 | 64.5 | 60.2 | 48.2 | 49.6 | 38.0 | 51.5 | |
| 20 | 41.6 | 42.8 | 42.5 | 48.9 | 53.2 | 58.7 | 61.2 | 62.6 | 58.6 | 47.6 | 49.2 | 37.8 | 50.4 | |
| 21 | 41.2 | 42.4 | 41.9 | 47.5 | 51.3 | 56.7 | 59.5 | 61.0 | 57.5 | 46.9 | 49.0 | 37.6 | 49.4 | |
| 22 | 40.9 | 42.1 | 41.4 | 46.4 | 49.7 | 55.5 | 58.4 | 59.9 | 56.8 | 46.6 | 48.6 | 37.2 | 48.6 | |
| 23 | 40.8 | 41.7 | 41.0 | 45.4 | 48.4 | 54.4 | 57.5 | 59.0 | 56.1 | 46.1 | 48.3 | 36.8 | 48.0 | |
| 24 | 40.8 | 41.4 | 40.8 | 44.4 | 47.4 | 53.3 | 56.8 | 58.4 | 55.5 | 45.6 | 48.1 | 36.3 | 47.4 | |
| Means | 0 ^h -23 ^h | 41.7 | 42.8 | 42.9 | 48.5 | 52.7 | 58.7 | 61.2 | 62.6 | 59.3 | 48.1 | 48.8 | 37.5 | 50.4 |
| | 1 ^h -24 ^h | 41.7 | 42.8 | 42.9 | 48.5 | 52.7 | 58.7 | 61.2 | 62.6 | 59.3 | 48.1 | 48.8 | 37.5 | 50.4 |
| No. of Days Employed | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | .. | |

TABLE XXII. - MONTHLY MEAN TEMPERATURE OF EVAPORATION AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE AUTOGRAPHIC RECORDS

| Hour, Universal Time. | January | February | March | April | May | June | July | August | September | October | November | December | Yearly Means | |
|-----------------------|---------------------------------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|--------------|------|
| 0 ^h | 39.5 | 39.6 | 38.7 | 42.5 | 45.6 | 50.8 | 54.6 | 57.0 | 54.2 | 44.4 | 46.3 | 36.1 | 45.8 | |
| 1 | 39.3 | 39.4 | 38.4 | 41.9 | 45.1 | 50.3 | 54.2 | 56.5 | 53.7 | 44.3 | 46.0 | 35.7 | 45.4 | |
| 2 | 39.4 | 39.0 | 38.3 | 41.6 | 44.8 | 49.9 | 53.8 | 56.1 | 53.3 | 44.0 | 45.7 | 35.4 | 45.1 | |
| 3 | 39.2 | 38.7 | 38.2 | 41.2 | 44.5 | 49.8 | 53.5 | 55.8 | 53.0 | 43.8 | 45.5 | 35.2 | 44.9 | |
| 4 | 39.1 | 38.2 | 38.0 | 40.8 | 44.0 | 49.5 | 53.4 | 55.5 | 53.0 | 43.5 | 45.3 | 34.9 | 44.6 | |
| 5 | 39.2 | 37.7 | 37.8 | 40.4 | 43.9 | 49.6 | 53.5 | 55.2 | 52.7 | 43.2 | 45.1 | 34.9 | 44.4 | |
| 6 | 39.4 | 37.9 | 38.0 | 40.5 | 45.1 | 50.8 | 54.7 | 56.0 | 52.7 | 43.3 | 45.2 | 34.9 | 44.9 | |
| 7 | 39.6 | 37.9 | 38.1 | 42.1 | 46.8 | 52.3 | 55.8 | 57.3 | 53.7 | 43.6 | 45.3 | 35.0 | 45.7 | |
| 8 | 39.6 | 38.2 | 38.8 | 44.1 | 48.2 | 53.4 | 57.0 | 58.7 | 55.3 | 44.7 | 45.9 | 35.2 | 46.6 | |
| 9 | 39.8 | 39.5 | 39.9 | 45.8 | 49.6 | 54.7 | 57.9 | 59.5 | 56.3 | 46.1 | 46.7 | 35.5 | 47.6 | |
| 10 | 39.7 | 40.5 | 40.9 | 46.8 | 50.7 | 55.6 | 58.1 | 60.7 | 56.8 | 47.1 | 47.6 | 36.2 | 48.4 | |
| 11 | 40.3 | 41.4 | 41.6 | 47.4 | 51.3 | 56.1 | 58.5 | 61.0 | 57.4 | 47.9 | 48.1 | 36.8 | 49.0 | |
| 12 | 40.5 | 42.2 | 42.1 | 47.7 | 52.0 | 56.6 | 58.8 | 61.4 | 57.9 | 48.6 | 48.6 | 37.4 | 49.5 | |
| 13 | 40.9 | 43.0 | 42.2 | 48.3 | 52.6 | 56.8 | 58.7 | 61.8 | 57.9 | 49.0 | 49.1 | 37.9 | 49.9 | |
| 14 | 41.1 | 43.1 | 42.0 | 48.4 | 52.7 | 56.9 | 59.1 | 62.4 | 58.1 | 48.9 | 49.2 | 38.1 | 50.0 | |
| 15 | 41.0 | 43.0 | 41.8 | 48.5 | 52.7 | 56.9 | 59.2 | 62.3 | 58.1 | 48.6 | 48.9 | 37.8 | 49.9 | |
| 16 | 40.9 | 42.4 | 41.6 | 48.2 | 52.6 | 56.3 | 59.1 | 62.1 | 57.7 | 48.1 | 48.4 | 37.4 | 49.6 | |
| 17 | 40.7 | 41.7 | 41.3 | 47.8 | 52.1 | 55.9 | 58.8 | 61.8 | 57.2 | 47.5 | 48.2 | 37.2 | 49.2 | |
| 18 | 40.4 | 41.2 | 40.9 | 46.9 | 51.4 | 55.0 | 58.4 | 61.3 | 56.6 | 46.9 | 48.0 | 37.0 | 48.7 | |
| 19 | 40.2 | 40.7 | 40.6 | 45.8 | 50.7 | 54.1 | 57.5 | 60.4 | 55.9 | 46.2 | 47.8 | 36.9 | 48.1 | |
| 20 | 40.0 | 40.5 | 39.9 | 45.2 | 49.6 | 53.3 | 56.8 | 59.5 | 55.3 | 45.9 | 47.5 | 36.8 | 47.5 | |
| 21 | 39.7 | 40.3 | 39.6 | 44.6 | 48.5 | 52.4 | 56.0 | 58.8 | 55.0 | 45.5 | 47.5 | 36.6 | 47.0 | |
| 22 | 39.6 | 40.2 | 39.3 | 43.8 | 47.4 | 51.8 | 55.5 | 58.0 | 54.7 | 45.1 | 47.3 | 36.3 | 46.6 | |
| 23 | 39.5 | 39.9 | 39.0 | 43.1 | 46.5 | 51.4 | 55.1 | 57.6 | 54.3 | 44.6 | 46.9 | 35.9 | 46.1 | |
| 24 | 39.4 | 39.7 | 38.9 | 42.5 | 45.8 | 50.8 | 54.7 | 57.1 | 53.8 | 44.3 | 46.6 | 35.3 | 45.7 | |
| Means | 0 ^h -23 ^h | 39.9 | 40.3 | 39.9 | 44.7 | 48.7 | 53.3 | 56.6 | 59.0 | 55.4 | 45.9 | 47.1 | 36.3 | 47.3 |
| | 1 ^h -24 ^h | 39.9 | 40.3 | 39.9 | 44.7 | 48.7 | 53.3 | 56.6 | 59.0 | 55.4 | 45.9 | 47.1 | 36.3 | 47.3 |
| No. of Days Employed | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | .. | |

TABLE XXIII. - MONTHLY MEAN TEMPERATURES OF THE DEW POINT AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE CORRESPONDING AIR AND EVAPORATION TEMPERATURES

| Hour, Universal Time. | January | February | March | April | May | June | July | August | September | October | November | December | Yearly Means | |
|-----------------------|---------------------------------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|--------------|------|
| 0 ^h | 37.6 | 37.2 | 36.0 | 39.9 | 43.7 | 48.3 | 53.0 | 55.9 | 52.7 | 42.8 | 44.7 | 34.4 | 43.9 | |
| 1 | 37.4 | 37.0 | 36.0 | 39.5 | 43.4 | 48.0 | 52.7 | 55.6 | 52.5 | 42.7 | 44.3 | 34.1 | 43.6 | |
| 2 | 37.7 | 36.8 | 36.2 | 39.5 | 43.4 | 47.8 | 52.4 | 55.3 | 52.4 | 42.4 | 44.1 | 33.8 | 43.5 | |
| 3 | 37.3 | 36.7 | 36.2 | 39.6 | 43.5 | 48.1 | 52.3 | 55.2 | 52.2 | 42.5 | 43.9 | 33.5 | 43.4 | |
| 4 | 37.2 | 36.2 | 36.2 | 39.5 | 43.1 | 48.0 | 52.3 | 55.0 | 52.3 | 42.2 | 43.7 | 33.1 | 43.2 | |
| 5 | 37.2 | 35.6 | 35.7 | 39.3 | 42.5 | 47.6 | 52.1 | 54.4 | 51.7 | 42.0 | 43.6 | 32.9 | 42.9 | |
| 6 | 37.5 | 35.6 | 35.7 | 38.9 | 43.1 | 48.0 | 53.0 | 55.5 | 51.4 | 41.8 | 43.7 | 32.8 | 43.1 | |
| 7 | 37.6 | 35.4 | 35.1 | 39.5 | 43.7 | 48.6 | 53.2 | 56.3 | 52.2 | 41.6 | 43.8 | 32.8 | 43.3 | |
| 8 | 37.4 | 35.6 | 35.3 | 40.3 | 43.7 | 48.5 | 53.7 | 57.3 | 53.0 | 42.6 | 44.3 | 33.3 | 43.7 | |
| 9 | 37.4 | 36.6 | 35.6 | 40.8 | 43.6 | 48.9 | 53.7 | 56.8 | 52.9 | 43.8 | 45.0 | 33.5 | 44.1 | |
| 10 | 37.0 | 36.7 | 35.4 | 40.6 | 43.6 | 49.2 | 53.1 | 57.3 | 52.3 | 44.4 | 45.6 | 34.1 | 44.1 | |
| 11 | 36.9 | 36.9 | 35.1 | 40.5 | 43.4 | 49.2 | 52.8 | 56.3 | 52.0 | 44.3 | 45.7 | 34.4 | 44.0 | |
| 12 | 36.8 | 36.7 | 34.7 | 40.3 | 44.4 | 49.1 | 52.5 | 56.2 | 51.7 | 44.3 | 46.2 | 34.9 | 44.0 | |
| 13 | 37.3 | 36.8 | 34.6 | 41.2 | 45.1 | 49.1 | 52.2 | 56.4 | 51.5 | 44.3 | 46.4 | 35.3 | 44.2 | |
| 14 | 37.6 | 36.7 | 34.1 | 40.6 | 45.7 | 49.1 | 52.6 | 56.9 | 51.4 | 44.3 | 46.4 | 35.7 | 44.3 | |
| 15 | 37.6 | 37.0 | 34.1 | 40.6 | 46.1 | 49.1 | 52.6 | 57.1 | 51.8 | 44.3 | 46.2 | 35.3 | 44.3 | |
| 16 | 37.6 | 37.0 | 34.1 | 40.6 | 46.1 | 49.1 | 52.6 | 57.1 | 51.8 | 44.3 | 46.2 | 35.3 | 44.3 | |
| 17 | 37.8 | 36.7 | 35.1 | 40.6 | 45.9 | 48.8 | 52.5 | 57.5 | 51.9 | 44.4 | 45.9 | 35.1 | 44.3 | |
| 18 | 37.5 | 36.8 | 35.8 | 40.4 | 45.7 | 48.2 | 52.9 | 57.4 | 52.1 | 44.3 | 45.8 | 35.0 | 44.3 | |
| 19 | 38.0 | 36.8 | 36.4 | 40.5 | 46.2 | 48.0 | 52.9 | 57.4 | 52.2 | 43.9 | 45.8 | 35.1 | 44.4 | |
| 20 | 37.8 | 37.1 | 36.0 | 40.6 | 45.9 | 48.1 | 53.2 | 57.1 | 52.5 | 43.9 | 45.6 | 35.1 | 44.4 | |
| 21 | 37.7 | 37.3 | 36.2 | 41.1 | 45.5 | 48.3 | 53.1 | 57.1 | 52.9 | 43.8 | 45.8 | 34.9 | 44.5 | |
| 22 | 37.9 | 37.5 | 36.2 | 40.6 | 44.9 | 48.2 | 53.0 | 56.6 | 53.0 | 43.3 | 45.9 | 34.8 | 44.3 | |
| 23 | 37.8 | 37.4 | 36.1 | 40.1 | 44.4 | 48.5 | 53.1 | 56.5 | 52.8 | 42.8 | 45.3 | 34.3 | 44.1 | |
| 24 | 37.5 | 37.3 | 36.2 | 40.0 | 43.9 | 48.4 | 53.0 | 56.0 | 52.4 | 42.8 | 44.9 | 33.5 | 44.0 | |
| Means | 0 ^h -23 ^h | 37.5 | 36.7 | 35.5 | 40.2 | 44.5 | 48.5 | 52.8 | 56.4 | 52.2 | 43.4 | 45.1 | 34.3 | 43.9 |
| | 1 ^h -24 ^h | 37.5 | 36.7 | 35.5 | 40.2 | 44.5 | 48.5 | 52.8 | 56.4 | 52.2 | 43.4 | 45.1 | 34.3 | 43.9 |

TABLE XXIV. - MONTHLY MEAN DEGREE OF HUMIDITY (SATURATION = 100) AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE CORRESPONDING AIR AND EVAPORATION TEMPERATURES

| Hour, Universal Time. | January | February | March | April | May | June | July | August | September | October | November | December | Yearly Means | |
|-----------------------|---------------------------------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|--------------|----|
| 0 ^h | 87 | 85 | 83 | 84 | 88 | 83 | 87 | 92 | 89 | 90 | 89 | 91 | 87 | |
| 1 | 87 | 85 | 85 | 85 | 89 | 84 | 88 | 93 | 91 | 90 | 88 | 91 | 88 | |
| 2 | 88 | 86 | 86 | 87 | 91 | 85 | 90 | 94 | 93 | 90 | 89 | 91 | 89 | |
| 3 | 87 | 87 | 87 | 90 | 93 | 88 | 91 | 95 | 93 | 91 | 90 | 91 | 90 | |
| 4 | 87 | 87 | 89 | 91 | 93 | 89 | 91 | 96 | 95 | 91 | 90 | 90 | 91 | |
| 5 | 87 | 86 | 86 | 93 | 91 | 86 | 90 | 95 | 92 | 92 | 91 | 89 | 90 | |
| 6 | 87 | 86 | 86 | 90 | 87 | 81 | 87 | 95 | 91 | 90 | 91 | 88 | 88 | |
| 7 | 87 | 85 | 82 | 84 | 80 | 76 | 81 | 92 | 89 | 88 | 91 | 87 | 85 | |
| 8 | 86 | 84 | 79 | 76 | 73 | 69 | 77 | 88 | 83 | 87 | 89 | 89 | 82 | |
| 9 | 85 | 83 | 74 | 70 | 65 | 64 | 72 | 80 | 77 | 85 | 89 | 86 | 78 | |
| 10 | 83 | 79 | 70 | 65 | 60 | 61 | 67 | 75 | 71 | 82 | 87 | 87 | 74 | |
| 11 | 80 | 74 | 66 | 62 | 57 | 59 | 64 | 68 | 65 | 77 | 84 | 85 | 70 | |
| 12 | 79 | 69 | 62 | 60 | 56 | 57 | 60 | 65 | 62 | 73 | 84 | 85 | 68 | |
| 13 | 79 | 66 | 61 | 60 | 58 | 55 | 59 | 63 | 61 | 71 | 82 | 84 | 67 | |
| 14 | 79 | 65 | 59 | 58 | 60 | 54 | 59 | 63 | 59 | 71 | 82 | 85 | 66 | |
| 15 | 80 | 67 | 60 | 57 | 61 | 54 | 59 | 64 | 61 | 73 | 82 | 85 | 67 | |
| 16 | 81 | 68 | 63 | 57 | 63 | 55 | 59 | 67 | 63 | 78 | 82 | 86 | 69 | |
| 17 | 83 | 72 | 66 | 60 | 63 | 58 | 60 | 69 | 66 | 80 | 85 | 87 | 71 | |
| 18 | 83 | 75 | 72 | 64 | 66 | 59 | 65 | 72 | 70 | 83 | 86 | 88 | 74 | |
| 19 | 86 | 77 | 75 | 69 | 72 | 63 | 70 | 78 | 75 | 85 | 87 | 90 | 78 | |
| 20 | 86 | 80 | 78 | 73 | 76 | 66 | 75 | 83 | 80 | 87 | 87 | 91 | 80 | |
| 21 | 87 | 82 | 80 | 78 | 81 | 73 | 79 | 87 | 84 | 89 | 89 | 91 | 83 | |
| 22 | 88 | 84 | 81 | 80 | 83 | 76 | 83 | 89 | 87 | 88 | 90 | 91 | 85 | |
| 23 | 88 | 84 | 83 | 81 | 86 | 80 | 85 | 91 | 88 | 88 | 89 | 91 | 86 | |
| 24 | 87 | 85 | 83 | 85 | 88 | 83 | 87 | 92 | 89 | 90 | 89 | 90 | 87 | |
| Means | 0 ^h -23 ^h | 85 | 79 | 75 | 74 | 75 | 70 | 75 | 81 | 79 | 84 | 87 | 88 | 79 |
| | 1 ^h -24 ^h | 85 | 79 | 75 | 74 | 75 | 70 | 75 | 81 | 79 | 84 | 87 | 88 | 79 |

TABLE XXV. - 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 1939

| Month, 1939. | Registered duration of Sunshine in the Hour ending:- | | | | | | | | | | | | | | | | Total Registered Duration of Sunshine in each Month | Corre- sponding aggregate Period during which the Sun was above the Horizon | Pro- portion of Sunshine | Mean Altitude of the Sun at Noon |
|--------------|--|----------------|----------------|----------------|----------------|-----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|---|--------------------------|----------------------------------|
| | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | Noon | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | | | | |
| January | - | - | - | - | 0.5 | 3.3 | 5.1 | 5.7 | 5.7 | 4.3 | 2.5 | 0.1 | - | - | - | - | 26.2 | 260.3 | .101 | 18 |
| February | - | - | - | 2.5 | 7.6 | 10.7 | 12.6 | 12.9 | 14.2 | 12.3 | 10.0 | 5.0 | 0.2 | - | - | - | 88.0 | 278.2 | .316 | 28 |
| March | - | - | - | 4.0 | 7.8 | 12.1 | 12.9 | 11.4 | 9.1 | 6.5 | 5.5 | 5.1 | 0.6 | - | - | - | 75.0 | 367.0 | .204 | 36 |
| April | - | 1.6 | 12.3 | 14.8 | 13.5 | 14.2 | 14.7 | 14.1 | 12.5 | 13.2 | 13.2 | 11.7 | 10.0 | 5.7 | 0.5 | - | 162.0 | 414.7 | .367 | 48 |
| May | 0.3 | 4.9 | 11.4 | 14.7 | 16.0 | 19.1 | 17.7 | 15.0 | 13.9 | 14.1 | 13.0 | 13.5 | 12.5 | 10.3 | 6.6 | 1.3 | 184.3 | 483.1 | .381 | 57 |
| June | 1.1 | 11.3 | 15.0 | 15.5 | 15.2 | 13.8 | 13.4 | 14.0 | 14.3 | 14.4 | 14.2 | 13.7 | 13.6 | 12.8 | 10.7 | 3.0 | 196.0 | 496.1 | .393 | 62 |
| July | 1.5 | 8.1 | 9.4 | 13.1 | 13.8 | 12.7 | 10.4 | 10.8 | 12.4 | 10.5 | 12.4 | 13.2 | 10.2 | 10.1 | 8.4 | 2.6 | 159.6 | 500.3 | .319 | 60 |
| August | - | 1.7 | 7.7 | 8.5 | 9.9 | 14.9 | 16.3 | 15.1 | 14.8 | 14.6 | 12.2 | 12.7 | 11.1 | 12.0 | 3.8 | - | 167.3 | 453.0 | .347 | 52 |
| September | - | - | 3.2 | 10.2 | 16.7 | 17.5 | 18.6 | 16.0 | 15.3 | 14.1 | 13.7 | 12.3 | 9.8 | 5.4 | 0.3 | - | 153.1 | 381.0 | .402 | 42 |
| October | - | - | - | 1.3 | 7.0 | 11.6 | 8.8 | 11.0 | 10.2 | 11.0 | 9.9 | 7.1 | 1.5 | - | - | - | 79.4 | 332.6 | .239 | 30 |
| November | - | - | - | - | 2.1 | 4.9 | 4.7 | 3.6 | 4.1 | 4.4 | 3.6 | 1.0 | - | - | - | - | 28.4 | 268.0 | .106 | 20 |
| December | - | - | - | - | 1.0 | 4.6 | 4.6 | 5.2 | 5.2 | 3.7 | 1.9 | 0.1 | - | - | - | - | 26.3 | 245.7 | .107 | 16 |
| For the Year | 2.9 | 27.6 | 59.0 | 84.6 | 111.1 | 138.4 | 141.8 | 134.8 | 131.7 | 123.1 | 112.1 | 95.5 | 69.5 | 56.3 | 30.3 | 6.9 | 1325.6 | 4480.0 | .296 | .. |

The hours are reckoned from "Apparent" midnight.

TABLE XXVI. - READINGS OF THE THERMOMETERS IN THE STEVENSON SCREEN IN THE CHRISTIE ENCLOSURE

(The readings of the maximum and minimum thermometers apply to the 24 hours ending 21^h)

| Day of the Month | Dry-Bulb Thermometers, 4 ft. above the Ground. | | | | | | Wet-Bulb Thermometers, 4 ft. above the Ground. | | | | Day of the Month | Dry-Bulb Thermometers, 4 ft. above the Ground. | | | | | | Wet-Bulb Thermometers, 4 ft. above the Ground. | | | |
|------------------|--|--------------|----------------|-----------------|-----------------|-----------------|--|-----------------|-----------------|-----------------|------------------|--|--------------|----------------|-----------------|-----------------|-----------------|--|-----------------|-----------------|-----------------|
| | Maxi- mum | Mini- mum | 9 ^h | 12 ^h | 15 ^h | 21 ^h | 9 ^h | 12 ^h | 15 ^h | 21 ^h | | Maxi- mum | Mini- mum | 9 ^h | 12 ^h | 15 ^h | 21 ^h | 9 ^h | 12 ^h | 15 ^h | 21 ^h |
| JANUARY | | | | | | | | | | MARCH | | | | | | | | | | | |
| d | ° | ° | ° | ° | ° | ° | ° | ° | ° | d | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| 1 | 49.3 | 37.8 | 49.2 | 47.4 | 46.4 | 41.3 | 48.5 | 43.9 | 43.0 | 40.0 | 1 | 47.9 | 38.0 | 42.6 | 47.2 | 47.1 | 45.8 | 38.5 | 40.5 | 40.6 | 43.8 |
| 2 | 42.2 | 36.9 | 39.6 | 38.0 | 39.1 | 36.9 | 37.2 | 36.6 | 37.6 | 34.8 | 2 | 54.3 | 45.2 | 48.8 | 52.5 | 53.4 | 45.2 | 46.8 | 47.6 | 47.7 | 43.0 |
| 3 | 37.8 | 32.2 | 34.4 | 36.5 | 37.6 | 32.2 | 32.4 | 34.1 | 34.6 | 30.6 | 3 | 60.3 | 41.0 | 50.5 | 58.2 | 58.0 | 51.0 | 46.4 | 51.4 | 50.6 | 47.4 |
| 4 | 45.4 | 30.0 | 41.6 | 45.4 | 42.6 | 35.4 | 41.3 | 44.5 | 41.6 | 34.8 | 4 | 56.3 | 48.2 | 50.9 | 56.0 | 48.5 | 46.8 | 46.9 | 50.9 | 47.6 | 45.5 |
| 5 | 36.6 | 31.2 | 32.3 | 35.4 | 35.5 | 31.2 | 30.7 | 32.0 | 32.5 | 30.5 | 5 | 56.3 | 44.7 | 50.9 | 54.5 | 54.0 | 49.1 | 46.0 | 46.2 | 45.5 | 46.9 |
| 6 | 31.8 | 24.5 | 28.3 | 29.7 | 31.1 | 31.8 | 27.8 | 29.1 | 29.8 | 31.0 | 6 | 54.8 | 44.6 | 48.2 | 54.2 | 53.1 | 48.2 | 45.3 | 47.2 | 46.9 | 45.1 |
| 7 | 52.0 | 31.8 | 39.6 | 43.8 | 50.0 | 51.2 | 38.8 | 43.1 | 49.6 | 48.6 | 7 | 49.7 | 40.6 | 43.6 | 47.0 | 48.9 | 42.6 | 39.1 | 40.8 | 40.5 | 38.1 |
| 8 | 54.2 | 49.3 | 51.6 | 53.7 | 53.1 | 49.6 | 48.6 | 50.0 | 49.8 | 47.7 | 8 | 51.6 | 38.3 | 44.9 | 51.5 | 50.1 | 39.7 | 41.6 | 44.5 | 43.9 | 37.7 |
| 9 | 51.6 | 47.1 | 49.7 | 51.2 | 50.1 | 47.8 | 46.7 | 49.1 | 47.8 | 45.6 | 9 | 50.3 | 38.6 | 43.5 | 47.5 | 49.2 | 43.6 | 40.1 | 41.7 | 42.8 | 41.1 |
| 10 | 47.8 | 40.4 | 43.6 | 45.6 | 44.5 | 40.5 | 42.3 | 39.1 | 40.4 | 40.0 | 10 | 49.0 | 35.3 | 41.3 | 46.7 | 48.3 | 40.7 | 38.3 | 41.7 | 42.3 | 38.6 |
| 11 | 47.8 | 40.5 | 46.4 | 46.7 | 46.2 | 41.2 | 42.6 | 42.3 | 41.9 | 39.8 | 11 | 44.3 | 29.2 | 40.1 | 44.3 | 44.1 | 41.7 | 38.5 | 42.1 | 42.9 | 41.2 |
| 12 | 42.3 | 34.8 | 36.6 | 39.8 | 39.8 | 34.8 | 35.3 | 36.4 | 36.5 | 33.2 | 12 | 44.9 | 38.2 | 40.7 | 43.6 | 43.4 | 38.2 | 39.1 | 40.4 | 40.2 | 35.5 |
| 13 | 45.3 | 31.1 | 37.8 | 42.6 | 43.0 | 31.8 | 35.6 | 39.1 | 38.5 | 31.8 | 13 | 47.7 | 31.1 | 36.8 | 46.4 | 47.2 | 44.4 | 35.8 | 42.0 | 42.0 | 41.6 |
| 14 | 50.0 | 28.7 | 32.0 | 36.6 | 40.6 | 50.0 | 32.0 | 33.9 | 38.9 | 49.8 | 14 | 51.5 | 44.4 | 48.2 | 49.6 | 51.5 | 47.9 | 45.2 | 46.2 | 46.3 | 45.2 |
| 15 | 54.8 | 49.0 | 51.2 | 53.5 | 51.7 | 52.2 | 48.6 | 48.6 | 48.4 | 50.4 | 15 | 47.9 | 41.6 | 42.5 | 45.4 | 43.7 | 41.6 | 38.2 | 38.9 | 38.9 | 37.4 |
| 16 | 52.2 | 45.4 | 47.0 | 48.8 | 50.5 | 45.4 | 45.4 | 44.5 | 46.7 | 44.1 | 16 | 50.6 | 39.0 | 40.5 | 48.4 | 49.5 | 46.7 | 39.6 | 44.3 | 44.4 | 44.2 |
| 17 | 53.3 | 44.2 | 47.0 | 49.0 | 51.6 | 51.8 | 45.0 | 48.3 | 51.2 | 50.0 | 17 | 46.7 | 33.0 | 41.0 | 44.1 | 40.0 | 33.0 | 37.9 | 41.6 | 36.9 | 30.9 |
| 18 | 51.8 | 48.5 | 49.6 | 51.2 | 49.1 | 49.2 | 48.0 | 49.1 | 48.3 | 48.0 | 18 | 39.3 | 31.6 | 35.5 | 38.3 | 38.1 | 36.6 | 32.2 | 32.3 | 33.4 | 34.3 |
| 19 | 49.7 | 45.3 | 48.7 | 48.1 | 48.3 | 45.3 | 47.6 | 46.7 | 46.3 | 44.3 | 19 | 43.1 | 35.0 | 41.5 | 42.4 | 41.7 | 38.6 | 39.1 | 39.0 | 38.0 | 36.8 |
| 20 | 51.4 | 43.8 | 48.6 | 50.6 | 50.6 | 45.9 | 47.7 | 49.5 | 49.2 | 45.5 | 20 | 47.8 | 37.0 | 39.9 | 42.5 | 43.7 | 44.3 | 35.9 | 38.6 | 39.7 | 39.2 |
| 21 | 51.6 | 42.1 | 46.1 | 48.4 | 51.2 | 49.6 | 45.7 | 47.8 | 50.4 | 48.8 | 21 | 48.7 | 39.9 | 44.1 | 46.5 | 46.4 | 42.9 | 39.3 | 40.6 | 41.0 | 39.2 |
| 22 | 50.0 | 44.1 | 44.3 | 45.0 | 44.2 | 47.5 | 42.8 | 43.2 | 42.5 | 44.2 | 22 | 51.3 | 38.4 | 45.0 | 49.0 | 50.2 | 38.4 | 42.0 | 42.1 | 40.9 | 36.6 |
| 23 | 48.0 | 43.5 | 46.8 | 44.6 | 45.6 | 43.5 | 44.8 | 42.9 | 42.8 | 40.2 | 23 | 48.4 | 35.5 | 40.5 | 45.7 | 45.1 | 41.1 | 38.4 | 40.1 | 39.7 | 36.6 |
| 24 | 43.5 | 34.1 | 38.8 | 41.5 | 41.6 | 34.1 | 35.8 | 37.0 | 37.2 | 33.2 | 24 | 49.4 | 30.2 | 39.6 | 45.8 | 48.9 | 34.5 | 35.6 | 39.5 | 40.5 | 34.2 |
| 25 | 35.0 | 32.1 | 33.6 | 32.7 | 32.7 | 33.4 | 32.9 | 32.6 | 32.6 | 33.2 | 25 | 43.3 | 32.4 | 38.8 | 43.2 | 41.3 | 36.6 | 36.6 | 36.4 | 35.8 | 35.6 |
| 26 | 37.2 | 33.4 | 35.6 | 36.6 | 35.8 | 36.1 | 35.1 | 35.6 | 35.0 | 35.2 | 26 | 42.3 | 36.6 | 40.0 | 42.0 | 40.6 | 37.1 | 37.5 | 37.9 | 36.8 | 34.8 |
| 27 | 39.4 | 34.9 | 36.6 | 38.4 | 39.4 | 34.9 | 35.6 | 35.5 | 35.6 | 33.0 | 27 | 40.3 | 34.3 | 37.3 | 40.2 | 39.0 | 37.4 | 35.8 | 38.2 | 37.8 | 36.3 |
| 28 | 40.1 | 33.9 | 36.4 | 38.6 | 39.3 | 36.3 | 35.1 | 35.8 | 36.1 | 36.9 | 28 | 41.7 | 36.1 | 39.6 | 40.4 | 41.3 | 39.0 | 37.8 | 38.7 | 39.5 | 37.2 |
| 29 | 39.7 | 37.2 | 39.3 | 39.1 | 38.2 | 37.9 | 35.8 | 34.5 | 34.6 | 35.0 | 29 | 50.3 | 33.6 | 41.4 | 45.3 | 50.3 | 38.4 | 38.9 | 41.5 | 44.5 | 37.2 |
| 30 | 39.0 | 36.5 | 37.4 | 38.2 | 38.7 | 37.9 | 34.7 | 35.3 | 35.5 | 35.1 | 30 | 50.7 | 38.8 | 46.4 | 49.9 | 49.2 | 41.3 | 42.4 | 43.4 | 42.1 | 39.8 |
| 31 | 38.1 | 35.4 | 35.7 | 37.3 | 37.6 | 37.4 | 33.4 | 34.4 | 34.8 | 35.5 | 31 | 56.2 | 38.6 | 45.6 | 54.3 | 55.3 | 46.4 | 43.0 | 48.3 | 47.4 | 44.3 |
| Means | 45.4 | 38.1 | 41.5 | 43.0 | 43.4 | 41.2 | 39.8 | 40.5 | 41.0 | 39.7 | Means | 48.9 | 37.6 | 42.9 | 47.2 | 47.1 | 41.9 | 39.9 | 42.1 | 41.8 | 39.6 |
| FEBRUARY | | | | | | | | | | APRIL | | | | | | | | | | | |
| d | ° | ° | ° | ° | ° | ° | ° | ° | ° | d | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| 1 | 39.4 | 35.0 | 35.8 | 37.4 | 38.0 | 36.1 | 33.8 | 34.9 | 35.5 | 34.7 | 1 | 56.2 | 38.4 | 45.6 | 52.9 | 55.9 | 47.6 | 44.3 | 48.3 | 51.7 | 46.0 |
| 2 | 38.5 | 33.3 | 34.1 | 36.3 | 37.2 | 34.6 | 32.3 | 34.1 | 35.2 | 33.4 | 2 | 53.7 | 44.5 | 49.5 | 48.7 | 53.4 | 44.5 | 48.7 | 47.9 | 48.6 | 42.5 |
| 3 | 35.1 | 29.0 | 30.3 | 32.5 | 34.2 | 32.1 | 30.3 | 32.3 | 33.8 | 31.8 | 3 | 48.6 | 34.6 | 46.5 | 48.4 | 46.0 | 47.3 | 44.1 | 45.2 | 44.9 | 46.8 |
| 4 | 45.8 | 31.1 | 40.9 | 41.5 | 45.8 | 41.1 | 39.6 | 39.5 | 42.2 | 40.5 | 4 | 54.2 | 46.0 | 51.6 | 47.6 | 51.6 | 47.0 | 48.8 | 46.7 | 48.8 | 45.0 |
| 5 | 49.7 | 33.8 | 39.8 | 47.2 | 49.6 | 38.7 | 39.5 | 44.8 | 47.0 | 38.0 | 5 | 57.7 | 43.5 | 50.6 | 56.3 | 54.1 | 50.7 | 48.6 | 51.7 | 50.1 | 48.7 |
| 6 | 52.7 | 34.7 | 39.6 | 47.7 | 52.0 | 37.8 | 38.8 | 44.5 | 46.2 | 37.1 | 6 | 50.9 | 39.8 | 40.6 | 42.6 | 44.2 | 43.2 | 39.4 | 40.9 | 41.8 | 40.2 |
| 7 | 54.5 | 34.4 | 42.1 | 51.1 | 52.6 | 46.9 | 38.8 | 44.6 | 44.4 | 44.9 | 7 | 48.4 | 37.0 | 44.0 | 47.0 | 48.4 | 41.3 | 40.0 | 41.5 | 43.3 | 39.3 |
| 8 | 49.9 | 46.0 | 47.6 | 48.8 | 49.1 | 49.6 | 47.1 | 47.8 | 47.6 | 45.3 | 8 | 56.6 | 29.8 | 44.6 | 52.8 | 58.0 | 46.1 | 41.8 | 45.9 | 48.1 | 43.6 |
| 9 | 53.0 | 47.9 | 49.0 | 51.4 | 52.0 | 49.6 | 45.8 | 46.4 | 46.4 | 48.2 | 9 | 64.8 | 36.0 | 52.7 | 62.4 | 64.3 | 49.4 | 47.6 | 53.1 | 53.3 | 45.1 |
| 10 | 55.8 | 49.6 | 52.8 | 54.9 | 55.8 | 53.6 | 49.8 | 51.4 | 51.8 | 51.7 | 10 | 63.8 | 39.8 | 53.2 | 62.7 | 60.8 | 50.3 | 48.4 | 54.2 | 52.0 | 47.1 |
| 11 | 57.8 | 48.0 | 48.7 | 52.2 | 57.5 | 50.0 | 47.2 | 49.5 | 51.5 | 48.0 | 11 | 69.5 | 43.1 | 55.6 | 66.3 | 69.0 | 53.3 | 50.1 | 56.5 | 59.4 | 52.0 |
| 12 | 54.3 | 43.2 | 49.7 | 52.9 | 50.0 | 43.2 | 46.0 | 47.5 | 44.6 | 39.6 | 12 | 75.0 | 48.1 | 66.5 | 72.6 | 73.7 | 57.3 | 58.0 | 58.1 | 58.9 | 51.3 |
| 13 | 45.3 | 38.1 | 41.2 | 44.3 | 43.6 | 43.6 | 37.9 | 39.6 | 40.6 | 39.8 | 13 | 65.1 | 47.8 | 54.3 | 62.6 | 63.3 | 51.7 | 51.3 | 56.0 | 55.2 | 49.4 |
| 14 | 46.8 | 35.8 | 37.8 | 43.1 | 46.7 | 43.9 | 36.5 | 40.3 | 40.4 | 40.5 | 14 | 59.2 | 47.3 | 53.0 | 53.7 | 58.5 | 50.5 | 49.8 | 51.6 | 52.5 | 49.0 |
| 15 | 55.8 | 39.0 | 43.8 | 48.5 | 55.4 | 44.5 | 42.5 | 45.5 | 49.5 | 43.5 | 15 | 59.3 | 44.0 | 53.5 | 57.6 | 57.4 | 53.6 | 48.0 | 48.9 | 49.4 | 50.6 |
| 16 | 50.1 | 42.3 | 46.2 | 48.0 | 50.1 | 42.3 | 42.6 | 40.6 | 41.3 | 38.7 | 16 | 61.1 | 51.0 | 56.4 | 56.7 | 60.2 | 51.0 | 52.6 | 54.2 | 54.2 | 46.7 |
| 17 | 45.6 | 32.6 | 36.6 | 42.8 | 45.1 | 44.2 | 35.3 | 39.5 | 40.9 | 43.0 | 17 | 58.4 | 44.7 | 49.9 | 53.3 | 58.4 | 47.7 | 45.4 | 45.5 | 48.9 | 42.6 |
| 18 | 46.8 | 37.9 | 40.2 | 44.2 | 46.6 | 45.3 | 37.6 | 36.6 | 41.4 | 42.4 | 18 | 53.9 | 40.2 | 46.6 | 50.4 | 52.8 | 45.4 | 40.7 | 43.5 | 44.4 | 42.6 |
| 19 | 51.7 | 41.8 | 46.5 | 49.4 | 51.5 | 44.6 | 45.5 | 44.8 | 46.5 | 39.9 | 19 | 62.7 | 34.1 | 51.8 | 59.6 | 61.6 | 46.7 | 46.1 | 49.8 | 51.3 | 44.5 |
| 20 | 48.0 | 31.8 | 35.6 | 46.3 | 46.2 | 35.0 | 34.2 | 42.1 | 43.4 | 34.1 | 20 | 70.8 | 38.7 | 57.2 | 67.0 | 70.8 | 55.6 | 49.7 | 54.8 | 56.4 | 50.2 |
| 21 | 52.0 | 30.3 | 39.2 | 49.2 | 50.6 | 39.6 | 38.0 | 44.1 | 44.1 | 38.1 | 21 | 69.8 | 38.7 | 58.6 | 65.8 | 69.8 | 55.1 | 50.1 | 51.0 | 52.1 | 46.0 |
| 22 | 41.8 | 39.2 | 40.3 | 40.6 | 41.2 | 40.8 | 38.0 | 39.1 | 40.2 | 40.0 | 22 | 56.0 | 45.0 | 49.0 | 53.0 | 53.4 | 46.5 | 42.4 | 42.9 | 45.4 | 42.0 |
| 23 | 50.4 | 39.1 | 42.6 | 46.9 | 48.6 | 39.2 | 37.8 | 39.5 | 40.6 | 36.4 | 23 | 51.9 | 42.0 | 47.8 | 45.9 | 51.6 | 49.1 | 44.6 | 44.6 | 47.6 | 47.0 |
| 24 | 46.3 | 29.0 | 38.3 | 45.6 | 46.1 | 43.5 | 35.5 | 39.9 | 40.6 | 40.2 | 24 | 55.8 | 44.3 | 46.2 | 50.8 | 53.6 | 44.3 | 45.1 | 46.7 | 45.5 | 40.8 |
| 25 | 46.8 | 37.6 | 41.1 | 45.4 | 46.6 | 43.5 | 37.9 | 43.5 | 45.6 | 42.5 | 25 | | | | | | | | | | |

TABLE XXVI. - READINGS OF THE THERMOMETERS IN THE STEVENSON SCREEN IN THE CHRISTIE ENCLOSURE (The readings of the maximum and minimum thermometers apply to the 24 hours ending 21h)

Table with 18 columns for temperature readings (Max-min, 9h, 12h, 15h, 21h) and 2 columns for Day of the Month. It is organized into four sections: MAY, JUNE, JULY, and AUGUST, each with a 'Means' row at the bottom.

TABLE XXVI. - READINGS OF THE THERMOMETERS IN THE STEVENSON SCREEN IN THE CHRISTIE ENCLOSURE (The readings of the maximum and minimum thermometers apply to the 24 hours ending 21^h)

Table with columns for Day of the Month, Dry-Bulb Thermometers (4 ft. above the Ground), Wet-Bulb Thermometers (4 ft. above the Ground), and sub-columns for Max-min, Min-min, and hourly (9h, 12h, 15h, 21h) readings for months SEPTEMBER, OCTOBER, NOVEMBER, and DECEMBER. Includes 'Means' rows at the bottom of each month section.

TABLE XXVII. - READINGS OF THERMOMETERS AT 9^h ON THE REVOLVING OPEN STAND
(FORMERLY CALLED 'ORDINARY') IN THE NEW SITE IN THE CHRISTIE ENCLOSURE

| 1939 | January | February | March | April | May | June | July | August | September | October | November | December |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Day | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. | Max. Min. |
| 1 | 49.4 34.2 | 39.6 34.6 | 50.7 37.6 | 57.2 37.5 | 44.6 42.5 | 73.5 46.5 | 69.2 47.8 | 70.0 53.5 | .. 55.3 | 64.3 46.3 | 48.6 44.0 | 58.8 51.8 |
| 2 | 48.6 38.3 | 40.5 33.0 | 48.9 42.7 | 57.9 45.7 | 47.0 41.6 | .. 49.3 | 69.6 44.3 | 74.2 52.1 | 75.8 62.0 | 60.3 47.0 | 49.4 42.7 | 58.0 47.4 |
| 3 | 39.9 31.2 | 38.8 27.6 | 55.1 40.1 | 54.5 36.1 | 53.6 39.0 | 77.0 47.1 | 68.3 52.8 | 71.2 54.9 | 77.3 61.5 | 61.9 46.2 | 51.7 43.7 | 50.0 36.1 |
| 4 | 42.7 29.9 | 41.3 29.3 | 59.7 46.4 | 52.3 45.4 | 55.6 37.8 | 74.6 43.7 | 72.9 55.1 | 59.5 53.1 | 73.7 55.2 | 60.5 46.1 | 57.4 46.6 | 48.8 36.1 |
| 5 | 45.9 31.1 | 46.2 34.2 | 56.3 44.2 | 55.4 43.7 | 60.2 38.4 | 77.5 46.4 | 81.4 61.4 | 66.7 55.0 | 77.3 52.6 | 59.3 48.8 | 56.4 45.2 | 44.4 36.0 |
| 6 | 36.5 23.4 | 50.3 34.8 | 56.9 44.1 | 58.2 40.0 | 58.9 40.1 | 79.1 55.4 | 73.6 52.8 | 66.4 51.9 | 78.2 47.4 | 65.9 48.6 | 54.7 45.7 | 43.0 35.6 |
| 7 | 40.0 27.5 | 51.4 34.5 | 56.0 39.9 | 45.8 36.4 | 63.9 38.2 | 85.5 57.5 | 67.4 57.0 | 72.9 52.2 | 76.7 49.7 | 63.7 42.8 | 55.4 48.0 | 45.4 29.1 |
| 8 | 52.4 39.5 | 53.6 42.4 | 51.1 39.8 | 50.9 30.1 | 66.5 40.3 | 86.5 53.2 | 74.8 57.8 | 66.7 52.6 | 79.9 57.3 | 62.7 49.0 | 58.8 50.7 | 49.7 32.0 |
| 9 | 54.5 47.1 | 51.5 47.5 | 52.6 37.8 | 57.4 35.9 | 71.3 42.8 | 78.8 46.7 | 68.5 56.9 | 73.2 51.6 | 81.9 55.1 | 59.6 48.2 | 58.2 50.5 | 53.3 39.5 |
| 10 | 51.9 43.0 | 53.7 47.9 | 51.7 33.7 | 64.6 38.2 | 71.6 45.4 | 67.8 45.7 | 73.2 51.7 | 70.2 60.0 | 81.7 56.7 | 56.3 40.0 | 56.2 43.4 | 61.7 42.1 |
| 11 | 47.3 40.1 | 56.3 48.0 | 51.0 30.0 | 65.7 42.4 | 70.7 50.1 | 80.3 51.0 | 72.7 48.5 | 69.2 53.3 | 74.7 57.6 | 61.4 46.6 | 55.9 41.0 | 50.3 38.0 |
| 12 | 48.0 35.1 | 56.9 47.3 | 44.8 39.3 | 71.2 47.9 | 65.0 43.6 | 65.9 45.6 | 71.7 53.0 | 72.3 49.7 | 68.7 52.5 | 62.8 46.8 | 52.1 45.1 | 48.1 37.0 |
| 13 | 41.8 31.5 | 55.0 37.6 | 47.2 30.6 | 75.0 48.0 | 59.3 45.3 | 64.4 41.6 | 71.7 50.1 | 72.3 49.1 | 62.3 54.0 | 59.4 42.3 | 51.4 44.4 | 39.3 36.3 |
| 14 | 44.0 27.7 | 44.7 34.0 | 49.1 36.6 | 65.3 47.4 | 67.1 40.6 | 62.7 48.0 | 73.6 49.7 | 71.8 47.3 | 64.3 50.4 | 60.5 47.1 | 53.7 45.7 | 39.2 34.9 |
| 15 | 55.6 31.6 | 46.9 37.8 | 52.0 42.0 | 60.5 43.7 | 66.1 44.8 | 66.7 54.7 | 71.6 53.6 | 73.4 47.4 | 65.2 52.0 | 53.4 47.1 | 56.8 45.6 | 38.6 34.4 |
| 16 | 54.3 46.8 | 54.9 42.0 | 47.6 39.2 | 60.9 52.6 | 50.9 44.9 | 65.4 57.1 | 73.9 56.2 | 75.4 51.0 | 59.4 51.0 | 50.3 40.1 | 64.0 43.0 | 37.0 34.2 |
| 17 | 51.9 44.0 | 49.8 32.3 | 51.6 39.0 | 62.7 44.7 | 60.3 45.3 | 64.4 46.2 | 75.4 56.0 | 76.9 53.2 | 70.2 56.4 | 56.9 42.3 | 56.6 42.8 | 37.7 32.2 |
| 18 | 54.0 46.1 | 48.4 36.4 | 46.5 31.1 | 59.4 39.6 | 58.1 41.0 | 69.3 52.0 | 74.4 54.2 | 76.5 57.2 | 71.6 54.0 | 59.3 46.6 | 54.9 46.2 | 37.3 33.3 |
| 19 | 51.4 47.1 | 48.2 39.1 | 42.3 35.8 | 57.3 34.4 | 56.0 43.3 | 67.8 49.6 | 72.4 53.7 | 77.4 57.3 | 70.4 56.4 | 57.8 45.0 | 55.0 46.3 | 37.4 34.7 |
| 20 | 49.6 43.8 | 52.8 31.0 | 45.3 37.1 | 63.4 39.1 | 58.4 39.2 | 69.8 48.1 | 71.2 53.7 | 81.0 61.9 | 70.6 53.3 | 48.8 40.2 | 51.4 36.4 | 36.2 33.4 |
| 21 | 51.7 41.2 | 48.4 31.5 | 48.0 40.0 | 71.9 39.8 | 63.8 41.8 | 67.5 48.9 | 70.5 57.2 | 81.7 59.8 | 65.9 51.6 | 53.6 33.7 | 47.5 38.0 | 41.7 33.1 |
| 22 | 51.9 44.0 | 50.6 39.0 | 50.3 39.2 | 71.0 44.8 | 65.4 42.5 | 71.8 54.9 | 70.8 55.8 | 62.4 59.8 | 68.3 54.6 | 54.0 34.4 | 45.2 32.7 | 37.6 21.3 |
| 23 | 48.8 42.8 | 43.8 39.1 | 52.5 35.0 | 58.8 41.8 | 70.1 46.8 | 64.4 53.0 | 68.9 55.2 | 76.3 51.1 | 64.5 52.8 | 53.5 32.0 | 50.4 38.7 | 34.1 22.2 |
| 24 | 47.2 36.9 | 49.6 28.0 | 49.8 29.8 | 53.4 45.3 | 76.7 44.8 | 62.7 52.4 | 68.6 48.3 | 75.4 58.6 | 63.7 48.7 | 55.8 44.3 | 48.9 40.6 | 32.8 26.5 |
| 25 | 42.5 32.3 | 47.0 37.5 | 50.0 32.1 | 58.2 34.2 | 77.6 51.1 | 61.4 47.7 | 63.6 48.0 | 70.4 60.0 | 61.9 46.3 | 54.9 39.7 | 44.3 32.0 | 34.8 29.3 |
| 26 | 37.1 32.0 | 46.8 35.8 | 45.9 34.7 | .. 32.2 | 70.7 46.6 | 63.3 47.6 | 74.6 53.3 | 69.8 54.8 | 60.8 43.0 | 48.8 31.1 | 57.6 36.3 | 39.7 33.7 |
| 27 | 36.9 33.9 | 50.0 34.0 | 42.8 34.6 | 53.4 33.8 | 70.2 49.7 | 67.2 45.9 | 68.5 49.4 | 77.0 58.2 | 63.2 44.8 | 44.9 36.3 | 57.5 45.7 | .. .. |
| 28 | 39.7 33.2 | 50.2 40.0 | 41.4 36.0 | 52.0 32.7 | 74.4 46.4 | 73.3 56.8 | 76.9 59.6 | 78.2 54.1 | 58.2 39.6 | 46.8 34.0 | 56.3 38.1 | 35.6 22.9 |
| 29 | 40.4 35.1 | .. .. | 43.4 33.0 | 52.9 34.8 | 69.3 44.0 | 65.6 58.0 | 73.0 59.3 | 78.4 58.0 | 60.3 47.9 | 45.9 40.6 | 56.0 40.7 | 31.0 24.4 |
| 30 | 39.7 36.0 | .. .. | 50.4 35.2 | 52.5 40.0 | 68.5 47.5 | 75.6 50.8 | 72.4 59.7 | 78.9 59.6 | 63.4 41.2 | 45.6 31.4 | 58.1 54.8 | 33.4 19.0 |
| 31 | 39.2 35.0 | .. .. | 52.2 37.9 | .. .. | 69.6 47.7 | .. .. | 77.0 54.6 | 72.4 55.3 | .. .. | 50.0 40.9 | .. .. | 34.8 25.8 |
| Means | 46.3 36.8 | 48.8 37.0 | 49.8 37.2 | 59.3 40.3 | 63.9 43.6 | 70.8 50.0 | 72.0 53.8 | 73.5 54.6 | 69.3 52.0 | 56.1 42.1 | 53.6 43.2 | 42.0 33.1 |

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1939

| Gauges partly sunk in the Ground in the Christie 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 | 4.233 | 1.072 | 1.205 | 2.488 | 1.642 | 1.362 | 2.359 | 3.097 | 1.196 | 6.155 | 4.132 | 1.180 | 30.141 | 0 5 | 149 6 | |
| 8 | 4.276 | 1.057 | 1.171 | 2.447 | 1.604 | 1.380 | 2.323 | 3.105 | 1.182 | 6.130 | 4.124 | 1.167 | 29.966 | 1 0 | 150 1 | |
| Number of Rainy Days (0.005 in. or over) | 21 | 8 | 16 | 17 | 8 | 11 | 17 | 12 | 12 | 19 | 23 | 17 | 161 | .. .. | .. .. |  |

TABLE XXIX. - 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 | January | February | March | April | May | June | July | August | September | October | November | December | Mean for the Year |
|--------------------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|-------------------|
| | miles | miles | miles | miles | miles | miles | miles | miles | miles | miles | miles | miles | miles |
| 1 ^h | 14.6 | 13.2 | 12.6 | 10.8 | 9.3 | 10.4 | 10.4 | 8.8 | 10.3 | 11.5 | 13.9 | 12.0 | 11.5 |
| 2 | 14.7 | 13.2 | 12.6 | 10.7 | 9.6 | 10.3 | 10.2 | 9.2 | 9.7 | 11.6 | 14.3 | 11.7 | 11.5 |
| 3 | 15.0 | 13.1 | 12.4 | 10.6 | 9.3 | 10.1 | 9.6 | 8.7 | 9.6 | 11.5 | 13.8 | 11.7 | 11.3 |
| 4 | 15.2 | 12.9 | 12.6 | 10.5 | 9.3 | 9.9 | 9.9 | 8.5 | 9.5 | 11.3 | 13.7 | 11.9 | 11.3 |
| 5 | 14.8 | 13.1 | 12.8 | 10.9 | 9.8 | 10.5 | 9.6 | 8.6 | 9.6 | 11.6 | 13.3 | 11.7 | 11.4 |
| 6 | 14.9 | 13.1 | 12.6 | 11.1 | 9.0 | 10.5 | 9.8 | 8.2 | 9.7 | 11.4 | 12.6 | 11.4 | 11.2 |
| 7 | 15.5 | 13.1 | 13.3 | 11.4 | 9.7 | 11.3 | 10.8 | 8.6 | 9.5 | 11.6 | 12.3 | 11.9 | 11.6 |
| 8 | 15.0 | 13.3 | 13.7 | 11.2 | 9.8 | 11.1 | 11.1 | 8.8 | 9.7 | 11.9 | 13.2 | 10.7 | 11.6 |
| 9 | 15.3 | 13.9 | 14.0 | 12.1 | 9.9 | 11.2 | 12.0 | 9.4 | 10.7 | 12.0 | 13.7 | 11.1 | 12.1 |
| 10 | 14.9 | 13.7 | 14.6 | 12.3 | 10.3 | 11.7 | 12.1 | 9.2 | 11.0 | 11.7 | 13.6 | 11.0 | 12.2 |
| 11 | 15.6 | 14.6 | 15.8 | 12.9 | 10.4 | 12.3 | 13.0 | 9.9 | 11.9 | 12.6 | 14.4 | 11.0 | 12.9 |
| 12 | 16.4 | 15.4 | 16.7 | 13.3 | 10.7 | 12.8 | 13.8 | 10.5 | 12.3 | 13.1 | 13.9 | 11.8 | 13.4 |
| 13 | 15.2 | 14.7 | 16.0 | 13.8 | 10.4 | 13.0 | 13.9 | 10.6 | 12.8 | 13.5 | 14.0 | 11.5 | 13.3 |
| 14 | 15.0 | 14.9 | 16.1 | 14.0 | 11.3 | 13.4 | 13.6 | 10.8 | 12.5 | 13.3 | 14.0 | 11.5 | 13.4 |
| 15 | 15.3 | 14.2 | 16.5 | 14.2 | 11.7 | 13.8 | 13.8 | 10.6 | 13.1 | 13.1 | 14.4 | 11.7 | 13.5 |
| 16 | 14.8 | 13.5 | 15.5 | 14.1 | 11.1 | 13.5 | 13.6 | 10.1 | 12.3 | 12.6 | 13.5 | 11.4 | 13.0 |
| 17 | 14.5 | 13.2 | 15.0 | 13.7 | 11.0 | 13.7 | 13.6 | 10.1 | 12.3 | 12.1 | 13.5 | 11.5 | 12.9 |
| 18 | 14.8 | 12.7 | 14.5 | 13.6 | 11.2 | 13.5 | 13.7 | 10.1 | 12.2 | 11.6 | 13.8 | 12.0 | 12.8 |
| 19 | 14.3 | 12.9 | 13.6 | 13.4 | 10.8 | 12.8 | 13.1 | 10.1 | 11.3 | 11.6 | 14.0 | 11.9 | 12.5 |
| 20 | 14.0 | 13.5 | 13.3 | 12.1 | 10.4 | 12.1 | 12.5 | 9.5 | 11.1 | 12.1 | 14.3 | 11.6 | 12.2 |
| 21 | 14.4 | 13.5 | 13.0 | 11.9 | 10.2 | 11.7 | 11.6 | 9.4 | 10.8 | 11.5 | 14.2 | 11.7 | 12.0 |
| 22 | 14.5 | 13.2 | 12.7 | 11.1 | 10.0 | 11.6 | 11.1 | 9.0 | 10.8 | 11.3 | 13.8 | 11.8 | 11.7 |
| 23 | 14.5 | 13.4 | 12.6 | 11.1 | 9.9 | 11.1 | 11.0 | 8.9 | 10.4 | 11.3 | 14.1 | 11.6 | 11.7 |
| 24 | 14.3 | 13.7 | 12.0 | 10.8 | 9.7 | 10.7 | 10.5 | 8.5 | 10.2 | 11.5 | 14.1 | 11.1 | 11.4 |
| Means | 14.9 | 13.6 | 13.9 | 12.1 | 10.2 | 11.8 | 11.8 | 9.4 | 11.0 | 12.0 | 13.8 | 11.5 | 12.2 |
| Greatest Hourly Measures | 31 | 33 | 32 | 27 | 22 | 20 | 22 | 19 | 20 | 23 | 34 | 27 | .. |

* The measures are derived from the motion of the cups by the formula $V = 2v + 4$; where v is the hourly motion of the cups in miles. See Introduction.

January. - Generally a quiet month, a prominent feature was the number of small bays appearing near midnight on an otherwise quiet trace. Positive bays in H, for example, accompanied by bays in D, occurred at 22h on the 5th, 20h on the 8th, 22h on the 9th, and 21h on the 11th, while a negative bay in H at 19h on the 22nd, followed by a positive bay at 23h, was prominent.

The range in declination, during the month was from $10^{\circ} 43'.6$ on 22nd to $11^{\circ} 2'.9$ on 21st; in horizontal intensity, from $\cdot 18476$ on 21st to $\cdot 18586$ on 5th, in vertical intensity, from $\cdot 43039$ on 17th to $\cdot 43090$ on 21st.

February. - The month started with small disturbance of the recurrent type near the midnight hours of the 1st-2nd and 2nd-3rd. A sudden-commencement at 19h 50m on the 5th began a minor storm which lasted until the early hours of the 7th. Slight activity remained until the 11th, but from then to the 24th conditions were either quiet or only very slightly disturbed. The first large storm of the year began with a sudden-commencement at 17h 7m on the 24th (Plate I). There was considerable agitation of the trace and ranges reached 290 γ in H, 65' in D and 330 γ in Z. By 23h on the 25th the trace was quiet, and remained so until the end of the month. A positive bay in H of 100 γ at 22h on the 25th at the end of the storm was of note, and another smaller one at 23h on the 26th both accompanied by bays in D.

The range in declination during the month was from $10^{\circ} 17'.7$ to $11^{\circ} 22'.6$, both limits occurring on 24th, in horizontal intensity, from $\cdot 18284$ on 25th to $\cdot 18577$ on 5th and 25th, in vertical intensity, from $\cdot 42989$ on 25th to $\cdot 43319$ on 24th.

March. - With the exception of quiet periods from the 13th to 14th, and from the 18th to 20th, continuous but mainly slight activity was in evidence up to the 27th. Enhanced activity which started about 17h on the 27th increased on the 28th and 29th and the traces remained disturbed until the end of the month. Though the oscillations on the 28th were neither rapid nor of large amplitude, a steady drift in each element produced ranges of 177 γ in H, 156 γ in Z, and 41' in D. (Plate II).

Some examples of isolated bay-like movements in H were notable during the month, usually accompanied by an out-of-phase movement in D, at 23½h on the 3rd a positive bay in H of some 100 γ , a negative bay in H between 16h and 18h on the 15th, positive bays in H between 21h and 23h on the 23rd and 24th, and one between 0 and 1h on the 26th. The period between 16h on the 30th to 2h on the 31st contained three movements showing a phase-difference between H and D, one of which, lasting from 20h to 22h, reached a range of 132 γ in H and 29' in D. They appeared to follow similar movements the day previous.

The range in declination during the month was from $10^{\circ} 30'.2$ to $11^{\circ} 10'.7$, both on 28th, in horizontal intensity, from $\cdot 18377$ on 28th to $\cdot 18612$ on 3rd, in vertical intensity from $\cdot 43026$ on 2nd to $\cdot 43196$ on 28th.

April. - The month was notable for the large number of sudden-commencement storms. The first of these, on the 17th, began with a large sudden-commencement of 110 γ in H at 1h 57m, and was unusual in that a preliminary, small sudden-commencement movement was recorded at 21h 28m on the 16th. The storm which followed (Plate III) showed rapid oscillations in the three elements, with ranges of 350 γ in H, 309 γ in Z and 53' in D, though the trace became quiet about 22h on the 17th, fresh activity soon started on the morning of the 18th, while at 6h 5m on the 19th, a reversed sudden-commencement began a new type of disturbance lasting for several days. Mainly slight, it was marked between 17h and 18h on the 19th by a large, sharp pinnacle of almost 200 γ in H accompanied by a corresponding movement in East D of different phase. Further disturbance, lasting 15 hours with ranges of 293 γ in H, 205 γ in Z, and 37' in D, began with a reversed sudden commencement at 5h 43m on the 23rd (Plate IV).

A short-lived but large-amplitude storm (Plate V) was preceded by a huge sudden-commencement of 170 γ in H at 17h 35m on the 24th. Ranges of 557 γ in H, 169 γ in Z and 46' in D were unusual for activity the greater part of which had ceased by 4h on the 25th. The last sudden-commencement of the month, at 21h on the 27th, was followed by only a few hours slight disturbance.

The first part of the month had periods of recurrent-storm-type activity from the 1st to 4th, and from the 8th to 11th; in the latter sequence positive bays in H lasting for about 1 hour, from 0 to 1h on the 10th, 23 $\frac{1}{2}$ h on the 10th to 0 $\frac{1}{2}$ h on the 11th, and 17 $\frac{1}{2}$ h to 19h on the 11th, were prominent.

The month was altogether highly disturbed, though the period 12th to 16th was quiet.

The range in declination during the month was from $10^{\circ} 21' \cdot 4$ on 24th to $11^{\circ} 19' \cdot 8$ on 17th; in horizontal intensity, from $\cdot 18304$ on 25th to $\cdot 18861$ on 24th; in vertical intensity, from $\cdot 42977$ on 24th and 25th to $\cdot 43287$ on 17th.

May. - A sudden-commencement of 85 γ in H at 11h 36m on the 1st began storminess lasting some two days. Oscillations were not rapid, and the depression of H was quite small, the range of 170 γ in H being only slightly greater than that of Z (154 γ). Fresh oscillations of similar type, with a large sudden-commencement of 160 γ in H at 20h 40m on the 5th (Plate VI) lasted until the 9th, and produced ranges of 284 γ in H, 141 γ in Z and 26' in D. From the 10th to the 20th conditions were either quiet or only very slightly disturbed. Bay-like oscillations were resumed on the afternoon of the 21st and remained a feature of the traces until a small sudden-commencement at 20h 50m on the 27th began new disturbance which continued with small displacements until nearly the end of the month. A negative bay of 60 γ in H at 23h on the 22nd was prominent on an otherwise fairly quiet trace.

This was on the whole a quiet month.

The range in declination during the month was from $10^{\circ} 36' \cdot 0$ on 29th to $11^{\circ} 13' \cdot 3$ on 1st; in horizontal intensity, from $\cdot 18425$ on 7th to $\cdot 18709$ on 5th; in vertical intensity, from $\cdot 43002$ on 7th to $\cdot 43176$ on 1st.

June. - Except for minor disturbance on the first four days, conditions were quiet until 11h of the 13th when activity increased to reach a maximum depression of H at 10h on the 14th. The range of the disturbance was 270 γ . Similar activity on the 15th, starting with a possible sudden-commencement at 14h, gave a range of 155 γ in H by 9h on the 16th. After a period of instability from the 18th to the 24th and a fairly quiet period from the 24th to 28th, disturbance was resumed from noon on the 28th until the end of the month. A notable feature of the quiet period mentioned was a sudden-commencement movement at 20h 20m on the 26th, followed by a sudden drop in H at 21h 08m, the whole giving the effect of a sharply-defined positive bay in H.

The range in declination during the month was from $10^{\circ} 32' \cdot 2$ to $11^{\circ} 4' \cdot 1$ both on 14th, in horizontal intensity from $\cdot 18358$ on 14th to $\cdot 18658$ on 26th, in vertical intensity, from $\cdot 43015$ to $\cdot 43136$ both on 14th.

July. - A small storm with a range of just over 200 γ in H was preceded by a sudden-commencement at 0h 36m on the 3rd. By 1h on the 4th the storm had subsided, but a much larger sudden-commencement storm began at 14h 06m on the 4th, and continued until midnight on the 5th, with enhanced activity in the late afternoon hours. A feature of this storm, (Plate VII) which had ranges of 275 γ in H, 210 γ in Z, and 28' in D was the repetition in its later stages of bay-like oscillations of approximately constant periodicity. The ensuing period from the 6th to the 13th was exceptionally quiet, broken only by two small periods of minor disturbance in the afternoon hours of the 11th and 12th.

A small sudden-commencement at 3h 47m on the 14th started a period of small-scale activity which remained until the 17th, another sudden-commencement at 22h 02m on the 19th set off fresh activity, a feature of which was the very large sudden-commencement movement of 155 γ in H at 13h 30m on the 21st, in the middle of afternoon disturbance and near the end of the storm. The remainder of the month was quiet, with the exception of a short period from 4h to 22h on the 26th.

The range in declination during the month was from $10^{\circ} 40'.2$ on 16th to $11^{\circ} 14'.1$ on 3rd; in horizontal intensity, from $\cdot 18379$ on 5th to $\cdot 18662$ on 3rd; in vertical intensity from $\cdot 42997$ to $\cdot 43207$ both on 5th.

August. - The month began with a very quiet period lasting until near the end of the 11th, and particularly quiet on the first 8 days. A storm with ranges of 305 γ in H, 165 in Z and 28' in D started with a sudden-commencement at 1h 39m on the 12th, though the trace recorded small disturbance for some hours previous. It lasted with decreasing intensity until near the end of the 13th. Pronounced storminess on the afternoon and evening of the 16th (Plate VIII) was marked by a sharp peak in H between 15 and 16h, followed by a sudden fall, the whole movement attaining a range of 345 γ . Ranges of Z and D during the storm were 185 γ and 34' respectively. A quiet spell to the 21st was broken at 0h 40m on the 22nd by a sudden-commencement which initiated one of the largest storms of the year (Plate IX), lasting until the end of the 23rd, it was notable for the range of 360 γ in Z, which fell by some 150 γ to a minimum at 3h on the 22nd, soon after the beginning of the storm, and rose to a high maximum at 17h. A striking feature was the long series of bay-like oscillations from 17h on the 22nd to 2h on the 23rd showing a phase-difference of several minutes between H and D. The overall ranges in H and D for the whole storm were 300 γ in H and 47' in D.

The remainder of the month was quiet, the only other feature of comment being a bay in West D appearing on a quiet trace at 0h 30m on the 29th.

The range in declination during the month was from $10^{\circ} 21'.3$ on 22nd to $11^{\circ} 8'.5$ on 16th and also on 22nd; in horizontal intensity, from $\cdot 18327$ on 23rd to $\cdot 18740$ on 16th; in vertical intensity, from $\cdot 42912$ to $\cdot 43271$ both on 22nd.

September. - This was generally a quiet month.

A large sudden-commencement of 80 γ in H at 21h 42m on the 2nd produced only moderate disturbance, and reasonably quiet conditions prevailed until the 17th. The period from 11h to 24h on the 17th produced changes of small-storm intensity, the ranges in the interval being 135 γ in H, 145 γ in Z and 39' in D. Apart from some disturbance on the 19th and 20th the remainder of the month was mainly quiet.

The range in declination during the month was from $10^{\circ} 27'.9$ to $11^{\circ} 6'.5$ both on 17th; in horizontal intensity, from $\cdot 18430$ on 17th to $\cdot 18630$ on 2nd; in vertical intensity, from $\cdot 43029$ on 3rd to $\cdot 43198$ on 17th.

October. - A small storm beginning about 12h on the 3rd and centred around the late afternoon hours produced a range of 200 γ in Z, 37' in D, but only 120 γ in H (Plate X). Some minor activity, mostly in the evening hours of the 5th, 6th and 7th, in which a bay at 19h on the 5th was prominent, was followed by a relatively quiet period to the 13th, broken by an unusually large dip of about 150 γ in H between 7 and 8h on the 9th and a sudden-commencement movement at 19h 45m on the 11th. No storm developed until the early hours of the 13th, when great activity took place on the 13th, 14th, and first 5 hours of the 15th (Plates XI and XII). Ranges on the 13th were 290 γ in H, 225 γ in Z and 52' in D. A large bay at 18h on the 15th was followed by recurrent-storm-type disturbance in the late afternoon hours of the 16th, 17th, and 18th. The remainder of the month was quiet and featureless.

The range in declination during the month was from $10^{\circ} 10' \cdot 4$ on 13th to $11^{\circ} 5' \cdot 6$ on 3rd; in horizontal intensity, from $\cdot 18305$ on 13th to $\cdot 18620$ on 15th; in vertical intensity, from $\cdot 42970$ on 15th to $\cdot 43217$ on 15th.

November. - This was a very quiet month, without any storm of note. Minor fluctuations recurred on the 13th and 14th, while a small depression of H lasting from about 19h on the 24th to 5h on the 25th recurred as a larger negative bay of some 100 γ between 20h on the 25th and 2h on the 26th.

The range in declination during the month was from $10^{\circ} 29' \cdot 8$ on 13th to $10^{\circ} 57' \cdot 9$ on 25th; in horizontal intensity, from $\cdot 18429$ on 25th to $\cdot 18607$ on 13th; in vertical intensity, from $\cdot 43057$ to $\cdot 43144$ both on 13th.

December. - Also a quiet month, there was only one small storm, with ranges of 136 γ in H, 120 γ in Z, and 33' in D. It began about 20h on the 6th and lasted until midnight on the 8th. Positive bays in H showing on a quiet trace occurred between 22 and 23h on the 16th, 0 and 1h on the 22nd, 22 and 23h on the 23rd, 0 and 1h on the 30th; all were accompanied by bays in D of different phase.

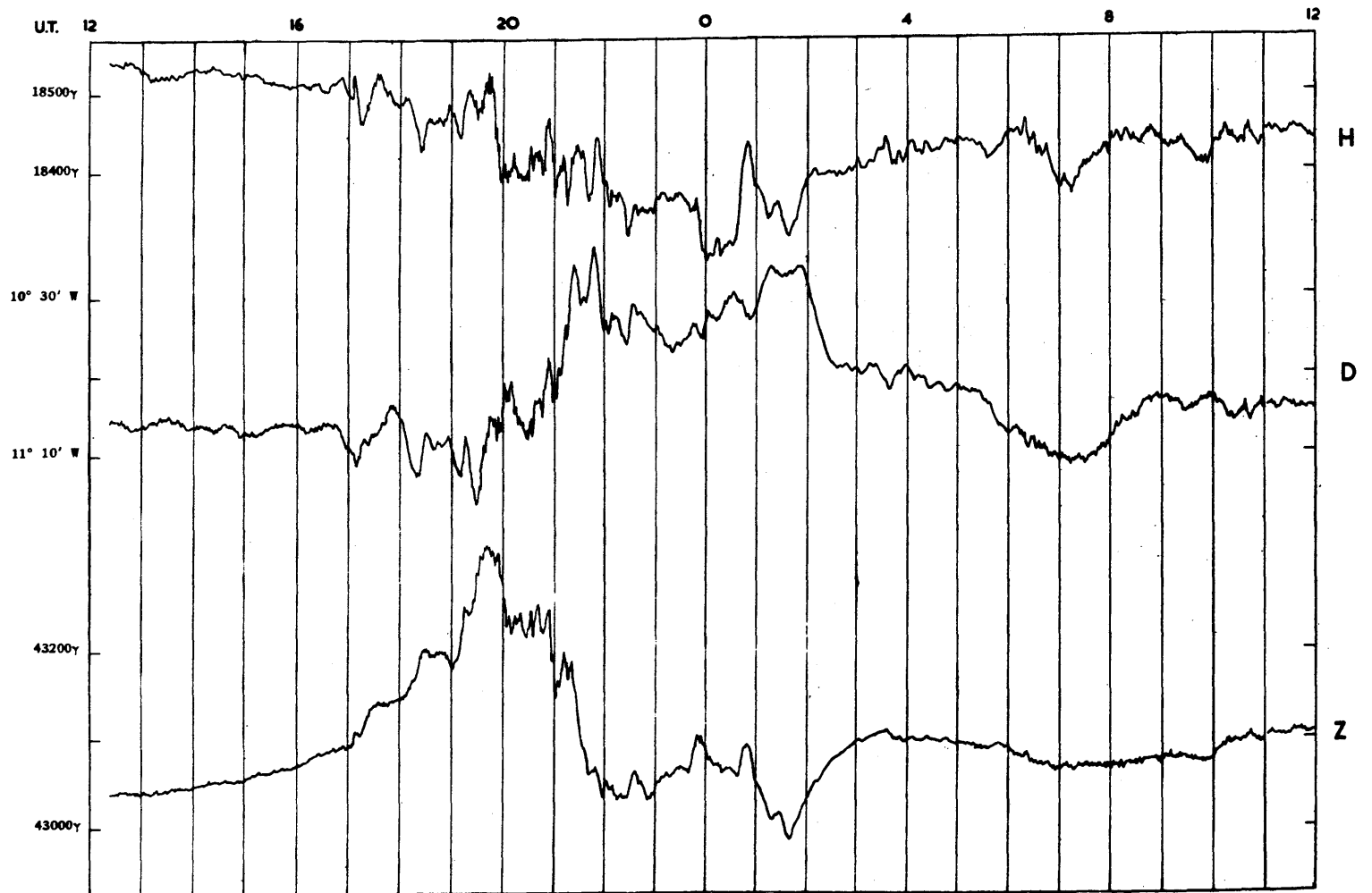
The range in declination during the month was from $10^{\circ} 27' \cdot 3$ on 6th to $10^{\circ} 59' \cdot 9$ on 7th; in horizontal intensity, from $\cdot 18434$ to $\cdot 18575$ both on 7th; in vertical intensity, from $\cdot 43041$ to $\cdot 43152$ both on 7th.

The absolute maximum and minimum values, respectively, of the elements recorded during the year were:

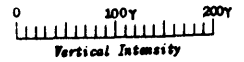
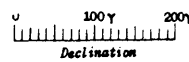
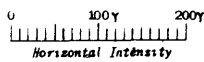
Declination $11^{\circ} 22' \cdot 6$ on February 24th, $10^{\circ} 10' \cdot 4$ on October 3rd.
Horizontal Intensity $\cdot 18861$ on April 24th, $\cdot 18284$ on February 25th.
Vertical Intensity $\cdot 43319$ on February 24th, $\cdot 42912$ on August 22nd.

MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 FEBRUARY 24 - 25

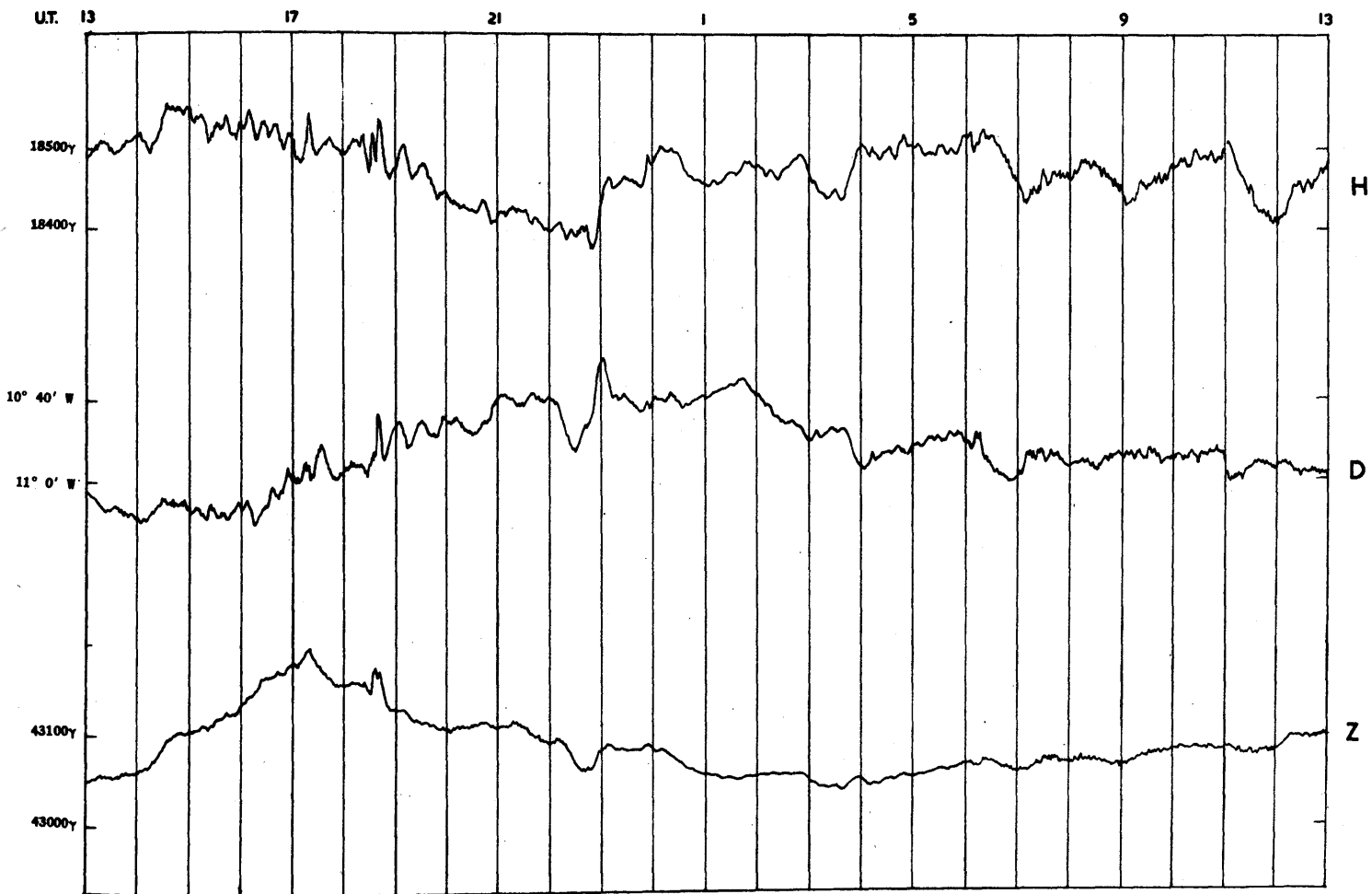


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

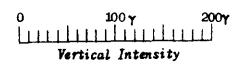
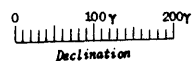
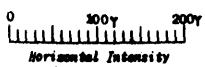


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION.

1939 MARCH 28 - 29

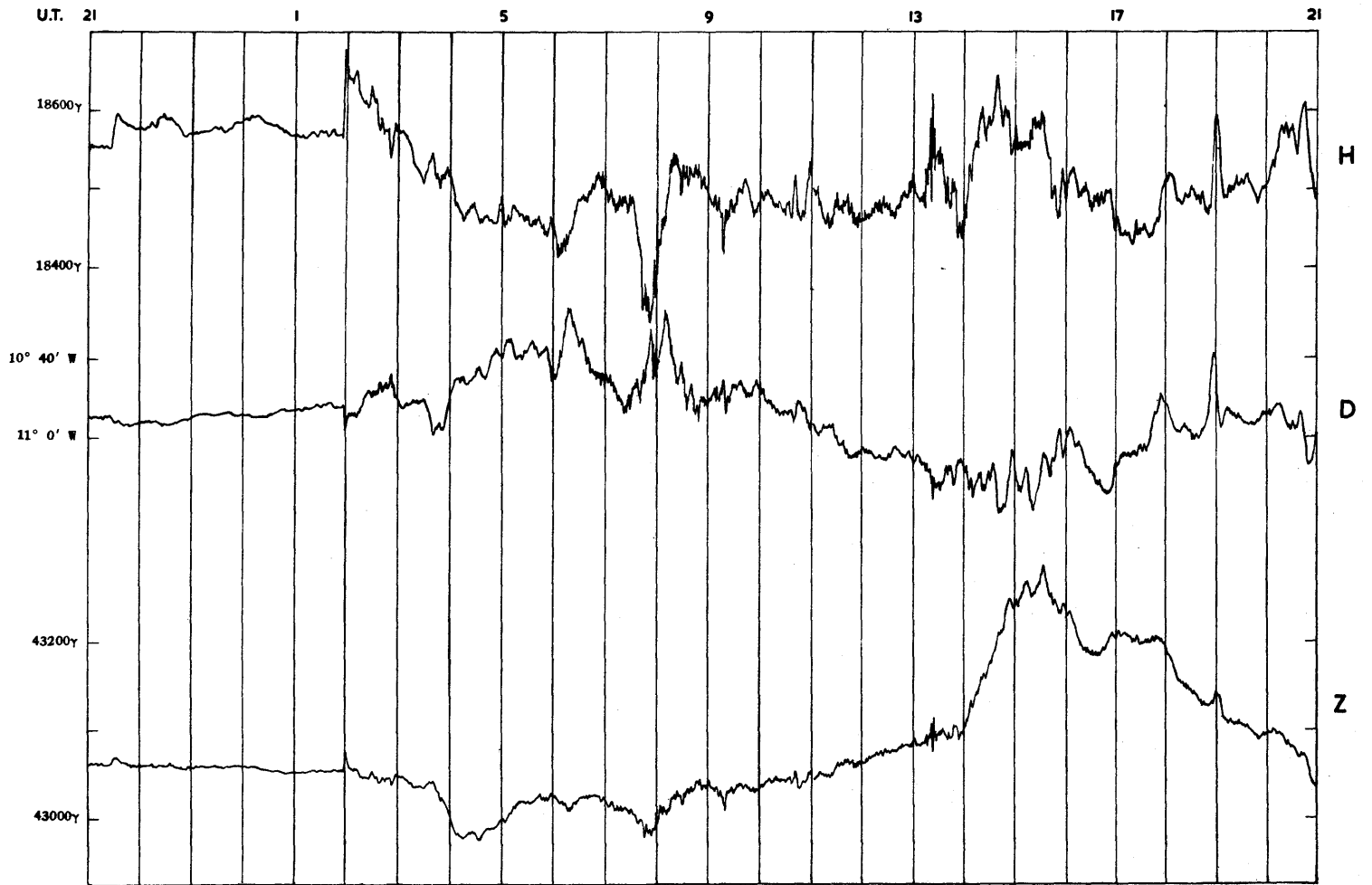


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

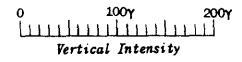
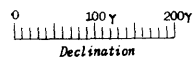
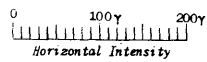


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 APRIL 16 - 17

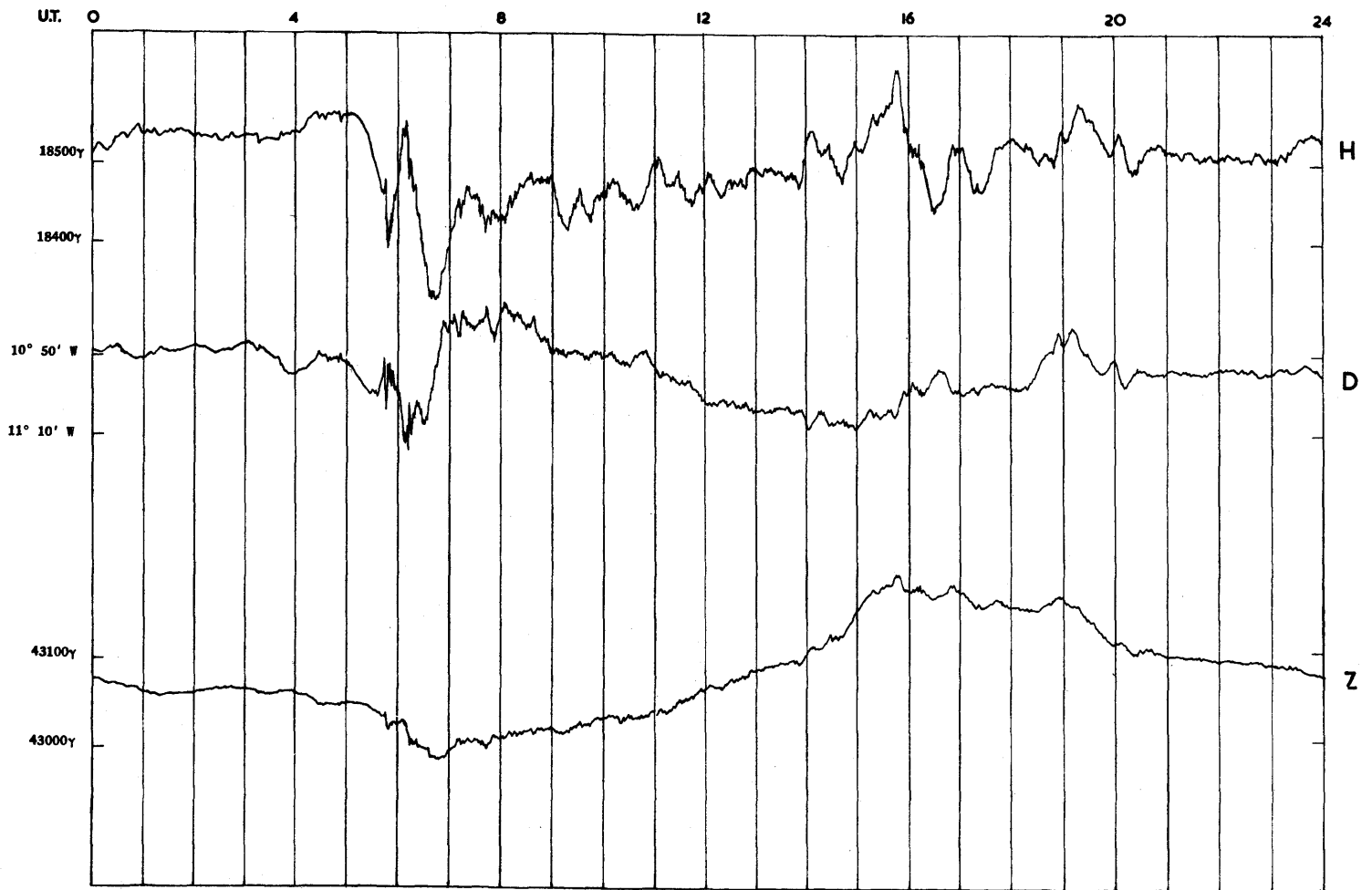


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

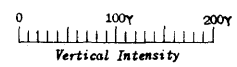
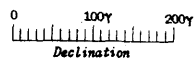
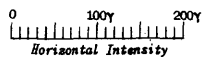


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION.

1939 APRIL 23

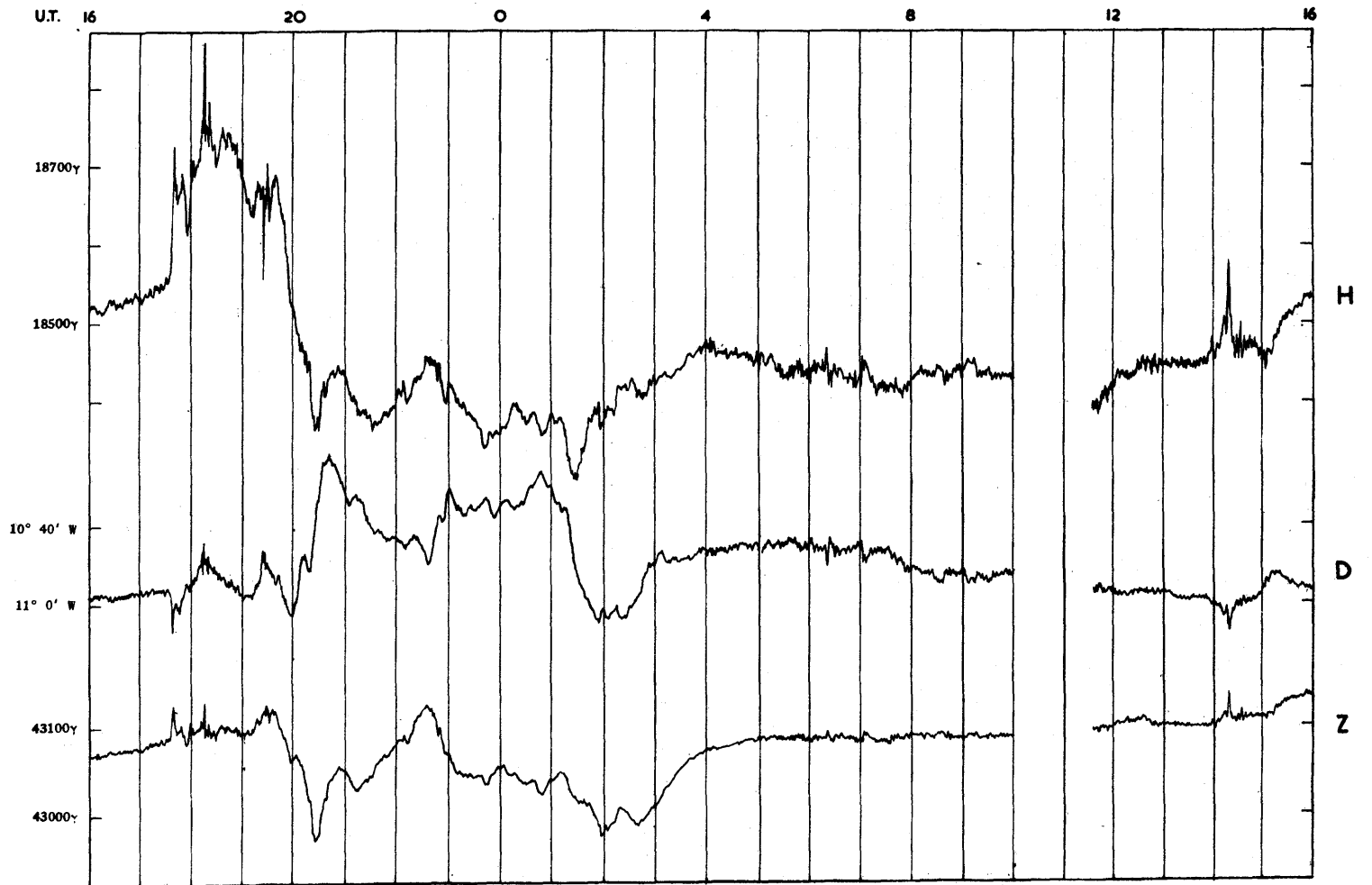


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

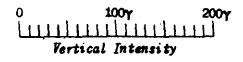
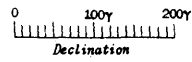
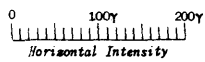


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

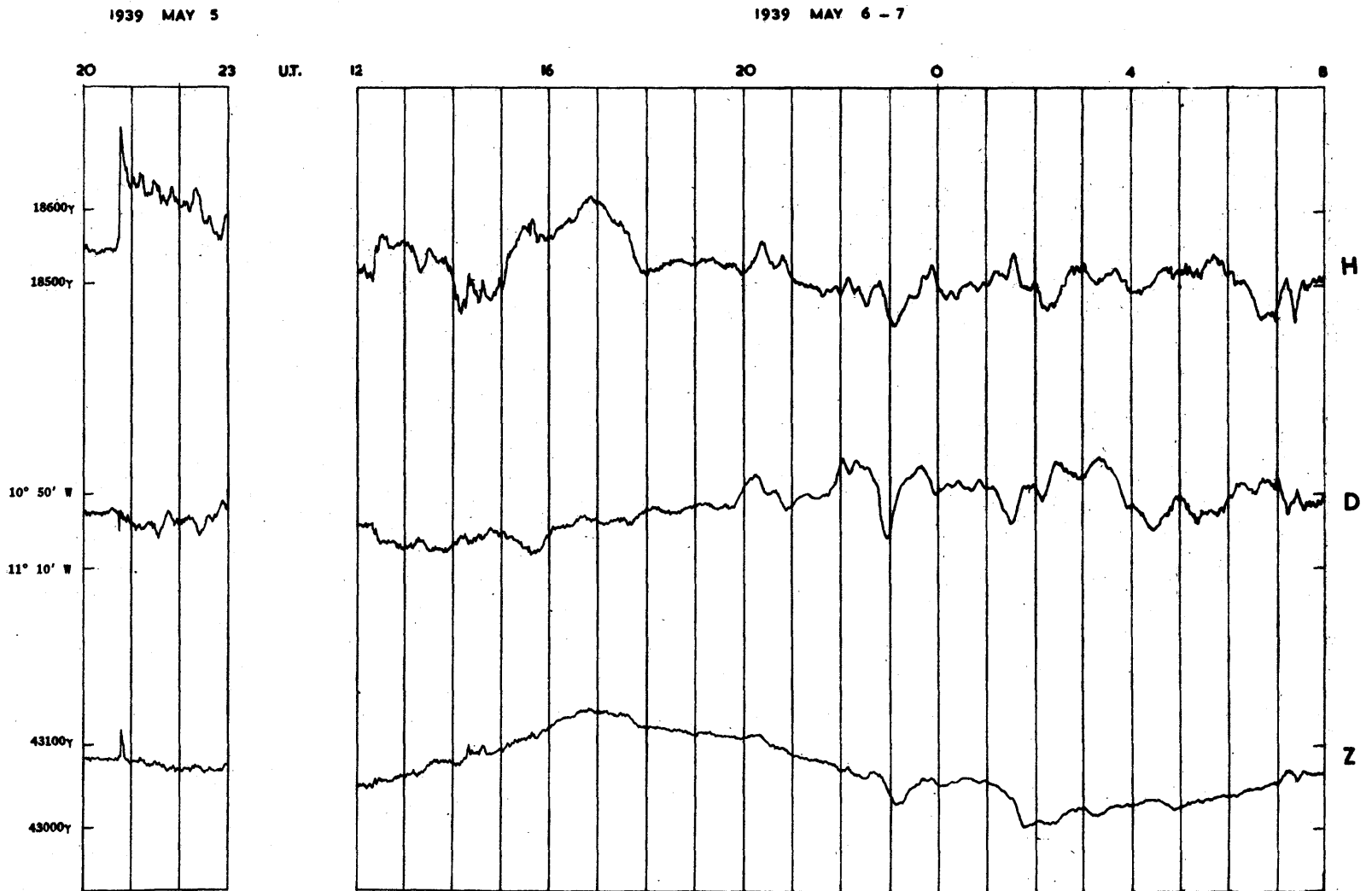
1939 APRIL 24 - 25



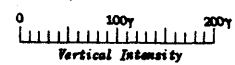
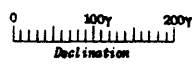
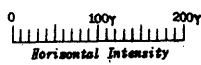
SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS



MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

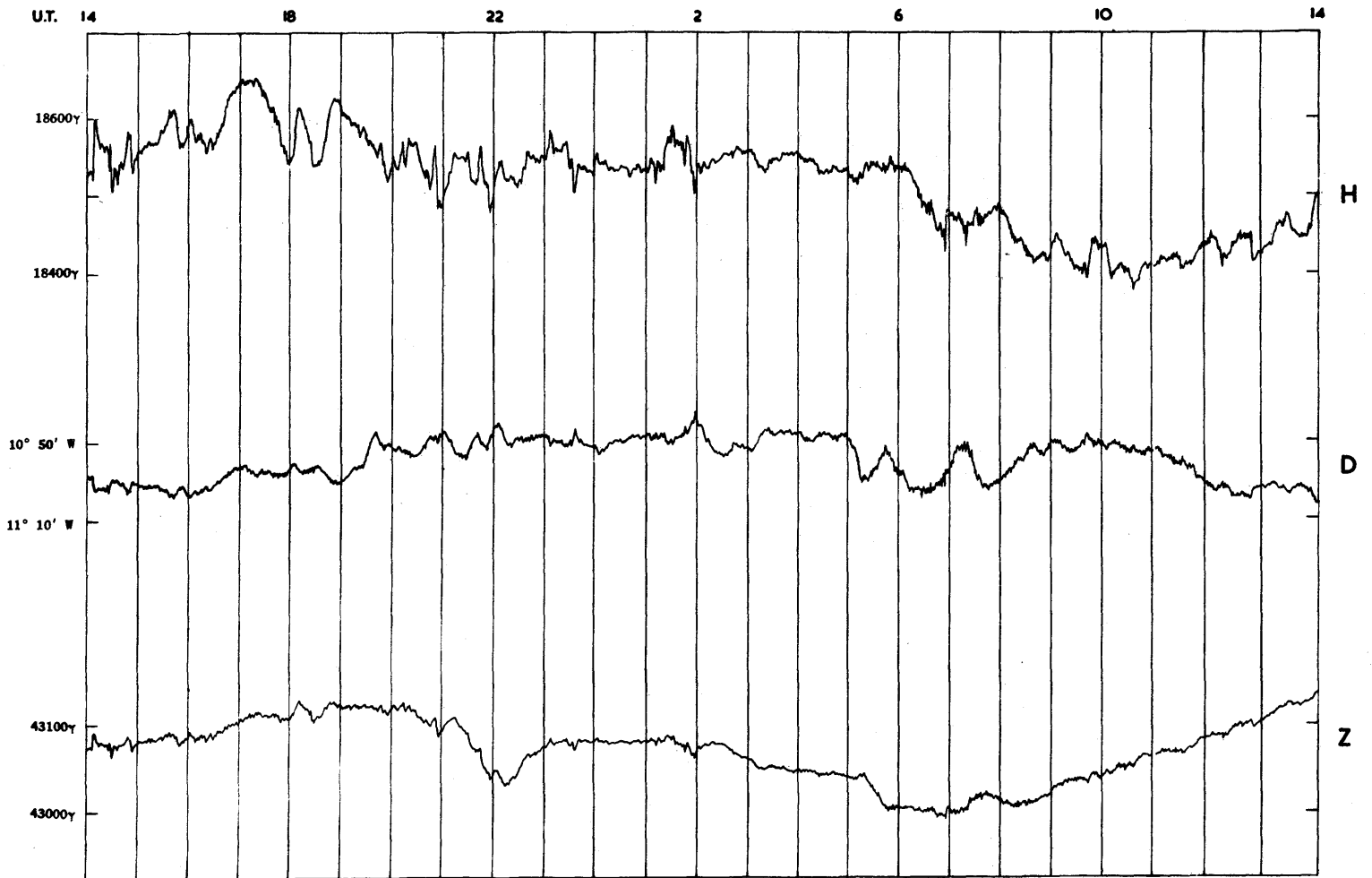


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

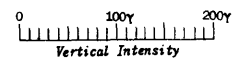
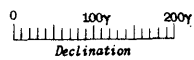
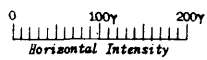


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 JULY 4 - 5

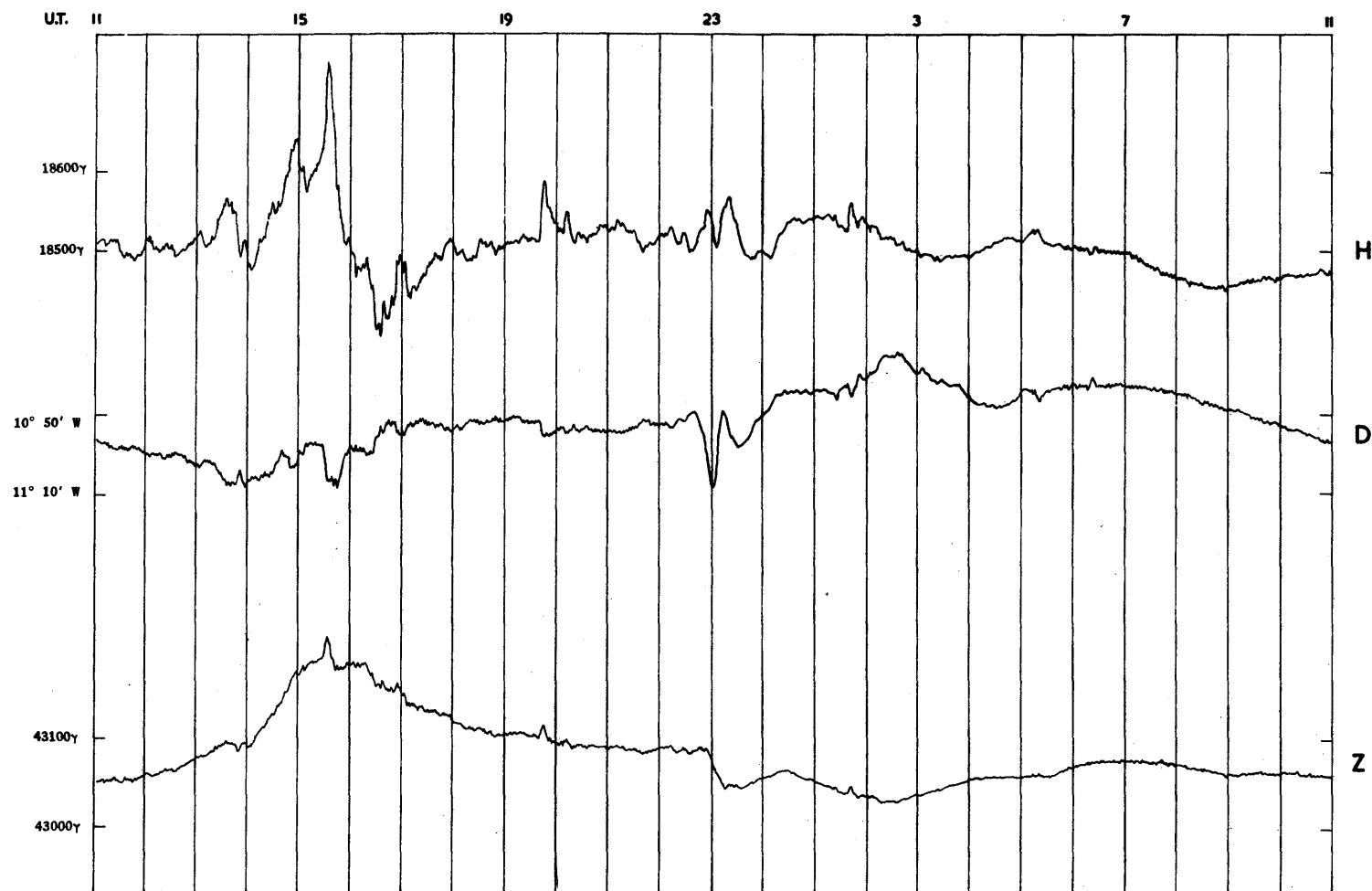


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

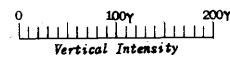
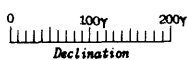


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 AUGUST 16 - 17

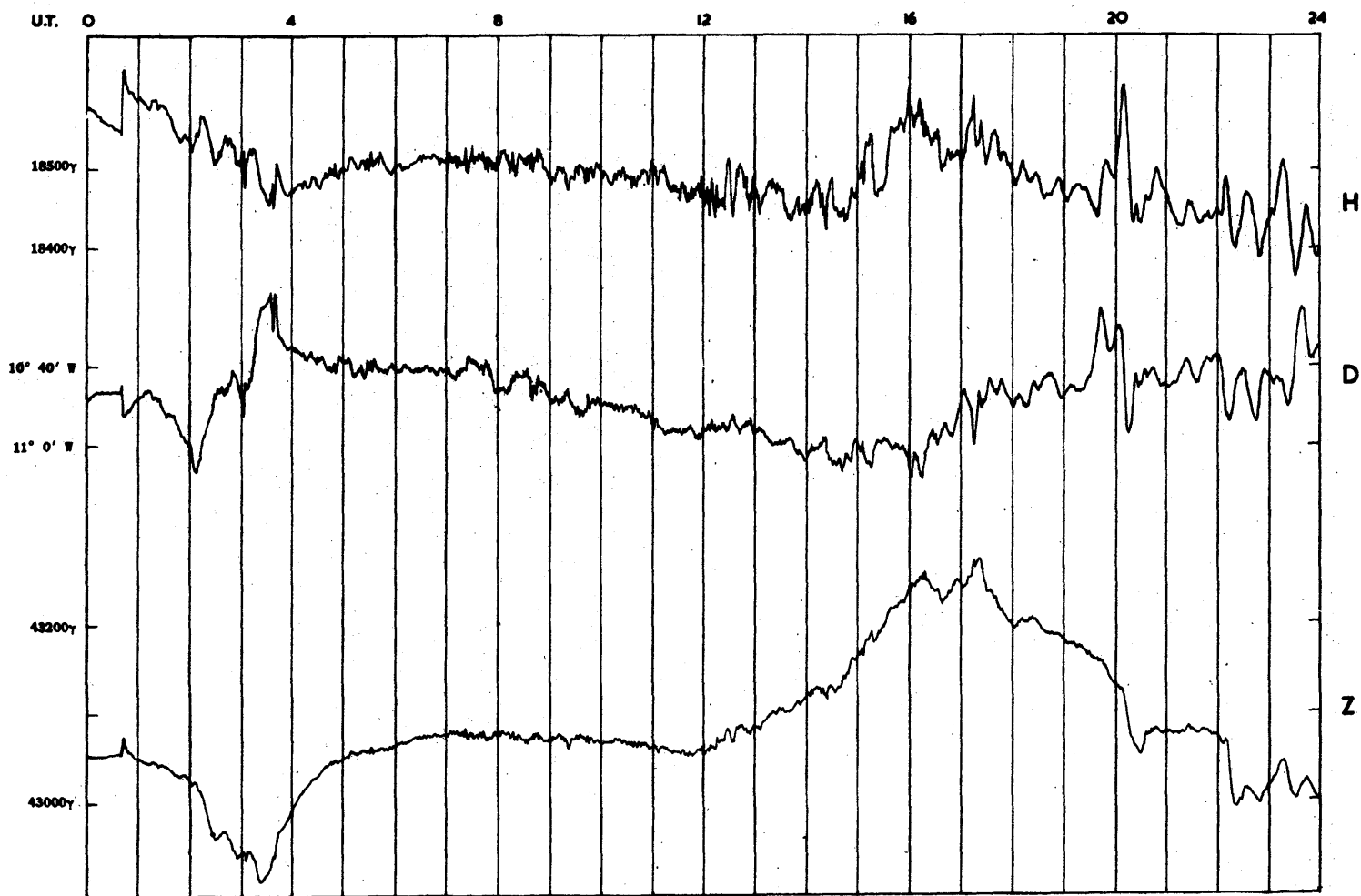


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

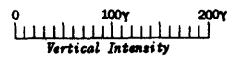
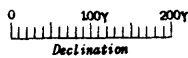
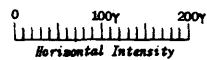


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 AUGUST 22

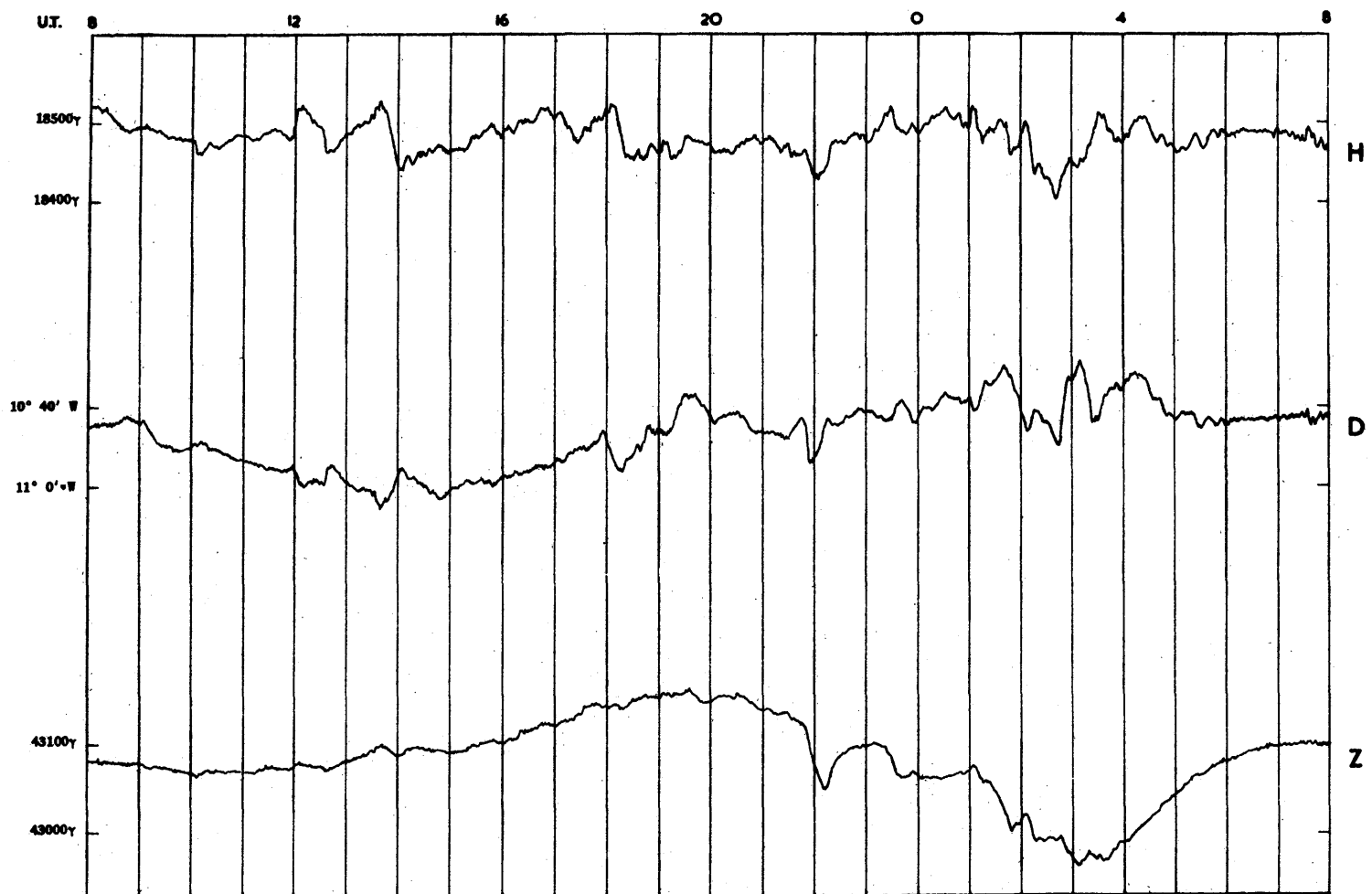


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

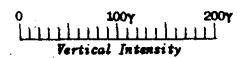
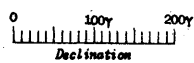
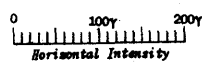


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 OCTOBER 3 - 4

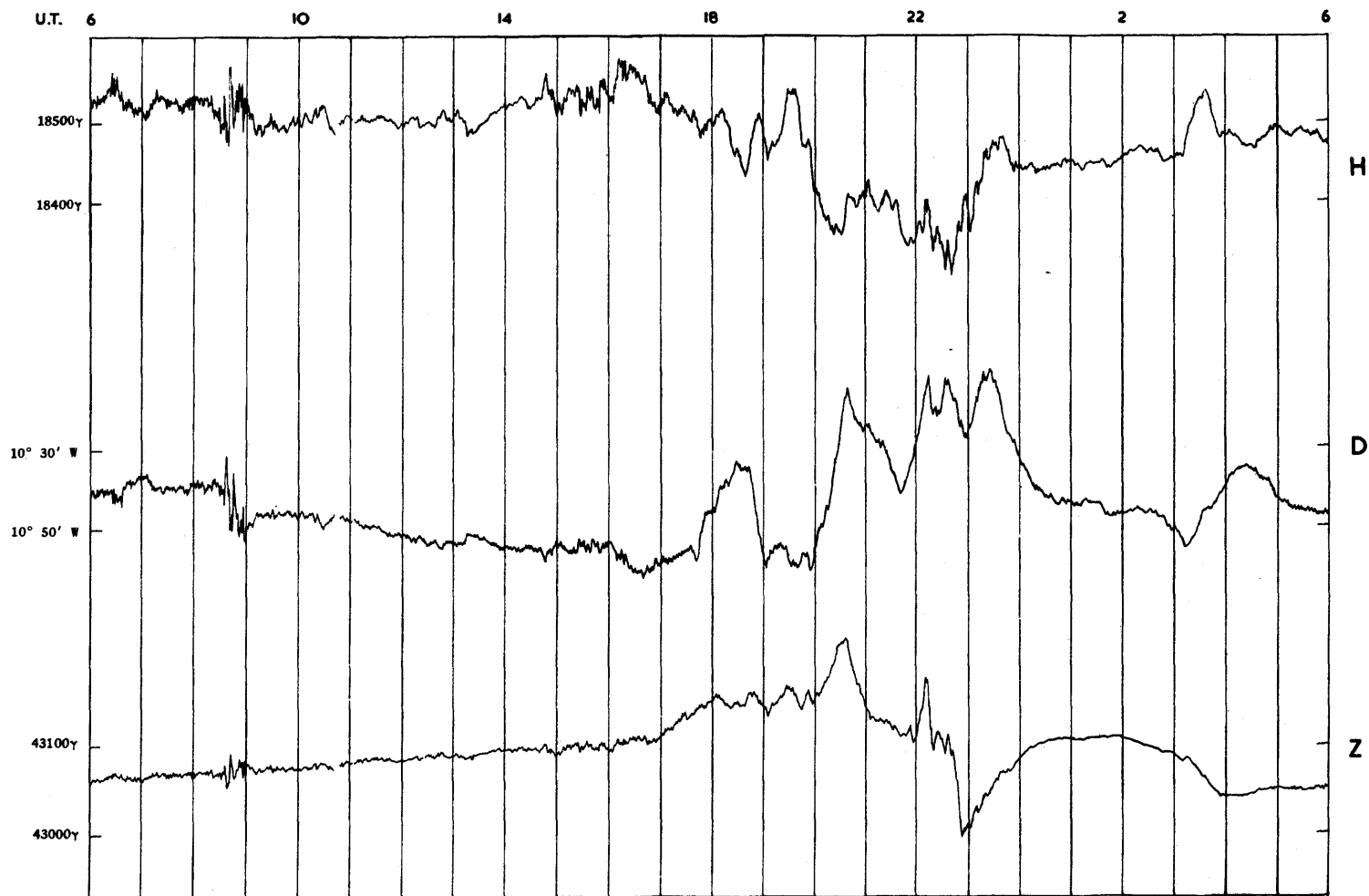


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS

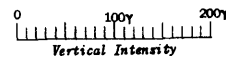
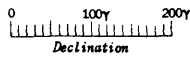
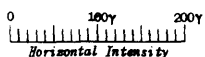


MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 OCTOBER 13 - 14

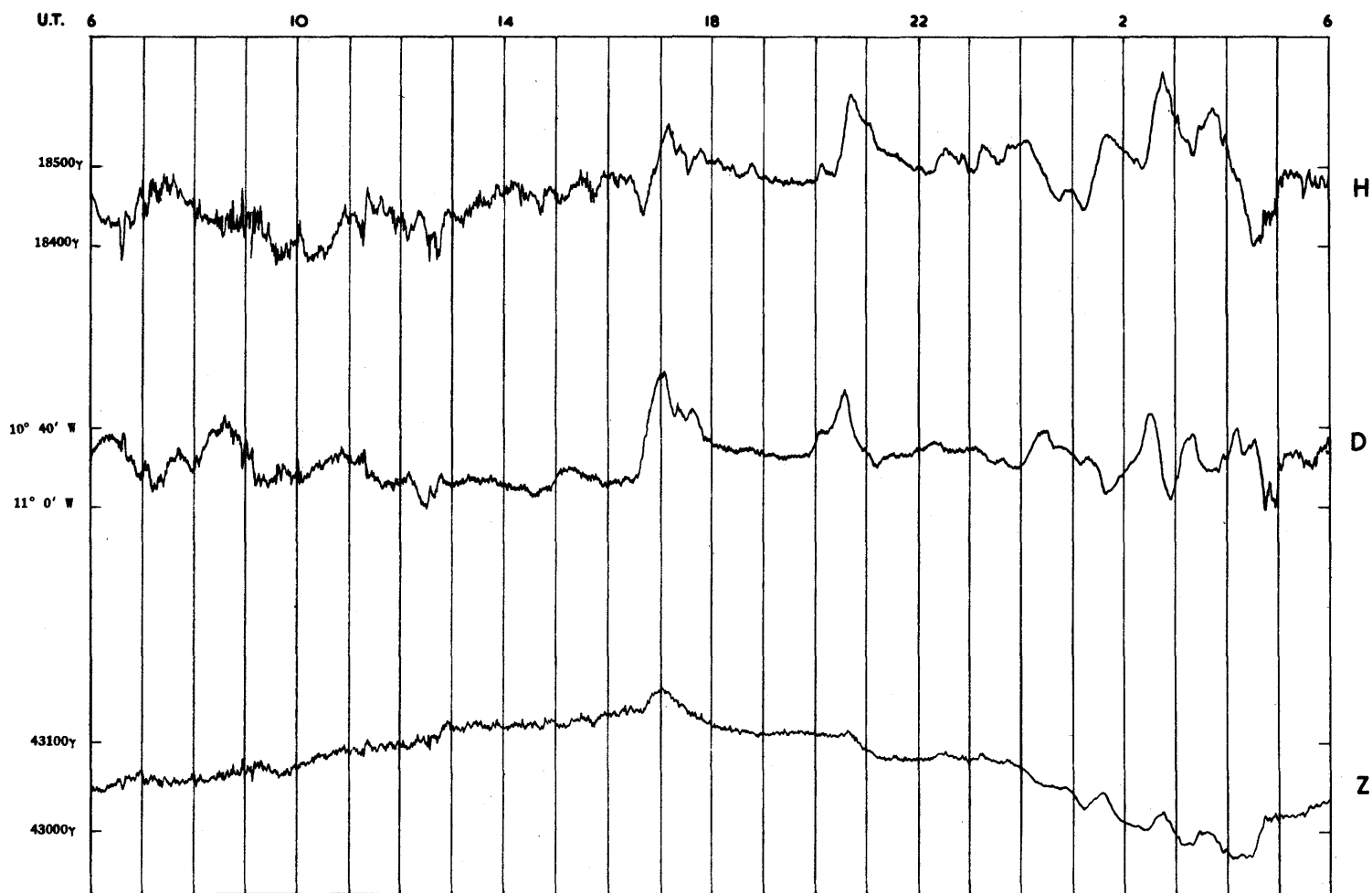


SCALES FOR MAGNETIC ELEMENTS IN C.G.S. UNITS



MAGNETIC DISTURBANCES AS RECORDED AT THE
ABINGER MAGNETIC STATION

1939 OCTOBER 14 - 15



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

