

RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS

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

1941

UNDER THE DIRECTION OF
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ASTRONOMER ROYAL

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



LONDON: HER MAJESTY'S STATIONERY OFFICE

MAGNETIC AND METEOROLOGICAL RESULTS, 1941

E R R A T U M

Page D 50, last line. *for* .42631 on September 18 *read* <.42571 on March 1.

ROYAL GREENWICH OBSERVATORY

April, 1954

LONDON: HER MAJESTY'S STATIONERY OFFICE: 1954

DS 15236/1 2098 K5 4/54CL

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THE ROYAL OBSERVATORY, GREENWICH

AND

ABINGER MAGNETIC STATION, SURREY

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1941.

INTRODUCTION

STAFF

During the year 1941 the staff serving in the Magnetic and Meteorological Department consisted of W. M. Witchell, Superintendent, E. A. Chamberlain, G. F. Wells, P. L. Rickerby, D. Oliver and N. S. C. Rhodes. Mr. Chamberlain, resident observer and assistant-in-charge, with his assistant Mr. Rickerby, were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

THE MAGNETIC STATION - Site (Lat. $51^{\circ} 11' 5''$ N; Long. $0^{\circ} 23' 12''$ W). Established in 1924 the station is situated on the northern slope of Leith Hill, Surrey, 800 feet above sea level. It is approximately 26 miles from the former site at Greenwich in a direction a little south of south-west. The nearest railway track lies at a distance of about $2\frac{1}{2}$ miles.

The Pavilions. The absolute observations are made in the main pavilion which is constructed of carefully chosen non-magnetic materials. It is approximately 28 feet long by 15 feet wide and contains four stoutly built hard wood piers embedded into concrete bases 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 measuring horizontal intensity; on the south east pier, the coil-magnetometer for measuring the vertical intensity; and on the south-west pier the Earth-inductor for observing the magnetic inclination.

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

A third pavilion measuring 20 feet square was added in 1932. More convenient and suitable for comparative observations than the second, this pavilion occupies a corresponding position to the north-east of the main pavilion. It contains three circular wooden piers set into concrete and free from contact with the floor, similar to those in the main pavilion.

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The Magnetograph House stands 50 feet east of the main pavilion and is oriented with its principal axis north and south. An inner chamber, designed to house the magnetographs at a uniform temperature, measures 15 feet long by 12 feet wide by 8 feet high and is supported on small concrete piers. The whole structure is contained within an outer chamber whose walls are constructed to have a low thermal conductivity and are nearly two 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 a series of low-temperature non-magnetic metallic resistances distributed along the base of the walls and fed by alternating current drawn from the public mains supply.

The temperature of the magnetograph chamber is controlled by a thermostat placed at the centre of the room at the same level as the magnetic instruments. Daily readings of a thermometer attached to one of the variometers show that the departures from a mean temperature do not exceed $0^{\circ}.2$ C.

Projecting up through the floor are five concrete piers. Two of these, designed originally to support recording mechanisms, occupy the north-west and south-east corners of the room, their longer sides being transverse to the meridian. In 1938 a massive slate slab measuring 8 feet by 2 feet by $1\frac{1}{4}$ inches was cemented upon the pier occupying the south-east corner. The other three piers are situated at positions 2 feet west and 2 feet 6 inches south of the north-east corner; 5 feet 6 inches west and 5 feet south of the same corner and 2 feet east and 3 feet north of the south-west corner. Also in 1938, a heavy wooden table 8 feet by 3 feet was installed near the centre of the room to carry new recording mechanism. The legs of this table pass freely through the floor of the chamber and are cemented into the concrete base of the main building.

LAYOUT OF RECORDING INSTRUMENTS. At the beginning of March 1938 the apparatus used since 1925 to record D and H was superseded by La Cour variometers. These instruments are set up at the south end of the recording chamber in a line running geographically east and west. They occupy the eastern half of the slate slab previously described. The La Cour recording mechanism is mounted upon the table also referred to in the previous paragraph.

Occupying the western halves of the slate slab and wooden table is a "quick-run" magnetograph (see p. vii). On the opposite corner pier is mounted the recording mechanism of a wide-range magnetograph, the declinometer of which is carried by the same pier (see p. vii). The accompanying H variometer is mounted on the south-west pier, formerly occupied by the Watson quartz-fibre Z variometer.

VARIOMETERS - *The La Cour Horizontal Intensity Variometer.* A complete description of this instrument is to be found in *Publikationer fra det Danske Meteorologiske Institut*, No. 11 (Copenhagen 1930), but for general information some details are given here. The magnet of cobalt steel, is 8 millimetres long and weighs about 25 milligrams, 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 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 proportional curving (under temperature changes) of a bi-metallic lamina which supports a prism controlling the ultimate direction of the ray.

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A small Helmholtz-Gaugain coil, having a field of 7.43 gamma per milliamperere and made to envelop the variometer, is used both to orientate the magnet correctly with respect to the earth's field and to determine the scale-value of the record. The adopted scale-value during 1941 was 4.50 gamma per millimetre.

The La Cour Declination Variometer. The general features of this instrument correspond closely to those of the variometer just described. The scale-value adopted during 1941 was 0'.92 per millimetre. Expressed as magnetic intensity the scale-value would be 4.96 gamma per millimetre at the present time.

The La Cour Vertical Intensity Variometer. This instrument is fully described in *Publikationer fra det Danske Meteorologiske Institut* No. 8. The recording magnet, including knife-edges and mirror, is fashioned from a single piece of cobalt steel, with the purpose of eliminating the possibility of relative movements among its parts. It is oriented approximately at right-angles to the magnetic meridian. Compensation for temperature changes is optically effected as in the horizontal intensity variometer. The scale-value, determined by the small Helmholtz-Gaugain coil already mentioned, was 4.00 gamma per millimetre until June 19, when a re-adjustment of the orientation of the magnet was made, as a result of which the scale value changed to 4.35 gamma per millimetre.

The Quick-run Variometers. These consist of a set of instruments closely resembling those described above and 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.

The Wide-range Variometers. Instruments formerly serving as standard variometers for H and D have been adapted to serve as wide-range recorders capable of registering on a small scale the largest variations in the two elements deemed possible of occurrence at Abinger. The H variometer, which was superseded as the standard by the La Cour recorder, has been "desensitised" by the addition, immediately beneath its base-plate, of a bundle of strongly magnetised needles set at right-angles to the magnetic meridian. The scale value is 19.5 gamma per millimetre. The D variometer used at Greenwich from 1917 to 1925, is now fitted with a lens of 50 cms. focal length which gives a scale value of 3'.7 per millimetre. The two instruments are located as described on p. vi. The present position of the D variometer is such that it is necessary to deflect the recording light-rays towards the recording cylinder through a large angle, and an appropriate mirror rigidly supported between the variometer and cylinder forms part of the apparatus. The wide-range variometers have been in regular operation since June 1940.

Recording Mechanism. The two principal features of the La Cour recorders are: the three elements H, D and Z are recorded on separate strips of a single photographic sheet; the range over which the elements are able to record is greatly extended by the use of prisms in the optical train which furnish a multiple set of images. For each element are formed six secondary images, three on each side of the principal image, the separation being so adjusted that the image from one prism appears at the edge of the record just before the adjacent image passes off the opposite edge. The time scale is approximately 15 mm. to the hour.

The time-marks are in all cases photographically printed on the sheets by momentary automatic illumination of an electric lamp. In the case of the La Cour magnetograph the original arrangement provides a series of small dots which con-

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stitute a second interrupted trace of the element. These marks, however, have been supplemented by thin time lines extending the whole width of each record, these lines being produced by adjustable long narrow mirrors which reflect light from an auxiliary time signal lamp. In the case of the "quick-run" and "wide-range" recorders, only the thin lines are printed.

The time-signals are 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 the clock operates a relay which in turn operates the lamps. Additional signals at the first and fifty-ninth minute of each hour serve to distinguish the hour signals. The error of the clock is observed daily by comparison with a time-signal radiating from one of the official broadcasting stations. The error which seldom exceeds one second, is eliminated by temporarily adjusting the clock rate electromagnetically over the required period of a minute or two.

OBSERVING INSTRUMENTS - *Declinometer*. 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 are made at intervals by means of observations of Polaris. During each observation both direct and reflected views of the star 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 Schuster-Smith Coil Magnetometer. This instrument is on loan to the Observatory from the National Physical Laboratory. It is the second of the type constructed 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 in a double spiral being that adopted in the original instrument referred to above. The whole forms a Helmholtz-Gaugain 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.

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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 ivorine scales are placed horizontally on stands at a distance of approximately 2 metres from the pier, and spots of light are reflected to them by small concave mirrors in the instrument.

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 quantity by rheostat according to the indications of a Broca galvanometer in a potentiometer circuit in which the fall of potential across a known resistance is brought to equality with the voltage 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 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 which 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.

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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 measurement of horizontal intensity is readily obtained in two minutes.

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

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 1941 is based were verified in February 1939. To convert the measure of current from international units to c.g.s. units the factor adopted prior to 1938 January 1 was .99997; but from this date onward the value adopted has been .99988. The change introduces a discontinuity into the reduced values of H of -1.7γ .

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, 30 and 40 cms. Twelve observations of the moment of inertia of the collimator magnet were made during the year 1941. The mean observed value of $\log. K$ from these determinations was 2.42367. 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 20 normal determinations made during the year are +9.92 and -1733 respectively.

The values used in the reduction of the 1941 observations, however, are the mean values obtained from a series of 235 special observations made during 1936. These values are: $-P = +9.17$; $Q = -1409$. The principle and method employed in the reduction

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of these special observations are described in the Results for 1936. In computing the observed values of horizontal intensity the deflection at 22.5 cms. has not been used since 1936.

The magnetometer, mounted until August 1928 in the main pavilion, is now used in the north-east pavilion (see p. v).

The Vertical Intensity Coil Magnetometer. This instrument, designed by D. W. Dye, for direct measurement of vertical intensity and constructed under his supervision at the National Physical Laboratory, Teddington, is on loan to the Royal Observatory from the 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 of 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. x). The current is taken from the battery which supplies the *Schuster-Smith* instrument.

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 mentioned above.

A weak alternating current, supplied from a generator at some distance from the instrument, passes through the test coil. The reaction between the field produced and the surrounding magnetic field subjects the test coil to a forced oscillation 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 the small mirror on the test coil of an image of illuminated cross wires to a screen erected about 2 metres distant.

The adopted value of the factor F of the coil is $F = 3.59643 (1 - .0000079t)$, t being temperature Celsius. The constants of the potentiometer in use during the year 1941 for the measurement of the current were verified at the National Physical Laboratory in 1939 February. The factor adopted for the conversion from international amperes to c.g.s. units was the same as for the *Schuster-Smith* Coil (see p. x). The change on 1938 January 1 introduced a discontinuity of -3.9γ into the reduced values of Z .

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The Absolute Inclination Instrument. An Earth Inductor by the Cambridge Instrument Company, 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.

REDUCTION OF RESULTS - Time - The system of time used in the reductions is *Universal Time (U.T.)*.

Hourly Values. The estimated mean ordinates of the photographic traces for each hour are measured from the base-line by the aid of an etched glass scale - the hour being the period of sixty minutes commencing at the time named in the tables. From the tables of these measures are obtained the mean daily and mean monthly values for each hour of the day and the value of the elements for each day of the month.

Base-lines. Values of the base-lines are adopted from smooth curves drawn through points plotted upon charts, each point representing the mean of several independently observed values. Ten observations of declination, eight of horizontal intensity and six of vertical intensity are made, on an average, each week-day. Prior to 1929 the base-line values for vertical intensity traces were computed from absolute observations of inclination I , combined with simultaneous values of horizontal intensity H , taken from the magnetograms, in accordance with the relation $Z = H \tan I$. From 1929 January 1 the values have been obtained directly from observations of vertical intensity with the coil-magnetometer. The change introduces a discontinuity of about 30γ into the definitive values of vertical intensity, corresponding to $0'.9$ in inclination. The latter is to be attributed to hitherto unsuspected wear in the bearings of the Earth inductor which, at the time of its discovery made observed values of inclination too large by the amount.

Temperature Corrections. As the magnetograph chamber is maintained at a sensibly constant temperature and, moreover, the temperature compensation in the variometers themselves has been closely attained, in general no temperature corrections are required.

K - Indices. In conformity with a resolution passed at the Washington Assembly of the International Association of Terrestrial Magnetism and Electricity in 1939 September, the magnetic character of each day is estimated by means of three-hour-range indices, the index "K" for each three-hour period from 0^h to 24^h U.T. being assigned according to the principles described in an article published in *Terrestrial Magnetism and Atmospheric Electricity*, Vol. 45, pp. 411 *et seq* (December 1939).

The scale adopted for this purpose is constructed as follows:- The average quiet day variation during a particular three-hour period being reckoned as "0", any excess greater than 5γ but less than 10γ is reckoned as "1"; an excess between 10γ

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and 20γ as "2"; between 20γ and 40γ as "3"; between 40γ and 70γ as "4"; between 70γ and 120γ as "5"; between 120γ and 200γ as "6"; between 200γ and 330γ as "7"; between 330γ and 500γ as "8"; greater than 500γ as "9".

The traces of all three elements are examined and the largest variation recorded in the interval is used to give the "K" index for that interval.

THE TABLES. Tables I to III contain respectively the hourly mean values of declination, horizontal intensity and vertical intensity.

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.

Table IVA contains, for each day of the year, the eight individual K-indices, arranged in succession, together with their sums.

Tables V to VII contain the 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 given values for the seasons, viz. Winter (January, February, November, December), Equinox (March, April, September, October) and Summer (May, June, July, August). The values in these tables are *not* adjusted for the effect of non-cyclic change.

The figures quoted for the north and west components and the inclination are computed from the corresponding inequalities in declination, horizontal intensity and vertical intensity, the computations being in general carried out to one significant figure beyond that printed. Extreme values are indicated in heavy type.

Tables VIII and IX contain the harmonic coefficients obtained from an analysis of the inequalities in the north (X), west (-Y) and vertical (Z) components. In the case of the International Quiet and Disturbed Days, the inequalities are adjusted for non-cyclic change before analysis, but in analysing the results for "All" days the non-cyclic change is ignored. The phase-angles in Table IX are corrected to refer to Abinger Local Mean Time.

Table X. In the annual volumes from 1926-1931 this table contains the range of the mean diurnal inequalities abstracted from the figures given in Table V to VII for the months, the year and the seasons. In 1932 a change was made which was inadvertently not noted at the time. Thenceforth the figures given for the *year and the seasons* are derived from Table X itself by meaning the values of the months constituting the particular group.

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 of 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 forming this table corrections are 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.

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Tables XIII to XVA contain the daily values of the base-lines of the magnetograms reduced from the absolute observations.

Table XVI. The first part of this table contains 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 second part contains corresponding values determined at the Abinger Station since 1925.

REPRODUCTION OF MAGNETOGRAMS. A brief descriptive summary of the more significant movements recorded in the magnetic elements during the year is accompanied by reduced copies of the Abinger Magnetograms illustrating disturbances of special interest.

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GENERAL. 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"; 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. xviii).

INSTRUMENTS. *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 are of brass. At its lower end the rod terminates in a point of ivory which in observation is made just to meet the reflected image of the point as seen in the mercury. The scale is divided to 0.05 inch, sub-divided by vernier to 0.002 inch.

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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. xix).

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

The Photographic Barometer. 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. The moving mirror of the instrument is mounted horizontally, in a suitable frame, just above the pivots of, and attached to the short lever. 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 below the lower half of this lens. Provision is made for all the 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 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 three 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 9 $\frac{1}{2}$ 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- 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

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been set up a few yards to the westward. The old screen was subsequently erected in a new position on the north side of the Christie Enclosure, and daily readings, at 9^h, of maximum and minimum temperature in the open screen were resumed from 1938 May 1.

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 $-0^{\circ}.3$ has been applied to the readings of this thermometer.

The dry-bulb and wet-bulb thermometers are read at 9^h, 12^h (noon) and 15^h every day. Readings of the maximum and minimum thermometers are taken at 9^h and 15^h 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 CG 10220. The thermometer for radiation to the sky is a spirit minimum thermometer, Negretti and Zambra CG 18256. The thermometers are laid on short grass, freely exposed to the sky.

Earth Thermometers. There are two thermometers 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 (9 ft. 2 in. 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

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time the position of the direction-plate over the registering table to which reference is made by means of a direction pointer when adjusting a new sheet on the travelling board.

A circular pressure plate with an area of 192 square inches is attached 2 feet below the vane; moving with the latter it is always kept directed against the wind. A light wind causes the plate to compress slender springs, the motion being registered on the horizontal sheet by a pencil connected with the plate by a flexible brass chain which is always in tension. Higher wind pressures bring stiffer springs into play behind the plate, and the two sets of springs are adjusted by screws and clamps so as to afford fixed scales on the sheet, the scale for light winds being double that for 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 as long ago as 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 tests made by W. H. Dines at Hersham 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 $V = 4.0 + 2.0v$ and that the instrument fails to record wind velocities less than 4 miles per hour. This relation has been used to modify the velocity recorded by the instrument.

During a gale on 1941 October 18 the anemometer was severely damaged and extensive repairs became necessary, amounting to renovation. As part of these a ball bearing for the revolving shaft was introduced. This alteration had an obvious effect upon the freedom of movement of the cups, which has been approximately allowed for in the formula by changing the constant term from 4.0 to 2.0.

Rain Gauges. During the year 1941 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 is fixed about 4 feet north of the standard gauge No. 6 which is read daily at 9^h, and 15^h. No. 8 is used as a check on the readings of No. 6 and is normally read at 9^h only. The gauges are also read at midnight on the last day of each calendar month.

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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 94 of the Meteorological Results.

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 in 1926 and 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.

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 about 20 yards south of the Altazimuth building, 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 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 ($3\frac{1}{4}$ by $4\frac{1}{4}$ 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 Ursæ 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 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 0^h U.T., excepting 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.

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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 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 instruments.

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 62-85). 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 (pp. D 89 and 90) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pp. D 88 and D 89).

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 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, 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°.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. xvii). The continuous record of the Osler self-registering gauge shows whether the amounts measured at 9^h are to be placed to the same, or to the preceding day; and also gives in cases

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in which rain fell both before and after midnight, the means of ascertaining the proper proportion of the 9^h 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 87 and D 94, 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.

It may be understood, generally, that the greatest wind pressures usually occur in gusts of short duration. In the "Mean of 24 Hourly Measures" each measure represents the mean hourly value centred at the nominal hour. With regard to "Proportions of wind referred to the cardinal points" in the monthly summary on pages D 62-D 85, 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 63 to D 85, and in the abstract table, page D 87, is the mean found from observations made at 9^h, 12^h (noon), 15^h and 21^h 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 symbols 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 2200 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

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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"

CLOUD FORMS (*)

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

ADDITIONAL SYMBOLS

<i>lu-ha</i>	lunar halo	<i>prhn</i>	Parhelion
	<i>so-ha</i>	solar halo	

ROYAL OBSERVATORY, GREENWICH.
ABINGER MAGNETIC STATION.

Results of Magnetic Observations

1941

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	37.5	38.2	39.1	39.5	39.0	39.4	39.4	39.0	38.9	39.1	39.7	39.5	40.5	42.2	41.0	37.5	42.9	39.5	38.5	34.5	30.7	33.3	36.0	36.1			
2	35.5	36.0	38.0	38.1	38.3	38.7	38.8	38.5	38.3	38.6	39.4	40.0	41.0	42.2	40.9	39.9	38.4	39.1	39.4	39.2	38.8	37.9	36.4	36.9			
3	37.4	38.1	38.8	39.5	39.1	39.1	38.8	38.5	38.2	38.8	38.9	39.0	40.5	41.2	41.2	41.4	41.1	41.0	40.5	38.1	37.8	37.9	37.5	33.7			
4	31.1	35.0	36.3	37.9	38.5	38.5	38.8	39.1	38.5	38.4	38.5	39.6	41.1	41.7	41.5	41.3	40.5	39.9	39.5	39.1	38.6	38.5	38.3	38.3			
5*	38.6	38.8	38.9	39.0	39.4	39.4	39.4	39.0	39.6	39.4	39.5	41.0	41.5	41.5	41.4	40.8	40.7	40.4	40.2	39.7	39.8	39.1	38.5	38.2			
6	36.8	37.5	35.8	31.0	30.4	32.8	36.1	39.4	40.4	38.7	38.5	40.4	41.3	41.3	40.4	39.9	41.0	41.0	40.8	40.4	38.5	38.4	38.2	38.0			
7	37.9	37.0	37.2	36.9	37.1	37.7	38.3	38.5	39.4	40.2	39.5	40.8	41.9	41.1	40.4	41.4	40.3	37.4	40.5	39.4	38.4	38.3	38.1	36.4			
8	36.5	37.7	37.4	37.1	37.0	37.0	37.4	38.2	38.8	39.7	39.9	41.4	42.8	41.2	40.3	40.4	39.9	40.4	40.7	40.5	39.4	38.3	38.1	35.5			
9	36.5	37.6	36.1	36.4	37.8	38.0	38.3	38.8	39.9	40.4	40.5	42.8	46.4	44.4	45.8	41.9	40.0	39.5	39.0	35.3	37.3	37.5	38.4	38.6			
10	37.3	35.3	36.7	37.8	38.3	38.7	38.3	38.1	37.9	38.3	39.3	41.9	43.1	41.7	41.9	40.7	40.6	38.8	39.5	37.4	37.7	38.7	38.1	36.1			
11	35.7	32.6	34.3	36.7	37.5	37.3	38.1	37.8	37.7	37.9	39.3	42.3	44.3	44.0	42.0	40.9	39.8	40.0	39.6	38.0	39.3	38.7	35.7	37.0			
12	36.3	36.5	36.7	37.8	37.6	38.1	38.5	38.1	37.7	38.2	38.9	40.0	40.9	42.1	41.7	41.6	41.3	40.0	39.7	39.6	38.6	36.7	36.6	35.6			
13	38.0	35.6	36.9	37.4	38.0	38.5	38.3	38.0	37.4	37.7	38.0	40.4	41.7	42.2	40.9	40.0	40.2	40.2	40.2	40.2	39.5	37.0	38.3	37.3			
14*	37.5	38.1	37.5	38.9	38.4	38.2	37.8	37.6	37.8	38.5	39.0	40.3	41.3	40.9	39.6	39.2	39.1	38.9	39.0	38.8	38.7	37.7	36.2	35.9			
15*	36.2	35.8	35.3	36.0	36.8	37.2	37.4	37.4	37.6	38.0	39.3	40.2	41.2	41.0	40.3	39.7	39.8	39.4	39.0	38.3	38.1	38.1	37.7	38.1			
16	38.3	38.0	39.2	39.3	39.7	39.5	38.9	38.9	39.0	39.4	39.7	40.3	42.3	44.1	44.3	44.8	41.6	40.2	39.3	38.3	37.8	37.7	37.3	37.5			
17**	35.3	35.2	28.3	37.9	38.9	39.2	39.2	41.1	43.4	43.1	40.9	42.3	42.9	44.4	41.3	43.6	38.2	28.0	38.4	35.9	33.3	32.4	27.7	37.8			
18**	40.7	37.3	37.9	42.4	41.3	41.1	41.5	39.7	38.9	40.2	38.2	39.6	40.9	41.2	40.2	39.8	36.9	32.0	32.9	22.8	36.0	36.6	37.1	37.5			
19	38.0	36.3	36.9	37.3	39.7	40.9	39.9	38.9	38.1	38.4	39.5	39.0	40.9	43.3	38.6	40.6	39.1	33.0	38.5	38.3	37.3	32.1	34.3	39.5			
20	35.3	36.9	40.3	40.5	39.9	38.9	38.7	37.8	37.7	38.8	40.6	41.2	41.1	40.8	39.8	38.7	38.7	38.7	38.6	38.8	38.1	34.1	37.3	37.6			
21*	38.0	38.3	38.0	39.2	37.5	37.7	37.6	37.7	37.8	38.2	39.0	40.5	40.8	40.3	39.9	39.6	39.3	39.0	39.2	38.6	37.4	36.8	37.8	38.0			
22	38.3	38.7	38.3	38.9	38.3	38.0	38.1	38.4	39.6	39.7	40.9	42.3	42.9	42.5	41.1	39.9	40.7	40.4	40.2	34.6	34.7	33.9	36.9	38.3			
23**	39.0	40.5	37.8	37.2	37.3	37.9	38.3	37.9	38.7	41.1	40.6	41.8	43.3	44.0	42.8	42.6	37.7	35.7	32.8	39.3	37.4	32.8	33.3	34.6			
24**	37.1	36.6	38.2	38.3	37.7	36.8	40.2	41.0	39.4	39.8	40.3	42.7	45.2	42.1	44.6	40.9	35.9	30.5	37.8	35.5	33.7	34.6	34.9	36.9			
25**	39.8	41.7	39.0	38.8	43.8	40.3	37.4	38.3	36.8	38.3	39.3	40.1	41.8	41.4	38.3	40.6	35.3	39.1	36.2	33.3	34.9	37.2	35.9	29.8			
26	34.9	32.4	37.8	38.2	38.9	38.4	41.2	39.3	39.7	38.1	38.8	39.3	40.9	42.1	40.1	42.0	41.1	39.3	39.3	38.3	35.7	30.2	35.3	36.1			
27	38.0	38.9	38.6	38.0	37.0	36.9	38.0	38.5	38.3	38.7	38.5	39.7	41.3	42.3	38.7	40.4	37.7	36.0	36.2	32.0	35.0	35.7	34.3	35.1			
28	36.3	38.6	39.7	39.8	39.6	39.2	38.7	38.0	37.8	38.3	39.5	40.8	43.8	42.9	42.5	40.0	38.6	38.9	37.6	32.0	34.5	37.6	36.0	37.7			
29	38.3	39.2	39.2	38.8	38.2	38.3	37.5	36.9	36.3	36.4	38.2	40.3	40.7	41.0	40.3	39.0	38.5	37.9	38.3	38.3	37.7	37.4	37.4	35.2			
30	33.3	37.1	37.7	37.9	40.0	37.1	37.3	37.5	37.3	37.9	39.7	42.4	42.5	42.8	42.7	42.3	41.3	38.8	33.9	34.1	37.9	37.3	34.7	37.0			
31*	38.3	38.1	37.8	38.4	38.4	37.8	37.4	36.8	37.6	38.4	39.3	39.9	40.9	40.7	40.3	38.8	39.2	39.2	39.2	38.7	38.2	37.8	37.7	37.6			
Mean	37.0	37.2	37.4	38.1	38.4	38.3	38.5	38.5	38.5	38.9	39.4	40.7	42.0	42.1	41.1	40.7	39.5	38.1	38.5	37.0	37.1	36.4	36.3	36.7			
Mean*	37.7	37.8	37.5	38.3	38.1	38.1	37.9	37.7	38.1	38.5	39.2	40.4	41.1	40.9	40.3	39.6	39.6	39.4	39.3	38.8	38.4	37.9	37.6	37.6			
Mean**	38.4	38.3	36.2	38.9	39.8	39.1	39.3	39.6	39.4	40.5	39.6	41.3	42.8	42.6	41.4	41.5	36.8	33.1	35.6	33.4	35.1	34.7	33.8	35.3			
February																											
10° + Tabular Quantities																											
1*	37.7	37.7	38.1	38.0	38.0	37.8	37.6	37.6	37.5	38.5	39.5	40.9	42.5	41.9	41.6	41.2	41.9	43.6	41.9	39.8	39.2	37.3	37.1	36.5			
2	37.0	37.7	37.7	37.4	37.7	37.6	37.1	36.3	36.3	37.7	39.7	41.3	40.6	40.6	39.2	38.4	39.0	39.0	39.2	39.2	38.3	35.5	35.8	36.9			
3	37.1	37.1	34.5	34.3	29.8	33.2	35.1	36.5	37.5	39.1	39.1	39.9	42.5	45.1	43.5	41.3	39.8	40.1	36.6	35.3	35.2	34.5	34.9	36.1			
4	35.0	32.9	31.4	35.5	36.4	36.0	35.4	36.4	36.7	37.2	39.3	41.9	45.4	44.5	43.8	41.2	41.9	41.9	40.6	38.7	37.9	37.4	37.1	37.1			
5	36.9	37.7	36.0	38.8	36.9	36.1	37.1	36.3	36.4	36.8	39.0	41.1	43.1	43.7	44.9	43.0	42.0	41.0	42.4	41.0	36.3	26.3	29.8	30.9			
6	31.9	35.3	32.6	34.4	35.3	37.1	42.9	38.8	37.3	37.3	38.8	43.3	41.7	43.8	43.2	44.6	45.3	42.8	40.6	35.7	32.7	33.9	32.9	33.6			
7**	32.3	27.8	33.0	35.6	34.3	37.7	39.6	39.8	40.4	38.8	38.7	39.8	41.9	44.6	42.7	39.9	40.1	31.7	35.6	38.3	33.9	35.5	34.8	31.6			
8	32.5	34.4	34.7	37.8	38.3	36.6	37.1	37.3	37.9	38.3	40.3	40.3	41.3	41.7	40.5	36.3	37.8	39.4	33.8	35.7	36.8	34.7	35.9	35.1			
9	34.7	36.4	37.9	39.3	38.4	36.9	39.3	40.8	38.6	38.7	38.7	38.9	39.7	41.3	41.2	39.5	38.8	38.8	37.9	33.9	28.7	34.5	35.9	37.4			
10	36.7	41.5	37.9	35.9	36.3	37.8	38.3	37.7	38.3	38.3	39.5	40.8	41.7	41.8	40.3	40.2	40.3	39.3	40.0	40.4	39.3	36.2	37.7	36.6			
11*	36.2	35.7	36.3	37.2	36.7	37.3	37.9	37.3	37.8	38.8	39.8	40.6	40.6	40.2	40.7	40.3	41.3	40.9	39.4	35.9	37.6	36.9	37.1	35.3			
12*	34.9	34.7	34.9	35.9	35.9	36.8	36.8	37.3	37.7	38.2	39.9	39.9	40.2	40.2	41.0	39.4	39.1	38.9	38.7	38.3	37.2	37.1	35.6	35.8			
13**	37.7	35.1	36.1	36.2	36.7	38.0	38.0	38.1	38.6	41.7	44.1	43.6	44.5	46.3	42.3	40.5	39.6	34.9	34.5	38.5	33.4	28.4	27.8	33.2			
14	39.7	42.3	34.3	33.2	35.6	36.6	36.3	37.5	38.6	38.9	38.6	38.8	39.4	40.9	39.7	35.5	36.5	38.1	37.7	36.1	36.7	36.2	35.8	34.7			
15	38.4	35.0	31.1	36.6	41.1	39.9	39.5	39.1	38.9	40.2	42.3	41.2	42.3	41.9	42.2	37.9	36.8	34.9	32.8	30.6	34.8	36.3	37.0	35.9			
16	36.6	36.8	37.8	39.9	35.9	37.2	37.1	37.1	37.2	37.0	37.6	39.2	39.8	40.9	41.3	40.9	39.8	38.8	37.8	37.9	36.9	35.0	35.1	34.9			
17	36.8	38.7	36.6	34.7	36.2	37.2	37.3	37.8	38.2	38.3	38.7	39.8	40.0	40.9	40.9	39.7	39.2	38.0	36.8	29.9	32.7	34.6	36.7				

MAGNETIC OBSERVATIONS, ABINGER 1941.

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
March																									
10° + Tabular Quantities																									
1**	33.9	31.5	34.5	34.7	45.8	40.4	37.0	29.9	26.3	31.2	36.9	37.9	38.2	37.6	-	-	-	-	-	23.7	28.1	17.1	27.1	19.6	
2	31.7	35.7	34.1	31.3	31.6	31.4	33.5	34.2	35.1	35.5	36.5	36.6	39.2	39.4	39.2	38.2	36.2	31.7	32.5	30.1	28.1	31.6	31.1	30.2	
3	31.8	33.3	31.3	31.3	35.0	33.7	34.1	35.7	36.1	36.5	38.4	39.7	39.7	39.7	42.1	37.5	33.7	31.1	32.1	29.3	36.6	35.7	36.1	35.6	
4	35.1	32.1	30.7	33.7	33.8	37.7	34.7	34.4	35.7	37.7	39.4	39.0	39.6	41.6	44.6	40.9	38.9	35.0	34.5	36.6	34.5	25.7	28.1	28.5	
5	33.1	33.0	32.4	31.6	32.8	32.3	34.6	35.6	36.2	37.0	37.4	40.0	42.3	41.1	41.7	36.6	40.4	37.1	29.1	30.8	31.2	26.0	31.2	31.1	
6	34.3	34.6	34.1	34.2	33.0	34.8	34.1	34.6	35.9	36.9	38.0	39.2	39.9	40.0	40.7	40.3	34.6	35.7	35.6	36.8	36.3	36.4	35.7	35.8	
7	35.1	37.1	36.6	36.1	35.1	35.7	36.0	35.6	36.1	38.4	38.4	39.1	40.7	40.6	41.0	40.6	39.0	39.5	39.4	33.2	34.1	34.2	28.4	34.8	
8	33.7	33.1	31.6	34.1	33.7	34.1	34.5	34.6	34.1	35.1	36.9	39.7	40.3	39.5	40.1	38.6	37.3	36.6	37.5	36.5	32.9	30.1	32.4	32.6	
9	35.3	38.7	34.4	33.7	34.1	33.6	35.1	35.5	35.4	35.8	37.1	40.2	41.1	41.5	40.0	38.0	36.7	36.1	36.1	33.6	30.4	33.7	32.1	32.1	
10**	30.3	33.4	33.1	31.8	31.3	32.7	34.2	33.7	33.9	35.5	37.7	40.2	41.1	40.4	39.2	38.0	36.7	36.7	35.5	36.6	36.5	33.8	34.7	36.0	
11	35.3	34.5	32.5	33.8	34.2	35.0	34.5	34.1	35.0	36.7	38.5	41.0	41.2	41.6	40.8	39.1	38.9	38.1	37.7	37.6	34.2	33.4	30.0	33.6	
12	35.7	35.6	35.7	35.0	35.1	35.1	35.5	35.7	36.1	36.9	38.2	40.1	41.5	42.0	42.4	40.2	40.8	40.5	40.5	38.5	37.3	36.7	32.3	29.4	
13	32.3	34.7	32.5	32.7	32.7	33.7	35.0	35.8	36.3	36.6	37.4	38.6	39.7	39.7	38.4	37.6	37.9	37.5	36.4	36.4	35.4	31.9	29.5	30.8	
14**	24.0	31.2	28.4	30.0	35.1	37.1	42.7	43.3	41.3	39.4	43.4	46.2	47.1	40.7	39.9	38.2	35.9	33.5	30.2	27.7	25.8	31.2	35.7	34.7	
15	33.8	34.9	35.1	36.9	36.5	35.9	36.5	36.9	39.4	38.9	41.4	41.7	42.7	42.0	39.9	38.6	36.7	36.0	32.9	33.6	35.7	34.8	35.5	35.6	
16*	34.3	33.3	37.2	36.3	36.6	36.7	35.7	34.6	33.9	34.6	36.7	38.9	40.2	40.3	39.8	38.2	36.9	36.9	37.2	37.2	36.4	36.4	35.9	35.9	
17*	35.8	35.9	36.4	37.5	35.2	34.5	34.4	34.2	34.8	35.2	37.3	40.3	41.8	41.9	40.0	39.3	39.3	37.7	37.2	36.6	35.8	35.6	34.8	35.3	
18	36.2	37.9	36.5	35.2	35.0	35.1	35.1	34.2	33.8	34.7	36.5	40.2	41.2	41.6	40.8	39.7	38.7	38.3	38.2	38.3	37.8	35.8	35.2	33.8	
19	35.0	35.9	35.8	35.2	35.6	35.0	34.4	33.8	34.1	35.2	37.8	42.0	45.6	45.6	46.4	40.2	40.2	37.0	33.7	36.2	33.1	31.9	36.3	33.2	
20	38.2	40.1	35.8	37.7	38.2	36.6	36.2	37.1	36.3	36.9	39.2	41.0	42.1	41.2	42.6	40.8	33.6	35.1	36.8	37.5	35.4	33.7	34.8	34.3	
21	39.2	36.3	38.3	40.2	36.4	34.8	33.6	36.8	36.9	37.8	38.6	41.6	41.8	40.6	38.2	38.8	34.6	34.8	28.4	27.9	28.8	33.1	35.7	36.8	
22	36.6	36.1	42.2	37.7	37.5	38.0	35.2	35.2	34.6	34.6	38.6	38.9	40.9	39.9	40.5	37.8	29.8	27.8	28.2	30.1	32.4	35.8	38.3	38.5	
23	37.1	36.1	35.7	35.7	36.0	37.0	36.0	35.6	37.0	36.6	39.0	40.9	43.3	42.1	40.9	38.1	31.9	32.2	32.2	34.8	36.7	30.4	35.5	33.6	
24	34.4	35.3	37.0	36.8	34.7	34.8	34.1	33.1	32.6	34.1	35.7	37.7	40.1	40.6	40.0	38.3	36.5	34.1	33.0	32.7	34.9	32.3	32.4	34.8	
25	35.5	35.2	35.9	36.1	36.1	35.7	34.5	35.2	33.2	33.2	35.0	38.1	40.8	41.7	41.1	39.2	37.6	36.6	34.7	32.6	35.9	36.0	35.2	36.7	
26*	36.6	36.8	36.1	35.6	35.8	36.2	35.8	33.7	32.3	33.2	35.3	38.8	40.7	41.3	40.6	39.2	37.9	36.8	36.7	36.4	36.5	35.7	36.2	36.6	
27*	36.4	36.3	36.1	36.1	35.6	35.6	34.7	32.7	31.2	32.3	35.6	39.3	42.0	42.3	41.0	39.2	37.7	36.7	36.8	37.1	37.1	37.1	37.1	37.1	
28**	36.3	30.7	25.5	31.8	33.9	31.6	33.0	31.6	30.3	31.5	41.9	43.0	48.4	50.8	50.4	48.6	41.6	40.4	33.9	31.1	27.0	31.4	28.9	34.3	
29	33.4	31.5	32.0	31.6	32.4	33.1	33.0	32.7	32.0	33.0	35.4	39.0	41.7	43.6	42.2	42.0	35.4	33.3	32.5	28.6	28.9	29.5	27.7	31.7	
30**	34.5	35.6	36.7	32.9	35.1	37.6	35.9	36.6	35.5	35.0	35.4	36.6	39.6	43.7	42.4	41.2	35.6	29.6	36.6	33.3	23.3	27.3	19.5	10.0	
31**	31.2	23.7	23.0	31.5	31.4	33.4	34.6	35.0	33.6	34.4	37.0	39.3	38.0	39.2	39.9	38.5	37.6	37.9	37.8	36.4	31.6	34.1	34.5	33.8	
† Mean	34.4	34.6	34.1	34.5	34.7	35.0	35.1	35.0	35.0	35.6	37.8	37.9	41.5	41.5	41.2	39.4	37.0	35.7	34.8	34.1	33.4	33.1	33.0	33.2	
Mean*	34.7	35.1	35.8	35.5	34.9	35.1	35.0	33.8	33.2	34.2	36.5	39.5	41.2	41.2	40.1	38.8	37.7	37.0	36.7	36.8	36.5	36.1	35.7	36.2	
† Mean**	31.5	30.3	28.4	31.6	33.9	34.9	36.6	36.6	35.2	35.1	39.4	41.3	43.3	43.6	43.2	41.6	37.7	35.4	34.6	32.1	26.9	31.0	29.7	28.2	
April																									
10° + Tabular Quantities																									
1	33.7	33.3	34.3	35.7	34.3	34.5	33.6	32.1	31.9	33.3	35.4	39.8	40.8	41.3	40.2	38.1	37.6	36.9	36.1	35.6	35.6	35.4	33.5	32.8	
2	34.6	35.2	32.0	33.1	32.4	33.2	33.3	32.4	33.6	34.6	36.6	40.3	43.5	45.6	43.2	41.2	39.7	38.1	37.2	36.8	35.6	30.0	31.9	32.7	
3	33.7	33.6	33.1	36.2	31.9	31.2	33.1	32.3	32.1	33.4	35.6	39.2	42.0	42.8	43.5	39.6	39.7	38.6	38.2	33.6	32.5	35.0	35.1	32.1	
4	33.2	33.3	34.5	34.9	34.2	35.0	34.9	33.7	32.3	34.1	37.0	40.1	41.8	41.4	40.4	38.5	37.2	36.2	35.7	35.7	35.2	34.8	34.3	35.1	
5	34.7	34.7	34.4	34.3	34.1	34.8	34.0	31.9	31.7	32.5	35.7	39.0	41.3	42.6	41.5	39.8	38.0	36.5	36.0	35.6	35.9	34.4	32.8	33.9	
6	33.2	33.5	32.5	30.8	30.7	33.1	34.1	32.5	31.9	32.5	34.8	37.8	41.6	42.6	42.4	41.2	39.4	37.8	37.4	36.9	36.2	34.4	31.2	34.0	
7**	35.6	35.3	35.2	35.2	35.1	35.1	34.2	32.8	32.3	33.2	36.5	41.2	42.7	43.7	43.8	40.8	39.1	38.7	38.0	36.8	31.5	24.1	26.7	26.2	
8	31.5	33.0	34.7	35.3	35.2	34.8	33.6	32.2	31.6	32.0	34.1	37.7	40.2	41.2	40.7	39.2	38.8	37.2	34.6	35.9	36.3	36.3	34.8	31.2	
9	31.3	33.2	34.7	33.7	37.9	38.6	36.3	33.7	32.5	33.1	35.8	38.5	42.1	45.1	44.2	42.2	39.1	37.3	36.5	36.2	36.2	35.8	35.1	34.8	
10**	35.3	35.4	35.7	37.3	36.0	35.5	35.1	35.4	33.6	32.4	34.5	37.1	40.3	41.9	42.1	40.9	34.7	38.2	32.9	31.5	35.7	34.3	22.5	31.5	
11	35.5	38.4	37.9	34.6	35.1	35.1	33.3	34.4	34.1	32.7	33.7	36.6	40.5	42.1	41.3	40.6	39.5	37.7	33.1	32.1	30.7	33.0	34.3	34.7	
12	36.6	36.4	38.5	39.3	39.3	40.4	35.4	33.6	29.9	31.0	33.5	39.4	40.7	42.1	41.5	39.0	35.6	36.0	36.0	35.7	36.0	35.8	36.0	34.3	
13	34.3	39.0	36.2	35.4	35.5	34.4	33.0	30.6	29.9	30.4	32.7	36.6	39.6	41.1	41.2	38.7	37.0	36.0	34.9	34.9	34.3	34.2	34.9	35.8	
14*	36.4	35.8	35.1	34.6	34.5	35.8	34.6	32.9	31.3	32.9	34.3	37.0	39.8	41.0	39.6	38.3	36.9	35.9	35.3	35.3	35.5	35.8	35.6	35.4	
15	35.2	35.1	34.9	34.9	34.5	34.9	34.3	33.0	32.0	32.1	34.5	37.5	40.3	41.7	40.3	39.2	38.6	37.5	36.8	36.5	36.8	36.7	36.2	35.4	
16	35.5	30.8	32.2	33.8	34.2	34.9	34.5	33.8	33.2	33.8	36.5	41.1	43.0	43.1	40.8	39.8	38.8	36.9	36.2	35.2	35.4	35.2	34.9	35.2	
17	35.4	35.3	35.1	35.5	35.8	33.8	32.7	31.9	31.4	32.2	34.9	36.7	39.0	41.0	41.3	40.4	40.0	39.0	36.5	3					

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	
May																										
10° + Tabular Quantities																										
1	34.4	34.4	34.4	34.5	34.0	33.9	32.8	31.7	31.6	32.2	34.4	37.1	40.2	41.8	42.1	41.1	40.9	39.3	36.4	34.5	32.5	29.0	31.1	32.0		
2*	32.6	32.2	30.7	29.1	27.7	28.1	28.5	29.5	29.6	30.0	32.5	36.3	38.5	40.5	41.4	39.8	38.5	36.4	35.5	35.0	32.0	32.0	32.6	29.9		
3*	30.9	31.6	30.6	29.2	30.4	28.9	28.8	29.5	30.0	31.4	34.1	36.9	39.3	39.5	38.9	38.5	38.2	37.4	36.5	36.0	34.3	33.0	34.6	34.5		
4	34.1	33.7	33.2	35.4	32.4	30.2	30.8	29.8	31.3	33.8	36.7	37.9	41.3	40.9	39.9	38.1	36.8	35.3	34.3	34.8	34.8	35.3	35.6	34.7		
5*	34.6	35.2	33.7	33.1	32.7	32.2	31.7	31.8	32.2	33.2	35.3	37.1	38.7	39.4	38.3	37.7	36.7	36.5	35.3	35.7	36.0	35.8	35.7	35.5		
6	35.0	35.1	33.9	33.1	32.0	31.0	31.1	31.6	32.2	33.1	35.9	38.1	39.4	37.9	37.9	37.4	37.1	36.7	35.2	34.0	34.8	35.7	36.1	35.6		
7	35.1	35.5	34.3	33.4	34.4	32.3	31.5	31.3	30.3	31.7	34.0	36.1	37.2	37.7	38.1	38.0	37.2	36.7	36.1	35.7	35.5	35.4	35.2	35.5		
8	35.1	35.0	34.1	33.8	33.4	33.1	32.2	31.7	32.0	34.1	38.1	41.1	42.4	43.1	39.7	38.3	38.4	38.4	37.7	35.9	33.2	33.1	34.2	35.1		
9	35.1	34.1	33.3	34.2	34.7	33.5	36.7	34.5	32.7	33.7	37.1	40.5	42.1	41.7	39.4	37.1	36.1	35.7	35.7	35.5	34.1	35.5	35.7	35.2		
10	36.5	33.9	30.3	30.1	31.1	30.7	30.1	30.7	30.8	32.0	35.4	37.7	39.4	40.0	40.3	40.0	38.6	36.9	36.0	35.6	35.5	35.6	35.5	35.5		
11	34.2	35.1	34.3	33.4	32.4	31.1	30.1	29.0	28.7	30.6	34.1	37.8	40.0	40.5	41.1	39.2	36.6	35.0	34.5	34.6	34.7	34.9	35.1	35.4		
12	35.9	36.7	35.7	34.6	33.2	32.0	30.4	28.8	28.8	31.2	34.4	38.0	40.3	41.7	40.7	40.1	39.5	38.1	37.4	36.7	35.7	33.5	32.5	32.7		
13	31.7	35.5	34.0	33.2	33.9	34.1	33.1	31.2	31.0	32.0	34.1	37.5	40.7	42.1	42.1	40.3	39.0	38.0	35.7	35.6	35.6	35.6	35.1	35.1		
14	34.7	34.6	34.1	33.9	32.4	31.7	31.1	30.1	30.2	31.8	35.1	38.8	40.7	41.5	40.3	39.1	37.3	36.6	35.4	35.6	35.7	35.6	35.4	33.2		
15	31.3	30.0	31.2	32.7	32.3	31.2	29.6	29.5	29.4	31.3	34.4	36.7	39.0	41.1	41.0	39.7	38.7	37.4	36.3	36.0	36.2	36.1	35.7	34.5		
16	30.8	30.7	31.9	33.1	35.6	33.2	32.2	34.7	32.2	33.6	36.0	38.3	40.0	41.4	40.7	41.0	40.5	38.7	37.7	37.3	36.7	36.2	35.3	34.4		
17**	34.2	34.0	33.8	34.4	41.8	43.3	41.1	37.9	34.9	33.1	36.3	37.7	39.9	41.8	39.7	38.3	38.2	37.3	36.2	35.0	33.9	34.2	33.6	33.2		
18	33.0	34.3	34.7	35.7	35.3	32.9	31.3	30.2	30.7	32.2	34.3	36.7	38.3	40.3	40.5	39.3	38.3	37.1	36.1	33.0	30.7	34.0	33.0	34.2		
19*	33.9	34.5	36.6	35.7	33.8	32.4	32.3	31.6	31.0	31.2	33.9	36.0	37.5	39.1	40.1	39.8	38.7	37.1	36.0	35.5	35.1	35.4	35.0	35.2		
20*	34.9	34.9	34.8	33.9	32.4	31.2	30.4	29.2	28.8	30.8	33.6	36.1	38.7	39.3	38.9	37.9	37.0	36.7	35.9	36.0	36.1	35.0	33.6	32.9		
21**	33.4	31.5	32.0	33.6	32.9	30.8	29.9	31.2	31.9	34.5	37.1	39.5	40.6	41.2	41.4	41.3	41.9	42.8	42.3	40.0	37.7	35.9	24.6	25.1		
22**	29.9	31.4	28.2	27.8	28.5	29.8	29.8	30.3	30.9	33.1	35.2	37.8	39.2	42.1	41.0	41.4	38.8	37.3	36.3	34.6	27.3	29.0	33.3	34.1		
23**	34.4	36.1	34.7	32.7	31.1	30.4	29.3	30.8	30.2	34.2	36.3	38.7	43.3	40.8	42.0	40.5	38.6	37.4	34.0	32.9	32.1	33.2	29.6	30.5		
24**	30.7	27.7	26.2	28.1	32.7	36.3	38.5	37.7	34.8	33.3	36.0	39.2	40.3	39.8	40.2	40.4	38.7	37.7	35.1	33.3	31.5	28.4	29.2	31.8		
25	27.0	34.1	33.2	30.9	30.9	31.1	29.8	29.2	30.6	33.1	35.5	38.1	41.0	42.0	42.0	41.5	40.5	38.1	35.8	35.1	34.8	31.9	32.2	33.6		
26	34.2	36.0	33.5	32.0	32.5	31.9	31.5	32.4	31.5	32.2	35.5	37.5	39.6	40.5	40.1	38.5	38.5	36.8	34.6	33.6	33.8	34.3	32.5	32.0		
27	32.0	32.9	33.1	32.0	32.1	31.2	29.9	30.8	31.4	31.5	33.4	36.3	40.2	41.5	41.4	39.8	39.0	38.0	36.2	33.5	33.4	33.2	33.0	33.8		
28	31.7	31.6	32.1	30.0	29.5	30.2	31.4	34.5	34.0	33.4	35.1	39.2	41.1	41.3	41.9	41.9	40.1	38.7	37.3	36.4	35.0	34.5	35.2	31.0		
29	29.8	31.7	32.1	32.2	33.2	34.4	32.1	31.3	31.8	32.1	34.3	37.0	39.8	40.8	40.4	40.7	39.5	37.2	35.3	35.4	34.9	34.1	32.8	33.4		
30	33.1	30.3	32.1	31.3	32.2	32.0	32.3	31.8	31.7	33.0	35.7	37.4	39.1	41.2	41.1	40.1	40.1	38.7	37.1	36.1	34.9	35.8	35.6	35.4		
31	35.0	33.5	27.1	26.9	28.7	29.1	30.4	30.2	30.5	31.0	32.5	35.0	36.9	39.4	39.5	39.1	39.2	38.7	37.0	31.6	35.0	35.5	35.1	34.2		
Mean	33.2	33.5	32.7	32.4	32.6	32.1	31.6	31.4	31.2	32.4	35.0	37.7	39.8	40.7	40.4	39.5	38.6	37.5	36.2	35.2	34.4	34.1	33.7	33.5		
Mean*	33.4	33.7	33.3	32.2	31.4	30.6	30.3	30.3	30.3	31.3	33.9	36.5	38.5	39.6	39.5	38.7	37.8	36.8	35.8	35.6	35.1	34.2	34.4	33.6		
Mean**	32.5	32.1	31.0	31.3	33.4	34.1	33.7	33.6	32.5	33.6	36.2	38.6	40.7	41.1	40.9	40.4	39.2	38.5	36.8	35.2	32.5	32.1	30.1	30.9		
June																										
10° + Tabular Quantities																										
1	34.7	33.1	31.7	32.0	34.5	33.2	32.9	31.2	31.9	31.9	33.3	36.4	39.2	38.6	38.7	38.7	38.8	38.2	37.2	36.7	35.9	35.6	34.7	33.3		
2*	35.5	32.2	32.2	32.6	32.5	32.0	30.8	30.2	30.1	31.1	32.9	35.0	37.3	38.1	38.5	39.0	38.3	37.3	36.3	35.5	35.3	35.3	35.1	34.5		
3*	34.0	33.8	33.6	33.4	32.3	30.9	30.4	30.0	30.2	31.5	34.0	36.3	38.2	38.7	38.8	38.9	37.8	36.9	36.0	35.8	35.8	35.9	36.0	35.3		
4*	35.1	34.5	33.4	32.2	31.7	30.7	30.8	30.8	31.4	32.9	35.2	36.8	37.7	38.2	38.6	39.1	37.9	37.3	36.6	36.6	36.4	35.6	35.1	33.8		
5*	34.2	33.7	32.9	32.4	31.4	29.8	29.8	29.4	30.7	31.9	34.6	36.4	38.1	38.9	39.3	39.0	37.8	36.8	35.8	35.4	35.8	35.5	34.8	34.2		
6	33.5	32.4	32.2	31.7	31.8	29.8	29.8	29.8	29.8	30.7	33.8	37.1	39.8	41.3	40.4	38.8	37.1	35.3	34.4	34.3	34.4	34.7	34.7	34.4		
7	34.2	34.0	33.7	33.7	32.9	31.5	30.7	30.7	30.6	31.6	34.8	38.0	41.6	43.2	42.6	41.0	39.2	37.5	35.9	35.0	35.0	34.7	35.1	35.5		
8	35.0	34.5	34.2	33.9	33.4	31.8	29.8	28.1	28.0	27.0	30.4	35.9	38.6	39.0	38.6	38.3	37.5	36.7	35.7	35.2	34.8	35.0	35.0	34.7		
9	34.4	34.1	33.6	33.1	32.5	31.0	29.3	27.9	26.9	26.0	31.9	35.9	38.5	40.5	41.2	41.2	39.8	37.8	35.3	34.8	34.8	35.4	34.8	33.8		
10**	35.3	33.3	32.8	31.2	29.4	29.3	32.8	33.3	31.8	32.0	35.4	38.6	41.1	44.0	46.0	49.5	45.6	43.5	39.6	38.0	36.5	35.5	34.0	33.6		
11**	34.5	32.0	31.5	30.8	30.4	28.1	26.2	25.5	26.5	29.3	33.8	37.9	40.2	41.0	40.6	39.0	38.8	37.9	36.9	33.1	33.0	32.7	32.1	33.3		
12	33.2	33.9	35.0	34.5	32.5	32.0	29.6	29.5	29.6	31.1	34.3	37.5	39.9	40.1	39.8	39.7	39.0	37.6	36.7	35.3	34.2	34.4	33.8	33.7		
13**	33.8	33.6	33.2	33.0	30.1	28.3	27.6	30.0	36.7	36.6	38.7	37.8	40.6	42.5	40.2	39.6	39.3	36.7	35.2	32.9	29.6	28.5	29.0	28.4		
14**	25.1	23.9	20.9	24.8	30.2	31.6	29.9	28.1	28.4	30.0	33.0	36.0	37.6	37.8	37.9	37.7	37.0	36.3	36.4	36.0	35.2	35.0	33.0	29.6		
15**	29.0	28.6	27.1	27.4	29.9	31.0	32.1	32.6	32.6	38.5	38.0	39.5	41.1	42.0	41.5	42.4	41.1	39.1	37.8	38.0	37.0	36.0	34.5	33.8		
16*	33.0	33.4	31.6	31.6	31.0	30.3	30.3	30.5	31.4	31.5	32.1	33.1	35.0	37.6	39.5	39.8	38.6	38.4	38.2	36.6	35.1	34.3	34.4	33.5		

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	
July																										
10° + Tabular Quantities																										
1	31.4	30.2	31.5	32.7	35.0	30.6	28.0	28.8	30.0	31.5	33.1	35.9	38.4	39.7	39.9	39.8	39.4	38.4	37.0	35.8	34.9	34.7	32.4	32.1		
2	32.1	32.6	36.2	34.0	31.2	30.8	30.1	30.0	31.4	30.8	32.0	33.7	34.3	35.8	37.5	37.4	36.5	35.8	35.2	34.4	34.0	34.1	33.8	34.0		
3	34.8	33.3	33.0	32.7	31.4	30.6	30.4	30.8	30.3	31.3	33.4	36.4	39.0	39.8	40.5	40.6	40.0	38.0	36.9	36.0	35.9	34.1	33.6	33.9		
4**	33.9	33.3	33.0	33.1	32.2	35.2	32.6	32.4	33.4	32.6	33.5	36.7	39.0	39.8	39.7	39.8	39.7	37.6	36.9	34.4	33.4	26.5	33.9	35.0		
5**	32.6	32.6	36.9	21.0	25.6	24.7																				
6**	30.9	33.0	31.4	29.7	29.6	29.3	29.1	29.8	29.7	32.3	33.8	35.3	37.7	38.2	37.6	35.2	33.1	32.6	33.5	32.5	30.2	34.1	29.2	28.8		
7**	30.1	26.4	37.8	35.9	40.9	31.1	29.8	27.7	29.2	31.2	32.8	33.7	35.4	37.1	36.8	35.3	34.0	33.6	34.5	34.4	33.7	32.4	31.7	32.9		
8	31.6	31.3	31.1	30.4	29.8	29.8	32.4	34.3	33.6	33.0	33.7	36.4	37.9	39.8	38.4	38.5	36.1	33.8	33.7	30.1	32.1	33.4	33.4	32.9		
9	32.5	32.0	31.0	29.8	29.6	28.0	28.1	28.2	29.3	30.8	33.0	35.4	37.9	39.3	37.4	36.5	35.6	35.7	35.2	34.8	33.9	34.6	32.4	29.9		
10	31.2	27.4	26.4	31.9	31.0	29.6	29.5	27.7	28.4	28.8	31.3	34.5	37.4	41.4	42.7	42.1	40.4	38.3	34.4	32.0	29.3	24.0	26.4	25.4		
11	30.3	31.3	31.8	30.9	30.9	29.6	29.8	31.7	32.6	31.3	32.9	34.4	37.1	37.7	38.3	37.8	36.9	36.3	34.9	34.2	33.6	33.2	32.8	33.0		
12	32.8	32.9	33.8	32.8	31.5	30.3	30.7	33.3	32.8	32.6	34.5	36.6	39.4	38.6	37.1	36.5	35.0	34.1	33.7	33.6	33.0	33.1	32.7	31.8		
13*	31.6	31.2	31.1	31.0	30.1	27.6	27.6	28.4	28.7	30.8	33.6	36.6	38.3	40.0	40.5	39.4	37.2	35.9	35.2	34.0	32.7	32.6	31.5	30.9		
14*	30.8	30.8	31.1	30.7	30.2	28.7	28.9	29.4	29.3	30.4	32.2	33.9	35.5	37.1	38.0	37.7	36.9	35.0	33.6	33.4	33.0	31.0	32.4	32.7		
15	32.3	31.5	31.0	30.4	29.8	28.1	27.1	28.1	28.7	30.4	33.5	37.0	38.3	38.8	38.4	38.4	37.7	36.8	36.4	35.9	35.1	34.4	33.9	33.1		
16	33.2	31.5	31.3	28.9	28.1	25.3	28.4	29.2	29.4	29.9	32.0	34.3	37.4	39.8	42.2	40.4	39.9	38.5	36.3	35.3	33.5	30.4	29.6	28.0		
17	30.3	32.4	30.8	29.5	30.4	29.8	28.3	27.7	28.9	29.9	32.7	35.8	37.8	38.5	39.2	38.4	37.4	35.7	32.4	33.4	33.7	32.9	32.4	32.4		
18	35.0	31.4	29.4	29.9	29.5	28.1	26.9	26.3	26.3	28.4	30.9	33.5	36.1	37.5	37.6	37.0	35.8	34.0	33.4	33.3	32.8	32.9	31.9	32.3		
19	32.1	32.1	34.2	30.3	27.7	26.9	27.7	28.0	27.8	29.6	33.1	36.6	38.7	38.3	37.8	37.4	36.0	34.5	34.4	33.9	33.4	33.5	32.9	30.3		
20	31.3	31.4	30.4	29.8	28.5	28.3	28.4	25.7	26.2	28.5	30.5	34.0	36.9	38.5	38.8	36.8	35.5	34.1	33.4	33.4	30.9	30.4	32.6	33.2		
21**	32.9	31.6	32.3	29.0	27.6	34.6	37.4	34.2	32.3	36.5	37.9	38.5	38.5	39.5	38.3	37.2	35.6	34.9	34.3	28.1	24.5	31.7	33.1	33.4		
22	32.0	32.5	33.1	31.7	28.0	28.9	29.6	28.8	28.2	28.4	30.0	33.4	37.8	39.3	41.0	39.4	36.3	34.4	34.5	34.9	34.8	34.8	34.1	32.4		
23	32.1	34.9	31.3	31.7	31.3	30.6	32.4	31.5	31.4	31.3	33.3	36.3	39.5	41.4	40.1	38.0	36.0	33.6	33.4	33.2	33.6	33.4	33.4	31.0		
24	27.8	28.0	28.5	27.8	27.7	27.4	27.2	26.6	26.8	29.2	32.7	35.2	38.0	40.8	39.4	37.4	36.8	35.3	34.8	33.8	32.5	31.5	30.7	32.1		
25	32.4	33.1	32.4	30.6	28.8	26.3	25.8	29.2	29.4	30.2	31.2	33.5	35.9	37.0	38.0	37.4	36.0	33.8	33.0	32.0	32.4	32.3	31.5	32.2		
26*	32.0	32.0	32.4	31.4	30.9	29.3	28.0	27.4	28.1	29.8	32.8	36.2	38.7	39.4	39.9	39.3	38.0	36.7	34.7	33.8	32.4	31.9	31.8	31.3		
27*	31.6	31.3	30.9	30.8	29.6	28.4	27.4	27.0	26.9	28.0	30.0	32.6	36.1	39.4	41.0	40.0	36.8	34.8	33.4	33.0	32.9	32.8	31.4	31.8		
28	30.8	30.6	30.7	30.5	30.1	29.8	30.3	29.8	30.2	31.5	34.0	37.4	41.5	42.2	41.0	39.0	37.2	35.7	34.9	34.5	33.9	33.1	32.8	32.4		
29*	31.9	32.2	31.3	31.4	30.8	29.4	28.1	27.9	27.7	29.3	31.9	35.0	36.9	38.6	39.3	38.4	36.8	34.6	33.4	33.4	33.5	33.4	32.8	33.3		
30	31.3	30.9	30.6	29.6	28.8	27.8	27.5	27.4	28.6	29.6	32.1	35.3	38.1	40.5	40.9	39.8	37.6	36.0	34.9	34.9	34.2	33.3	33.1	32.4		
31	32.3	32.7	32.2	31.8	30.7	28.9	29.1	29.8	29.3	30.6	34.0	36.9	40.4	41.6	40.8	38.2	35.5	33.9	33.9	33.8	33.7	31.0	29.3	30.9		
† Mean	31.8	31.5	31.7	31.0	30.4	29.3	29.2	29.2	29.5	30.6	32.7	35.4	37.8	39.2	39.3	38.3	36.9	35.4	34.5	33.7	32.9	32.4	32.1	31.9		
Mean*	31.6	31.5	31.4	31.1	30.3	28.7	28.0	28.0	28.1	29.7	32.1	34.9	37.1	38.9	39.7	39.0	37.1	35.4	34.1	33.5	32.9	32.3	32.0	32.0		
† Mean**	32.0	31.1	33.6	31.9	32.6	32.6	32.2	31.0	31.2	33.2	34.5	36.1	37.7	38.7	38.1	36.9	35.6	34.7	34.8	32.4	30.5	31.2	32.0	32.5		
August																										
10° + Tabular Quantities																										
1	30.8	30.8	31.0	31.2	30.6	29.6	29.7	30.0	30.8	33.0	33.5	36.2	39.5	41.2	39.9	38.8	36.7	36.4	35.8	32.6	32.4	30.4	31.5	30.8		
2**	32.6	29.0	37.5	29.5	30.7	30.5	32.0	35.5	32.8	33.1	34.1	35.9	39.1	39.0	39.4	34.9	34.1	34.1	32.6	32.5	34.5	35.5	36.5	36.3		
3	35.1	33.0	30.5	30.5	30.4	31.1	32.4	31.0	30.5	31.4	33.6	36.3	38.2	38.6	37.3	36.1	32.3	29.6	31.8	31.6	32.1	30.0	32.5	33.1		
4**	32.6	31.5	26.6	27.5	32.7	25.3	27.5	23.1	29.2	36.1	37.3	38.1	40.9	44.7	46.0	40.8	39.5	28.5	31.8	32.5	30.5	26.2	25.5	23.7		
5	36.0	23.8	25.3	23.4	25.0	23.5	23.5	24.4	26.5	28.7	31.5	35.5	38.6	40.7	41.2	40.5	36.6	35.0	33.4	33.0	28.3	30.9	31.5	32.0		
6	30.6	30.9	28.2	27.9	26.5	25.2	29.5	28.5	29.9	31.2	34.5	38.3	40.7	41.1	40.5	38.1	35.8	34.7	32.2	31.5	31.1	30.0	31.0	33.0		
7	23.0	20.6	24.6	26.0	29.0	28.5	27.9	29.5	30.6	32.3	35.0	38.5	39.4	40.3	39.6	38.0	35.8	33.1	32.5	33.6	33.6	32.4	28.9	30.9		
8	30.6	31.0	30.7	29.9	30.2	30.0	30.2	28.8	29.0	30.6	33.2	36.7	38.9	39.7	39.4	37.0	34.4	33.2	32.6	32.6	32.5	31.4	31.6	31.6		
9*	32.1	32.0	32.0	31.6	31.5	30.1	28.7	27.1	25.9	27.4	30.7	35.0	38.6	39.5	38.6	37.5	36.2	35.0	33.6	33.4	33.1	32.6	31.5	32.1		
10*	31.7	31.6	32.8	32.0	31.0	29.6	29.2	28.6	28.6	30.2	32.1	35.6	38.3	40.2	40.6	38.3	36.0	33.8	33.5	33.6	33.6	33.5	33.0	32.6		
11	31.1	29.4	30.4	30.7	30.7	28.4	36.1	25.6	27.4	29.7	32.1	35.7	39.1	39.7	40.3	39.4	37.2	35.0	33.6	30.6	32.0	32.2	31.4	29.6		
12	30.7	30.1	30.7	30.3	28.9	27.3	28.1	27.6	28.0	30.4	32.6	36.2	39.9	40.8	39.6	38.4	36.2	34.2	33.2	33.2	33.6	32.2	31.5	29.6		
13	28.5	29.2	30.7	31.6	29.2	28.0	28.6	28.6	28.4	29.9	32.6	35.8	39.0	40.0	40.0	40.4	38.5	35.1	32.9	33.1	33.3	33.0	33.1	32.4		
14	29.2	29.2	30.2	29.9	32.4	31.3	29.7	29.0	29.8	30.7	32.7	35.8	38.6	40.6	40.5	39.0	36.2	34.1	33.5	33.5	32.7	31.9	32.2	32.3		
15	32.1	29.8	28.7	29.1	28.3	28.2	28.8	29.4	29.8	31.2	33.7	36.2	38.3	38.6	37.6	35.8	35.0	33.7	33.1	32.6	32.6	32.4	32.2	32.1		
16*	31.7	31.6	31.6	31.4	30.7	30.6	29.5	29.2	29.2	29.8	32.0	36.1	38.2	40.4	39.0	37.2	35.5	34.0	32.0	31.3	31.7	32.0	32.0	31.6		
17*	31.5	31.0	28.8	29.4	30.3	29.6	29.4	29.0	28.9	30.5	32.5	35.3	38.4	39.0	38.1	36.5	35.1	33.6	33.0	33.1	33.1	33.1	32.9	31.4		
18	31.3	31.6	31.4	31.1	30.2	29.7																				

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																														
September																														
1	31.3	31.2	32.0	30.4	30.1	27.8		28.8	28.2	28.6	29.1	31.0	35.6	38.2	40.1	41.0	38.1	33.7	31.5	29.2	30.6	32.1	32.1	31.8	30.8					
2	31.9	32.5	30.8	30.0	29.0	28.0		25.7	27.5	28.3	30.0	33.8	37.0	38.6	38.5	36.9	34.6	32.6	32.5	32.6	32.0	29.9	31.1	30.8	33.2					
3	35.5	31.6	30.1	29.4	28.6	28.2		27.6	27.7	28.9	30.8	33.6	35.8	37.8	38.2	36.7	35.0	33.6	32.6	32.5	32.4	32.1	32.0	32.3	31.1					
4*	31.9	31.5	30.5	29.7	29.1	28.6		27.4	27.1	28.7	31.1	34.2	37.6	39.3	39.5	37.7	35.4	33.3	32.1	32.7	33.5	33.2	32.1	31.1	32.0					
5*	31.6	31.0	31.4	31.2	30.3	30.0		29.2	28.5	28.7	31.0	33.2	35.9	37.1	37.3	36.0	34.2	33.1	32.6	32.5	32.5	32.2	32.2	32.0	31.7					
6*	31.5	31.1	31.1	30.6	30.3	30.5		30.1	29.5	29.5	30.8	34.4	37.5	38.7	39.0	38.1	36.0	34.5	34.0	34.1	33.5	33.3	31.7	31.7	31.7					
7	32.0	31.6	31.4	31.6	31.0	28.7		28.2	26.5	26.6	30.7	33.2	37.0	40.3	43.3	42.8	36.8	37.3	35.0	32.4	33.2	29.0	24.4	29.6	30.2					
8	30.7	29.6	29.0	27.0	27.6	27.9		27.7	28.8	28.6	29.6	31.3	34.9	37.6	37.6	36.4	36.1	35.0	33.6	33.1	32.5	30.6	29.7	28.1	26.1					
9	29.1	28.8	31.4	29.2	29.0	29.2		29.1	29.2	29.0	29.7	32.2	34.8	37.3	37.9	37.1	35.6	34.4	33.4	32.9	32.0	31.2	30.9	30.4	33.6					
10	29.5	28.5	30.1	31.1	31.3	31.2		29.4	28.4	28.7	30.2	32.5	35.6	38.4	39.4	38.8	36.5	34.0	33.2	31.8	30.9	32.1	32.3	32.2	32.1					
11	31.6	31.1	29.6	29.8	29.5	28.3		28.0	27.6	27.4	29.6	32.5	37.3	41.3	43.3	41.8	38.4	35.4	33.6	32.5	31.3	31.0	29.7	29.6	32.2					
12*	31.7	30.9	32.0	32.2	30.9	30.3		29.6	28.6	28.2	29.3	32.6	35.9	38.4	39.1	37.7	35.5	33.8	32.7	32.6	32.6	32.5	31.8	31.8	31.7					
13**	31.6	31.4	31.3	31.1	30.6	30.4		29.6	28.1	27.6	29.5	33.1	36.6	39.7	41.2	42.7	40.1	38.7	35.5	31.2	32.9	32.7	26.6	27.2	33.0					
14	29.6	31.6	30.9	32.1	33.1	33.6		33.6	34.6	33.6	32.7	34.0	35.6	38.1	37.1	35.7	32.1	32.0	32.0	30.6	29.1	29.2	23.1	20.6	24.6					
15**	34.5	29.1	27.7	26.6	27.6	30.1		29.8	29.6	28.7	29.5	32.5	35.2	36.6	37.2	35.6	35.1	35.1	34.5	27.9	22.1	26.6	22.7	29.3	30.2					
16	29.7	32.1	25.9	26.1	28.6	32.5		30.2	27.5	26.7	27.7	30.3	33.3	35.7	36.6	36.6	35.9	34.6	33.1	32.3	28.7	32.5	32.3	30.9	28.0					
17	27.7	28.7	28.3	27.1	27.1	28.0		28.5	27.5	25.5	28.1	31.4	34.8	37.7	38.6	36.9	36.1	35.0	30.2	32.2	33.6	32.8	32.6	32.2	32.2					
18**	32.4	32.3	31.6	30.9	32.5	31.6		29.0	24.4	27.4	35.4	25.5	19.6	34.3	44.0	47.1	38.0	25.5	33.0	12.4	21.9	9.6	10.8	+20.6	-14.8					
19**	-11.8	-5.1	-10.5	+2.9	12.8	29.6		34.7	46.6	40.8	30.9	31.2	32.6	34.8	32.1	33.3	33.9	33.4	33.6	33.3	27.7	33.9	29.0	28.3	27.5					
20**	29.7	29.9	26.9	25.3	25.3	25.1		25.9	26.6	28.6	31.9	34.5	37.1	40.3	38.6	37.9	35.3	32.4	30.4	29.9	30.5	30.4	29.8	30.2	30.2					
21	30.2	30.1	28.9	33.2	27.4	28.0		30.3	29.9	30.9	32.4	33.9	37.9	36.5	38.9	37.8	32.1	31.6	32.5	32.3	32.1	31.6	31.1	31.0	30.5					
22*	30.1	29.9	29.5	29.5	29.3	28.9		29.3	28.7	28.3	29.1	31.0	34.5	36.8	37.2	36.3	34.8	32.9	32.1	32.2	31.6	30.9	30.6	30.9	30.9					
23	30.6	30.7	30.0	29.9	30.0	29.9		29.0	27.2	27.9	28.9	31.5	35.3	39.6	41.9	42.9	41.5	37.4	35.5	33.8	33.1	30.5	30.4	30.5	30.5					
24	32.8	29.6	26.9	27.4	29.7	30.2		28.6	28.4	28.3	29.1	32.3	37.1	41.0	42.3	40.1	39.4	37.5	35.3	28.2	24.0	22.9	20.9	19.5	27.9					
25	17.2	24.8	27.2	28.4	30.8	29.5		28.5	28.1	28.2	31.3	33.8	37.5	38.5	36.3	36.6	36.1	33.3	31.8	31.4	27.4	21.8	28.7	29.0	29.9					
26	29.8	30.1	30.2	30.4	30.5	30.4		29.4	27.9	27.1	27.3	29.8	33.2	36.0	36.5	36.3	34.5	33.3	32.5	32.4	31.9	31.7	31.1	29.8	30.0					
27	31.4	29.3	29.9	28.1	29.0	29.8		30.6	32.4	31.9	32.7	36.9	39.5	39.5	39.6	37.1	35.9	30.9	30.9	31.0	31.0	31.4	31.4	31.4	30.3					
28	29.9	30.1	29.2	29.3	29.5	28.9		28.4	27.8	26.7	27.4	30.4	33.8	35.5	36.4	36.0	34.8	33.8	34.0	34.4	32.7	31.3	28.1	25.7	30.8					
29	30.8	30.8	30.1	28.9	29.9	29.2		30.3	28.4	28.3	29.7	31.2	34.8	36.2	36.2	35.8	36.1	35.1	33.4	32.3	32.2	30.7	30.2	27.8	28.3					
30	29.3	31.6	29.6	27.8	28.6	29.3		28.6	27.9	27.7	28.5	33.1	35.5	36.1	35.4	35.1	35.0	33.4	32.5	31.6	29.6	23.9	28.0	30.4	30.2					
† Mean	30.5	30.3	29.7	29.4	29.4	29.4		29.0	28.5	28.5	29.9	32.7	36.0	38.1	38.7	37.9	36.0	34.2	33.0	31.9	31.1	30.4	29.6	29.6	30.5					
Mean*	31.4	30.9	30.9	30.6	30.0	29.7		29.1	28.5	28.7	30.3	33.1	36.3	38.1	38.4	37.2	35.2	33.5	32.7	32.8	32.7	32.4	31.7	31.5	31.6					
† Mean**	31.9	30.1	28.6	27.7	27.8	28.5		28.4	28.1	28.3	30.3	33.4	36.3	38.9	39.0	38.7	36.8	35.4	33.5	29.7	28.5	29.9	26.4	28.9	31.1					
10° + Tabular Quantities																														
October																														
1	30.3	29.9	29.7	29.6	28.8	28.7		29.4	28.6	27.3	27.6	29.6	33.4	36.2	36.3	35.6	34.1	33.0	32.0	31.3	30.7	30.8	30.6	31.1	31.3					
2	31.5	30.7	30.5	30.4	29.5	29.5		29.4	28.6	27.8	28.5	30.8	33.1	34.3	34.8	34.9	34.3	33.8	33.3	32.7	32.0	29.0	30.2	26.7	26.6					
3	25.9	28.3	30.1	30.2	29.5	29.6		29.5	28.8	28.4	29.6	32.0	34.5	36.3	36.6	36.0	35.0	34.0	33.0	32.5	32.0	31.4	30.9	30.1	30.4					
4*	31.6	30.6	30.7	30.4	30.1	29.8		29.2	27.9	27.6	28.9	30.6	32.8	35.2	36.5	36.5	34.9	34.5	33.9	33.3	32.8	32.3	31.4	30.7	27.8					
5	25.7	26.8	27.7	29.1	30.2	30.2		29.3	27.6	28.4	28.8	32.2	35.1	36.8	36.9	36.8	34.4	33.6	32.4	32.4	31.8	31.4	31.3	31.0	29.8					
6*	29.2	29.5	30.4	30.8	30.7	30.6		30.1	29.6	29.7	30.8	31.8	35.3	37.7	37.5	36.2	34.6	33.4	33.1	32.6	32.6	32.0	30.9	30.8	31.0					
7*	31.1	30.6	30.2	30.1	29.9	29.6		29.2	28.6	27.6	28.0	30.2	33.1	34.6	35.1	35.0	34.0	33.2	33.2	33.3	33.3	32.4	31.8	31.5	31.3	30.8				
8	29.5	29.5	25.4	28.2	26.9	28.8		28.5	27.6	26.2	26.4	29.1	32.1	34.0	35.5	36.1	34.7	33.7	32.5	32.6	31.6	30.8	28.0	29.4	30.5					
9	30.8	30.9	30.5	30.9	31.3	29.5		29.2	27.7	27.2	28.2	30.8	34.0	36.4	36.8	35.7	34.3	33.3	32.9	32.8	32.5	30.8	29.3	30.7	30.3					

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**	6.9	16.4	15.9	20.9	35.6	36.9	39.2	38.4	31.5	31.3	31.8	31.9	34.3	35.4	27.5	34.1	38.0	33.1	31.7	29.9	28.9	29.5	29.4	29.5	
2	29.4	29.4	29.8	29.9	30.0	29.9	29.9	29.2	27.8	27.4	29.1	30.4	30.9	31.3	30.8	29.8	29.8	30.3	30.4	29.9	26.6	25.9	25.8	25.4	
3	27.7	29.6	30.3	30.7	29.8	29.3	29.7	29.4	28.5	28.7	30.0	31.9	34.8	35.3	34.7	34.2	32.4	31.4	30.4	29.7	29.4	29.2	27.3	28.7	
4*	29.6	28.5	27.6	27.5	27.6	28.6	28.9	28.9	28.3	28.7	29.9	32.5	33.4	32.9	32.4	32.3	31.9	31.5	30.9	30.6	31.3	31.3	30.7	30.5	
5	28.9	28.9	29.6	30.7	30.1	30.1	29.7	29.7	29.3	29.2	30.7	32.5	33.3	33.0	33.5	32.5	33.0	26.0	31.0	31.1	24.9	21.2	24.4	29.4	
6**	31.5	32.8	30.8	32.3	32.6	35.5	36.2	35.4	33.4	35.5	34.8	35.9	36.9	35.9	31.5	36.2	25.1	25.6	24.5	22.0	24.8	25.3	26.8	24.7	
7	32.4	31.9	29.7	30.8	30.8	31.0	31.0	29.2	29.4	29.7	30.5	33.7	34.8	33.8	33.4	32.3	26.4	22.3	24.3	25.4	26.7	27.3	25.9	26.5	
8	29.1	29.2	28.9	33.6	32.0	31.8	31.8	30.4	29.8	29.7	30.3	31.4	33.4	32.8	28.4	31.4	31.8	30.8	20.8	28.4	29.7	29.3	29.0	28.7	
9	30.1	29.1	30.1	30.7	30.8	30.7	30.4	29.3	28.4	28.9	31.2	33.1	35.5	35.0	32.6	30.6	34.4	32.1	31.0	30.4	28.0	29.1	29.6	29.5	
10**	30.0	28.6	28.6	27.3	28.9	29.6	30.2	30.3	29.7	29.6	30.7	32.3	34.6	36.2	36.2	35.2	34.0	28.6	29.1	28.0	28.6	27.9	28.1	26.0	
11	16.2	19.4	26.5	27.3	29.6	30.3	30.2	29.5	29.3	31.0	31.9	33.7	35.1	34.2	33.3	31.8	32.0	27.3	26.1	30.4	26.9	28.0	26.1	26.1	
12	28.5	29.6	30.4	31.0	30.9	31.7	32.0	30.9	29.1	29.2	30.5	32.0	33.1	32.8	32.7	32.0	31.4	31.5	29.8	29.2	28.9	24.7	26.8	27.8	
13	29.2	30.2	30.7	30.8	30.8	30.8	31.3	30.7	29.5	29.6	31.8	33.5	34.5	34.7	34.2	33.1	32.7	30.0	30.6	30.1	29.6	29.6	29.1	27.1	
14	28.2	28.7	30.1	30.5	30.1	30.7	30.7	30.2	28.6	28.8	30.6	32.6	33.2	32.2	32.7	32.0	31.9	31.6	29.8	30.7	30.2	29.0	28.6	28.6	
15*	29.6	30.2	30.6	30.6	30.2	30.2	30.1	29.6	29.0	29.3	31.6	33.6	33.8	33.9	32.4	31.7	32.2	31.6	31.0	30.2	30.6	29.8	29.7	30.3	
16*	30.4	30.6	30.5	29.5	29.9	30.5	29.6	29.1	28.8	29.6	32.1	33.9	34.5	33.6	32.5	31.6	32.1	31.2	31.0	30.9	30.8	28.5	26.6	28.4	
17**	28.9	29.6	27.5	30.0	30.1	30.6	32.6	31.2	30.2	31.0	32.1	34.5	34.9	37.3	35.5	27.5	35.5	29.4	19.1	26.5	19.3	18.5	27.3	28.4	
18	30.5	30.3	30.4	31.1	30.9	29.7	29.1	29.3	28.7	28.6	31.6	34.1	34.6	34.8	34.8	33.1	28.7	33.2	30.7	25.7	26.9	29.6	29.7	27.6	
19	24.1	34.9	29.6	28.7	29.2	30.2	29.8	29.1	28.8	29.5	31.2	34.3	34.1	32.8	32.6	32.2	32.0	31.6	31.3	30.4	29.1	28.3	25.6	26.9	
20	30.3	31.2	31.0	31.0	30.6	30.5	30.5	30.2	29.9	30.4	32.2	33.7	34.0	33.6	32.6	32.4	32.7	32.6	32.5	31.0	28.3	29.8	28.7	28.0	
21	26.5	25.8	28.1	31.1	29.3	29.2	29.4	29.5	29.7	30.3	31.4	32.4	32.5	33.1	33.9	32.1	32.5	31.7	31.6	29.3	29.3	26.5	26.0	25.6	
22	30.1	29.0	28.9	29.9	30.4	30.5	30.4	30.4	30.4	30.8	31.5	31.8	33.1	33.9	33.4	30.8	30.3	33.9	33.1	31.2	24.6	24.0	24.1	26.5	
23	25.1	24.6	25.6	27.3	30.3	30.5	30.0	29.9	29.6	28.9	29.9	32.9	33.3	32.5	32.9	31.2	32.2	31.7	31.1	30.8	29.7	27.5	24.6	25.6	
24*	27.3	29.4	30.1	30.3	30.7	30.9	30.8	31.2	30.7	30.1	30.0	31.2	31.7	32.1	32.2	32.2	32.3	31.8	31.6	31.7	30.6	27.7	29.3	29.4	
25	29.5	29.5	30.0	30.6	30.5	30.6	31.1	30.9	30.0	30.1	30.2	31.2	31.1	31.5	31.1	31.5	32.1	31.6	31.2	31.9	26.4	28.7	29.1	29.6	
26*	29.5	30.0	30.1	29.9	30.5	30.5	30.6	30.6	30.6	30.7	31.1	31.6	31.8	31.2	31.6	31.9	31.7	31.5	30.6	30.4	30.3	29.9	29.8	29.6	
27	29.9	29.9	29.6	30.4	29.6	30.1	33.0	31.0	31.1	32.1	32.6	34.1	34.9	34.0	32.5	32.2	31.6	32.1	31.5	30.5	30.0	29.4	28.6	29.0	
28**	29.1	29.0	22.6	19.4	18.2	25.4	34.7	35.8	32.5	33.5	32.5	29.8	31.3	31.0	30.9	29.7	31.5	34.4	23.5	26.1	29.5	26.9	28.5	29.2	
29	28.0	27.5	27.5	27.5	27.5	28.5	28.9	30.3	32.4	32.4	33.4	33.8	35.4	33.9	32.7	31.4	30.9	30.3	30.1	29.6	28.9	28.8	28.4	28.6	
30	28.0	28.0	28.9	28.8	28.9	29.1	28.9	28.6	28.6	29.5	31.2	32.5	32.8	31.7	31.1	32.1	32.1	31.6	32.1	31.1	28.0	29.1	28.2	28.6	
Mean	27.8	28.7	28.7	29.3	29.9	30.5	31.0	30.6	29.8	30.1	31.3	32.8	33.7	33.6	32.6	32.0	31.8	30.7	29.4	29.3	28.2	27.7	27.7	28.0	
Mean*	29.3	29.7	29.8	29.6	29.8	30.1	30.0	29.9	29.5	29.7	30.9	32.6	33.0	32.7	32.2	31.9	32.0	31.5	31.0	30.8	30.7	29.4	29.2	29.6	
Mean**	25.3	27.3	25.1	26.0	29.1	31.6	34.6	34.2	31.5	32.2	32.4	32.9	34.4	35.2	32.3	32.5	32.8	30.2	25.6	26.5	26.2	25.6	28.0	27.6	
December	10° + Tabular Quantities																								
1**	28.5	28.9	26.4	27.6	28.0	29.7	30.6	28.8	32.3	31.7	30.1	31.6	33.2	36.6	33.1	32.3	25.6	20.6	24.6	16.0	20.6	20.6	19.9	28.1	
2**	26.7	25.6	25.6	28.7	35.2	30.7	26.4	27.6	27.7	28.7	29.5	31.5	32.1	32.0	33.7	32.9	32.2	27.4	28.7	29.4	29.4	28.6	29.0	29.3	
3	29.5	29.6	29.8	30.2	28.8	28.6	29.0	28.6	28.6	28.7	29.0	29.8	30.6	31.1	31.4	32.0	32.1	33.6	32.7	30.4	26.5	23.4	25.7	25.5	
4	26.6	26.2	29.5	29.4	30.0	29.9	30.5	30.5	30.6	31.8	31.7	32.4	32.4	32.5	32.9	33.4	32.0	32.3	32.1	28.9	28.5	26.0	28.3	28.6	
5	28.5	29.4	28.9	29.2	30.0	29.5	28.5	28.5	29.3	29.5	30.7	30.9	31.4	31.8	31.3	31.8	33.6	35.0	33.5	29.3	28.7	28.3	24.4	25.3	
6	30.2	29.6	29.1	29.7	31.6	31.6	30.1	30.0	29.1	29.1	29.2	30.3	31.5	32.2	32.6	32.1	28.2	29.3	29.8	29.0	28.1	28.9	27.7	28.6	
7	28.7	29.7	30.7	31.4	30.7	30.1	29.7	29.7	29.1	29.9	30.7	32.6	32.7	32.7	31.7	31.3	30.3	29.7	29.4	27.8	28.2	27.4	26.8	25.9	
8	28.2	29.7	29.3	30.2	30.6	30.1	29.8	29.7	29.3	29.3	30.3	31.2	32.0	32.6	31.8	30.8	30.8	32.0	30.6	29.6	29.1	28.1	27.2	26.3	
9	28.7	29.2	30.0	30.2	30.2	30.6	30.0	30.2	29.3	29.2	30.2	31.0	33.5	33.0	33.3	32.1	30.9	30.3	30.3	29.7	29.1	27.7	27.2	28.1	
10	28.6	28.5	29.7	29.7	29.6	29.6	29.7	29.6	29.1	28.9	30.2	31.5	32.1	32.0	31.7	32.2	32.5	30.5	29.7	29.4	29.3	28.9	28.2	28.7	
11*	29.4	29.5	30.1	31.0	29.9	29.7	29.7	29.7	29.6	30.0	31.5	32.4	32.8	32.5	32.1	31.5	31.3	30.4	30.1	30.1	29.8	30.0	29.8	29.9	
12*	29.9	30.3	30.5	31.1	31.0	29.9	30.2	30.3	29.6	30.5	31.6	32.6	32.6	31.7	32.2	31.7	31.6	30.3	29.0	29.6	28.7	28.8	28.6	29.2	
13	29.2	29.0	29.7	30.0	30.6	30.7	30.6	30.6	30.6	31.2	32.5	33.1	34.2	34.6	34.6	34.7	35.6	35.5	26.7	25.0	27.3	25.6	27.4	27.6	
14**	24.3	24.2	29.9	34.5	29.4	29.5	29.9	30.5	30.9	31.9	33.8	33.5	34.1	32.5	31.1	29.2	31.0	28.9	27.5	22.5	23.2	18.5	24.4	28.0	
15	29.0	31.5	31.3	30.6	29.5	29.8	30.5	29.6	28.9	29.8	30.9	31.6	31.7	31.7	31.5	30.9	30.5	30.1	29.7	29.4	29.0	26.3	26.6	28.7	
16**	29.5	28.9	29.3	26.3	27.4	26.5	27.0	28.5	28.9	29.8	31.4	32.1	32.5	32.7	32.4	33.0	32.2	31.1	30.4	29.5	28.9	28.9	28.7	28.9	
17	29.9	29.9	28.9	28.4	29.9	28.9	28.9	29.4	30.7	30.3	30.9	31.0	32.3	32.5	33.0	32.4	33.2	30.9	31.1	29.3	26.5	25.0	24.0	27.4	
18	28.9	29.0	29.8	30.4	29.6	30.5	31.0	29.5	30.5	29.4	29.4	31.5	31.5	32.7	33.0	34.0	32.9	32.1	30.4	29.5</					

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	534	532	538	543	545	538	543	546	550	543	541	543	544	536	521	494	497	519	532	528	544	519	522	530		
2	526	526	544	534	540	546	546	547	547	539	532	531	528	522	530	536	537	544	545	546	548	544	543	538		
3	537	542	544	546	548	550	551	552	556	555	552	547	546	539	544	548	553	555	555	555	562	551	543	537		
4	541	530	537	538	546	558	559	562	554	537	528	532	534	531	530	530	533	542	547	550	547	547	545	546		
5*	545	547	548	550	553	555	558	560	561	559	557	551	546	550	550	545	557	563	571	572	572	569	561	558		
6	550	564	544	535	534	526	520	558	554	545	530	521	519	535	537	542	550	546	546	544	540	541	537	537		
7	533	532	528	533	541	543	546	547	545	544	540	541	541	544	547	542	510	507	495	512	534	537	535	521		
8	523	527	527	531	538	539	538	543	536	530	527	532	541	544	549	549	548	545	545	547	547	549	545	535		
9	531	530	531	534	544	549	559	545	540	539	535	525	520	515	504	526	542	547	538	527	541	538	538	538		
10	553	540	536	535	537	544	545	545	542	539	532	531	542	535	537	539	543	546	548	539	536	550	542	533		
11	541	540	537	536	540	546	545	548	548	542	527	526	535	523	529	536	542	547	536	530	531	534	535	532		
12	537	536	536	538	544	544	546	545	539	537	532	532	533	529	526	539	545	545	547	549	547	548	554	536		
13	541	545	546	547	544	542	542	545	553	554	547	550	553	550	549	551	555	556	551	547	541	539	538	542		
14*	544	545	544	547	549	551	549	550	552	552	547	547	551	554	558	556	555	555	556	551	553	550	537	526		
15*	534	542	548	546	549	548	550	560	562	563	558	557	556	556	563	562	558	556	554	556	553	551	553	551		
16	552	554	556	560	563	565	566	566	569	560	547	537	536	536	534	519	531	545	544	542	545	549	553	551		
17**	540	555	537	536	541	552	559	556	550	550	546	548	553	532	521	516	483	514	494	506	490	497	500	528		
18**	537	527	523	517	532	544	537	532	539	537	514	531	532	530	532	530	515	500	493	520	519	530	546	570		
19	548	524	526	525	525	533	547	544	525	519	518	511	529	524	513	525	525	520	528	541	544	552	548	554		
20	530	530	531	537	540	544	543	538	541	538	539	533	532	537	541	546	550	551	552	556	550	566	554	544		
21*	545	548	549	548	556	559	562	561	555	543	537	537	539	544	550	553	554	552	551	550	548	554	549	547		
22	547	548	548	556	557	559	559	561	562	553	547	546	547	554	559	562	560	555	547	531	533	573	555	544		
23**	548	557	544	548	549	553	557	561	542	532	532	525	516	508	523	496	483	492	516	531	529	514	522	537		
24**	538	535	536	538	537	528	549	550	547	534	528	514	489	493	521	519	483	502	505	503	530	562	520	522		
25**	535	535	535	535	544	557	536	537	534	537	507	528	532	521	521	519	520	534	529	541	532	539	537	552		
26	525	523	526	532	540	546	543	551	548	541	522	524	519	523	528	536	525	541	543	542	528	570	546	541		
27	541	548	549	546	548	556	559	550	550	545	521	528	532	534	537	532	521	532	525	549	546	537	548	565		
28	531	535	543	546	550	552	556	556	550	534	530	532	533	531	544	545	546	542	544	564	547	555	541	546		
29	546	546	543	545	549	552	553	551	543	537	532	534	541	546	547	547	549	542	549	551	548	550	547	555		
30	547	544	547	546	550	550	554	555	547	545	539	538	530	525	528	523	517	519	530	537	538	539	546	543		
31*	543	542	541	544	548	551	554	548	547	547	546	544	544	548	550	548	548	550	550	550	549	549	547	548		
Mean	540	540	539	540	545	548	549	551	548	543	535	535	535	534	536	536	533	538	538	541	541	545	542	542		
Mean*	542	545	546	547	551	553	555	556	555	553	549	547	547	550	554	553	554	555	556	556	555	555	549	546		
Mean**	540	542	535	535	541	547	548	547	542	538	525	529	524	517	524	516	497	508	507	520	520	528	525	542		
February																										
18000 γ + Tabular Quantities (in γ)																										
1*	546	546	549	550	552	553	552	553	553	547	544	544	534	541	548	552	542	534	534	530	533	537	541	543		
2	540	545	544	543	544	548	547	547	544	535	533	533	533	546	547	545	543	551	555	530	513	517	534	536		
3	535	537	535	566	558	544	550	543	512	488	508	519	514	512	516	535	538	534	504	492	498	532	542	536		
4	528	541	530	532	534	537	543	535	537	528	532	526	530	520	524	529	534	531	532	541	542	541	537	537		
5	539	551	543	539	546	546	548	557	551	539	533	530	529	534	537	536	549	552	532	534	526	533	528	528		
6	521	532	537	528	530	548	557	545	540	526	501	513	512	517	509	520	520	530	544	536	531	525	529	546		
7**	559	537	529	533	541	557	558	560	546	527	514	526	530	523	518	528	543	547	548	535	562	548	539	543		
8	562	537	537	545	550	548	547	550	543	530	528	519	531	532	532	528	539	539	541	543	547	555	532	542		
9	539	538	544	539	543	556	546	549	551	550	546	550	551	551	546	537	543	546	547	539	544	526	528	541		
10	535	546	546	548	550	549	543	550	545	540	546	544	541	542	544	543	540	543	550	540	538	532	531	539		
11*	547	545	541	543	545	548	551	546	548	544	541	543	541	536	537	542	549	547	534	538	528	533	531	534		
12*	538	542	541	542	548	547	548	554	555	548	548	549	547	546	547	546	552	556	555	553	549	541	536	538		
13**	548	555	548	556	561	572	580	577	562	547	541	562	552	519	519	532	520	495	529	538	529	521	541	529		
14	541	555	555	535	543	541	537	548	542	533	496	525	541	539	539	526	551	553	552	553	550	551	548	566		
15	561	557	542	534	537	551	557	556	547	533	514	536	533	530	538	533	547	538	546	534	535	542	549	544		
16	545	547	542	556	552	553	552	548	549	541	532	530	532	538	541	547	547	548	540	542	539	574	575	534		
17	547	551	546	546	545	547	545	556	550	538	503	506	518	529	529	543	549	548	538	543	564	537	542	550		
18*	548	545	542	542	548	554	553	554	550	534	533	528	528	534	538	540	549	547	540	546	547	548	551	554		
19	551	547	547	549	554	551	552	552	550	544	542	540	543	543	547	548	541	527	537	549	556	556	555	552		
20	550	546	547	550	561	561	559	567	561	559	557	549	537	525	538	540	543	554	557	558	532	524	527	541		
21**	547	540	545	543	541	545	546	551	551	548	533	536	540	529	507	501	529	506	528	542	527	506	512	537		
22**	529	534	527	518	541	546</																				

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**	553	545	542	538	592	604	489	521	442	419	488	495	534	-	-	-	-	-	-	-	308	308	325	361		
2	388	394	393	405	413	415	424	427	423	459	436	466	468	482	484	483	483	501	489	490	502	492	480	479		
3	491	502	484	486	492	488	490	489	491	497	501	489	493	508	507	479	502	518	491	503	501	505	508	509		
4	531	523	500	495	502	514	516	501	498	479	477	495	511	516	525	473	505	512	515	513	511	540	505	494		
5	538	502	505	504	496	514	506	515	518	513	509	509	499	504	497	518	509	498	540	508	493	493	522	497		
6	497	513	509	506	517	507	515	504	511	504	480	497	509	514	516	518	520	508	519	516	523	522	522	525		
7	519	520	526	524	526	532	536	533	527	518	515	518	516	517	523	525	517	526	536	540	554	529	546	531		
8	541	520	554	528	534	543	536	534	531	523	525	522	514	509	516	519	516	520	524	522	527	554	547	534		
9	535	531	533	524	525	529	528	527	527	524	520	518	515	519	520	520	528	536	541	540	569	531	532	561		
10*	542	529	536	527	535	528	532	540	537	534	532	536	535	534	538	536	537	534	536	543	540	541	546	541		
11	543	543	525	520	527	528	538	543	545	543	536	537	527	529	527	532	538	542	538	540	515	520	511	522		
12	527	525	527	533	536	539	542	544	542	538	540	546	546	537	519	525	539	538	541	542	546	543	529	538		
13	542	540	524	523	533	540	543	545	543	544	547	550	552	551	549	546	538	536	524	515	535	538	520	537		
14**	522	484	501	510	518	528	520	502	509	485	414	439	466	494	506	496	494	498	504	537	540	520	513	547		
15	511	515	519	515	524	518	518	511	486	496	513	506	509	513	519	516	521	528	522	536	532	567	552	551		
16*	538	524	523	527	534	537	535	530	522	514	515	515	522	527	534	536	536	538	537	539	538	538	536	534		
17*	536	536	537	539	542	540	540	534	529	519	519	520	527	529	532	538	542	542	543	546	542	542	546	543		
18	546	555	542	542	542	542	541	541	536	526	526	529	531	534	538	539	541	545	549	552	556	560	545	556		
19	545	547	551	554	558	560	558	549	546	543	541	539	502	506	500	511	525	520	531	546	539	547	558	547		
20	540	535	526	523	528	544	551	525	526	519	511	512	504	514	524	519	516	536	536	546	551	587	551	533		
21	541	532	531	526	535	542	538	525	533	521	515	514	523	514	523	533	526	535	562	589	518	526	533	546		
22	533	532	527	532	526	523	530	521	524	501	506	517	512	523	519	517	519	515	538	551	531	529	543	537		
23	539	531	531	537	535	535	539	534	533	521	512	514	522	521	530	527	519	533	513	532	540	581	569	532		
24	521	526	533	528	532	533	535	532	525	517	513	523	526	528	533	526	529	537	544	551	546	539	548	539		
25	544	543	538	536	539	542	541	544	539	519	521	537	541	535	537	541	545	541	538	545	546	545	548	547		
26*	546	545	546	542	542	542	537	541	539	526	524	528	532	541	542	546	548	546	545	550	548	547	548	546		
27*	546	545	545	546	548	550	548	545	538	530	527	530	541	544	544	552	551	548	550	555	560	559	562	565		
28**	572	575	536	537	549	567	569	554	549	499	481	506	541	500	519	490	523	515	514	499	538	526	510	530		
29	523	524	538	533	524	528	512	515	511	503	507	517	520	520	511	528	521	536	521	542	541	513	507	512		
30**	515	521	532	504	514	524	533	521	490	505	496	498	502	498	509	535	553	535	526	517	502	470	445	418		
31**	483	469	503	490	541	496	490	501	481	464	449	405	484	515	514	508	512	525	530	535	543	521	521	523		
† Mean	527	523	523	520	526	528	528	524	520	513	507	511	516	519	522	521	525	528	530	535	534	534	530	529		
Mean*	542	536	537	536	540	539	538	538	533	525	523	526	531	535	538	542	543	542	542	547	546	545	548	546		
† Mean**	523	512	518	510	531	529	528	520	507	488	460	462	498	502	512	507	521	518	519	522	531	509	497	505		
April																										
18000 γ + Tabular Quantities (in γ)																										
1	531	514	515	521	520	523	524	523	518	506	501	504	510	520	523	529	532	532	533	534	540	560	551	541		
2	528	544	530	536	539	541	543	533	528	521	513	517	525	524	528	535	534	539	543	548	539	550	531	531		
3	539	532	530	533	544	533	534	536	532	519	517	522	523	535	536	531	530	537	546	538	544	537	532	553		
4	535	535	537	539	544	542	539	536	530	519	515	521	524	532	539	541	542	541	544	544	543	544	541	544		
5	540	536	536	538	538	541	549	544	534	529	522	520	522	529	535	542	541	539	543	547	546	539	536	538		
6	535	532	549	536	534	530	551	546	543	532	527	523	525	526	531	540	544	549	549	552	552	544	542	547		
7**	545	544	545	546	548	549	552	556	559	554	536	527	526	538	552	545	558	554	558	559	549	541	538	563		
8	554	540	539	540	543	545	547	547	547	540	534	532	527	531	534	545	547	543	549	554	556	556	554	568		
9	559	544	547	535	528	552	554	549	538	529	528	522	527	531	517	522	537	551	553	554	553	548	549	552		
10**	545	544	541	543	545	546	547	513	525	520	514	505	517	524	532	541	549	543	534	552	541	547	535	536		
11	538	532	538	538	534	541	545	515	518	497	516	522	522	511	528	534	541	550	543	556	560	541	556	545		
12	548	545	540	541	553	545	538	548	529	523	516	526	520	536	541	544	552	559	555	548	547	551	552	559		
13	550	555	545	545	545	547	546	541	534	526	520	522	529	534	535	535	545	551	550	544	547	547	547	553		
14*	548	545	545	545	542	545	544	546	547	536	528	528	532	541	544	553	556	550	547	547	548	548	547	548		
15	546	547	547	550	554	557	559	561	557	549	543	540	543	545	543	559	558	562	563	565	565	5				

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	540	540	541	541	543	545	546	544	541	534	526	527	538	540	549	548	562	555	544	541	541	534	536	540	
2*	541	540	540	544	553	545	546	550	550	541	532	525	519	529	533	543	556	552	556	558	549	540	542	549	
3*	553	547	547	544	546	554	552	554	547	538	530	521	525	531	545	556	564	562	561	556	558	559	554	552	
4	550	549	545	561	562	568	549	580	565	558	538	536	538	532	533	541	552	541	544	553	554	553	558	550	
5*	553	547	543	544	549	550	552	554	545	540	540	536	539	548	547	553	552	562	565	563	561	558	557	556	
6	554	554	556	555	557	557	555	547	540	538	544	529	520	529	539	540	551	559	556	556	570	560	558	556	
7	556	558	558	553	546	555	552	548	541	544	542	538	534	540	547	550	553	559	559	558	558	568	558	558	
8	558	557	554	553	553	554	556	554	547	547	544	535	550	548	559	570	571	570	571	570	545	536	547	552	
9	556	553	546	548	558	556	559	559	554	545	541	541	549	547	551	550	557	563	570	571	562	567	568	577	
10	587	572	567	563	558	556	556	554	547	541	536	536	539	540	538	551	554	567	567	572	572	571	569	565	
11	567	567	556	556	556	552	546	540	533	524	517	524	527	540	552	554	555	555	557	561	563	561	561	560	
12	559	560	555	557	553	553	548	543	537	533	540	538	539	549	555	563	564	564	573	577	578	567	563	561	
13	555	555	556	557	553	561	560	545	533	525	531	535	546	548	555	563	564	578	559	563	561	559	555	557	
14	557	557	556	561	558	557	551	540	533: 527:	526	524	531	553	560	571	567	567	567	565	569	565	563	563	569	
15	573	551	552	555	561	565	560	556	546	540	533	531	534	542	547	558	566	573	580	569	573	569	565	558	
16	558	577	557	562	564	567	560	549	559	553	541	515	519	534	542	543	544	571	571	572	569	570	569	562	
17**	560	558	560	562	566	555	546	515	506	500	504	504	505	498	495	537	554	558	555	550	544	560	564	546	
18	545	543	541	542	539	547	551	542	534	532	534	530	525	529	535	542	546	555	567	555	555	549	567	549	
19*	546	545	539	543	546	546	543	539	535	529	530	533	533	530	532	536	544	552	564	558	558	553	552	551	
20*	547	548	549	549	548	549	545	540	534	538	544	548	549	544	544	553	562	568	566	568	567	566	568	569	
21**	569	560	555	553	556	551	539	546	546	544	546	553	552	558	555	552	571	580	573	588	579	557	552	545	
22**	542	538	550	557	557	547	530	527	525	517	530	525	528	546	528	554	539	551	562	560	579	550	546	551	
23**	555	564	553	551	537	537	533	538	528	523	530	539	544	536	564	555	555	566	583	571	559	560	546	569	
24**	540	558	535	533	549	548	529	499	507	513	524	515	510	510	533	543	548	564	573	562	557	555	542	547	
25	543	537	542	535	534	533	531	528	516	507	519	519	528	535	538	552	561	562	562	552	549	561	552	536	
26	539	548	547	543	542	539	536	524	530	534	531	522	531	539	536	539	559	556	564	555	553	555	575	556	
27	544	544	544	548	542	542	537	529	525	526	528	533	539	542	551	550	571	564	563	567	558	555	548	554	
28	556	549	552	555	555	553	542	540	530	534	537	541	542	544	555	562	557	560	563	571	565	564	584	560	
29	558	545	551	551	540	555	555	539	525	535	535	539	537	530	538	560	557	557	564	570	564	562	562	551	
30	561	560	560	555	559	559	555	552	549	546	546	542	541	551	551	555	569	566	567	573	567	568	570	565	
31	569	562	561	552	553	555	551	560	555	549	546	546	546	547	541	542	548	576	569	569	559	560	560	555	
Mean	555	553	551	551	551	552	547	543	538	534	534	532	534	538	543	551	557	562	564	564	561	558	559	556	
Mean*	548	545	544	545	548	549	548	547	542	537	535	533	533	536	540	548	556	559	562	561	559	555	555	555	
Mean**	553	556	551	551	553	548	535	525	522	519	527	527	528	530	535	548	553	564	569	566	564	556	550	552	
June																									
18000 γ + Tabular Quantities (in γ)																									
1	559	560	553	545	555	555	549	533	525	535	534	530	529	528	550	555	560	560	569	560	560	558	561	548	
2*	551	551	551	555	559	556	551	544	540	539	539	538	534	534	539	543	553	561	569	569	566	564	562	560	
3*	562	566	564	566	568	565	558	550	543	541	542	537	543	539	544	551	560	567	569	569	567	568	566	562	
4*	562	560	555	555	560	563	559	552	548	541	540	537	542	552	560	566	576	583	578	578	578	573	571	568	
5*	561	560	564	560	559	553	551	549	548	551	553	544	544	542	547	557	564	578	573	573	569	566	562	561	
6	561	560	561	564	565	564	560	557	552	547	549	550	561	557	549	552	557	567	569	573	571	571	570	567	
7	569	565	563	563	564	558	553	547	545	545	551	557	561	564	563	549	552	549	558	564	567	567	564	564	
8	562	561	560	560	564	560	553	546	545	531	535	549	542	541	546	560	553	561	564	566	568	566	566	564	
9	562	564	564	568	571	570	569	560	542	551	547	543	542	564	548	560	564	570	579	580	586	589	581	581	
10**	579	568	568	567	566	564	546	537	553	544	535	547	530	555	568	570	584	564	580	580	576	575	572	569	
11**	582	564	564	557	555	546	539	531	527	526	534	542	551	553	558	553	576	575	580	587	552	551	551	555	
12	557	558	559	565	554	549	544	539	526	524	527	524	528	517	521	557	557	584	585	579	567	566	565	565	
13**	560	560	560	564	578	570	546	503	503	481	488	522	528	503	523	539	559	565	562	550	535	529	528	534	
14**	535	549	560	542	526	528	525	512	506	504	502	505	511	533	539	544	545	551	561	565	560	560	574	542	
15**	543	547	560	559	555	531	535	528	497	474	483	493	505	510	533	530	542	537	555	575	576	573	564	560	
16*	555	555	546	545	546	543	535	533	533	528	521	512	513	527	537	544	551	564	565	564	560	560	556	555	
17	554	554	557	560	563	559	554	548	534	536	536	527	532	548	545	561	581	575	578	574	565	546	536	534	
18	532	532	534	554	561	545	537	536	527	523	518	514	523	532	543	556	563	556	574	568	560	559	559	558	
19	558	555	556	556	556	556	550	545	541	532	525	525	529	532	535	545	554	559	564	581	578	563	556	556	
20	554	547	545	563	554	552	513	529	536	537	527	521	523	532	541	556	550	550	560	565	565	561	560	581	
21	554	545	541	545	545	537	538	541	536	535	536	536	529	526	536	540	550	556	572	564	562	554	556	561	
22	572	554	549	548	550	550	547	538	520	527	521	528	536	536	539	543	552	559	555	574	568	564	575	559	
23	550	550	549	549	550	551	545	538	525	528	537	543													

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	582	573	572	561	577	587	573	554	536	539	543	544	548	550	555	569	568	569	574	568	568	571	561	554			
2	554	551	554	559	562	561	552	536	534	543	550	548	545	548	559	563	566	563	566	563	568	563	559	557			
3	565	554	553	560	563	568	563	560	554	548	551	554	567	560	577	583	592	563	568	575	574	570	561	557			
4**	554	554	557	567	577	563	570	557	547	547	551	538	533	542	547	565	576	567	599	561	540	545	542	556			
5**	572	554	575	523	520	533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	442	439			
6**	437	444	441	441	443	432	426	428	439	428	424	430	464	523	526	547	551	538	530	518	505	493	488	487			
7**	515	523	491	455	496	524	512	452	457	457	470	476	488	493	502	509	504	529	542	543	536	519	520	520			
8	520	514	514	516	517	514	498	480	471	488	484	488	498	512	500	536	524	536	541	547	536	528	527	524			
9	524	522	521	520	523	520	516	510	505	504	509	518	525	524	529	532	550	557	556	554	549	577	570	564			
10	569	554	533	540	543	535	526	508	493	495	497	504	511	528	539	553	573	574	567	553	542	549	517	514			
11	526	538	542	532	529	527	526	505	507	509	506	506	505	506	517	524	526	526	534	538	540	540	537	537			
12	538	540	546	540	544	545	532	520	515	508	504	504	511	508	528	533	535	538	544	549	549	546	545	544			
13*	542	538	540	542	544	540	532	522	511	494	493	504	512	525	530	535	540	542	548	547	547	547	547	547			
14*	542	538	540	540	540	537	532	529	523	515	508	502	504	506	522	535	547	549	552	556	553	549	547	543			
15	541	540	540	540	541	539	534	529	529	527	518	515	516	526	544	551	560	560	567	565	563	562	562	562			
16	561	559	556	554	567	576	562	553	540	540	531	532	546	546	564	544	568	571	551	562	558	551	544	549			
17	537	541	541	540	535	537	537	529	522	533	533	526	526	531	545	546	546	567	568	558	558	557	550	547			
18	560	549	542	540	542	544	544	535	520	515	519	522	519	525	531	538	547	550	562	565	554	553	549	544			
19	542	542	549	552	543	544	544	540	533	524	519	519	522	524	535	542	545	551	553	557	555	559	558	560			
20	545	542	537	539	538	544	546	537	519	523	528	519	524	537	548	552	555	544	558	557	558	561	555	561			
21**	558	561	578	586	571	558	553	528	474	458	479	495	527	517	512	510	522	536	551	542	544	533	533	540			
22	542	535	517	528	523	522	530	522	521	514	497	505	517	522	532	539	519	546	554	553	555	556	555	562			
23	560	547	535	526	535	531	527	528	517	508	497	493	521	531	519	532	544	540	544	549	557	551	556	562			
24	551	557	557	544	537	532	538	532	529	516	519	525	527	531	533	545	546	550	560	564	553	551	550	553			
25	556	553	560	559	567	570	529	513	517	520	522	523	520	531	553	556	555	555	557	553	549	549	544	540			
26*	541	541	542	544	543	542	538	533	526	527	522	516	514	521	535	545	558	560	558	559	556	555	558	550			
27*	548	547	549	547	549	552	549	544	536	524	515	517	522	528	542	555	557	559	558	561	564	562	558	558			
28	553	551	552	553	555	556	553	548	535	519	508	515	522	535	544	553	562	572	568	567	564	562	560	556			
29*	556	556	556	561	562	567	569	562	550	545	550	546	537	533	538	551	558	568	571	570	569	566	563	566			
30	562	560	560	560	559	558	557	549	542	537	532	530	526	535	544	555	564	564	564	568	567	557	551	553			
31	558	562	561	563	562	558	554	549	540	541	544	534	535	537	545	549	560	558	567	571	567	565	562	553			
† Mean	545	543	541	540	543	543	537	526	518	515	514	515	521	528	537	545	551	553	558	556	553	552	548	547			
Mean*	546	544	545	547	548	548	544	538	529	521	518	517	518	523	533	544	552	556	557	559	558	556	555	553			
† Mean**	516	521	517	512	522	519	515	491	479	473	481	485	503	519	522	533	538	543	556	541	531	523	521	526			
August																											
18000 γ + Tabular Quantities (in γ)																											
1	559	557	554	554	557	558	560	553	535	536	545	548	551	549	541	550	560	558	562	585	578	560	553	546			
2**	560	555	560	580	574	558	526	523	512	517	522	531	526	531	501	529	550	564	562	551	538	544	534	537			
3	532	530	531	533	533	528	521	522	510	508	511	517	518	515	522	544	541	576	553	544	544	550	543	538			
4**	544	574	567	571	551	587	548	500	476	489	465	466	481	492	579	577	548	547	500	508	513	505	495	463			
5	477	528	504	482	493	495	492	481	471	474	488	508	519	533	542	545	552	549	540	542	539	535	537	547			
6	531	530	528	530	528	518	501	508	498	501	514	518	530	542	549	558	537	546	555	556	553	534	539	549			
7	528	535	526	520	517	526	513	502	490	494	505	508	514	525	533	536	533	540	546	551	550	549	549	558			
8	537	537	540	539	535	531	526	522	519	518	505	503	514	523	535	544	543	544	547	554	550	545	544	544			
9*	546	546	545	544	542	540	539	530	519	509	517	525	525	530	537	545	549	549	553	555	555	556	555	551			
10*	549	549	553	549	549	549	546	542	538	533	526	524	527	532	543	553	558	560	564	567	568	568	569	559			
11	558	551	559	555	558	554	550	540	532	534	540	546	555	550	561	569	565	567	580	562	555	555	551	549			
12	549	551	558	555	553	546	545	544	532	522	519	517	527	529	538	548	557	558	562	566	569	563	558	566			
13	552	546	550	553	556	549	549	546	540	535	531	531	537	538	540	558	560	556	567	568	565	564	564	582			
14	560	552	549	547	545	557	558	546	535	524	530	527	535	539	544	556	563	556	556	560	560	558	555	553			
15	557	560	551	549	550	548	548	542	533	526	529	538	548	544	547	544	551	551	553	556	557	555	550	550			
16*	548	548	548	548	548	550	548	541	538	531	526	530	532	548	540	540	544	552	557	558	557	559	554	553			
17*	554	557	554	544	550	548	550	545	540	534	534	531	538	541	543	545	548	551	556	561	563	563	562	558			
18	552	552	552	553	553	552	548	548	546	544	552	556	558	559	553	566	557	557	568	572	572	562	557	568			
19	566	572	568	567	561	558	558	544	539	532	527	529	505	523	525	537	549	534	557	551	554	555	557	558			
20	548	548	552	549	549	550	539	534	525	528	532	533	535	541	548	549	552	559	559	561	558	559	557	558			
21	565	563	554	548	550	550	547	543	546	545	540	541	544	541	541	539	550	552	572	555	558	561	558	566			
22	552	552	555	552	552	550	544	539	534	527	528	542	550	550	552	551											

TABLE III. - 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	545	548	548	545	547	550	531	534	527	515	521	516	517	530	540	525	547	561	548	548	555	557	557	571		
2	566	552	539	540	543	541	523	516	522	527	521	527	531	529	529	530	550	555	554	558	572	563	557	557		
3	557	546	543	543	545	544	539	530	521	517	523	530	540	541	543	543	545	549	555	557	557	556	555	555		
4*	549	551	548	547	545	542	538	529	521	520	520	522	534	541	544	550	551	553	558	559	556	560	555	554		
5*	554	550	550	549	547	542	539	533	531	529	525	535	543	551	552	551	552	552	554	558	557	558	556	557		
6*	556	556	555	554	554	554	551	545	536	521	517	530	547	556	556	554	553	557	558	565	563	566	566	564		
7	565	565	564	564	569	568	562	556	544	540	526	533	553	549	521	541	556	549	553	561	573	553	544	544		
8	548	558	558	545	551	548	544	542	533	526	520	526	533	541	543	547	551	558	560	562	560	557	549	539		
9	550	555	557	549	552	550	550	548	536	523	526	530	537	542	548	553	557	562	559	557	558	558	559	596		
10	576	558	546	545	554	548	548	540	536	528	519	521	530	543	552	559	560	563	564	561	562	560	557	555		
11	555	563	557	559	554	555	548	545	537	527	516	516	520	528	534	539	553	554	551	550	552	560	570	555		
12*	557	555	550	552	554	554	550	548	539	528	521	518	532	549	556	552	552	553	558	560	559	558	557	557		
13**	557	556	556	556	556	554	552	552	554	549	557	566	554	539	525	503	538	548	541	554	556	543	542	562		
14	547	550	539	541	541	549	521	514	521	516	510	514	514	530	531	525	548	552	545	545	548	557	569	539		
15**	545	545	545	539	536	534	529	534	523	516	509	516	516	525	534	561	559	561	535	531	515	543	541	545		
16	545	576	547	550	539	534	549	543	539	530	525	522	526	526	536	539	543	552	549	535	542	548	559	548		
17	541	534	541	541	543	539	543	541	536	530	518	516	527	523	527	530	534	532	549	550	557	561	559	559		
18**	556	552	547	545	565	620	599	548	454	452	377:	269:	368:	526:	435:	608:	600:	462:	380:	193:	125:	217:	249:	297:		
19**	242:	204:	335:	289:	247:	243:	234:	254:	320:	403:	459	476	482	475	493:	507	505	516	516	475	504	480	482	485		
20**	497	479	478	470	480	494	484	463	441	409	395	444	474	479	485	492	489	486	499	508	508	506	508	506		
21	506	508	518	519	506	501	504	477	464	459	458	469	479	509	509	518	509	506	513	515	512	511	511	514		
22*	518	520	522	523	518	509	503	503	500	494	486	489	497	504	515	520	522	529	533	529	526	527	528	529		
23	529	530	529	530	529	527	524	515	494	493	488	493	509	511	522	515	520	517	530	538	538	536	533	534		
24	556	549	538	525	517	525	533	524	521	509	500	509	517	513	532	547	543	542	515	517	511	517	528	506		
25	523	522	516	518	524	526	533	526	499	488	485	493	490	504	521	513	508	510	515	533	532	517	523	530		
26	526	528	529	531	533	533	533	532	519	505	495	495	504	509	517	521	529	535	541	541	542	542	540	535		
27	534	535	540	538	532	536	525	527	519	500	501	507	513	517	513	517	511	528	526	532	538	540	539	547		
28	543	540	534	531	533	534	533	531	524	511	511	515	529	538	538	537	533	542	540	534	547	542	544	549		
29	544	542	544	540	557	539	550	547	533	513	496	513	522	534	539	547	547	531	536	546	539	558	560	539		
30	538	540	540	530	533	535	539	534	524	524	520	502	515	523	531	532	529	536	541	538	553	543	538	541		
† Mean	544	543	540	538	539	538	535	530	521	512	507	513	522	528	532	534	539	542	542	544	546	546	547	546		
Mean*	547	546	545	545	544	540	536	532	525	518	514	519	531	540	545	545	546	549	552	554	552	554	552	552		
† Mean**	533	527	526	522	524	527	522	516	506	491	487	509	515	514	515	519	529	532	525	531	526	531	530	538		
October																										
18000 γ + Tabular Quantities (in γ)																										
1	541	539	544	544	541	538	540	540	531	522	520	520	518	522	524	529	540	544	542	542	542	542	542	541		
2	544	543	543	543	543	539	539	537	530	523	522	524	531	534	535	538	538	543	554	551	534	536	558	545		
3	539	533	534	534	537	539	537	531	526	523	525	526	523	517	519	527	536	543	549	549	545	541	538	540		
4*	544	546	544	544	544	546	544	540	534	524	520	525	531	535	544	546	552	554	557	559	561	557	553	554		
5	538	540	538	544	546	549	545	535	518	507	515	518	533	540	543	545	545	544	554	552	551	551	550	549		
6*	550	544	545	548	552	550	553	549	543	534	530	534	540	437	543	544	544	548	552	555	551	549	549	546		
7*	545	547	547	547	546	546	544	540	534	529	527	534	538	543	553	556	555	555	555	555	553	554	555	554		
8	550	561	566	560	550	539	550	540	534	527	521	520	522	530	540	544	540	516	529	543	544	555	545	544		
9	543	542	545	546	550	548	544	535	524	514	514	512	516	516	532	546	550	553	553	551	550	557	550	550		
10	549	549	550	551	554	554	557	555	548	540	536	537	543	546	556	565	567	560	558	554	549	550	544	543		
11**	557	568	559	544	548	559	544	560	540	505	483	482	498	492	496	510	522	484	515	553	548	520	541	531		
12**	534	523	524	532	529	526	526	507	507	517	513	505	511	519	518	517	520	535	533	534	533	537	537	543		
13	548	530	534	536	538	538	533	538	533	525	507	512	517	522	532	535	538	533	544	546	542	543	540	549		
14	544	545	543	538	538	544	551	549	538	528	517	515	526	525	529	513	519	538	541	537	538	542	539	561		
15	553	542	533	538	543	553	547	523	514	501	489	503	516	513	513	510	506	510	517	519	510	515	525	532		
16**	532	532	534	561	553	544	545	537	527	519	514	517	527	516	523	523	529	523	525	539	536	533	532	533		
17*	539	539	539	541	543	548	549	537	527	517	514	515	516	525	527	524	537	539	544	544	543	549	547	543		
18	539	540	539	542	547	548	551	547	532	527	523	523	526	523	526	529	533	537	526	529	537	539	542	540		
19	542	539	547	552	549	553	542	535	532	524	517	522	523	518	511	513	508	527	533	539	538	538	541	543		
20	542	542	540	543	550	549	543	528	522	513	513	517	522	524	527	529	536	547	551	549	543	539	541	544		
21*	547	547	543	547	547	546	553	547	527	514	507	514	522	533	539	547	549	553	555	553	555	553	553	551		
22**	549	543	552	559	559	559	555	554	539	530	523	523	525	542	554	564	548	505	483	502	504	523	536	532		
23	522	521	524	524	522	528	529	527	513	503</																

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**	449	460	491	564	563	443	480	469	465	475	467	463	466	469	489	477	460	468	503	509	509	509	510	510	510	510	
2	509	512	515	517	520	524	531	533	528	522	517	517	517	517	519	519	522	527	529	527	520	522	517	522	522	522	
3	520	524	525	527	533	529	533	535	532	525	520	523	526	532	535	533	533	533	533	536	538	541	532	535	535	535	
4*	537	533	535	537	537	533	533	535	531	524	518	522	523	526	529	538	545	547	546	548	548	535	535	535	540	540	
5	537	535	534	536	540	539	547	549	547	539	538	541	541	539	539	523	537	538	517	534	537	531	517	517	531	531	
6**	533	533	536	533	545	551	523	507	490	489	476	464	466	475	514	510	517	490	526	523	516	517	523	523	525	525	
7	539	525	524	528	529	532	533	523	531	512	497	508	511	521	533	535	523	548	540	535	525	531	524	524	524	526	
8	527	528	540	538	552	554	542	528	527	511	511	514	524	516	512	533	537	536	519	527	535	537	535	539	539	539	
9	541	539	538	542	542	542	546	543	542	533	511	497	497	498	512	493	528	538	538	537	537	541	542	542	542	542	
10**	544	551	553	547	548	552	546	546	541	512	520	522	526	496	485	517	532	486	509	513	531	533	534	553	553	553	
11	546	533	552	540	523	532	536	537	532	507	496	521	514	521	522	528	537	519	527	529	532	532	526	526	526	526	
12	527	531	531	536	541	542	540	541	533	529	516	515	517	522	526	534	535	532	525	527	542	561	536	534	534	534	
13	532	535	538	536	543	548	548	550	535	525	522	515	525	531	531	534	535	535	534	531	541	549	548	542	542	542	
14	540	539	544	546	549	550	550	552	542	536	526	525	527	531	537	541	541	540	545	544	544	541	540	550	550	550	
15*	541	541	543	547	551	551	553	552	547	540	533	532	536	540	541	541	547	554	555	555	559	553	556	560	560	560	
16*	552	551	551	555	551	557	561	557	550	542	537	540	542	546	548	551	551	551	556	561	563	551	549	549	549	549	
17**	546	551	551	561	558	561	573	551	529	519	526	521	505	491	490	487	487	487	484	513	499	517	520	528	528		
18	539	532	534	532	536	541	546	530	507	492	495	493	508	513	512	501	525	515	512	500	516	541	554	550	550		
19	521	536	545	540	547	546	551	540	537	528	520	530	526	540	547	549	549	549	548	544	536	520	517	522	522		
20	531	537	537	540	543	546	544	541	541	540	540	540	542	546	550	550	556	556	557	543	549	549	544	544	544	544	
21	530	533	529	539	543	545	550	548	545	540	540	540	540	545	540	538	550	549	550	550	560	546	539	531	531		
22	541	538	540	544	550	554	553	558	554	551	550	547	549	542	537	520	541	545	540	544	542	552	522	535	535	535	
23	537	536	540	530	547	546	539	546	534	536	545	534	526	525	530	534	548	550	550	549	542	535	535	532	532	532	
24*	530	541	541	545	550	553	552	556	558	550	542	540	540	543	545	546	550	550	550	550	550	550	540	544	544	544	
25	545	548	546	550	557	560	562	560	549	550	551	549	548	548	548	553	557	555	550	545	550	548	549	549	549	549	
26*	546	547	549	551	554	555	555	556	555	553	550	548	539	540	542	541	545	549	550	551	555	556	553	550	550	550	
27	550	550	550	556	569	560	568	574	566	562	559	560	557	549	554	560	560	564	563	560	559	558	558	547	547	547	
28**	537	528	501	529	555	574	532	496	480	490	490	512	513	511	516	521	530	521	503	467	477	515	509	514	514	514	
29	506	507	509	511	515	514	520	524	517	521	520	520	520	524	530	535	538	540	540	538	536	535	533	534	534	534	
30	530	534	534	535	534	534	533	532	531	530	534	538	541	539	540	537	535	540	544	541	535	535	536	533	533	533	
Mean	532	533	535	540	544	542	543	539	532	526	522	523	524	525	528	529	535	534	535	534	536	538	534	537	537	537	
Mean*	541	543	544	547	549	550	551	551	548	542	536	536	536	539	541	543	548	550	551	553	555	549	547	549	549	549	
Mean**	522	525	526	547	554	536	531	514	501	497	496	496	495	488	499	502	505	490	505	505	506	518	519	526	526	526	
December																											
18000 γ + Tabular Quantities (in γ)																											
1**	531	526	540	537	538	538	545	549	547	567	541	524	533	513	479	444	437	423	438	434	455	465	476	496	496	496	
2**	510	493	505	479	528	490	485	495	503	504	504	512	506	517	513	523	523	515	523	520	524	529	527	528	528	528	
3	528	529	530	526	529	531	533	534	531	526	522	523	523	522	528	541	550	547	533	539	529	551	532	526	526	526	
4	531	524	533	557	554	549	548	545	546	546	530	520	518	519	530	530	536	525	513	512	529	526	526	529	529	529	
5	529	529	530	533	532	538	539	538	539	547	544	545	543	538	533	541	539	537	522	522	525	521	525	530	530	530	
6	533	539	540	541	540	543	540	543	533	529	527	534	538	540	540	530	522	530	535	537	539	550	538	539	539	539	
7	536	539	538	540	543	550	555	555	548	532	529	532	535	537	534	534	536	537	535	530	535	543	546	542	542	542	
8	534	538	539	542	544	549	550	552	553	548	544	542	543	545	540	538	543	535	538	546	539	529	554	538	538	538	
9	542	542	547	549	550	556	560	560	558	551	543	533	518	519	537	538	545	546	549	548	537	533	535	569	569	569	
10	542	540	543	545	544	549	555	551	550	543	542	543	539	536	538	529	535	543	548	548	546	544	542	545	545	545	
11*	545	546	548	552	555	555	555	555	551	544	540	543	548	548	549	548	549	551	552	551	550	550	550	549	549	549	
12*	549	549	551	555	559	560	559	556	552	554	549	550	549	544	547	536	539	541	547	547	549	549	548	550	550	550	
13	561	552	553	558	560	562	563	567	573	572	572	565	558	546	540	539	525	501	488	510	524	533	538	539	539	539	
14**	563	539	535	552	546	547	545	536	534	521	504	532	527	527	491	519	519	528	526	533	542	524	527	531	531	531	
15	531	536	540	545	554	543	545	540	539	535	535	538	539	537	536	543	548	546	545	546	542	555	550	541	541	541	
16**	543	540	554	569	532	548	546	549	544	540	541	545	547	547	549	544	547	544	547	545	544	546	547	556	556	556	
17	558	549	545	544	545	554	559	558	553	548	542	548	552	555	554	552	545	541	525	533	534	547	568	547	547	547	
18	544	546	548	539	547	551	559	570	553	536	536	542	546	548	558	559	555	554	550	553	549	545	538	543	543	543	
19	551	545	545	547	549	550	555	559	546	538	528	533	540	541	543	541	549	546	543	542	538	540	539	545	545	545	
20*	544	545	553	550	553	555	558	559	559	557	549	549	551	551	549	540	553	553	550	552	550	549	549	550	550	550	
21*	549	551	551	553	555	556	554	555	556	557	553	555	55														

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	111	112	111	110	110	110		112	110	109	103	103	103		101	107	117	129	137	135		129	125	123	116	117	114
2	113	113	113	109	112	112		112	110	111	109	111	113		109	109	118	119	119	118		117	115	114	111	110	110
3	109	109	108	109	109	109		111	110	107	105	105	101		99	102	109	111	111	111		111	111	111	109	107	108
4	111	109	109	109	109	109		111	111	111	113	111	103		98	103	109	112	114	114		114	114	113	111	109	109
5*	107	107	107	107	107	107		107	109	109	109	107	103		104	105	107	109	108	109		107	105	105	103	101	103
6	105	101	93	91	89	93		101	105	103	107	107	105		110	115	115	116	111	112		113	114	115	115	112	113
7	111	111	111	111	111	111		111	109	112	111	113	111		109	111	112	114	119	136		138	138	131	122	119	119
8	121	118	116	114	111	112		113	113	115	115	113	109		111	114	113	112	112	113		115	115	117	117	113	112
9	114	116	116	115	113	112		112	111	112	112	109	108		109	114	122	124	121	119		119	120	119	118	118	118
10	117	110	110	110	110	110		110	112	114	112	108	106		107	110	113	114	112	114		113	114	116	116	110	116
11	118	116	116	113	111	110		110	111	109	110	108	106		107	111	116	116	114	116		118	122	122	122	120	122
12	121	120	118	116	114	112		112	112	111	108	108	112		112	118	120	120	116	116		116	114	116	116	115	116
13	118	114	114	113	112	112		111	112	111	108	105	106		106	111	113	115	115	116		115	117	117	119	117	117
14*	116	114	115	114	113	112		112	109	106	104	103	102		104	106	110	110	110	110		108	109	108	108	110	112
15*	115	114	112	110	109	108		108	108	105	103	101	104		104	108	110	108	106	109		109	108	106	106	106	106
16	105	105	106	106	106	106		106	108	104	101	100	100		102	110	113	112	116	118		114	112	110	108	106	106
17**	102	94	84	95	100	104		106	106	99	94	92	92		94	100	108	118	140	165		140	136	138	124	120	111
18**	96	102	108	106	106	109		110	112	108	106	108	109		110	114	118	120	120	131		136	134	122	116	111	101
19	88	96	102	105	108	110		112	112	112	116	114	112		110	114	123	124	126	129		129	120	118	114	110	99
20	96	102	102	102	105	108		112	113	113	108	109	106		108	112	112	113	111	112		112	110	110	110	100	102
21*	104	104	104	104	103	104		108	108	108	107	106	106		108	109	109	108	108	108		108	110	110	110	108	108
22	107	106	106	108	106	106		108	107	106	108	108	106		106	108	108	106	104	106		109	114	118	112	102	106
23**	106	99	100	102	104	104		108	107	106	109	112	109		112	119	129	138	153	156		146	130	125	124	122	112
24**	102	105	108	107	106	106		108	104	106	110	112	116		122	136	136	134	150	152		144	139	136	118	111	116
25**	114	110	110	110	104	95		105	110	111	112	114	117		117	120	124	129	133	126		124	125	121	120	118	112
26	96	100	108	110	111	112		110	108	108	110	110	111		110	117	126	131	120	124		120	119	120	118	110	110
27	113	111	109	109	110	109		108	109	109	109	109	111		111	116	127	127	130	131		129	128	120	117	115	105
28	107	109	109	111	111	111		111	111	109	109	109	112		113	118	119	121	123	123		121	119	112	111	108	110
29	106	105	106	109	111	111		113	114	115	113	107	108		109	113	116	119	119	118		115	115	115	113	111	109
30	109	109	109	109	107	105		107	107	106	101	101	103		105	113	119	124	128	132		131	127	121	118	115	113
31*	110	109	111	112	113	115		115	112	109	101	103	107		109	114	116	117	115	119		117	116	115	115	112	112
Mean	109	108	108	108	108	108		110	110	109	108	107	107		108	112	116	118	120	123		121	119	118	115	112	111
Mean*	110	110	110	109	109	109		110	109	107	105	104	104		106	108	110	110	109	111		110	110	109	108	107	108
Mean**	104	102	102	104	104	104		107	108	106	106	108	109		111	118	123	128	139	146		138	133	128	120	116	110
February																											
43000 γ + Tabular Quantities (in γ)																											
1*	112	114	113	113	113	113		112	112	111	109	107	108		107	108	111	116	116	118		119	123	125	123	121	118
2	116	115	113	114	114	115		115	116	115	113	113	115		115	113	115	119	117	119		119	122	132	133	129	123
3	119	117	117	111	101	106		111	110	114	113	116	115		115	117	119	123	121	125		134	141	143	133	127	120
4	119	115	109	110	111	115		115	117	119	115	111	113		113	117	123	127	130	131		130	129	127	124	122	121
5	119	115	111	110	111	112		114	113	111	109	108	110		113	119	119	121	118	120		123	129	134	134	129	123
6	119	117	112	109	112	113		106	102	109	109	109	113		112	119	123	131	128	129		129	131	134	131	129	123
7**	109	105	109	111	111	108		101	101	101	103	103	109		107	111	115	125	119	123		119	119	119	112	115	117
8	115	110	111	109	101	103		107	107	105	105	107	103		107	109	115	120	121	119		120	119	121	114	115	115
9	117	115	113	108	105	107		105	105	105	103	107	109		110	111	113	117	115	115		113	117	120	118	119	118
10	117	113	109	109	109	107		109	107	109	110	109	109		109	116	117	120	117	117		119	120	122	124	125	123
11*	119	115	115	113	113	111		111	109	111	109	113	116		117	121	122	121	119	119		119	126	124	124	123	123
12*	121	118	116	115	117	112		109	109	109	107	109	109		109	113	114	114	113	113		113	113	116	115	119	121
13**	117	106	110	109	113	108		105	103	101	95	97	101		99	109	118	125	132	143		141	131	125	127	116	115
14	102	94	89	102	112	112		114	116	110	106	108	121		118	118	116	124	128	120		119	119	117	116	113	106
15	100	92	96	104	104	98		103	103	102	100	103	106		108	110	118	124	125	123		124	126	122	118	113	112
16	113	112	110	102	106	110		110	110	110	106	108	108		106	106	110	110	111	116		116	119	121	113	97	94
17	102	100	100	104	108	107		109	110	108	110	108	118		116	115	116	124	120	122		124	128	122	118	115	114
18*	111	109	108	110	114	112		113	114	114	111	108	104		104	107	108	112	113	116		118	119	118	116	114	112
19	110	110	110	110	114	112		112	114	114	112	110	108		106	102	102	108	114	124		122	120	118	114	114	114
20	110	110	108	109	111	110		110	110	110	107	102	104		108	115	113	114	115</								

MAGNETIC OBSERVATIONS, ABINGER 1941.

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**	107	106	109	109	98	67		57	73	71	105	130	145	135	-	-	-	-	-	-	-	269	266	231	207	
2	203	183	165	169	167	164		163	156	151	157	151	158	155	152	153	164	179	189		167	165	153	149	131	140
3	138	128	125	132	136	133		134	136	130	125	126	130	132	132	140	148	168	173		156	152	146	144	140	138
4	130	116	118	126	130	120		112	121	124	120	126	125	124	129	142	152	154	156		152	148	146	142	119	122
5	108	111	122	115	118	122		121	127	127	126	122	125	128	132	150	156	154	159		161	150	153	149	128	124
6	124	124	122	128	134	130		130	130	128	124	118	120	124	130	134	142	152	159		156	146	144	140	136	136
7	133	132	128	128	132	132		130	134	130	124	120	122	124	126	128	134	136	138		138	142	136	133	122	126
8	116	123	122	122	126	124		124	128	121	114	108	106	108	115	118	129	134	135		136	140	142	132	124	124
9	124	114	114	122	126	127		127	128	126	121	116	112	113	118	124	132	132	130		130	130	126	124	122	112
10*	106	110	108	110	113	114		120	126	124	120	116	114	118	123	126	130	130	128		128	128	128	128	124	124
11	121	118	117	121	120	119		122	123	121	117	117	116	113	116	117	123	121	123		125	129	137	143	137	133
12	131	131	130	129	129	125		121	121	116	114	116	113	115	121	123	128	130	127		129	131	131	130	130	130
13	127	125	123	126	127	123		121	121	117	117	113	109	111	114	119	125	128	130		134	139	138	124	123	129
14**	113	77	73	109	113	113		109	110	115	114	119	131	141	164	156	153	149	153		149	145	135	129	113	97
15	116	127	131	131	127	127		125	122	115	117	117	117	125	125	129	135	135	137		137	136	133	129	113	107
16*	110	114	120	124	126	125		125	128	126	117	110	112	116	121	126	132	131	130		128	128	128	127	124	124
17*	125	126	126	126	128	126		128	129	122	116	113	112	110	114	118	122	123	128		130	130	130	128	124	125
18	124	118	118	120	124	124		126	128	122	118	110	106	104	110	118	126	126	127		126	126	125	124	122	110
19	116	117	118	118	118	118		120	125	118	112	108	108	113	126	134	137	135	140		143	136	132	128	120	114
20	112	98	106	113	114	116		120	122	122	112	114	118	124	132	138	146	164	160		148	140	134	126	114	114
21	106	110	114	108	115	114		118	124	124	118	118	122	126	130	136	140	148	146		146	130	121	126	126	113
22	118	120	112	100	110	107		118	123	120	114	113	118	122	128	130	136	152	160		157	142	133	134	130	116
23	118	121	125	124	124	125		126	130	126	122	118	120	119	120	125	136	144	154		145	143	138	133	112	112
24	120	125	124	124	124	126		128	128	125	119	118	118	118	120	122	127	128	133		131	128	126	124	120	122
25	122	120	120	121	122	120		122	126	122	116	114	109	108	112	117	122	124	128		132	132	130	127	123	125
26*	124	124	122	122	123	120		122	128	124	115	112	111	114	122	125	130	132	131		127	128	126	124	124	126
27*	124	124	124	124	126	124		124	126	124	116	108	102	101	109	116	122	124	123		123	124	124	123	120	120
28**	120	104	102	110	116	116		116	118	116	112	108	112	118	122	142	164	180	180		175	162	156	120	124	120
29	109	116	121	115	126	129		125	129	131	125	119	115	117	123	126	139	157	167		173	159	139	105	109	108
30**	116	107	98	94	105	113		119	120	120	121	119	121	119	125	137	143	157	188		189	178	143	131	115	75
31**	79	55	73	77	91	99		115	125	123	128	123	129	139	139	139	143	145	145		147	149	147	141	137	139
† Mean	121	117	117	120	123	123		124	126	124	120	117	118	120	125	130	137	142	146		144	141	136	131	124	120
Mean*	118	120	120	121	123	122		124	127	124	117	112	110	112	118	122	127	128	128		127	128	127	126	123	124
† Mean**	107	86	87	98	106	110		115	118	119	119	117	123	129	138	144	151	158	167		165	159	145	130	122	108
April																										
43000 γ + Tabular Quantities (in γ)																										
1	137	136	137	137	137	137		137	136	129	131	127	119	117	124	125	135	135	137		137	137	135	131	121	118
2	119	115	115	121	123	121		122	126	122	119	115	111	113	122	131	141	139	137		137	137	136	135	125	129
3	125	127	126	121	121	119		125	125	117	114	112	111	112	122	131	147	149	147		141	141	140	136	133	131
4	128	129	128	126	130	129		129	128	125	119	111	109	111	118	124	131	131	133		133	133	133	133	129	131
5	125	125	127	127	129	127		127	129	123	117	109	109	111	115	121	127	128	131		131	133	132	133	133	127
6	127	127	123	122	123	126		123	123	123	123	120	117	117	119	125	133	135	135		133	134	131	131	131	127
7**	125	124	123	123	123	121		124	127	120	108	99	99	102	107	112	118	124	125		125	125	127	139	127	111
8	99	110	116	117	119	119		123	126	125	121	115	107	105	111	117	125	128	129		131	129	127	127	123	121
9	113	114	117	115	117	113		117	118	119	113	109	107	106	114	123	127	131	133		129	125	125	125	124	122
10**	123	124	124	121	120	119		122	123	125	122	119	109	105	110	119	138	155	153		150	143	135	133	126	121
11	119	119	119	121	123	123		125	124	121	120	117	113	112	115	127	133	134	137		139	137	129	127	123	121
12	123	123	119	113	115	110		117	123	121	117	109	107	106	113	122	132	135	135		131	127	127	125	121	121
13	121	119	119	121	121	124		127	126	123	115	105	101	103	113	126	131	131	131		131	127	126	124	123	123
14*	121	121	123	125	123	125		126	123	116	109	106	99	97	105	113	119	123	127		126	125	123	121	119	122
15	123	123	123	123	125	123		123	123	117	109	101	97	97	103	113	119	120	124		125	125	123			

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	
May																										
43000 γ + Tabular Quantities (in γ)																										
1	126	126	127	127	129	127	126	123	119	117	115	107	105	111	120	126	133	143	148	148	144	143	135	131		
2*	129	127	127	125	124	119	121	121	117	113	108	107	108	115	122	127	131	137	137	135	135	136	133	128		
3*	127	125	125	125	129	125	121	119	118	113	111	107	107	113	121	127	129	135	139	136	131	129	125	123		
4	123	123	123	119	117	113	111	102	103	94	92	100	101	104	113	119	128	132	137	135	129	127	121	123		
5*	123	117	119	122	123	125	122	120	117	109	106	106	107	109	111	115	118	124	127	125	123	120	121	122		
6	122	121	120	122	122	121	120	121	117	110	109	107	109	113	121	121	125	131	137	137	131	127	126	126		
7	125	125	121	119	115	113	115	115	114	109	107	101	102	107	117	118	121	124	125	125	125	120	119	119		
8	119	117	117	117	117	117	115	111	109	106	99	96	100	99	107	110	113	117	120	125	131	132	129	127		
9	125	124	121	119	113	106	107	105	106	109	106	97	100	107	117	119	127	127	127	127	125	121	121	120		
10	107	97	100	105	111	114	116	115	109	103	97	99	103	111	119	123	125	131	129	125	121	119	119	119		
11	117	111	113	117	120	121	121	120	117	112	111	109	110	116	122	124	127	126	122	120	119	117	118	120		
12	119	117	117	118	120	123	123	119	113	103	99	98	103	111	115	116	119	123	124	121	121	119	116	116		
13	113	111	113	117	121	121	121	119	115	110	105	93	92	99	109	120	127	134	133	132	128	124	123	119		
14	120	121	122	125	125	125	126	121	117:	110:	103	101	106	113	119	123	123	123	125	121	120	117	117	115		
15	107	106	111	117	118	119	119	117	115	111	106	99	101	105	109	115	122	123	125	123	119	117	115	115		
16	115	109	109	115	113	115	116	113	113	111	105	103	102	111	129	131	129	129	125	123	119	119	118	117		
17**	117	117	119	119	113	95	87	89	94	94	89	95	99	114	129	135	133	129	129	131	131	129	117	115		
18	117	117	117	117	115	117	119	121	119	112	103	99	103	109	117	121	129	129	131	131	133	129	121	116		
19*	119	119	119	117	118	120	123	122	121	114	104	98	104	111	119	123	125	131	132	131	129	125	124	123		
20*	123	123	123	123	124	127	129	124	121	117	114	104	101	107	117	119	125	123	122	123	121	119	119	119		
21**	116	113	115	119	117	119	120	116	115	110	99	97	100	111	118	116	123	131	133	135	131	127	121	113		
22**	113	91	91	73	78	85	96	101	106	111	105	99	111	116	117	121	123	126	128	131	134	121	121	121		
23**	119	111	107	107	107	109	111	107	105	105	103	99	103	111	125	129	134	139	141	133	129	121	109	100		
24**	100	99	95	103	103	87	87	85	87	91	98	97	107	121	129	133	137	146	148	139	133	119	115	118		
25	111	109	107	111	115	117	118	121	117	109	105	100	105	111	121	131	139	143	147	144	135	129	116	117		
26	119	115	115	120	119	121	123	119	119	115	105	101	109	113	119	127	133	137	141	139	135	127	119	115		
27	118	120	122	124	124	126	127	124	124	122	116	105	106	110	118	124	132	132	136	136	129	124	124	124		
28	120	120	120	120	123	122	120	116	110	112	112	100	96	102	112	120	128	134	138	136	132	128	119	112		
29	112	112	116	120	117	117	116	114	114	104	100	98	101	110	114	126	132	136	136	134	130	126	122	122		
30	117	112	114	120	123	125	126	125	125	116	108	106	104	99	102	110	120	126	130	130	128	124	122	122		
31	119	112	104	108	113	116	121	124	124	117	110	108	106	108	116	124	124	132	140	146	135	128	127	124		
Mean	118	115	115	116	117	116	117	115	114	109	105	101	104	110	118	122	127	131	133	132	129	125	121	119		
Mean*	124	122	123	122	124	123	123	121	119	113	109	104	105	111	118	122	126	130	131	130	128	126	124	123		
Mean**	113	106	105	104	104	99	100	100	101	102	99	97	104	115	124	127	130	134	136	134	132	123	117	113		
June																										
43000 γ + Tabular Quantities (in γ)																										
1	123	118	120	120	121	116	118	120	120	116	108	108	110	116	125	128	128	130	132	129	128	126	125	124		
2*	124	124	126	128	127	128	128	128	124	118	115	110	112	115	120	120	124	128	130	129	128	124	125	125		
3*	124	123	123	126	127	129	124	122	118	110	108	101	100	104	114	116	116	120	124	124	122	121	121	120		
4*	120	119	120	122	124	123	120	114	111	107	104	98	100	108	110	110	116	120	121	122	120	119	118	116		
5*	116	118	118	118	118	121	118	116	114	106	100	97	106	110	116	116	119	120	116	121	122	122	122	123		
6	122	120	120	122	122	120	114	108	108	104	102	103	104	111	118	121	123	125	123	123	121	119	120	120		
7	120	119	119	120	118	119	120	120	116	110	106	98	100	106	116	122	128	132	132	128	124	120	122	122		
8	122	122	122	124	126	128	128	128	118	104	102	96	100	108	114	121	126	126	124	124	122	122	122	121		
9	122	122	124	126	124	125	120	114	112	104	96	92	97	100	104	108	116	122	125	124	122	116	116	118		
10**	116	116	116	120	120	122	124	117	114	108	104	94	99	110	122	132	144	146	150	142	132	125	122	122		
11**	123	122	123	127	127	130	126	122	111	102	100	96	100	104	112	117	124	126	129	132	127	124	123	122		
12	122	122	120	118	116	121	118	118	114	106	98	92	98	102	110	120	124	130	138	140	134	126	121	120		
13**	120	120	120	124	125	125	120	118	114	108	106	106	111	112	123	132	136	146	160	156	154	140	126	116		
14**	94	84	71	80	90	98	109	116	118	114	106	100	107	114	122	120	122	127	132	130	129	126	122	118		
15**	120	118	110	99	98	96	97	105	104	106	108	112	118	124	134	134	138	134	138	136	132	128	128	126		
16*	124	122	124	128	128	132	130	126	125	119	114	110	114	119	121	122	130	132	132	136	128	124	124	122		
17	122	121	120	122	122	122	122	122	114	108	106	99	103	108	113	118	126	128	130	138	136	126	121	113		
18	107	104	104	97	98	103	111	115	120	124	122	118	116	116	112	112	118	122	132	134	134	126	126	122		
19	122	122	122	122	122	122	121	120	116	110	104	102	106	108	118	126	123	126	130	132	131	129	130	126		
20	120	120	120	113	109	116	115	109	117	115	108	105	110	115	119	127	128	128	132	134	132	126	125	115		
21	104	113	113	116	117	118	116	115	113	104	102	102	107	110	113	118	125	126	130	133	132	126	124	123		
22	115	113	115	119	122	122	117	112	104	106	99	97	101	104	109	117	124									

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	108	104	104	110	106	102		101	101	101	100	101	102	106	109	109	114	118	122	126	125	123	121	119	119	
2	117	116	115	114	115	119		119	117	116	112	110	105	106	108	111	110	113	122	125	123	125	121	120	122	
3	119	114	116	120	118	121		119	116	110	105	99	91	94	95	104	105	116	123	123	125	122	121	121	119	
4**	118	118	118	121	117	111		104	106	110	107	107	105	110	112	114	122	130	140	160	165	161	142	132	128	
5**	115	104	66	48	84	110																		148	163	
6**	163	162	158	157	157	155		155	152	158	156	159	169	185	206	223	216	206	197	184	166	157	149	141	141	
7**	126	94	62	47	45	71		95	110	121	123	123	125	130	137	145	154	154	158	151	148	147	145	143	144	
8	142	144	144	146	141	141		137	137	143	148	144	135	133	144	151	160	164	163	159	159	148	142	140	141	
9	141	141	142	146	145	147		142	138	135	133	122	111	116	124	125	129	140	146	147	142	141	134	133	131	
10	120	120	124	133	131	134		137	138	140	141	137	124	120	134	144	153	165	170	173	170	157	133	124	129	
11	135	136	135	137	140	146		144	140	134	131	125	114	116	127	131	138	143	147	147	148	146	142	140	138	
12	138	138	138	139	141	142		141	141	138	132	123	122	126	131	138	142	147	146	144	141	140	136	136	135	
13*	136	136	137	139	141	141		138	136	133	130	131	123	125	132	139	139	144	142	145	142	136	136	133	131	
14*	132	131	133	136	136	137		137	135	136	134	129	124	124	122	129	133	137	136	139	139	137	134	133	132	
15	132	132	132	135	134	133		134	134	132	126	117	111	111	117	122	123	129	132	133	135	134	133	132	131	
16	130	127	127	127	130	130		129	129	129	130	127	125	125	122	129	127	134	140	145	145	142	138	137	132	
17	126	125	127	131	130	132		134	132	127	123	121	119	123	128	132	132	134	139	145	142	140	138	136	133	
18	128	120	122	129	130	132		134	133	131	129	124	120	115	114	121	127	133	136	139	140	138	135	133	132	
19	131	131	128	123	125	127		129	127	125	123	123	123	122	124	132	134	136	137	138	135	134	136	134	128	
20	127	127	127	129	133	134		133	129	127	124	120	117	112	110	119	125	133	134	134	132	133	133	130	130	
21**	128	124	117	111	112	117		106	100	105	103	108	113	118	127	142	147	148	153	158	164	162	149	143	141	
22	136	131	123	125	121	131		129	130	130	120	120	122	122	129	137	145	149	150	145	140	139	135	136	135	
23	132	126	123	128	126	133		133	133	131	132	128	116	120	129	139	143	146	148	144	142	139	137	139	133	
24	123	122	122	127	130	134		135	133	132	122	124	119	111	116	127	137	142	143	141	139	137	135	135	135	
25	129	130	133	135	133	134		133	134	132	129	122	116	114	124	137	139	140	139	140	140	136	133	132	132	
26*	133	133	133	135	135	136		136	133	132	127	118	113	107	112	122	128	135	138	139	136	132	133	131	129	
27*	131	131	131	131	133	132		127	127	127	122	119	110	105	105	114	125	132	136	137	133	131	129	127	127	
28	125	126	127	131	131	131		133	130	126	119	107	100	105	112	122	132	135	137	137	135	132	128	127	126	
29*	127	127	129	132	131	131		130	130	127	116	110	98	99	99	105	113	120	127	132	132	130	128	127	127	
30	124	124	124	128	128	130		131	129	121	112	110	100	101	109	115	124	127	129	134	132	132	130	131	132	
31	132	131	130	132	133	136		138	137	130	123	108	98	99	110	120	123	127	131	132	132	129	130	127		
† Mean	130	127	126	128	128	130		130	129	128	124	121	116	117	122	130	135	139	142	143	142	139	135	133	131	
Mean*	132	132	133	135	135	135		134	132	131	126	121	114	112	114	122	128	134	136	138	136	133	132	130	129	
† Mean**	134	125	114	109	108	114		115	117	124	122	124	128	136	146	156	160	160	162	163	161	157	146	140	139	
August																										
43000 γ + Tabular Quantities (in γ)																										
1	125	123	124	127	128	131		132	130	128	124	116	108	105	110	122	127	134	137	140	145	142	136	135	135	
2**	134	126	127	112	114	120		126	126	120	114	105	107	111	125	143	177	192	193	186	173	158	149	140	136	
3	132	132	134	135	138	138		133	132	129	123	118	110	116	127	138	146	152	161	151	149	145	140	138	136	
4**	136	128	108	118	98	72		75	85	92	90	92	106	135	169	260	264	251	250	206	188	170	143	124	107	
5	83	94	84	103	125	137		142	142	139	129	124	123	127	138	155	165	175	172	164	160	155	150	147	141	
6	135	140	139	142	136	136		131	125	122	121	123	119	125	134	145	163	156	159	165	162	156	149	149	129	
7	110	114	119	132	136	137		136	131	123	115	114	113	117	121	129	139	149	154	152	145	140	136	139	133	
8	132	134	136	139	138	137		138	135	132	125	124	126	132	130	134	143	146	144	142	140	138	138	136	136	
9*	137	137	136	139	139	139		139	132	127	122	116	109	108	114	123	131	136	137	136	136	135	133	132	132	
10*	133	134	133	132	134	136		137	136	135	131	127	121	112	115	124	133	135	139	136	136	134	132	132	132	
11	132	133	133	133	139	137		135	133	127	124	115	111	111	111	118	128	131	136	139	140	135	135	131	131	
12	131	131	129	126	131	131		131	131	123	121	115	115	115	119	121	128	131	135	137	134	132	129	129	124	
13	124	126	127	127	128	128		128	124	121	119	113	106	104	113	118	127	131	138	139	135	131	131	129	122	
14	120	122	126	128	131	127		126	130	128	124	115	106	106	116	124	132	137	139	138	134	131	130	127	126	
15	126	124	121	124	128	126		126	128	125	122	119	118	118	122	131	134	131	130	132	134	131	130	128	127	
16*	127	126	128	127	129	128		131	131	124	120	116	106	98	104	109	118	123	131	135	138	134	131	128	128	
17*	128	127	124	126	126	128		131	131	133	126	117	107	104	111	118	128	128	133	132	132	131	130	131	130	
18	130	129	129	129	131	129		129	128	125	122	113	109	111	113	116	122	122	121	122	126	128	131	128	126	
19	124	124	122	118	122	120		118	117	113	117	115	114	111	117	123	131	145	145	141	135	135	135	133	127	
20	126	126	125	127	132	131		131	130	127	125	121	121	126	130	138	139	140	141	135	134	134	133	132	131	
21	132	127	130	131	134	133		130	129	121	112	112	112	112	118	123	126	134	134	136	139	135	132	131	127	
22	125	127	127	127	131	129		129	128	123	123	120	111	108	114	119	121	124	125	125	127	128	131	129	129	
23*	129	129	129	128	132	131		130	129	126	122	116	110	105	105	109	119	124	128	127	125	125	126	125		

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	133	132	131	129	135	135	138	135	129	125	122	121	119	122	132	134	148	158	154	149	142	139	135	132		
2	121	120	123	129	133	135	138	136	132	123	112	114	114	126	132	135	141	142	140	140	136	131	132	127		
3	119	121	126	129	133	134	134	134	127	121	118	117	116	121	126	130	132	132	130	130	131	133	130	130		
4*	132	131	131	132	132	132	134	132	128	125	121	121	120	125	129	134	135	134	131	131	132	131	131	132		
5*	133	133	133	133	135	133	132	130	125	116	112	112	116	120	126	126	126	127	126	127	127	127	125	129		
6*	129	128	129	128	130	127	127	125	123	123	118	107	108	117	125	127	129	129	125	128	129	127	126	126		
7	126	127	127	127	126	125	125	123	122	116	114	114	118	121	130	133	139	141	140	136	131	124	127	129		
8	130	127	120	122	127	127	127	127	122	120	115	110	110	117	123	129	129	132	131	132	132	131	125	126		
9	127	125	125	123	127	128	128	127	123	121	118	112	112	114	121	126	127	129	130	132	132	130	129	121		
10	108	112	118	122	127	128	129	128	123	118	115	117	116	118	123	129	131	132	132	134	137	131	129	127		
11	129	127	125	125	128	129	130	127	124	119	110	108	112	124	132	136	141	143	138	139	138	135	126	122		
12*	119	121	123	123	125	127	128	129	123	119	110	111	111	110	117	125	127	128	127	128	127	127	125	125		
13**	125	125	125	125	127	125	125	125	118	108	101	101	107	124	144	140	150	152	155	146	142	138	137	125		
14	115	115	114	110	112	115	116	117	117	118	120	120	122	126	133	139	141	141	138	141	138	131	117	109		
15**	106	103	111	120	123	125	128	130	124	123	118	117	120	129	134	134	130	131	139	156	146	137	130	131		
16	130	106	107	117	121	126	127	131	129	126	124	119	116	120	125	130	132	136	139	144	141	140	133	128		
17	127	130	130	131	133	133	133	131	124	120	114	113	115	120	128	132	137	148	146	141	139	137	135	134		
18**	134	133	133	132	134	122	113	109	117	125	122	169	241	385	320	454	437	350	345	+4	-84	-14	-81	-33		
19**	-100	-142	-129	-193	-247	-169	-62	+7	59	116	143	156	163	164	171	176	173	173	183	187	143	148	163	163		
20**	156	134	139	144	150	151	150	150	151	153	151	167	180	183	174	172	168	165	165	163	161	162	160	158		
21	159	159	156	141	124	141	148	147	150	154	155	156	163	169	169	193	189	168	160	159	157	156	156	154		
22*	155	154	154	153	152	152	150	151	149	148	141	134	133	133	140	146	149	152	151	153	152	151	147	148		
23	149	150	150	150	152	150	151	150	148	143	134	131	133	140	153	172	185	186	173	165	156	154	150	150		
24	140	135	137	141	143	143	140	141	140	136	127	122	126	133	140	148	150	153	161	168	160	153	124	104		
25	96	115	128	137	143	145	150	150	142	139	133	131	133	148	166	169	173	174	172	167	160	156	152	150		
26	149	149	150	149	150	149	152	153	151	144	134	131	131	137	140	143	147	147	146	148	148	149	146	144		
27	146	142	143	140	143	144	147	150	146	143	136	133	134	138	143	153	166	167	165	163	159	154	150	148		
28	144	143	142	144	146	150	153	155	152	152	146	139	130	130	135	144	145	153	153	156	153	150	148	146		
29	143	141	141	140	136	135	135	139	137	135	131	128	128	137	138	143	144	148	150	151	150	146	137	135		
30	139	133	124	131	139	139	142	142	140	135	131	128	128	128	135	143	147	146	147	150	150	144	141	143		
† Mean	132	130	131	132	134	135	136	136	133	129	124	123	124	130	136	142	145	146	145	146	143	140	136	133		
Mean*	134	133	134	134	135	134	134	133	130	126	120	117	118	121	127	132	133	134	132	133	133	133	131	132		
† Mean**	129	121	125	130	133	134	134	135	131	128	123	128	136	145	151	149	149	149	153	155	150	146	142	138		
October																										
43000 γ + Tabular Quantities (in γ)																										
1	143	143	142	138	139	139	141	144	144	140	132	128	129	134	136	140	142	143	143	144	144	144	142	142		
2	142	142	141	140	141	140	141	144	139	136	132	133	134	136	138	139	140	141	142	144	148	149	140	139		
3	134	137	139	140	143	140	143	144	140	138	135	135	135	138	141	144	145	146	146	146	145	145	147	148		
4*	145	143	144	143	143	142	143	142	139	135	127	125	125	129	132	133	132	133	134	135	135	136	138	137		
5	138	139	139	139	137	137	140	144	142	138	133	126	128	131	138	141	141	140	139	139	139	138	139	139		
6*	141	139	139	139	140	139	139	135	131	129	126	124	127	135	139	140	141	141	140	140	139	140	139	139		
7*	139	140	139	139	140	139	139	139	135	132	125	118	119	125	132	136	135	135	136	139	139	138	135	136		
8	139	139	129	125	123	129	134	135	134	133	130	131	133	135	136	141	147	150	153	152	148	144	139	139		
9	140	142	142	141	141	141	142	145	141	137	126	121	124	129	137	143	142	140	140	140	140	140	136	136		
10	136	136	137	137	139	136	136	134	130	127	124	123	124	126	130	133	133	132	136	141	142	146	143	140		
11**	138	130	125	127	133	134	134	134	126	126	124	130	140	146	150	158	160	172	175	161	142	141	118	82		
12**	104	107	113	104	115	129	137	141	143	142	137	132	136	140	144	151	154	154	149	149	149	147	143	134		
13	131	133	137	140	141	141	144	146	145	137	126	130	137	142	145	145	146	146	147	146	146	145	143	141		
14	136	136	136	137	140	141	139	143	142	135	128	127	131	136	149	157	162	156	152	152	151	150	144	141		
15	127	127	129	134	137	132	136	140	141	139	139	141	143	148	154	158	161	165	165	160	157	153	148	148		
16**	147	146	145	135	128	134	136	142	144	145	140	136	135	140	147	155	163	161	157	155	151	148	144	145		
17*	146	145	145	144	145	144	143	144	141	136	135	136	137	143	150	153	151	149	147	147	146	146	143	142		
18	142	142	142	142	143	142	143	145	144	143	141	144	147	148	151	155	156	154	153	155	155	151	151	149		
19	147	146	142	137	139	141	143	145	144	141	137	141	146	153	158	167	171	165	158	156	153	151	151	150		
20	148	147	146	146	146	145	144	146	145	144	138	140	141	145	149	150	147	146	144	145	144	145	141	141		
21*	141	139	137	140	142	141	142	145	143	141	135	136	138	142	146	148	144	141	141	140	140	139	137	137		
22**	137	137	137	136	137	136	138	141	141	136	131	131	134	141	141	147	156	186	208	188	176	157	133	131		
23	138	146	147	147	149	146	146	146																		

MAGNETIC OBSERVATIONS, ABINGER 1941.

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	65	55	68	55	64	92	104	128	141	145	160	171	185	212	215	220	201	178	168	161	161	157	156				
2	156	155	155	154	152	151	151	152	155	157	156	157	157	156	157	157	154	151	149	149	150	147	147	147				
3	147	147	147	147	148	147	146	146	145	144	142	141	141	147	151	151	147	148	148	148	147	148	147	147				
4*	147	147	146	145	147	143	142	147	149	148	145	145	143	147	153	154	151	151	149	149	149	151	151	151				
5	151	151	150	150	150	147	146	146	144	141	138	141	144	147	149	154	156	160	162	159	160	155	151	150				
6**	146	144	146	145	143	138	136	138	140	141	141	155	167	177	177	175	181	179	176	168	160	148	135	132				
7	132	127	140	147	149	150	151	151	150	145	141	144	142	148	152	153	155	157	152	148	149	149	144	142				
8	141	141	140	135	131	134	135	137	140	139	141	142	146	151	161	161	155	151	156	155	151	147	143	142				
9	141	141	142	143	143	142	146	147	145	140	135	139	144	154	162	170	161	156	150	151	151	150	145	145				
10**	143	137	136	134	136	137	139	141	142	145	145	145	147	157	168	164	160	169	177	174	166	159	152	146				
11	127	126	122	117	126	136	144	150	150	147	147	151	149	152	153	156	156	156	163	161	159	157	152	152				
12	152	151	151	151	151	151	151	151	151	152	148	150	152	157	157	157	155	155	157	160	158	149	142	146				
13	147	147	147	147	151	150	151	155	155	151	145	145	147	151	152	152	152	153	154	157	155	152	148	144				
14	143	144	143	142	144	143	143	143	141	141	139	141	143	147	149	149	147	147	147	149	150	148	146	143				
15*	142	142	142	142	143	144	143	142	141	141	136	138	141	145	147	147	146	143	142	143	143	143	141	138				
16*	137	139	138	137	137	137	138	141	140	138	137	141	143	145	145	146	142	145	142	141	141	142	146	147				
17**	145	145	146	143	141	138	132	131	131	141	145	150	155	165	175	189	190	192	193	178	169	168	157	152				
18	147	145	144	147	147	147	147	144	143	143	145	147	155	161	162	167	174	171	176	181	172	158	146	141				
19	141	127	124	136	140	141	141	142	141	139	136	140	143	148	148	148	148	148	146	146	149	153	156	155				
20	152	149	149	149	149	147	146	143	141	142	141	142	143	151	151	151	150	149	147	147	149	147	145	147				
21	147	151	150	149	148	149	148	145	143	142	141	141	143	148	150	150	150	150	151	149	147	145	143	143				
22	143	145	145	146	146	145	142	140	135	132	132	135	136	140	144	151	157	153	152	153	155	147	146	149				
23	146	143	141	132	136	135	141	142	142	142	140	136	136	139	142	150	150	150	144	146	146	147	151	145				
24*	145	145	143	143	144	143	142	141	140	137	137	136	134	140	141	142	143	145	145	146	146	147	144	143				
25	141	141	141	140	141	141	141	139	137	138	135	135	135	136	134	139	141	142	144	146	146	144	141	139				
26*	139	137	137	137	138	138	140	139	137	137	135	135	136	141	141	141	143	144	144	143	142	141	139	139				
27	139	138	137	137	136	135	134	131	130	130	131	135	135	136	137	136	137	137	137	140	141	141	140	141				
28**	141	144	151	148	131	113	109	112	123	130	135	147	151	153	153	151	151	157	178	178	182	175	167	161				
29	160	158	157	154	152	152	152	151	147	148	147	147	151	152	153	155	152	151	151	151	151	151	151	151				
30	151	151	150	148	147	146	147	146	145	144	144	145	146	150	152	154	153	153	151	154	156	157	157	155				
Mean	142	141	141	140	140	139	141	141	142	142	141	144	146	151	154	156	156	155	155	155	153	151	148	146				
Mean*	142	142	141	141	142	141	141	142	141	140	138	139	139	144	145	146	145	146	144	144	144	145	144	144				
Mean**	132	127	127	128	121	118	122	125	133	140	142	151	158	167	177	179	180	180	180	173	168	162	154	149				
December																												
43000 γ + Tabular Quantities (in γ)																												
1**	156	156	155	150	150	146	141	140	135	133	131	148	153	168	231	300	287	241	224	201	185	151	143	128				
2**	113	122	130	130	127	116	135	145	145	145	146	149	150	161	160	161	161	163	165	164	161	157	154	153				
3	153	153	152	152	152	151	149	148	148	148	149	147	148	152	153	152	151	151	152	154	156	157	152	152				
4	151	150	151	145	142	142	142	141	136	135	134	135	141	148	153	152	157	159	161	168	167	158	156	154				
5	153	152	151	151	151	147	146	143	141	141	138	141	142	147	149	152	152	154	160	168	161	161	161	161				
6	156	153	151	151	151	151	149	148	146	147	145	145	142	143	148	151	153	154	152	151	151	147	141	143				
7	143	143	142	143	143	145	145	144	141	141	138	138	141	146	146	150	150	151	150	150	151	147	145	143				
8	142	142	143	144	146	145	144	143	139	139	136	135	136	141	142	149	150	151	151	151	149	149	147	141				
9	141	141	142	143	145	144	141	141	140	137	133	136	140	145	149	150	150	151	148	147	148	148	147	138				
10	135	140	141	141	143	143	143	142	141	141	139	141	141	145	147	150	151	151	150	150	148	147	144	144				
11*	144	143	143	143	145	146	146	146	143	142	142	142	143	145	146	147	148	149	149	149	147	145	144	143				
12*	143	143	143	143	144	145	145	146	142	137	136	138	142	146	146	147	147	148	149	148	146	145	143	142				
13	139	136	137	137	138	138	138	139	137	136	133	131	133	137	141	146	150	162	179	178	163	158	152	146				
14**	138	131	132	122	126	133	139	142	143	142	146	149	148	155	157	166	158	161	159	162								

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.	10°+	10°+	U. T.	'	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 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	38.4	16 9	44.7	24.5	20 13	20.2	533	20 26	577	478	16 15	99	115	17 25	140	97	12 55	43
2	38.7	13 58	42.7	35.4	22 12	7.3	538	2 40	566	517	14 10	49	113	15 10	122	105	12 55	17
3	39.0	15 10	41.8	28.4	23 50	13.4	549	20 55	566	532	23 38	34	108	18 32	114	97	12 50	17
4	38.7	13 15	42.2	28.7	0 5	13.5	542	7 45	564	521	1 19	43	110	16 50	116	96	12 12	20
5*	39.7	11 50	41.9	37.7	23 50	4.2	557	18 42	576	539	15 35	37	106	9 30	112	100	22 5	12
6	38.2	8 5	42.3	29.3	4 30	13.0	540	7 40	573	503	11 40	70	107	15 30	117	85	4 30	32
7	38.9	18 0	44.5	28.7	17 1	15.8	533	7 24	557	476	16 48	82	117	18 48	141	106	7 43	35
8	38.8	12 10	43.6	33.2	21 31	10.4	539	21 56	560	519	0 55	41	114	0 35	121	106	11 10	15
9	39.5	14 32	48.4	34.0	19 30	14.4	535	6 10	564	498	14 6	66	115	15 25	126	105	10 55	21
10	38.8	12 48	44.5	34.3	1 6	10.2	540	21 48	578	528	13 45	50	112	0 14	120	102	12 8	18
11	38.6	12 30	46.4	31.5	1 28	14.9	537	8 15	551	515	18 58	36	114	19 30	125	104	11 50	21
12	38.7	13 35	42.6	34.4	21 52	8.2	540	22 25	560	519	14 5	41	115	15 55	122	106	9 25	16
13	38.8	13 0	42.3	34.4	1 28	7.9	547	21 50	563	525	21 10	38	113	0 22	122	103	11 10	19
14*	38.5	12 50	42.1	34.4	22 35	7.7	549	14 20	560	520	23 30	40	109	0 25	117	100	11 40	17
15*	38.2	13 0	42.0	34.4	1 52	7.6	554	14 53	567	527	0 0	40	108	0 4	116	99	11 5	17
16	39.8	14 48	46.0	37.0	22 35	9.0	549	8 25	572	506	15 39	66	108	17 0	123	98	11 40	25
17**	37.9	8 53	46.6	19.7	17 10	26.9	529	1 35	599	434	16 50	165	111	17 5	176	78	2 11	98
18**	38.0	11 46	45.2	14.9	19 21	30.3	529	23 40	615	459	18 50	156	113	19 20	142	90	24 0	52
19	38.3	13 54	44.4	29.3	21 23	15.1	531	0 0	581	488	17 0	93	113	17 25	131	86	0 24	45
20	38.7	11 38	42.2	29.8	21 40	12.4	543	21 45	599	519	0 46	80	108	8 10	117	96	0 5	21
21*	38.6	12 50	41.3	34.5	20 58	6.8	550	7 5	564	532	11 20	32	107	21 20	114	101	4 23	13
22	39.0	13 15	43.5	31.5	21 12	12.0	553	21 20	595	523	20 24	72	108	20 25	121	101	22 23	20
23**	38.5	13 17	46.2	25.2	18 15	21.0	530	1 19	579	464	15 58	115	118	17 22	162	95	1 40	67
24**	38.4	12 58	50.4	26.8	17 25	23.6	524	21 24	580	466	13 20	114	120	17 25	156	99	7 30	57
25**	38.2	12 30	44.7	24.1	23 52	20.6	533	28 48	565	490	16 7	75	116	16 25	140	93	5 31	47
26	38.2	13 30	44.9	25.9	21 16	19.0	536	21 20	584	501	10 50	83	113	15 30	133	89	0 41	44
27	37.7	13 35	46.4	29.8	17 0	16.6	542	23 2	585	505	18 47	80	116	17 0	137	100	23 44	37
28	38.7	12 59	45.7	28.0	19 9	17.7	544	19 25	579	519	12 56	60	113	17 10	127	104	0 3	23
29	38.3	13 25	41.7	32.6	23 52	9.1	546	23 35	568	524	11 42	44	112	15 55	120	104	11 5	16
30	38.4	13 10	44.4	29.7	18 53	14.7	539	7 30	558	507	17 5	51	113	18 25	135	99	10 43	36
31*	38.6	12 25	41.4	36.7	7 40	4.7	547	6 32	559	539	1 42	20	112	17 45	121	99	9 33	22
Mean	38.6	-	44.1	30.3	-	13.8	541	-	573	506	-	66.8	112	-	129	98	-	30.4
Mean*	38.7	-	41.7	35.5	-	6.2	551	-	565	531	-	33.8	108	-	116	100	-	16.2
Mean**	38.2	-	46.6	22.1	-	24.5	529	-	588	463	-	125.0	116	-	155	91	-	64.2
February	10°+	U. T.	10°+	10°+	U. T.	'	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*	39.3	17 45	44.7	36.3	22 50	8.4	544	15 10	556	525	12 28	31	114	20 20	126	103	10 30	23
2	38.1	13 7	42.1	35.0	21 50	7.1	540	18 33	560	500	21 0	60	118	21 20	136	110	10 10	26
3	37.4	13 55	46.7	28.0	4 21	18.7	527	3 40	587	473	19 38	114	120	20 20	144	99	4 18	45
4	38.4	13 5	46.8	30.0	2 15	16.8	533	1 40	550	511	13 40	39	119	16 5	134	109	18 40	25
5	38.1	13 55	46.6	24.7	21 15	21.9	539	17 55	564	509	21 48	55	118	21 20	136	107	11 8	29
6	38.2	16 8	46.2	28.3	2 28	17.9	529	24 0	569	492	10 47	77	119	20 25	135	98	7 0	37
7**	37.0	13 42	46.4	26.0	1 28	20.4	540	20 50	590	481	14 57	109	111	15 45	129	97	6 5	32
8	37.3	13 25	42.9	27.8	0 0	15.1	540	21 10	573	510	11 45	63	112	15 50	124	98	4 25	26
9	37.8	7 5	42.8	24.1	20 3	18.7	544	5 50	560	515	21 51	45	112	20 10	123	101	9 35	22
10	38.9	1 20	43.6	34.8	21 55	8.8	543	7 15	556	523	22 29	33	114	22 10	126	105	5 30	21
11*	38.2	16 50	42.0	34.0	19 9	8.0	541	6 45	558	519	20 40	39	117	19 20	128	106	9 25	22
12*	37.7	14 40	41.7	34.3	1 0	7.4	547	19 22	561	530	21 55	31	114	23 5	122	105	11 5	17
13**	37.8	13 13	49.4	24.4	22 8	25.0	543	6 35	583	477	17 18	106	114	17 35	148	93	9 50	55
14	37.4	1 35	44.5	30.4	3 3	14.1	543	23 29	582	472	10 30	110	113	16 10	133	85	2 3	48
15	37.8	13 20	44.8	27.6	19 20	17.2	541	0 15	568	498	10 40	70	110	19 30	129	90	0 59	39
16	37.9	3 10	44.0	32.6	21 10	11.4	546	22 20	602	527	11 40	75	109	20 30	122	91	22 50	31
17	37.3	14 37	43.2	24.1	19 27	19.1	540	20 27	585	482	10 40	103	113	19 45	132	98	1 50	34
18*	37.6	13 59	41.5	33.1	19 40	8.4	544	7 10	559	523	12 0	36	112	19 20	123	102	12 45	21
19	37.6	16 20	40.5	32.2	17 12	8.3	547	22 19	561	509	17 7	52	112	17 35	128	99	14 0	29
20	37.5	11 52	42.3	26.2	21 39	16.1	548	7 25	568	512	21 35	56	113	22 30	133	98	11 10	35
21**	36.7	13 30	46.3	23.8	21 26	22.5	533	0 20	566	459	15 50	107	116	16 0	171	91	2 35	80
22**	36.3	14 40	45.7	16.7	16 24	29.0	534	20 54	599	458	16 12	141	118	16 35	164	96	23 54	68
23**	36.6	2 5	45.0	15.5	18 26	29.5	527	20 3	577	475	18 20	102	121	17 50	155	95	23 45	60
24	37.3	12 5	43.8	23.9	16 24	19.9	535	19 27	585	484	16 10	101	117	16 35	147	100	0 0	47
25	36.8	13 7	43.4	23.8	18 30	19.6	541	22 3	596	491	18 25	105	115	18 40	141	102	1 30	39
26	37.4	11 32	44.6	33.4	18 10	11.2	541	19 45	558	509	10 42	49	110	15 25	127	94	3 33	33
27*	37.1	13 0	41.6	33.4	17 40	8.2	546	16 30	563	524	9 35	39	114	17 50				

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.	10°+	10°+	U. T.		18000	U. T.	18000	18000	U. T.	Y	43000	U. T.	43000	43000	U. T.	Y	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	Y +	h m	Y		
March																							
1**	-	16 31	164.4	-21.7	16 26	186.1	-	14 58	†1900	250	19 38	†1650	-	14 42	†883	†-429	16 30	†1312	-	14 42	16 30	†1312	
2	33.9	1 36	40.3	24.8	0 0	15.5	453	21 38	539	371	0 58	168	162	0 0	211	127	22 40	84	162	0 0	211	127	
3	35.3	14 40	44.0	24.3	19 19	19.7	497	17 20	576	455	15 40	121	139	17 20	195	124	2 5	71	139	17 20	195	124	
4	35.5	14 35	45.4	15.4	21 22	30.0	506	21 31	598	428	9 56	170	131	17 55	162	110	6 0	52	131	17 55	162	110	
5	34.8	14 23	46.0	21.8	21 18	24.2	509	18 23	578	468	14 37	110	133	18 10	174	102	0 55	72	133	18 10	174	102	
6	36.3	14 20	42.3	28.3	18 8	14.0	511	18 47	535	467	10 51	68	134	18 12	168	112	10 50	56	134	18 12	168	112	
7	36.9	14 48	41.7	27.6	22 50	14.1	527	20 4	587	500	22 53	87	130	19 45	146	110	22 50	36	130	19 45	146	110	
8	35.4	14 20	41.7	25.6	21 2	16.1	529	21 7	592	500	13 5	92	124	20 50	143	102	11 30	41	124	20 50	143	102	
9	35.8	13 25	42.2	26.1	19 56	16.1	531	20 7	594	510	12 40	84	123	16 15	135	107	23 45	28	123	16 15	135	107	
10*	35.6	11 50	41.6	29.3	0 55	12.3	536	0 0	564	518	5 45	46	121	16 0	134	105	0 30	29	121	16 0	134	105	
11	36.3	13 15	42.4	22.6	22 5	19.8	532	22 8	555	471	22 43	84	123	21 45	146	110	12 40	36	123	21 45	146	110	
12	37.4	14 5	44.4	25.7	23 10	18.7	537	11 50	562	503	15 0	59	125	19 50	135	110	11 45	25	125	19 50	135	110	
13	35.4	13 30	40.1	25.8	22 54	14.3	538	15 24	564	508	19 10	56	123	20 10	142	107	11 55	35	123	20 10	142	107	
14**	35.9	12 0	49.3	17.7	0 45	31.6	502	23 13	590	387	10 48	203	124	13 40	173	49	2 8	124	124	13 40	173	49	
15	37.2	12 40	44.5	28.7	18 45	15.8	521	21 28	583	468	9 0	115	126	17 40	140	102	23 46	38	126	17 40	140	102	
16*	36.7	12 50	40.7	31.5	0 57	9.2	530	19 9	547	508	10 46	39	123	15 50	134	107	0 2	27	123	15 50	134	107	
17*	37.0	13 15	42.9	34.0	7 35	8.9	536	22 20	554	517	10 5	37	123	6 50	131	108	12 50	23	123	6 50	131	108	
18	37.1	13 5	42.2	31.7	23 35	10.5	542	23 21	580	521	9 56	59	120	7 15	133	102	12 5	31	120	7 15	133	102	
19	37.1	13 58	50.6	27.7	21 0	22.9	538	22 23	567	470	14 47	97	123	18 10	151	103	11 40	48	123	18 10	151	103	
20	37.6	14 8	45.2	25.9	16 43	19.3	532	21 41	607	463	16 36	144	125	16 50	183	96	1 35	87	125	16 50	183	96	
21	36.3	12 16	45.0	14.8	18 42	30.2	533	18 50	654	495	13 40	159	124	18 50	158	102	0 30	56	124	18 50	158	102	
22	36.1	2 58	45.7	12.1	17 59	33.6	525	18 5	599	475	17 54	124	126	18 5	175	96	3 25	79	126	18 5	175	96	
23	36.4	12 5	46.0	23.2	21 36	22.8	533	22 0	623	481	16 36	142	128	17 20	162	105	22 35	57	128	17 20	162	105	
24	35.4	14 8	41.3	26.0	21 45	15.3	532	22 0	571	504	9 53	67	124	17 35	139	116	9 50	23	124	17 35	139	116	
25	36.2	13 32	42.4	30.3	19 12	12.1	540	22 10	554	505	9 53	49	121	18 20	134	103	13 0	31	121	18 20	134	103	
26*	36.7	13 35	41.7	31.6	8 20	10.1	542	19 35	554	520	10 2	34	123	16 35	133	110	10 50	23	123	16 35	133	110	
27*	36.8	12 58	43.6	30.7	8 45	12.9	547	23 20	569	522	10 40	47	120	16 25	127	98	11 55	29	120	16 25	127	98	
28**	36.2	15 3	57.0	18.0	20 30	39.0	529	21 2	601	457	17 48	144	130	17 50	196	90	1 58	106	130	17 50	196	90	
29	34.1	13 43	46.0	12.3	20 39	33.7	521	20 43	627	454	22 2	173	128	19 16	179	95	21 55	84	128	19 16	179	95	
30**	33.7	21 59	52.4	0.5	23 41	51.9	507	16 39	623	345	22 3	278	127	19 15	197	51	23 39	146	127	19 15	197	51	
31**	34.5	12 0	42.1	14.1	1 37	28.0	500	17 20	570	334	11 41	236	122	17 19	158	12	1 8	146	122	17 19	158	12	
Mean	†36.0	-	48.2	22.1	-	26.1	†524	-	623	464	-	159.4	†127	-	180	82	-	97.9	†127	-	180	82	
Mean*	36.6	-	42.1	31.4	-	10.7	538	-	558	517	-	40.6	122	-	132	106	-	26.2	122	-	132	106	
Mean**	(35.1)	-	73.0	5.7	-	67.3	(510)	-	†875	†355	-	502.2	(126)	-	†321	†-45	-	366.8	(126)	-	†321	†-45	
April																							
1	35.7	13 3	42.4	31.9	23 50	10.5	525	21 55	566	496	11 40	70	131	0 0	142	113	12 0	29	131	0 0	142	113	
2	36.1	14 0	46.4	26.8	21 25	19.6	533	21 30	562	508	10 15	54	125	15 20	143	108	11 45	35	125	15 20	143	108	
3	35.8	14 5	44.2	30.4	5 20	13.8	533	23 12	561	514	15 5	47	128	15 50	151	109	11 42	42	128	15 50	151	109	
4	36.0	12 50	42.7	31.7	8 53	11.0	536	23 50	562	510	10 42	52	126	17 50	134	107	10 45	27	126	17 50	134	107	
5	35.8	13 25	43.1	30.9	7 40	12.2	537	22 58	560	516	11 15	44	125	22 48	137	104	11 0	33	125	22 48	137	104	
6	35.5	13 50	43.0	30.0	21 55	13.0	539	19 10	557	519	11 42	38	126	15 50	137	115	12 48	22	126	15 50	137	115	
7**	35.6	14 15	44.6	17.5	23 45	27.1	548	23 42	610	516	12 56	94	119	21 22	142	96	11 10	46	119	21 22	142	96	
8	35.5	14 0	41.7	28.3	0 0	13.4	545	23 42	577	518	12 42	59	120	18 23	134	95	0 5	39	120	18 23	134	95	
9	36.8	13 27	46.2	20.6	0 25	15.6	541	6 32	566	498	15 4	68	119	17 30	135	104	11 55	31	119	17 30	135	104	
10**	35.4	13 45	42.9	18.1	22 30	24.8	535	19 19	579	501	7 33	78	127	16 25	163	102	12 50	61	127	16 25	163	102	
11	35.9	13 40	43.1	28.8	20 30	14.3	534	19 55	569	487	9 18	82	124	19 0	143	109	11 55	34	124	19 0	143	109	
12	36.8	5 18	42.8	28.9	8 20	13.9	542	23 22	568	498	12 10	70	121	16 55	138	102	12 0	36	121	16 55	138	102	
13	35.4	1 18	42.7	29.4	8 0	13.3	541	23 14	564	517	10 42	47	121	17 35	133	99	11 15	34	121	17 35	133	99	
14*	35.8	13 30	41.4	31.1	8 20	10.3	544	16 50	560	525	10 35	35	118	6 25	128	95	12 5	33	118	6 25	128	95	
15	36.2	13 30	43.1	31.4	9 5	11.7	554	22 12	582	530	10 48	52	118	17 50	127	95	12 45	32	118	17 50	127	95	
16	36.2	13 0	44.1	29.3	1 11	14.8	544	1 20	578	492	11 57	86	119	17 35	133	96	11 0	37	119	17 35	133	96	
17	36.1	14 18	43.0	30.8	8 45	12.2	547	16 55	576	512	11 45	64	119	17									

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
May	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	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	35.3	14 30	42.7	26.6	21 22	16.1	542	16 57	579	521	11 24	58	127	19 5	151	103	12 0	48
2*	33.4	14 8	43.7	26.7	4 59	17.0	543	17 0	567	509	12 34	58	124	17 30	139	104	10 37	35
3*	33.9	13 0	40.0	27.1	5 50	12.9	548	20 55	566	516	11 36	50	123	18 20	140	102	11 36	38
4	35.0	12 42	42.2	27.8	6 10	14.4	550	7 10	588	518	11 7	70	116	18 25	139	86	10 3	53
5*	35.2	13 35	40.1	31.2	6 5	8.9	551	18 0	573	530	14 30	43	118	18 20	129	103	10 5	26
6	35.0	12 30	40.4	29.9	5 50	10.5	549	20 4	589	512	12 0	77	122	19 20	141	104	11 35	37
7	34.9	14 30	38.5	29.3	9 7	9.2	551	21 15	579	532	12 10	47	117	18 35	128	97	12 0	31
8	36.0	13 36	44.3	31.5	8 0	12.8	554	19 4	585	531	11 30	54	115	21 0	133	94	11 50	39
9	36.0	12 55	42.2	31.9	5 40	10.3	556	24 0	596	537	11 40	59	116	17 0	130	95	11 40	35
10	34.9	12 24	40.8	28.8	6 10	12.0	557	0 6	598	525	10 40	73	113	17 13	133	95	10 20	38
11	34.7	14 12	41.3	28.1	8 5	13.2	549	1 2	580	514	10 0	66	118	16 15	131	107	12 0	24
12	35.4	13 40	42.3	28.2	8 12	14.1	555	20 40	588	531	9 10	57	116	18 22	127	95	11 8	32
13	35.7	14 20	43.1	29.5	8 24	13.6	553	17 22	591	523	9 12	68	117	17 22	139	89	11 50	50
14	35.2	13 45	42.4	29.5	7 54	12.9	554	23 52	587	519	12 6	68	118	16 58	130	100	11 20	30
15	34.6	13 30	41.5	27.9	6 58	13.6	557	18 30	587	524	11 55	63	114	18 35	128	95	11 54	33
16	35.9	13 30	43.0	27.9	0 54	15.1	555	1 4	598	506	11 28	92	116	15 40	137	99	12 10	38
17**	36.8	4 51	46.2	31.4	9 7	14.8	538	22 9	591	479	14 20	112	113	15 30	140	82	6 48	58
18	34.8	14 40	40.9	29.0	20 10	11.9	544	22 29	578	520	12 12	58	118	20 15	135	96	11 12	39
19*	35.3	14 15	40.8	30.3	8 50	10.5	543	18 30	571	523	9 50	48	120	18 25	136	94	11 50	42
20*	34.5	13 33	40.1	28.1	8 20	12.0	553	22 25	577	532	8 18	45	119	6 10	132	97	12 5	35
21**	35.5	17 30	44.5	22.2	22 22	22.3	558	19 38	612	519	18 54	93	117	17 30	140	94	11 58	46
22**	33.6	13 53	44.6	17.9	20 35	26.7	543	20 45	627	506	12 2	121	109	20 40	141	65	3 22	76
23**	34.7	13 0	45.6	27.1	22 38	18.5	550	18 38	617	514	9 50	103	115	18 37	148	94	11 25	54
24**	34.5	12 59	41.8	24.9	1 56	16.9	537	18 10	590	487	7 43	103	112	18 10	156	81	6 55	75
25	34.7	14 22	43.1	25.2	0 36	17.9	539	21 42	587	500	9 0	87	120	18 52	154	96	11 5	58
26	34.8	14 2	41.6	30.3	9 10	11.3	544	22 15	589	510	11 50	79	121	18 15	144	98	11 34	46
27	34.6	13 10	41.9	29.1	6 50	12.8	546	16 50	582	519	9 12	63	123	18 55	140	100	12 0	40
28	35.3	15 30	42.6	29.0	5 8	13.6	553	22 12	605	524	8 40	81	119	18 30	140	93	12 0	47
29	34.8	13 35	41.6	29.2	0 29	12.4	549	19 30	573	517	8 17	56	118	18 14	139	95	11 50	44
30	35.3	13 50	43.1	29.2	1 30	13.9	558	19 20	603	533	14 25	70	118	19 20	136	95	13 50	41
31	33.8	13 58	40.6	25.9	3 38	14.7	555	17 56	585	533	14 45	52	120	19 20	150	101	12 0	49
Mean	35.0	-	42.2	28.1	-	14.1	550	-	588	518	-	70.1	118	-	138	95	-	43.1
Mean*	34.5	-	40.9	28.7	-	12.3	548	-	571	522	-	48.8	121	-	135	100	-	35.2
Mean**	35.0	-	44.5	24.7	-	19.8	545	-	607	501	-	106.4	113	-	145	83	-	61.8
June	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	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	35.1	12 42	39.7	28.8	7 30	10.9	549	18 8	577	518	8 3	59	121	18 15	134	105	11 5	29
2*	34.4	15 30	39.2	29.3	8 10	9.9	551	19 22	570	532	12 40	38	123	19 22	131	108	11 45	23
3*	34.8	15 18	39.6	29.5	7 58	10.1	557	19 22	572	531	11 45	41	118	5 50	132	96	12 5	36
4*	34.9	15 20	39.6	30.1	5 50	9.5	561	17 50	591	532	11 40	59	115	4 18	126	92	11 50	34
5*	34.5	14 32	40.0	28.9	7 30	11.1	558	17 13	585	538	13 5	47	116	17 14	124	95	11 0	29
6	34.3	13 50	41.8	29.4	6 20	12.4	561	20 3	580	533	10 45	47	116	17 25	128	99	10 10	29
7	35.5	13 50	43.7	29.5	6 55	14.2	558	0 15	571	537	7 56	34	118	18 20	135	94	11 40	41
8	34.2	13 5	40.0	24.3	9 12	15.7	555	15 31	574	524	9 20	50	119	16 50	131	90	11 50	41
9	34.4	15 0	41.9	22.9	9 15	19.0	565	21 5	599	527	9 14	72	115	3 40	127	89	11 10	38
10**	36.8	15 37	52.2	28.0	5 42	24.2	562	15 47	635	483	13 16	152	122	18 18	154	89	12 3	65
11**	33.5	13 0	41.4	23.2	6 6	18.2	555	0 19	636	519	15 18	117	119	0 18	139	94	12 0	45
12	34.9	13 0	41.6	28.7	6 50	12.9	551	17 59	601	504	13 26	97	118	19 10	143	88	11 2	55
13**	34.2	13 13	44.2	24.3	23 17	19.9	537	16 51	582	470	11 10	112	126	18 40	163	96	11 10	67
14**	32.1	12 44	38.5	17.9	2 42	20.6	537	22 12	602	497	10 42	105	110	18 38	137	64	2 35	73
15**	35.4	15 32	43.1	25.5	2 40	17.6	536	19 7	596	461	9 18	135	118	19 8	145	92	5 8	53
16*	34.2	14 59	40.0	29.9	5 55	10.1	544	18 48	569	505	11 46	64	124	19 40	139	108	11 0	31
17	33.0	16 50	41.7	23.4	23 50	18.3	552	18 47	631	515	18 55	116	119	20 20	141	97	11 42	44
18	32.9	15 20	43.4	19.8	1 52	23.6	544	16 40	586	511	11 35	75	116	19 50	135	94	3 20	41
19	34.7	15 0	42.8	29.5	22 35	13.3	550	19 55	591	519	11 46	72	120	19 20	135	101	11 50	34
20	34.6	6 50	42.8	26.7	0 54	16.1	547	23 33	593	491	6 26	102	119	19 20	136	103	11 40	33
21	33.8	12 25	39.0	28.5	6 33	10.5	546	0 0	580	514	12 45	66	117	19 50	134	100	10 40	34
22	33.3	13 23	40.8	26.1	6 30	14.7	549	19 13	584	510	10 46	74	116	20 20	131	96	11 10	35
23	34.2	14 35	40.2	28.9	5 56	11.3	551	19 10	576	519	8 56	57	119	19 10	130	107	11 45	23
24	34.2	14 30	42.8	27.7	23 48	15.1	557	16 45	588	519	10 6	69	118	17 25	128	94	11 35	34
25	33.6	14 30	40.3	29.0	24 0	11.3	555	18 25	595	527	10 40	68	116	18 22	130	95	11 35	35
26	33.2	13 58	42.5	25.0	6 10	17.5	560	19 25	613	523	9 10	90	111	18 20	127	88	12 0	39
27	34.6	13 53	44.2	27.5	2 20	16.7	555	18 50	590	514	11 5	76	112	17 5	130	84	11 3	46

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
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	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	34.2	14 10	40.9	27.6	6 40	13.3	562	0 22	591	529	9 0	62	110	18 25	128	98	10 8	30
2	33.7	2 43	38.6	29.4	7 48	9.2	555	20 18	569	525	7 30	44	116	20 20	126	103	12 3	23
3	34.9	16 10	41.3	29.9	5 35	11.4	564	16 36	605	545	9 23	60	113	17 30	127	89	11 50	38
4**	34.9	16 0	40.7	21.6	21 10	19.1	556	18 19	613	514	21 1	99	123	19 35	169	101	10 50	68
5**	-	14 26	59.9	-17.8	10 8	77.7	-	12 52	908	-38	8 28	946	-	14 42	687	-59	8 24	746
6**	32.4	14 12	41.5	25.4	19 2	16.1	474	15 2	604	410	11 42	194	170	15 5	244	135	24 0	109
7**	33.3	2 46	44.1	23.0	1 7	21.1	501	18 4	622	433	7 43	189	121	18 7	175	35	4 32	140
8	33.6	13 30	40.4	26.6	19 35	13.8	513	19 41	568	463	8 14	105	146	16 44	170	130	12 0	40
9	33.0	13 30	41.0	27.6	5 27	13.4	532	21 1	610	500	9 0	110	135	18 25	154	110	11 33	44
10	32.1	14 35	43.7	20.6	23 0	23.1	534	17 50	584	490	9 1	94	140	18 20	178	115	1 2	63
11	33.5	14 35	38.5	28.4	5 45	10.1	524	2 17	549	494	7 50	55	137	5 52	150	110	11 58	40
12	33.9	12 58	42.3	29.7	6 10	12.6	532	19 45	554	500	10 33	54	137	16 50	148	121	11 35	27
13*	33.2	14 10	40.9	27.3	5 50	13.6	532	18 25	550	489	9 35	61	136	18 20	146	117	11 45	29
14*	32.6	14 35	38.3	28.2	6 0	10.1	534	19 10	560	498	11 55	62	133	19 10	142	121	13 0	21
15	33.5	14 55	39.7	26.5	6 10	13.2	543	18 35	575	507	10 55	68	129	3 45	137	107	12 3	30
16	33.0	14 40	43.7	23.8	5 50	19.9	554	14 35	585	522	11 10	63	132	19 5	146	120	13 0	26
17	32.9	14 10	39.5	26.8	6 55	12.7	542	17 35	580	513	0 48	67	131	18 35	146	117	11 0	29
18	32.1	14 55	38.6	25.7	7 50	12.9	540	19 5	571	510	9 45	61	129	18 5	141	109	13 5	32
19	32.8	12 45	39.3	26.4	5 25	12.9	542	23 20	568	515	11 55	53	129	18 10	140	117	11 55	23
20	32.0	14 5	39.7	24.8	8 0	14.9	543	16 8	575	513	8 36	62	127	18 23	140	105	13 0	35
21**	33.9	6 10	41.1	21.9	20 12	19.2	532	3 43	594	423	9 20	171	129	19 50	171	92	9 20	79
22	33.3	14 28	41.6	25.0	4 50	16.6	532	22 59	584	491	10 40	93	133	17 23	154	115	10 1	39
23	33.9	13 20	42.1	28.5	23 57	13.6	534	0 41	572	482	11 10	90	133	17 25	149	113	11 50	36
24	32.0	13 23	41.5	25.7	8 10	15.8	542	19 30	575	504	9 45	71	130	18 0	146	107	12 38	39
25	32.3	14 40	38.6	24.2	6 22	14.4	544	5 30	577	506	7 32	71	132	16 35	143	110	11 50	33
26*	33.3	14 42	40.6	27.0	7 18	13.6	541	17 28	563	511	12 15	52	129	18 10	139	103	12 15	36
27*	32.4	14 40	41.7	26.2	8 15	15.5	546	20 55	565	513	10 25	52	126	18 0	137	102	12 40	35
28	33.9	12 27	42.5	29.6	7 50	12.9	548	18 50	575	504	10 20	71	126	18 20	139	97	11 8	42
29*	33.0	13 52	39.7	27.3	8 30	12.4	557	23 48	574	527	13 40	47	122	18 20	135	93	12 0	42
30	33.1	13 50	41.8	27.1	6 40	14.7	552	16 50	571	521	12 40	50	123	18 18	137	97	11 55	40
31	33.4	13 40	42.2	27.4	22 30	14.8	544	19 35	579	527	11 40	52	126	7 10	140	92	12 3	48
Mean	33.2	-	41.5	24.9	-	16.6	539	-	589	482	-	107.4	130	-	167	101	-	66.5
Mean*	32.9	-	40.2	27.3	-	13.0	542	-	562	508	-	54.8	129	-	140	107	-	32.6
Mean**	(33.6)	-	45.5	14.8	-	30.6	(516)	-	668	348	-	319.8	(136)	-	289	61	-	228.4
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	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	33.5	13 3	41.8	29.2	7 35	12.6	555	19 28	597	526	8 55	71	128	19 22	148	102	12 0	46
2**	34.2	2 42	43.2	27.2	3 24	16.0	541	3 0	597	478	14 40	119	138	17 20	196	102	11 3	94
3	32.9	13 0	39.0	26.6	21 40	12.4	532	17 26	599	504	9 36	95	136	17 23	169	108	11 40	61
4**	32.4	14 20	58.7	16.9	23 34	41.8	523	1 31	636	433	11 32	203	144	14 43	304	65	5 10	239
5	31.2	0 18	44.2	20.5	1 42	23.7	516	1 56	583	451	0 48	132	136	16 50	179	58	0 48	121
6	32.5	12 50	42.2	24.4	5 42	17.8	531	15 49	581	488	6 33	93	140	15 42	170	108	24 0	62
7	31.8	13 5	41.3	17.8	1 2	23.5	527	23 22	566	480	8 35	86	131	16 59	160	102	0 43	58
8	32.7	13 40	40.5	28.5	7 55	12.0	533	19 40	562	495	11 2	67	136	16 33	148	119	9 50	29
9*	32.7	13 16	40.2	25.7	8 35	14.5	540	21 30	562	507	9 12	55	130	3 45	142	106	12 10	36
10*	33.3	14 6	41.4	28.5	8 20	12.9	549	22 27	574	522	10 50	52	131	17 22	141	109	12 38	32
11	32.4	14 40	40.8	24.7	7 0	16.1	554	18 32	585	527	8 33	58	129	19 30	141	107	12 58	34
12	32.6	13 3	42.0	26.3	5 31	15.7	547	23 30	576	511	11 20	65	127	17 30	138	112	12 40	26
13	33.0	13 55	41.6	27.6	5 45	14.0	552	23 12	591	523	9 52	68	125	18 30	145	104	12 40	41
14	33.1	13 45	41.5	27.5	7 43	14.0	549	16 38	568	517	9 36	51	126	17 28	143	103	12 5	40
15	32.5	13 28	39.2	27.9	4 37	11.3	547	1 42	570	520	9 40	50	126	19 15	136	115	12 50	21
16*	32.8	13 20	40.7	28.9	7 20	11.8	546	20 57	563	521	10 30	42	124	19 10	139	96	12 13	43
17*	32.6	13 35	39.3	28.4	8 10	10.9	549	20 20	568	529	11 20	39	126	8 56	134	99	12 11	35
18	33.2	13 20	39.0	28.7	21 10	10.3	557	19 16	584	541	9 30	43	124	21 18	133	107	11 50	26
19	32.9	12 48	43.5	25.1	7 10	18.4	547	1 34	595	497	12 3	98	125	17 36	151	107	12 2	44
20	33.1	13 40	39.3	26.8	7 12	12.5	547	23 36	566	522	8 30	44	131	17 27	144	120	11 0	24
21	33.0	13 40	40.7	27.0	7 30	13.7	551	18 37	589	524	15 20	65	127	19 24	142	109	11 50	33
22	33.0	14 12	40.4	28.9	6 54	11.5	550	20 20	574	523	9 43	51	124	21 20	134	106	12 5	28
23*	33.3	13 10	40.5	28.6	7 35	11.9	550	22 10	571	522	9 52	49	123	4 40	132	100	12 56	32
24	32.5	13 35	42.2	25.2	7 30	17.0	549	19 27	574	503	9 16	71	125	17 18	138	102	11 5	36
25	32.7	12 30	41.2	25.2	19 55	16.0	548	17 50	592	505	8 33	87	132	19 18	151	109	10 30	42
26**	32.8	12 55	45.5	19.0	22 16	26.5	535	0 48	589	491	24 0	98	136	18 28	187	105	24 0	82
27**	31.8	14 25	45.3	10.6	22 30	34.7	511	22 37	583	402	10 18	181	134	15 24	188			

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°+ /	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	
September																			
1	32.2	14 7	42.7	26.0	17 52	16.7	541	18 8	579	507	11 28	72	135	18 0	164	117	12 40	47	
2	32.0	12 48	39.8	25.1	6 30	14.7	542	19 55	585	503	7 2	82	130	17 35	145	110	12 0	35	
3	32.3	12 48	38.7	27.1	6 40	11.6	543	20 9	563	516	9 25	47	127	7 10	136	115	12 25	21	
4*	32.5	13 10	39.9	26.8	7 10	13.1	544	21 10	564	516	10 20	48	130	15 45	138	119	10 58	19	
5*	32.3	13 30	37.7	27.9	8 8	9.8	547	19 20	561	521	10 15	40	126	4 50	136	110	10 30	26	
6*	33.1	13 30	39.5	29.0	8 40	10.5	551	21 50	571	511	10 12	60	125	4 23	131	105	11 33	26	
7	32.6	14 12	46.7	21.7	21 0	25.0	552	4 43	591	502	14 42	89	127	18 20	145	110	10 10	35	
8	31.2	12 20	38.6	25.6	3 18	13.0	546	20 50	574	514	10 13	60	125	21 30	137	108	11 45	29	
9	32.0	13 39	39.0	27.7	6 45	11.3	551	23 30	638	517	9 37	121	124	23 22	139	109	12 50	30	
10	32.4	13 55	40.3	27.5	1 10	12.8	549	0 0	584	512	10 42	72	124	19 5	135	106	0 0	29	
11	32.6	14 12	44.1	27.1	7 20	17.0	546	21 50	578	509	10 40	69	128	17 35	145	106	11 50	39	
12*	32.6	13 4	39.7	27.9	8 10	11.8	549	0 0	563	512	11 20	51	122	7 20	133	107	10 40	26	
13**	33.0	14 36	46.3	23.9	21 34	22.4	549	23 44	577	467	15 25	110	129	14 36	166	100	11 45	66	
14	31.6	12 22	39.7	17.5	21 36	22.2	536	22 40	593	495	7 1	98	124	15 57	145	106	23 9	39	
15**	30.6	13 0	38.3	12.5	19 2	25.8	535	15 49	587	477	18 51	110	127	19 18	164	96	0 58	68	
16	31.2	1 26	38.7	19.6	2 0	19.1	542	1 10	615	510	12 25	105	127	19 30	148	89	1 50	59	
17	31.4	13 3	39.9	21.2	8 34	18.7	539	21 53	569	508	14 1	61	130	17 50	152	111	11 5	41	
18**	26.5	13 39	72.0	-50.7	23 41	122.7	439	15 36	1133	-119	22 26	1252	161	15 32	747	-290	22 26	1037	
19**	25.6	8 11	54.5	-45.0	1 37	99.5	401	20 35	593	-56	1 30	649	60	19 48	197	-369	4 5	566	
20**	30.9	12 52	42.0	22.5	3 13	19.5	478	0 43	538	379	10 8	159	159	13 30	190	129	1 23	61	
21	32.1	3 36	44.0	25.4	3 12	18.6	500	3 39	550	444	10 12	106	158	16 0	204	113	4 0	91	
22*	31.5	13 24	37.5	28.1	8 45	9.4	514	18 30	538	480	10 46	58	148	0 30	156	129	13 0	27	
23	32.9	14 36	44.0	26.7	7 42	17.3	520	24 0	553	466	15 52	87	153	17 40	190	128	11 40	62	
24	30.8	13 27	45.5	17.4	22 40	28.1	525	15 30	566	489	12 57	77	140	19 4	172	119	11 33	53	
25	30.3	12 30	39.6	12.1	0 20	27.5	515	19 23	567	480	10 25	87	147	17 32	177	84	0 8	93	
26	31.3	14 15	37.4	26.7	8 52	10.7	526	20 4	550	487	10 52	63	145	6 50	154	130	10 55	24	
27	32.6	11 40	40.5	27.6	3 17	12.9	526	23 36	556	497	9 20	59	148	16 42	173	131	12 56	42	
28	31.0	13 32	37.2	23.4	22 3	13.8	534	23 0	556	507	9 45	49	146	19 50	160	127	12 35	33	
29	31.5	13 46	39.4	24.5	5 5	14.9	538	22 33	574	487	10 10	87	140	21 4	154	126	12 10	28	
30	30.8	12 3	37.7	23.0	20 46	14.7	532	20 30	570	494	11 20	76	139	20 20	155	123	2 30	32	
Mean	†31.8	-	42.0	19.2	-	22.8	†535	-	591	454	-	136.8	†135	-	176	83	-	92.8	
Mean*	32.4	-	38.9	27.9	-	10.9	541	-	559	508	-	51.4	130	-	139	114	-	24.8	
Mean**	†31.5	-	50.6	-7.6	-	58.0	†521	-	686	230	-	456.0	†138	-	293	-67	-	359.6	
October																			
1	31.1	12 10	37.1	26.7	8 50	10.4	535	17 50	550	512	12 42	38	140	7 50 } 19 30 }	146	125	11 2	21	
2	31.0	13 55	35.1	24.6	22 55	10.5	539	22 20	569	520	20 45	49	140	20 55	153	130	10 42	23	
3	31.4	12 50	37.2	25.2	0 20	12.0	534	18 50	555	514	13 30	41	141	23 25	149	133	12 0	16	
4*	31.7	14 17	37.3	26.5	24 0	10.8	544	21 5	565	516	10 2	49	136	0 35	146	123	11 56	23	
5	31.2	12 55	37.8	25.0	0 38	12.8	540	18 34	556	504	9 30	52	138	7 32	149	124	11 44	25	
6*	32.1	12 44	39.4	28.8	0 0	10.6	545	19 10	558	524	10 0	34	137	15 17	145	123	11 10	22	
7*	31.4	12 56	35.8	27.1	8 40	8.7	546	15 57	562	524	10 12	38	135	4 45	142	115	11 50	27	
8	30.3	14 12	36.6	24.6	2 24	12.0	540	1 50	577	510	17 40	67	137	18 15	157	120	4 15	37	
9	31.5	12 50	37.7	26.8	8 5	10.9	539	21 20	562	511	13 55	51	138	7 22	147	119	11 51	28	
10	31.6	12 36	37.7	24.1	21 52	13.6	551	16 10	577	531	10 40	46	134	21 10	150	120	12 50	30	
11**	30.0	13 25	39.7	11.6	23 50	28.1	527	19 26	611	466	17 33	145	138	19 14	185	71	23 37	114	
12**	29.9	3 26	36.6	13.0	0 0	23.6	524	0 50	559	497	16 24	62	136	17 28	158	91	0 0	67	
13	31.0	14 10	34.8	25.6	18 16	9.2	534	23 52	558	497	10 48	61	141	18 25	150	122	10 50	28	
14	32.0	12 40	40.0	28.2	8 30	11.8	536	23 37	575	486	15 55	89	143	16 26	164	121	10 54	43	
15	31.0	13 25	38.4	22.3	19 35	16.1	522	0 0	564	486	10 20	78	145	17 45	166	125	0 40	41	
16**	31.0	12 16	37.3	19.2	21 25	18.1	531	3 33	567	506	21 41	61	145	16 30	165	128	3 50	37	
17*	31.7	11 45	36.4	29.5	21 0	6.9	535	21 10	552	507	11 40	45	144	15 45	155	133	10 10	22	
18	32.4	12 25	37.9	29.0	8 22	8.9	535	6 20	555	516	11 55	39	147	15 57	158	139	10 30	19	
19	32.0	12 28	37.7	27.3	16 10	10.4	533	3 2	554	498	16 35	56	149	16 12	175	136	3 30	39	
20	31.8	12 20	37.3	27.0	21 30	10.3	536	4 35	554	510	10 15	44	145	15 20	152	135	10 40	17	
21*	31.4	12 45	35.5	26.9	8 38	8.6	542	18 28	558	505	10 32	53	141	15 35	149	134	10 32	15	
22**	31.8	16 22	46.2	14.4	22 50	31.8	536	16 10	584	399	18 4	185	147	18 10	234	113	22 39	121	
23	30.6	13 32	38.4	19.5	18 25	18.9	521	18 30	557	486	10 45	71	147	18 27	163	129	10 55	34	
24	31.1	12 24	38.3	16.9	19 43	21.4	531	19 54	592	496	15 21	96	145	19 45	175	122	0 35	53	
25	31.4	13 20	36.5	27.9	8 46	8.6	539	4 18	564	511	11 30	53	138	18 20	148	123	11 55	25	
26	30.7	11 57	37.3	21.3	22 0	16.0	535	20 50	568	498	10 40	70	142	20 48	162	130	9 50	32	
27	30.5	14 5	35.5	24.4	0 0	11.1	536	8 5	554	507	10 40	47	142	22 5	148	134	12 50	14	
28	31.0	13 25	35.6	25.7	23 35	9.9	541	18 36	560	524	18 0	36	142	20 30	152	132	11 56	20	
29	31.2	12 25	36.0	26.9	20 40	9.1	549	1 10	563	528	0 35	35	139	21 15	148	127	1 30	21	
30	31.3	12 35	37.4	27.0	22 40	10.4	544	5 40	561	518	14 40	43	140	21 10	151	130	9 50	21	
31**	29.8	16 41	45.7	2.8	21 8	42.9	533	4 18	612	441	22 58	171	139	19 50	209	98	24 0	111	
Mean	31.2	-	37.7	23.4	-	14.3	537	-	566	502	-	64.4	141	-	160	123	-	37.0	
Mean*	31.7	-	36.9	27.8	-	9.1	542	-	559	515	-	43.8	139	-	147	126	-	21.8	
Mean**	30.5	-	41.1	12.2	-	28.9	530	-	587	462	-	124.8	141	-	190	100	-	90.0	

* International Quiet Day. ** International Disturbed Day.

† September 18 and 19 have been omitted in computing the mean value.

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°+ '	10°+ '	U. T. h m	'	18000 Y +	U. T. h m	18000 Y +	18000 Y +	18000 Y +	U. T. h m	Y	43000 Y +	U. T. h m	43000 Y +	43000 Y +	43000 Y +	U. T. h m	Y
November	10°+	U. T.	10°+	10°+	U. T.	'	18000	U. T.	18000	18000	18000	U. T.	Y	43000	U. T.	43000	43000	43000	U. T.	Y
1**	29.9	6 26	44.5	2.8	0 20	41.7	486	4 9	587	407	1 30	180	139	14 40	226	43	5 10	183		
2	29.1	13 35	31.5	24.3	20 32	7.2	521	21 5	537	508	0 10	29	153	12 0	158	142	21 22	16		
3	30.5	12 45	36.0	25.9	22 48	10.1	531	21 27	545	518	10 40	27	147	15 5	152	138	11 55	14		
4*	30.3	12 38	34.2	26.3	2 57	7.9	535	20 0	551	516	10 10	35	148	15 20	155	139	12 50	16		
5	29.7	16 30	34.5	18.2	20 48	16.3	536	17 23	558	497	18 20	61	150	18 25	162	129	10 33	33		
6**	31.1	12 58	41.0	5.6	18 2	35.4	512	18 12	592	444	11 46	148	154	18 10	193	122	22 10	71		
7	29.6	12 30	35.4	19.9	17 14	15.5	526	18 52	568	489	10 33	79	147	17 15	158	122	1 5	36		
8	30.1	3 26	35.2	17.8	18 25	17.4	530	5 56	559	495	14 1	64	145	14 50	163	123	4 37	40		
9	30.9	13 20	37.0	26.4	20 52	10.6	530	6 32	549	473	15 24	76	148	15 50	172	130	10 37	42		
10**	30.3	14 10	38.8	16.6	24 0	22.2	529	23 41	580	467	14 12	113	151	18 20	181	130	3 10	51		
11	28.8	11 45	36.2	14.9	0 50	21.3	528	2 30	559	485	10 15	74	146	18 20	166	114	3 10	52		
12	30.3	12 53	34.2	23.0	21 30	11.2	532	21 21	577	509	11 30	68	152	20 15	162	141	22 10	21		
13	31.0	13 42	35.8	26.7	23 52	9.1	536	22 58	553	507	11 33	46	150	18 30	158	141	10 32	17		
14	30.5	14 0	33.6	25.8	23 10	7.8	541	23 12	559	519	10 30	40	145	15 20	151	137	8 55	14		
15*	30.9	11 45	34.2	28.6	8 45	5.6	547	22 55	567	528	11 32	39	142	15 45	148	132	10 30	16		
16*	30.7	12 20	34.6	25.9	22 10	8.7	551	20 15	566	533	22 54	33	141	23 10	148	134	10 25	14		
17**	29.5	13 55	39.3	10.0	20 55	29.3	523	6 2	582	458	15 2	124	157	18 20	197	125	8 33	72		
18	30.6	14 4	36.3	22.9	19 34	13.4	522	22 37	567	481	15 45	86	155	19 20	183	138	7 55	45		
19	30.3	1 24	38.2	23.1	0 43	15.1	537	1 55	568	507	21 36	61	143	23 0	158	118	2 3	40		
20	31.2	13 30	34.4	26.9	20 18	7.5	545	18 29	562	524	0 2	38	147	0 5	156	135	8 50	21		
21	29.9	14 5	34.8	23.8	22 25	11.0	543	20 50	566	520	0 41	46	147	16 30	153	137	10 45	16		
22	30.1	13 3	35.1	17.5	20 58	17.6	544	21 5	588	507	15 31	81	145	21 5	160	130	9 58	30		
23	29.5	12 45	34.9	22.8	22 15	12.1	539	5 3	561	516	12 53	45	143	15 50	153	130	3 28	23		
24*	30.6	15 40	32.6	25.4	21 10	7.2	547	8 5	560	523	0 32	37	142	21 30	148	133	9 0	15		
25	30.3	16 40	32.5	24.2	19 53	8.3	551	7 20	569	539	19 35	30	140	20 15	149	130	10 55	19		
26*	30.7	12 55	32.7	29.0	3 23	3.7	550	21 40	557	534	12 30	23	139	17 30	148	132	11 2	16		
27	31.2	12 42	36.9	28.1	22 45	8.8	559	7 10	579	538	23 55	41	136	19 50	142	125	8 50	17		
28**	29.0	6 56	45.1	14.9	18 41	30.2	513	18 47	615	437	19 28	178	148	18 46	204	99	6 2	105		
29	30.3	12 15	35.8	26.1	1 47	9.7	524	18 6	545	504	1 2	41	152	2 0	161	143	9 0	18		
30	30.0	11 20	33.0	25.8	20 45	7.2	536	18 6	548	525	20 25	23	150	21 0	160	142	10 10	18		
Mean	30.2	-	35.9	21.6	-	14.3	533	-	566	500	-	65.5	147	-	164	128	-	36.4		
Mean*	30.6	-	33.7	27.0	-	6.6	546	-	560	527	-	33.4	142	-	149	134	-	15.4		
Mean**	30.0	-	41.7	10.0	-	31.8	513	-	591	443	-	148.6	150	-	200	104	-	96.4		
December	10°+	U. T.	10°+	10°+	U. T.	'	18000	U. T.	18000	18000	18000	U. T.	Y	43000	U. T.	43000	43000	43000	U. T.	Y
1**	27.7	15 8	45.5	12.0	21 55	33.5	503	9 42	591	371	15 12	220	173	15 14	335	108	23 45	227		
2**	29.5	4 45	38.8	21.2	0 58	17.6	511	4 40	544	467	3 18	77	146	17 50	170	105	0 43	65		
3	29.4	17 32	35.8	18.6	21 0	17.2	532	21 53	562	515	20 40	47	151	20 58	162	146	10 50	16		
4	30.3	15 5	34.1	22.4	21 14	11.7	532	20 42	570	494	18 58	76	149	20 41	173	131	10 20	42		
5	29.9	18 5	36.9	19.0	22 55	17.9	534	19 52	563	485	19 5	78	151	19 35	173	137	9 0	36		
6	29.9	5 2	33.3	27.0	22 10	6.3	537	21 50	556	517	16 30	39	149	0 20	159	141	22 4	18		
7	29.9	11 35	33.3	24.6	23 2	8.7	539	6 45	557	524	19 32	33	145	17 45	153	136	11 5	17		
8	29.9	13 3	33.2	25.8	22 30	7.4	543	22 35	578	519	21 46	59	144	17 35	153	134	11 5	19		
9	30.2	14 55	34.2	26.8	23 5	7.4	544	23 11	591	512	12 25	79	144	17 32	153	132	10 32	21		
10	30.0	12 55	33.3	27.8	22 15	5.5	543	6 30	559	524	15 40	35	144	15 25	153	133	0 0	20		
11*	30.5	12 0	33.4	28.8	0 15	4.6	549	6 10	557	537	10 45	20	145	20 10	150	140	10 35	10		
12*	30.5	12 15	33.2	27.8	18 5	5.4	550	5 2	562	532	15 30	30	144	18 26	152	135	9 55	17		
13	30.7	17 20	37.8	20.6	19 9	17.2	546	10 30	577	481	18 45	96	145	18 50	186	127	11 20	59		
14**	28.9	3 10	38.7	12.8	21 4	25.9	531	20 40	573	466	14 36	107	146	15 10	166	118	3 45	48		
15	30.0	12 0	33.2	21.0	21 20	12.2	542	21 34	578	520	14 40	58	145	21 30	155	140	9 0	15		
16**	29.8	13 7	33.8	22.2	3 13	11.6	546	3 45	587	516	4 18	71	141	14 55	149	114	4 4	35		
17	29.8	17 50	35.0	20.5	22 5	14.5	548	22 50	604	510	18 12	94	141	19 55	156	128	10 10	28		
18	30.3	7 6	34.8	26.4	7 45	8.4	549	7 15	578	527	22 15	51	138	22 20	143	123	9 0	20		
19	30.1	12 30	34.3	26.7	22 35	7.6	544	7 40	560	520	10 42	40	141	21 10	148	131	8 30	17		
20*	30.1	15 9	32.9	28.1	21 10	4.8	551	8 5	562	532	15 20	30	139	16 10	148	128	10 20	20		
21*	29.9	14 3	32.2	26.0	22 30	6.2	556	23 40	581	547	0 5	34	136	20 55	142	126	10 25	16		
22	30.3	12 0	32.4	28.1	21 20	4.3	554	7 15	566	536	17 55	30	137	18 20	145	129	0 10	16		
23	30.4	15 50	34.3	22.5	23 50	11.8	554	23 33	589	503	16 57	86	140	17 20	156	130	24 0	26		
24	30.3	12 52	34.8	23.6	20 10	11.2	548	0 0	569	532	12 5	37	137	20 50	147	128	0 10	19		
25*	30.2	12 20	33.8	28.2	23 50	5.6	556	9 0	573	544	0 15	29								

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1941* (SEE INTRODUCTION PAGE x11).

Date 1941	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	1222 4443	22	1102 3321	13	3577 8985	52	3112 2213	15	0012 3333	15	3322 3223	20
2	4212 3202	16	1112 2143	15	5334 3445	31	3212 3234	20	1221 2323	16	2111 2311	12
3	2121 2134	16	3434 3343	27	3323 4642	27	3322 2343	22	2222 2232	17	2112 2221	13
4	3322 1111	14	3322 3231	19	4335 4536	33	2222 1113	14	1344 3313	22	2211 1212	12
5	1112 1322	13	3232 3354	25	4433 5455	33	2121 1213	13	2122 3311	15	2111 1312	12
6	3443 3232	24	4343 3344	28	3333 3442	25	3311 2213	16	1113 2231	14	1213 3221	15
7	2122 2543	21	4433 4444	30	3222 2345	23	0113 3345	20	2310 1123	13	1022 2311	12
8	3221 2223	17	4332 2344	25	4312 3345	25	4112 2333	19	1112 3343	18	0123 2321	14
9	2333 3432	23	3332 2253	23	3121 2244	19	3433 3422	24	2232 2233	19	1124 3222	17
10	4211 3234	20	4233 2223	21	4321 1132	17	2342 3445	27	4223 3322	21	2243 6634	30
11	3312 3233	20	2121 1232	14	3211 2245	20	3344 3333	26	3111 2111	11	5333 3542	28
12	2221 2223	16	1122 2222	14	2113 4424	21	3333 3323	23	2211 2223	15	2322 3432	21
13	3221 1123	15	4233 5545	31	3312 1343	20	4111 1213	14	3222 3311	17	1345 5443	29
14	1111 1113	10	4334 3424	27	5546 5455	39	1221 1200	9	2112 3323	17	4422 3234	24
15	3131 2211	14	4434 3442	28	2344 3344	27	0022 3323	15	3122 1322	16	3443 4343	28
16	2112 2322	15	4411 2235	22	3211 2220	13	4113 4111	16	4334 4422	26	2111 1121	10
17	5233 4645	32	3234 4343	26	1221 2212	13	1222 3322	17	2443 4324	26	1122 3453	21
18	3334 2455	29	2212 2231	15	3111 1214	14	4213 4235	24	2322 2433	21	4332 3431	23
19	4333 4424	27	1112 2321	13	2223 4444	25	3553 3444	31	3211 1121	12	1112 2343	17
20	3223 2224	20	1212 3244	19	4343 4545	32	3332 3333	23	1112 2312	13	3343 3434	27
21	2311 2122	14	3223 5545	29	4333 4464	31	3222 3241	19	2222 2455	24	3332 3333	23
22	2212 1244	18	4434 4555	34	4433 3654	32	0121 1212	10	4323 4454	29	3132 3233	20
23	4133 3454	27	4333 5555	33	1223 3535	24	1111 1122	10	3334 4344	28	2112 2212	13
24	3334 5544	31	3323 3544	27	3222 2334	21	1146 5555	32	3443 3333	26	1111 3333	16
25	4434 3434	29	3233 4354	27	2223 2232	18	5434 3444	31	4233 3234	24	2111 3223	15
26	5233 4334	27	3333 3230	20	2211 1121	11	3325 3323	24	3223 3334	23	3111 2233	16
27	2223 4444	25	0011 2321	10	1122 1122	12	2122 1221	13	2222 2333	19	3332 3222	20
28	3113 3243	20	3223 2313	19	5435 5655	38	3312 3443	23	2232 2324	20	2212 3332	18
29	2112 2213	14			4432 4466	33	4331 1012	15	3332 3322	21	3332 3221	19
30	3322 2343	22			4443 4667	38	3211 1211	11	3211 3342	19	1122 2113	13
31	1121 2111	10			7556 5433	38			4322 2342	22		

*Corresponding figures for the years 1929-1939 are given in an Appendix to the Magnetic and Meteorological Results for 1940.

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1941* (SEE INTRODUCTION PAGE x11).

Date 1941	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3431 2223	20	1122 3343	19	2222 3443	22	2121 2121	12	6653 5531	34	3245 6646	36
2	3331 2111	15	5445 5433	33	3133 2333	21	1110 1233	12	1011 1233	12	4533 3431	26
3	3201 3433	19	2322 2423	20	3101 1111	9	3111 1111	10	3211 1203	13	1211 1354	18
4	2443 2355	28	5654 6555	41	1111 1112	9	2101 1113	10	3212 1113	14	3323 2253	23
5	5498 9757	54	6323 2343	26	1001 1001	4	2222 1211	13	1112 2444	19	1111 2354	18
6	3233 6554	31	3233 3434	25	1111 1221	10	2111 2212	12	3333 5665	34	3222 2313	18
7	5553 3654	36	4333 3333	25	0323 5344	24	2111 1112	10	4123 3443	24	2222 2122	15
8	2233 4431	22	2111 2221	12	3222 2133	18	3321 1432	19	4332 3342	24	2111 2224	15
9	1113 4454	23	1111 2112	10	3221 2225	19	1210 3122	12	3112 3422	18	1112 3224	16
10	4332 3344	26	1001 1012	5	3221 1121	13	1111 2343	16	3223 4434	25	2111 2211	11
11	3232 2121	16	2123 3332	19	2211 3213	15	4342 4456	32	4333 2443	26	1111 1111	8
12	2133 3122	17	2212 3213	16	2212 1101	10	5432 2323	24	1231 1234	17	1112 2211	11
13	1112 2211	11	2222 3323	19	0012 5544	21	3122 1233	17	1122 1222	13	2131 3443	21
14	0110 1112	7	2322 2221	16	4342 3434	27	2213 3414	20	1011 1213	10	5424 5455	34
15	1112 4222	15	3101 2211	11	4333 3454	29	3332 3343	24	1011 1112	8	3222 3214	19
16	2322 4433	23	0002 3111	8	5323 3234	25	2321 3344	22	1101 1223	11	3532 1213	20
17	3221 3322	18	2112 1121	11	2131 3332	18	1112 1211	10	3343 4555	32	3222 1334	20
18	3121 3321	16	1111 2333	15	2678 8990	58	1121 1121	10	2233 2453	24	2343 3323	23
19	2311 2222	15	4343 3433	27	9876 4564	49	3221 2322	17	5222 3213	20	2122 2221	14
20	1222 3333	19	3111 1112	11	5345 4331	28	1221 1122	12	2122 1132	14	2011 1211	9
21	4555 3443	33	2122 2342	18	2533 4411	23	3221 1112	13	3321 3223	19	1111 1113	10
22	3323 4423	24	2002 2121	10	1121 1112	10	2222 3665	28	3112 2455	23	2111 1322	13
23	3333 3333	24	1111 1112	9	1123 3533	21	2222 2344	21	3422 2313	20	2212 3424	20
24	3322 3332	21	2222 2222	16	4333 4344	28	3222 2454	24	3211 1123	14	3112 2233	17
25	3333 3321	20	2122 1343	18	5332 3252	25	3311 2121	14	1121 1132	12	1122 2111	11
26	1111 2111	9	5222 4444	27	2112 2112	12	1113 2244	18	1111 2111	9	1212 2214	15
27	1111 2112	10	5453 5445	35	3232 2323	20	3232 2112	16	1332 3213	18	4412 2224	21
28	1112 1121	10	4344 3323	26	2211 2234	17	1112 2332	15	4554 2464	34	3321 1123	16
29	1121 1213	12	3444 4545	33	2433 3434	26	3111 1133	14	2223 2111	14	4111 2323	17
30	2112 2213	14	5433 4343	29	3123 2243	20	2322 3212	17	1111 2232	13	2211 2433	18
31	3112 2223	16	3223 3333	22			3543 3466	34			3111 0322	13

*Corresponding figures for the years 1929-1939 are given in an Appendix to the Magnetic and Meteorological Results for 1940.

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

"All" Days

DECLINATION WEST (Unit 0.01)

Month and Season, 1941.

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.	-159	-140	-120	-052	-024	-033	-011	-014	-008	+032	+078	+209	+338	+347	+251	+204	+092	-047	-008	-160	-149	-223	-226	-190
Feb.	-140	-112	-160	-068	-093	-072	-023	-027	-008	+058	+170	+290	+374	+419	+351	+203	+079	+028	-072	-147	-207	-326	-279	-232
March	-157	-136	-189	-151	-133	-103	-087	-099	-102	-034	+181	+392	+550	+556	+525	+340	+097	-030	-118	-184	-263	-287	-295	-274
April	-174	-127	-121	-131	-130	-071	-133	-271	-326	-261	-043	+262	+515	+628	+549	+388	+250	+143	-062	-090	-127	-181	-261	-224
May	-178	-150	-230	-259	-239	-291	-334	-354	-376	-258	+006	+270	+485	+573	+541	+457	+364	+253	+118	+020	-061	-089	-130	-146
June	-192	-234	-272	-285	-342	-421	-441	-433	-409	-295	-025	+255	+474	+597	+615	+574	+458	+325	+209	+115	+010	-047	-084	-149
July	-136	-167	-147	-218	-281	-390	-398	-396	-370	-258	-045	+217	+460	+598	+607	+510	+366	+221	+134	+047	-028	-082	-108	-134
August	-146	-219	-236	-272	-265	-364	-398	-421	-331	-128	+118	+422	+666	+743	+661	+482	+295	+079	-006	-093	-132	-128	-180	-158
Sept.	-136	-150	-212	-242	-241	-245	-285	-332	-336	-191	+082	+412	+627	+686	+604	+413	+237	+113	+005	-078	-147	-227	-227	-133
Oct.	-168	-138	-136	-097	-118	-116	-097	-164	-242	-193	+033	+306	+474	+515	+454	+327	+240	+158	-001	-053	-189	-270	-275	-253
Nov.	-240	-149	-155	-088	-034	+024	+080	+039	-043	-008	+106	+254	+350	+336	+233	+182	+162	+052	-081	-088	-199	-254	-249	-223
Dec.	-186	-128	-074	-018	-009	-019	-025	-035	-028	+004	+091	+186	+252	+266	+245	+212	+174	+093	+026	-104	-163	-271	-273	-216
Year	-168	-154	-171	-157	-159	-175	-179	-209	-215	-128	+063	+290	+464	+522	+470	+358	+235	+116	+012	-068	-138	-199	-216	-194
Winter	-180	-132	-127	-057	-040	-025	+005	-009	-022	+022	+111	+235	+329	+342	+270	+200	+127	+032	-034	-125	-180	-268	-257	-216
Equinox	-159	-138	-165	-155	-156	-134	-151	-217	-252	-170	+063	+343	+542	+596	+533	+367	+206	+096	-044	-101	-182	-241	-265	-221
Summer	-163	-193	-221	-259	-282	-367	-393	-401	-372	-235	+014	+291	+521	+628	+606	+506	+371	+220	+114	+022	-053	-087	-126	-147

INCLINATION (Unit 0.01)

Jan.	-003	-006	-005	-010	-039	-059	-067	-075	-060	-028	+022	+024	+022	+045	+041	+050	+071	+050	+044	+018	+013	-024	-008	-016
Feb.	-029	-037	-025	-027	-049	-075	-074	-075	-051	+008	+058	+040	+037	+051	+055	+045	+028	+039	+034	+029	+025	+016	+004	-030
March	-035	-021	-018	+005	-023	-039	-037	-004	+015	+053	+085	+058	+030	+026	+023	+048	+036	+026	+008	-034	-044	-059	-052	-055
April	-035	-019	-027	-022	-021	-026	-032	+008	+020	+073	+094	+084	+061	+045	+049	+020	-013	-020	-023	-041	-036	-039	-045	-047
May	-033	-032	-015	-015	-015	-021	+010	+035	+069	+079	+068	+072	+063	+053	+039	+002	-026	-050	-057	-056	-046	-040	-052	-038
June	-040	-035	-030	-034	-037	-007	+036	+080	+114	+121	+115	+090	+077	+054	+030	-005	-039	-062	-076	-105	-074	-059	-054	-045
July	-041	-036	-029	-018	-035	-028	+008	+080	+133	+144	+138	+118	+079	+050	+014	-029	-054	-065	-090	-086	-073	-074	-053	-055
August	-050	-070	-061	-043	-035	-027	+012	+071	+126	+142	+127	+078	+048	+026	+021	+001	-007	-022	-047	-055	-062	-055	-054	-064
Sept.	-072	-074	-051	-035	-033	-023	+002	+038	+084	+133	+151	+109	+056	+028	+021	+021	000	-017	-021	-035	-054	-064	-079	-082
Oct.	-056	-041	-043	-062	-079	-080	-065	-028	+021	+075	+103	+089	+059	+053	+039	+028	+006	+016	+018	+008	+005	-008	-019	-044
Nov.	-003	-014	-030	-060	-092	-081	-081	-054	-006	+035	+058	+061	+063	+072	+056	+055	+016	+023	+016	+016	+001	-019	-004	-023
Dec.	-004	+012	-009	-026	-043	-057	-065	-069	-060	-038	-011	-016	-011	+005	+025	+049	+052	+067	+068	+052	+039	+028	+015	-006
Year	-033	-031	-029	-029	-042	-044	-029	+001	+034	+066	+084	+067	+049	+042	+034	+024	+006	-001	-011	-024	-026	-033	-033	-042
Winter	-010	-011	-017	-031	-056	-068	-072	-068	-044	-006	+032	+027	+028	+043	+044	+050	+042	+045	+041	+029	+020	+000	+002	-019
Equinox	-050	-039	-035	-029	-039	-042	-033	+004	+035	+084	+108	+085	+052	+038	+033	+029	+007	+001	-005	-026	-032	-043	-049	-057
Summer	-041	-043	-034	-028	-031	-021	+017	+067	+111	+122	+112	+090	+067	+046	+026	-008	-032	-050	-068	-076	-064	-057	-053	-051

HORIZONTAL INTENSITY (Unit 0.1γ)

Jan.	- 10	- 09	- 11	- 01	+ 40	+ 72	+ 89	+101	+ 75	+ 24	- 53	- 58	- 52	- 67	- 43	- 47	- 71	- 30	- 29	+ 04	+ 05	+ 48	+ 10	+ 17
Feb.	+ 29	+ 32	+ 10	+ 13	+ 54	+ 90	+ 90	+ 94	+ 56	- 39	-115	- 79	- 72	- 78	- 70	- 33	- 05	- 17	- 11	- 02	00	+ 02	+ 08	+ 43
March	+ 27	- 11	- 13	- 39	+ 18	+ 38	+ 42	+ 04	- 35	-110	-169	-127	- 75	- 46	- 20	- 27	+ 13	+ 43	+ 61	-109	+104	+104	+ 63	+ 53
April	+ 48	+ 16	+ 27	+ 19	+ 26	+ 30	+ 45	- 09	- 40	-138	-188	-187	-155	-101	- 70	+ 04	+ 65	+ 87	+ 90	+109	+ 87	+ 85	+ 73	+ 69
May	+ 50	+ 35	+ 11	+ 16	+ 19	+ 25	- 20	- 64	-120	-155	-158	-179	-155	-115	- 60	+ 17	+ 77	+129	+148	+143	+115	+ 89	+ 91	+ 62
June	+ 61	+ 47	+ 38	+ 52	+ 59	+ 21	- 47	-121	-184	-220	-229	-207	-174	-121	- 57	+ 15	+ 87	+133	+195	+208	+153	+113	+100	+ 78
July	+ 59	+ 42	+ 25	+ 16	+ 42	+ 41	- 13	-123	-206	-238	-247	-238	-176	-109	- 22	+ 62	+119	+147	+190	+177	+146	+129	+ 89	+ 86
August	+ 47	+ 76	+ 62	+ 47	+ 48	+ 34	- 19	-110	-209	-250	-246	-184	-134	- 71	- 17	+ 49	+ 78	+112	+138	+141	+132	+105	+ 88	+ 87
Sept.	+ 92	+ 87	+ 58	+ 38	+ 44	+ 34	+ 03	- 50	-134	-222	-271	-215	-131	- 66	- 27	- 03	+ 43	+ 73	+ 75	+ 98	+114	+117	+120	+114
Oct.	+ 69	+ 48	+ 50	+ 78	+106	+106	+ 89	+ 42	- 39	-132	-192	-172	-117	- 89	- 51	- 17	+ 22	+ 13	+ 16	+ 33	+ 28	+ 33	+ 30	+ 57
Nov.	- 13	- 05	+ 18	+ 63	+108	+ 89	+ 93	+ 56	- 12	- 73	-112	-104	- 97	- 89	- 50	- 41	+ 16	+ 03	+ 14	+ 10	+ 27	+ 46	+ 10	+ 33
Dec.	- 05	- 28	+ 02	+ 22	+ 51	+ 68	+ 82	+ 87	+ 64	+ 30	- 12	+ 02	- 03	- 09	- 23	- 38	- 45	- 66	- 65	- 42	- 30	- 26	- 17	+ 05
Year	+ 38	+ 28	+ 23	+ 27	+ 51	+ 54	+ 36	- 08	- 65	-127	-166	-146	-112	- 80	- 43	- 05	+ 33	+ 52	+ 69	+ 82	+ 73	+ 70	+ 55	+ 59
Winter	+ 00	- 03	+ 05	+ 25	+ 63	+ 80	+ 89	+ 85	+ 46	- 15	- 73	- 60	- 56	- 61	- 47	- 40	- 26	- 28	- 23	- 08	+ 01	+ 18	+ 03	+ 25
Equinox	+ 59	+ 35	+ 31	+ 24	+ 49	+ 52	+ 45	- 03	- 62	-151	-205	-175	-120	- 76	- 42	- 11	+ 36	+ 54	+ 61	+ 87	+ 83	+ 85	+ 72	+ 73
Summer	+ 54	+ 50	+ 34	+ 33	+ 42	+ 30	- 25	-105	-180	-216	-220	-202	-160	-104	- 39	+ 36	+ 90	+130	+168	+167	+137	+109	+ 92	+ 78

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

"All" Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season. 1941.	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.	+06	+05	+01	+04	+42	+74	+89	+101	+75	+21	-60	-78	-84	-100	-67	-66	-79	-25	-28	+20	+20	+69	+32	+35
Feb.	+42	+42	+26	+20	+62	+96	+91	+95	+56	-44	-130	-106	-108	-118	-103	-52	-13	-20	-04	+13	+20	+34	+35	+65
March	+42	+03	+06	-24	+31	+48	+50	+14	-24	-105	-184	-163	-128	-100	-71	-60	+03	+45	+72	+125	+128	+130	+91	+79
April	+64	+28	+38	+32	+38	+37	+57	+18	-07	-110	-181	-210	-203	-161	-123	-34	+39	+71	+95	+116	+98	+101	+98	+90
May	+67	+49	+33	+41	+42	+53	+13	-28	-81	-127	-156	-203	-200	-169	-112	-28	+40	+102	+134	+139	+119	+96	+102	+75
June	+79	+69	+64	+79	+92	+62	-03	-76	-141	-187	-223	-229	-218	-178	-117	-42	+41	+99	+171	+193	+149	+116	+107	+91
July	+71	+58	+39	+37	+69	+79	+26	-82	-116	-209	-238	-255	-218	-166	-81	+11	+81	+123	+174	+169	+146	+135	+98	+98
August	+61	+96	+84	+73	+73	+69	+20	-67	-173	-233	-253	-222	-197	-143	-82	+01	+48	+102	+136	+148	+143	+116	+104	+101
Sept.	+104	+100	+78	+61	+67	+58	+31	-17	-99	-199	-275	-252	-190	-132	-86	-44	+19	+61	+73	+104	+127	+137	+140	+125
Oct.	+84	+61	+63	+86	+116	+116	+97	+57	-15	-111	-192	-199	-162	-138	-95	-49	-02	-03	+16	+38	+46	+59	+57	+81
Nov.	+11	+10	+33	+71	+110	+85	+84	+51	-08	-71	-121	-127	-130	-121	-72	-58	-00	-02	+22	+19	+46	+70	+34	+54
Dec.	+13	-15	+09	+23	+51	+69	+83	+89	+66	+29	-21	-16	-28	-35	-47	-58	-61	-74	-67	-31	-14	+01	+10	+26
Year	+54	+42	+40	+42	+66	+71	+53	+13	-43	-112	-170	-172	-156	-130	-88	-40	+10	+40	+66	+88	+86	+89	+76	+77
Winter	+18	+11	+17	+30	+66	+81	+87	+84	+47	-16	-83	-82	-88	-94	-72	-59	-38	-30	-19	+05	+18	+44	+28	+45
Equinox	+74	+48	+46	+39	+63	+65	+59	+18	-36	-131	-208	-206	-171	-133	-94	-47	+15	+44	+64	+96	+100	+107	+97	+94
Summer	+70	+68	+55	+58	+69	+66	+14	-63	-140	-189	-218	-227	-208	-164	-98	-15	+53	+107	+154	+162	+139	+116	+103	+91

WEST COMPONENT (Unit 0.1γ)

Jan.	-86	-76	-66	-28	-05	-05	+10	+11	+10	+21	+32	+100	+170	+172	+125	+100	+36	-30	+01	-84	-78	-110	-118	-98
Feb.	-69	-54	-83	-34	-40	-22	+04	+03	+06	+24	+69	+139	+185	+208	+173	+102	+41	+12	-40	-78	-110	-173	-147	-115
March	-78	-74	-103	-87	-67	-48	-39	-52	-61	-38	+65	+185	+278	+286	+275	+175	+54	-08	-52	-78	-121	-133	-145	-136
April	-84	-64	-59	-66	-64	-32	-62	-145	-180	-164	-57	+105	+245	+315	+278	+207	+144	+92	-17	-28	-52	-81	-125	-106
May	-85	-73	-120	-134	-123	-150	-181	-199	-221	-165	-26	+111	+229	+283	+276	+245	+207	+158	+90	+37	-11	-31	-52	-66
June	-91	-116	-137	-142	-171	-220	-243	-252	-250	-196	-55	+98	+220	+295	+316	+307	+259	+197	+146	+99	+33	-04	-26	-65
July	-61	-81	-73	-113	-141	-199	-214	-232	-234	-180	-69	+72	+212	+297	+318	+282	+216	+144	+106	+57	+12	-20	-41	-55
August	-69	-102	-114	-136	-132	-187	-215	-249	-214	-114	+18	+190	+329	+381	+347	+265	+171	+62	+22	-24	-46	-49	-79	-68
Sept.	-55	-64	-102	-121	-120	-124	-151	-185	-203	-142	-06	+179	+309	+352	+315	+219	+134	+73	+16	-24	-57	-99	-99	-50
Oct.	-77	-65	-63	-37	-43	-42	-35	-79	-135	-126	-17	+131	+230	+257	+232	+170	+131	+86	+02	-22	-95	-137	-140	-124
Nov.	-130	-80	-79	-35	+02	+29	+59	+31	-25	-18	+36	+116	+168	+162	+115	+89	+89	+28	-41	-45	-101	-126	-130	-112
Dec.	-100	-73	-39	-66	+05	+02	+02	-03	-03	+08	+46	+99	+133	+140	+126	+106	+84	+37	+02	-63	-92	-148	-148	-114
Year	-82	-77	-87	-78	-75	-83	-89	-112	-126	-91	+03	+127	+226	+262	+241	+189	+131	+71	+20	-21	-60	-93	-104	-92
Winter	-96	-71	-67	-26	-10	+01	+19	+11	-03	+09	+46	+114	+164	+171	+135	+99	+63	+12	-20	-68	-95	-139	-136	-110
Equinox	-74	-67	-82	-78	-74	-62	-72	-115	-145	-118	-04	+150	+266	+303	+275	+193	+116	+61	-13	-38	-81	-112	-127	-104
Summer	-77	-93	-111	-131	-142	-189	-213	-232	-230	-164	-33	+118	+248	+314	+314	+275	+213	+140	+91	+42	-03	-26	-50	-64

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	-35	-40	-40	-38	-40	-39	-24	-24	-33	-43	-48	-51	-45	+01	+43	+63	+79	+104	+84	+71	+54	+26	-04	-16
Feb.	-32	-52	-61	-62	-46	-48	-45	-42	-45	-63	-66	-46	-37	-05	+27	+78	+88	+97	+92	+97	+86	+60	+31	-02
March	-58	-96	-95	-73	-39	-44	-32	-05	-32	-72	-99	-92	-69	-19	+34	+103	+155	+190	+170	+136	+91	+37	-34	-67
April	-11	-26	-31	-30	-14	-22	-08	+06	-24	-70	-115	-147	-148	-79	+07	+78	+107	+134	+131	+110	+78	+62	+13	-03
May	+02	-27	-27	-13	-08	-14	-09	-27	-43	-85	-130	-166	-142	-82	-03	+46	+91	+129	+148	+137	+108	+68	+32	+15
June	+04	-09	-13	+04	+11	+24	+13	-03	-34	-94	-135	-170	-140	-94	-29	+16	+69	+96	+122	+122	+101	+60	+45	+23
July	-05	-27	-41	-23	-25	-01	-03	-12	-21	-57	-96	-144	-134	-78	-02	+45	+91	+119	+131	+115	+87	+44	+24	+12
August	-63	-66	-66	-37	-11	-13	-05	-12	-50	-90	-136	-158	-145	-76	+34	+117	+154	+183	+158	+138	+94	+55	+19	-19
Sept.	-34	-51	-42	-30	-10	+01	+13	+13	-22	-56	-107	-124	-110	-54	+12	+66	+99	+112	+101	+106	+79	+51	+08	-17
Oct.	-33	-30	-30	-35	-27	-31	-17	-01	-18	-47	-89	-94	-70	-25	+19	+60	+71	+87	+101	+104	+83	+49	+05	-21
Nov.	-43	-59	-62	-63	-66	-72	-62	-55	-50	-48	-59	-32	-08	+42	+76	+95	+92	+88	+87	+79	+67	+42	+10	-03
Dec.	-24	-25	-28	-37	-31	-38	-35	-36	-58	-63	-67	-52	-44	-02	+35	+78	+75	+79	+82	+83	+65	+38	+15	-09
Year	-28	-42	-45	-36	-26	-25	-18	-17	-36	-66	-96	-106	-91	-39	+21	+70	+98	+118	+117	+108	+83	+49	+14	-09
Winter	-34	-44	-48	-50	-46	-49	-42	-39	-47	-54	-60	-45	-34	+09	+45	+79	+84	+92	+86	+83	+68	+42	+13	-08
Equinox	-34	-51	-50	-42	-23	-24	-11	+03	-24	-61	-103	-114	-99	-44	+18	+77	+108	+131	+126	+114	+83	+50	-02	-27
Summer	-16	-32	-37	-17	-08	-01	-01	-14	-37	-82	-124	-160	-140	-83	00	+56	+101	+132	+140	+128	+98	+57	+30	+08

MAGNETIC OBSERVATIONS, ABINGER 1941.

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, 1941.	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.	-102	-092	-124	-044	-064	-068	-082	-104	-066	-024	+048	+164	+240	+214	+156	+088	+088	+064	+058	+008	-030	-084	-116	-118
Feb.	-178	-182	-168	-128	-114	-070	-066	-100	-098	-034	+100	+198	+280	+254	+262	+178	+174	+118	+094	-056	-042	-096	-142	-182
March	-187	-141	-077	-109	-165	-141	-159	-278	-333	-239	-003	+295	+461	+469	+357	+223	+115	+041	+013	+023	-009	-043	-081	-037
April	-100	-076	-092	-154	-156	-134	-202	-332	-390	-312	-094	+174	+404	+494	+442	+334	+244	+112	-014	-030	-006	-016	-052	-040
May	-108	-078	-118	-226	-306	-390	-412	-414	+414	-314	-058	+202	+408	+510	+506	+428	+336	+236	+138	+118	+064	-022	-008	-086
June	-061	-105	-183	-213	-279	-383	-415	-439	-381	-279	-081	+095	+269	+373	+437	+459	+351	+277	+201	+141	+111	+075	+051	-031
July	-131	-139	-153	-183	-257	-421	-489	-487	-475	-323	-079	+197	+421	+601	+685	+607	+425	+251	+117	+063	+001	-055	-091	-089
August	-123	-139	-161	-175	-209	-293	-375	-445	-459	-323	-067	+289	+559	+689	+625	+461	+293	+117	+009	-009	-023	-021	-081	-129
Sept.	-102	-150	-148	-174	-240	-272	-326	-390	-370	-212	+070	+390	+568	+604	+478	+280	+114	+032	+044	+036	+004	-070	-088	-078
Oct.	-071	-069	-109	-143	-143	-145	-201	-259	-303	-229	-035	+259	+395	+427	+379	+217	+157	+115	+079	+025	-027	-077	-089	-159
Nov.	-135	-089	-085	-107	-085	-049	-063	-075	-115	-095	+031	+193	+241	+211	+159	+131	+141	+089	+039	+013	+009	-119	-141	-099
Dec.	-112	-070	-046	+018	-006	-038	-038	-058	-098	-052	+078	+158	+206	+184	+168	+114	+124	+040	-032	-040	-100	-130	-168	-112
Year	-118	-111	-122	-137	-169	-200	-236	-282	-292	-203	-008	+218	+371	+419	+388	+293	+214	+124	+062	+025	-004	-055	-092	-097
Winter	-132	-108	-106	-065	-067	-056	-062	-084	-094	-051	+064	+178	+242	+216	+186	+128	+132	+078	+040	-019	-041	-107	-142	-128
Equinox	-115	-109	-107	-145	-176	-173	-222	-315	-349	-248	-016	+280	+457	+499	+414	+264	+158	+075	+031	+014	-010	-052	078	-079
Summer	-106	-115	-154	-199	-263	-372	-423	-446	-432	-310	-071	+196	+414	+543	+563	+489	+351	+220	+116	+078	+038	-006	-032	-084

INCLINATION (Unit 0.01)

Jan.	+066	+047	+040	+032	+003	-008	-018	-028	-031	-021	+002	+016	+020	+006	-015	-005	-018	-019	-030	-027	-024	-022	+010	+035
Feb.	-001	-003	+005	-003	-024	-042	-048	-048	-040	+013	+017	+010	+027	+027	+001	-005	-030	+002	+024	+016	+028	+026	+027	+013
March	-035	+009	-001	+011	-010	-009	+004	+017	+041	+077	+071	+039	+017	+010	+002	-008	-014	-006	-012	-041	-035	-036	-060	-046
April	-014	-010	-003	+008	+017	+006	+012	+017	+010	+045	+086	+083	+058	+023	+001	-009	-046	-032	-036	-037	-049	-050	-044	-036
May	+007	+018	+031	+022	+002	+002	+006	+002	+030	+047	+047	+052	+053	+046	+041	-001	-041	-053	-070	-062	-055	-038	-038	-047
June	-021	-024	-005	+001	-013	+008	+036	+062	+076	+074	+070	+091	+090	+080	+050	+006	-040	-097	-097	-090	-080	-073	-055	-043
July	-019	-007	-014	-018	-021	-002	-002	+034	+090	+131	+141	+123	+112	+086	+035	-020	-056	-073	-078	-091	-096	-086	-082	-073
August	-010	-017	-024	-001	-002	+010	+030	+073	+102	+126	+117	+079	+038	+003	+001	-002	-022	-030	-063	-084	-088	-096	-090	-057
Sept.	-029	-027	-016	-017	-004	+017	+044	+072	+103	+140	+155	+111	+034	-022	-032	-026	-025	-041	-070	-080	-066	-079	-075	-070
Oct.	-004	-005	000	-011	-016	-023	-032	+008	+063	+117	+130	+091	+062	+044	+013	+005	-026	-044	-064	-066	-063	-062	-059	-048
Nov.	+030	+021	+009	-013	-021	-031	-038	-037	-019	+020	+053	+053	+057	+049	+040	+026	-005	-021	-033	-043	-057	-015	000	-016
Dec.	+042	+036	+016	-003	-020	-026	-032	-037	-038	-028	-003	-010	-017	-005	000	+046	+020	+017	+011	+012	+014	+017	+004	-007
Year	+001	+003	+003	+001	-009	-009	-003	+011	+032	+062	+074	+062	+046	+029	+011	+001	-025	-033	-043	-049	-048	-043	-039	-033
Winter	+034	+025	+018	+003	-016	-027	-034	-038	-032	-004	+017	+017	+022	+019	+006	+016	-008	-005	-007	-011	-010	+002	+010	+006
Equinox	-021	-008	-005	-002	-003	-003	+007	+029	+054	+095	+111	+081	+043	+014	-004	-010	-028	-031	-046	-056	-053	-057	-060	-050
Summer	-011	-008	-003	+001	-009	+004	+018	+043	+075	+095	+094	+086	+073	+054	+032	-004	-040	-063	-077	-082	-080	-073	-066	-055

HORIZONTAL INTENSITY (Unit 0.1γ)

Jan.	- 91	- 65	- 53	- 43	- 03	+ 15	+ 33	+ 45	+ 41	+ 15	- 23	- 41	- 41	- 09	+ 29	+ 15	+ 31	+ 39	+ 51	+ 45	+ 37	+ 33	- 19	- 53
Feb.	+ 08	+ 04	- 10	00	+ 40	+ 54	+ 60	+ 64	+ 50	- 38	- 50	- 40	- 66	- 50	- 08	+ 12	+ 50	+ 10	- 20	00	- 18	- 20	- 22	- 04
March	+ 34	- 24	- 08	- 20	+ 20	+ 12	+ 02	- 02	- 52	-136	-148	-124	- 68	- 32	- 02	+ 34	+ 46	+ 34	+ 40	+ 84	+ 74	+ 72	+ 94	+ 76
April	+ 24	+ 22	+ 14	+ 02	- 12	+ 06	- 02	- 10	- 16	- 90	-172	-184	-150	- 72	- 14	+ 16	+ 80	+ 78	+ 88	+ 84	+ 92	+ 88	+ 70	+ 62
May	+ 05	- 21	- 39	- 27	+ 09	+ 13	+ 01	- 01	- 53	-103	-123	-149	-145	-111	- 73	+ 07	+ 81	+117	+149	+131	+111	+ 77	+ 71	+ 79
June	+ 41	+ 43	+ 19	+ 21	+ 43	+ 19	- 33	- 85	-117	-141	-151	-205	-189	-153	- 87	- 19	+ 67	+165	+167	+165	+139	+121	+ 93	+ 71
July	+ 39	+ 21	+ 35	+ 49	+ 57	+ 57	+ 21	- 39	-127	-209	-243	-249	-241	-193	- 85	+ 23	+101	+137	+155	+167	+159	+139	+127	+109
August	+ 33	+ 41	+ 49	+ 17	+ 25	+ 09	- 15	- 87	-143	-199	-209	-187	-149	- 77	- 45	- 01	+ 43	+ 75	+121	+153	+151	+157	+145	+ 97
Sept.	+ 58	+ 54	+ 40	+ 40	+ 26	- 08	- 48	- 94	-156	-226	-272	-222	-104	- 08	+ 36	+ 44	+ 50	+ 78	+112	+132	+112	+128	+114	+112
Oct.	+ 24	+ 20	+ 10	+ 28	+ 38	+ 46	+ 60	00	- 96	-190	-230	-182	-132	- 80	- 14	+ 08	+ 48	+ 72	+100	+106	+100	+ 98	+ 88	+ 70
Nov.	- 46	- 32	- 20	+ 12	+ 28	+ 40	+ 50	+ 54	+ 24	- 40	- 98	- 94	- 98	- 68	- 48	- 24	+ 18	+ 44	+ 56	+ 72	+ 92	+ 32	+ 08	+ 28
Dec.	- 60	- 50	- 20	+ 06	+ 34	+ 44	+ 52	+ 56	+ 48	+ 18	- 24	- 10	+ 08	00	- 02	- 58	- 18	- 08	- 02	00	- 06	- 20	- 06	+ 08
Year	+ 06	+ 01	+ 01	+ 07	+ 25	+ 26	+ 15	- 08	- 50	-112	-145	-141	-115	- 71	- 26	+ 05	+ 50	+ 70	+ 85	+ 95	+ 87	+ 75	+ 64	+ 55
Winter	- 47	- 36	- 26	- 06	+ 25	+ 38	+ 49	+ 55	+ 41	- 11	- 49	- 46	- 49	- 32	- 07	- 14	+ 20	+ 21	+ 21	+ 29	+ 26	+ 06	- 10	- 05
Equinox	+ 35	+ 18	+ 14	+ 13	+ 18	+ 14	+ 03	- 27	- 80	-161	-206	-178	-114	- 48	+ 02	+ 26	+ 56	+ 66	+ 85	+102	+ 95	+ 97	+ 92	+ 80
Summer	+ 30	+ 21	+ 16	+ 15	+ 34	+ 25	- 07	- 53	-110	-163	-182	-198	-181	-134	- 73	+ 03	+ 73	+124	+148	+154	+140	+124	+109	+ 89

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

International Quiet Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1941.	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.	- 80	- 55	- 40	- 38	+ 03	+ 21	+ 41	+ 54	+ 47	+ 17	- 27	- 56	- 64	- 30	+ 13	+ 06	+ 22	+ 32	+ 44	+ 43	+ 39	+ 41	- 07	- 41
Feb.	+ 25	+ 22	+ 07	+ 13	+ 51	+ 60	+ 66	+ 73	+ 59	- 34	- 59	- 59	- 92	- 74	- 34	- 06	+ 32	- 02	- 29	+ 06	- 14	- 10	- 08	+ 14
March	+ 52	- 10	- 00	- 09	+ 36	+ 26	+ 18	+ 25	- 18	-110	-145	-151	-112	- 78	- 37	+ 12	+ 34	+ 29	+ 38	+ 80	+ 74	+ 75	+100	+ 78
April	+ 33	+ 29	+ 23	+ 17	+ 04	+ 19	+ 18	+ 23	+ 23	- 58	-160	-198	-187	-119	- 57	- 17	+ 55	+ 66	+ 88	+ 86	+ 91	+ 88	+ 74	+ 65
May	+ 16	- 13	- 27	- 04	+ 39	+ 51	+ 42	+ 40	- 11	- 70	-115	-166	-183	-159	-122	- 35	+ 47	+ 92	+133	+117	+103	+ 78	+ 71	+ 86
June	+ 46	+ 53	+ 37	+ 42	+ 70	+ 56	+ 08	- 40	- 78	-111	-140	-211	-212	-187	-129	- 64	+ 31	+135	+144	+148	+126	+112	+ 86	+ 73
July	+ 51	+ 34	+ 49	+ 66	+ 81	+ 97	+ 69	+ 10	- 78	-174	-231	-264	-278	-249	-151	- 37	+ 58	+110	+141	+158	+156	+142	+134	+116
August	+ 45	+ 54	+ 64	+ 34	+ 45	+ 38	- 22	- 42	- 96	-164	-199	-212	-201	-143	-106	- 46	+ 14	+ 62	+118	+151	+151	+156	+151	+108
Sept.	+ 67	+ 68	+ 54	+ 56	+ 49	+ 19	- 15	- 54	-117	-201	-274	-257	-158	- 67	- 12	+ 16	+ 38	+ 74	+106	+126	+110	+133	+121	+118
Oct.	+ 31	+ 27	+ 21	+ 42	+ 52	+ 60	+ 79	+ 26	- 65	-164	-223	-204	-169	-121	- 51	- 13	+ 32	+ 60	+ 91	+102	+101	+104	+ 95	+ 84
Nov.	- 32	- 23	- 11	+ 22	+ 36	+ 44	+ 55	+ 61	+ 35	- 30	- 99	-111	-120	- 88	- 63	- 37	+ 04	+ 35	+ 51	+ 70	+ 90	+ 43	+ 22	+ 37
Dec.	- 48	- 42	- 15	+ 04	+ 34	+ 47	+ 55	+ 61	+ 57	+ 23	- 31	- 25	- 12	- 18	- 19	- 68	- 30	- 12	+ 01	+ 04	+ 04	- 07	+ 11	+ 19
Year	+ 17	+ 12	+ 14	+ 20	+ 42	+ 45	+ 38	+ 20	- 20	- 90	-142	-160	-149	-111	- 64	- 24	+ 28	+ 57	+ 77	+ 91	+ 86	+ 80	+ 71	+ 63
Winter	- 34	- 25	- 15	+ 00	+ 31	+ 43	+ 54	+ 62	+ 50	- 06	- 54	- 63	- 72	- 53	- 26	- 26	+ 07	+ 13	+ 17	+ 31	+ 30	+ 17	+ 05	+ 07
Equinox	+ 46	+ 29	+ 25	+ 27	+ 36	+ 31	+ 25	+ 05	- 44	-133	-200	-203	-157	- 96	- 39	- 01	+ 40	+ 57	+ 81	+ 99	+ 94	+100	+ 98	+ 86
Summer	+ 40	+ 32	+ 31	+ 35	+ 59	+ 61	+ 35	- 08	- 66	-130	-171	-213	-219	-185	-127	- 46	+ 38	+100	+134	+144	+134	+122	+111	+ 96

WEST COMPONENT (Unit 0.1γ)

Jan.	- 71	- 61	- 75	- 31	- 34	- 33	- 38	- 47	- 28	- 10	+ 21	+ 80	+120	+112	+ 88	+ 49	+ 52	+ 41	+ 40	+ 12	- 09	- 39	- 65	- 72
Feb.	- 93	- 96	- 91	- 68	- 53	- 27	- 24	- 41	- 43	- 25	+ 44	+ 98	+136	+126	+137	+ 97	+101	+ 64	+ 46	- 30	- 26	- 55	- 79	- 97
March	- 93	- 79	- 42	- 61	- 84	- 73	- 84	-148	-186	-152	- 29	+134	+232	+243	+189	+125	+ 69	+ 28	+ 14	+ 28	+ 09	- 10	- 26	- 06
April	- 49	- 36	- 46	- 81	- 85	- 70	-108	-178	-210	-182	- 81	+ 59	+187	+249	+232	+180	+144	+ 74	+ 09	- 01	+ 14	+ 08	- 15	- 10
May	- 56	- 45	- 70	-125	-161	-204	-218	-220	-229	-185	- 53	+ 80	+190	+250	+255	+228	+193	+147	+100	+ 86	+ 54	+ 02	+ 09	- 31
June	- 25	- 48	- 94	-109	-140	-200	-226	-248	-223	-174	- 71	+ 13	+108	+170	+216	+240	+198	+177	+137	+105	+ 84	+ 62	+ 44	- 04
July	- 62	- 70	- 75	- 88	-126	-213	-256	-265	-275	-209	- 86	+ 59	+179	+284	+348	+326	+244	+158	+ 90	+ 64	+ 29	- 04	- 25	- 27
August	- 59	- 66	- 77	- 90	-106	-154	-202	-252	-269	-208	- 74	+119	+269	+351	+323	+244	+163	+ 76	+ 27	+ 23	+ 15	+ 18	- 17	- 51
Sept.	- 44	- 70	- 71	- 85	-123	-146	-182	-224	-225	-154	- 12	+166	+282	+319	+260	+157	+ 70	+ 31	+ 44	+ 43	+ 23	- 14	- 26	- 21
Oct.	- 33	- 33	- 56	- 71	- 69	- 69	- 96	-137	-178	-156	- 61	+104	+186	+212	+199	+114	+ 92	+ 74	+ 60	+ 33	+ 04	- 23	- 31	- 72
Nov.	- 80	- 53	- 49	- 55	- 40	- 19	- 24	- 30	- 57	- 58	- 01	+ 85	+110	+100	+ 76	+ 65	+ 78	+ 55	+ 31	+ 20	+ 22	- 57	- 73	- 47
Dec.	- 70	- 46	- 28	+ 11	+ 03	- 12	- 11	- 21	- 43	- 24	+ 37	+ 82	+111	+ 98	+ 89	+ 50	+ 63	+ 20	- 17	- 21	- 54	- 73	- 90	- 58
Year	- 61	- 59	- 65	- 71	- 85	-102	-122	-151	-164	-128	- 31	+ 90	+176	+210	+201	+156	+122	+ 79	+ 48	+ 30	+ 14	- 15	- 33	- 41
Winter	- 79	- 64	- 61	- 36	- 31	- 23	- 24	- 35	- 43	- 29	+ 25	+ 86	+119	+109	+ 98	+ 65	+ 74	+ 45	+ 25	- 05	- 17	- 56	- 77	- 69
Equinox	- 55	- 55	- 54	- 75	- 90	- 90	-118	-172	-200	-161	- 46	+116	+222	+256	+220	+144	+ 94	+ 52	+ 32	+ 26	+ 13	- 10	- 25	- 27
Summer	- 51	- 57	- 79	-103	-133	-193	-226	-246	-249	-194	- 71	+ 68	+187	+264	+286	+260	+200	+140	+ 89	+ 70	+ 46	+ 20	+ 03	- 28

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	+ 19	- 11	+ 13	+ 09	+ 05	+ 07	+ 15	+ 07	- 11	- 37	- 45	- 41	- 27	- 01	+ 19	+ 19	+ 09	+ 25	+ 13	+ 11	+ 03	- 01	- 11	- 03
Feb.	+ 14	00	- 08	- 10	+ 10	- 20	- 26	- 16	- 20	- 46	- 58	- 58	- 58	- 24	- 14	+ 12	+ 14	+ 32	+ 38	+ 56	+ 54	+ 44	+ 42	+ 36
March	- 42	- 24	- 20	- 08	+ 12	- 02	+ 18	+ 54	+ 20	- 52	-102	-118	-102	- 42	+ 02	+ 52	+ 60	+ 60	+ 52	+ 56	+ 52	+ 40	+ 12	+ 18
April	+ 08	+ 16	+ 20	+ 30	+ 30	+ 34	+ 38	+ 34	- 02	- 54	-104	-142	-148	- 88	- 28	+ 06	+ 26	+ 70	+ 80	+ 68	+ 46	+ 30	+ 10	+ 22
May	+ 33	+ 13	+ 17	+ 15	+ 27	+ 23	+ 23	+ 03	- 21	- 77	-123	-165	-155	- 99	- 29	+ 13	+ 47	+ 91	+105	+ 91	+ 69	+ 49	+ 35	+ 21
June	+ 23	+ 19	+ 29	+ 51	+ 55	+ 73	+ 47	+ 19	- 09	- 73	-111	-161	-129	- 81	- 31	- 25	+ 17	+ 47	+ 53	+ 71	+ 47	+ 27	+ 27	+ 19
July	+ 25	+ 23	+ 33	+ 53	+ 59	+ 61	+ 43	+ 29	+ 17	- 35	- 79	-157	-173	-153	- 75	- 17	+ 43	+ 65	+ 91	+ 71	+ 39	+ 27	+ 09	- 01
August	+ 40	+ 38	+ 32	+ 36	+ 52	+ 56	+ 68	+ 50	+ 22	- 26	- 84	-162	-214	-170	-102	- 10	+ 24	+ 68	+ 64	+ 66	+ 50	+ 36	+ 28	+ 28
Sept.	+ 34	+ 32	+ 38	+ 36	+ 46	+ 40	+ 40	+ 32	- 06	- 40	- 98	-132	-126	- 92	- 28	+ 14	+ 30	+ 38	+ 18	+ 32	+ 32	+ 24	+ 06	+ 18
Oct.	+ 40	+ 28	+ 24	+ 26	+ 36	+ 26	+ 28	+ 26	- 06	- 38	- 88	-106	- 92	- 36	+ 14	+ 36	+ 22	+ 14	+ 12	+ 18	+ 14	+ 14	00	- 02
Nov.	- 05	- 05	- 13	- 17	- 07	- 15	- 15	- 05	- 11	- 23	- 45	- 35	- 31	+ 11	+ 29	+ 35	+ 25	+ 31	+ 19	+ 19	+ 17	+ 23	+ 17	+ 11
Dec.	+ 07	+ 07	+ 09	+ 03	+ 09	+ 13	+ 11	+ 05	- 21	- 57	- 67	- 59	- 43	- 19	- 03	+ 21	+ 27	+ 41	+ 35	+ 41	+ 33	+ 15	- 01	- 07
Year	+ 16	+ 13	+ 15	+ 19	+ 28	+ 25	+ 24	+ 20	- 04	- 47	- 84	-111	-108	- 66	- 21	+ 13	+ 29	+ 49	+ 48	+ 50	+ 38	+ 27	+ 15	+ 13
Winter	+ 09	+ 03	+ 00	- 04	+ 04	- 04	- 04	- 02	- 16	- 41	- 54	- 48	- 40	- 08	+ 08	+ 22	+ 19	+ 32	+ 26	+ 32	+ 27	+ 20	+ 12	+ 09
Equinox	+ 10	+ 13	+ 16	+ 21	+ 31	+ 25	+ 31	+ 37	+ 02	- 46	- 98	-125	-117	- 65	- 10	+ 27	+ 35	+ 46	+ 41	+ 44	+ 36	+ 27	+ 07	+ 14
Summer	+ 30	+ 23	+ 28	+ 39	+ 48	+ 53	+ 45	+ 25	+ 02	- 53	- 99	-161	-168	-126	- 59	- 10	+ 33	+ 68	+ 78	+ 75	+ 51	+ 35	+ 25	+ 17

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, 1941.	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.	+018	+006	-196	+072	+160	+086	+112	+140	+124	+230	+166	+310	+462	+442	+324	+330	-140	-514	-258	-484	-314	-348	-442	-288
Feb.	-060	-234	-036	+070	-026	+046	+106	+130	+158	+232	+300	+404	+546	+610	+472	+248	-180	-320	-394	-194	-374	-608	-556	-334
March	-358	-478	-668	-353	-120	-015	+147	+155	+010	000	+435	+620	+820	+852	+807	+655	+260	+027	-045	-295	-815	-408	-543	-688
April	-231	-157	-195	-209	-151	+109	+149	-125	-195	-091	+117	+349	+647	+815	+687	+541	+309	+235	-407	-311	-353	-449	-587	-487
May	-253	-291	-407	-373	-165	-093	-133	-147	-251	-141	+113	+353	+561	+609	+581	+533	+419	+345	+173	+011	-255	-291	-499	-411
June	-289	-415	-533	-489	-443	-477	-471	-453	-323	-115	+135	+353	+569	+703	+681	+721	+593	+427	+277	+117	-017	-089	-191	-269
July	-166	-253	+002	-168	-103	-106	-138	-258	-246	-046	+089	+244	+404	+504	+449	+327	+199	+107	+119	-126	-316	-243	-163	-108
August	-141	-081	-135	-265	-165	-295	-283	-329	-195	+111	+307	+507	+787	+875	+875	+515	+367	-085	-225	-343	-417	-349	-611	-427
Sept.	+042	-138	-288	-384	-368	-298	-308	-341	-321	-121	+186	+479	+736	+749	+722	+532	+389	+196	-184	-301	-161	-514	-261	-038
Oct.	-235	-169	-135	+041	-149	-145	+039	+019	-135	-193	+033	+299	+507	+663	+635	+541	+487	+301	-121	-023	-379	-685	-551	-657
Nov.	-468	-268	-488	-398	-088	+164	+462	+426	+150	+222	+242	+292	+444	+520	+236	+258	+286	+026	-438	-346	-374	-434	-194	-240
Dec.	-244	-308	-254	-056	+050	-002	-032	-002	+088	+142	+214	+334	+398	+444	+366	+288	+166	-104	-032	-324	-268	-396	-300	-172
Year	-199	-232	-278	-209	-131	-086	-029	-065	-095	+019	+195	+379	+573	+649	+570	+457	+263	+053	-128	-218	-337	-401	-408	-343
Winter	-189	-201	-244	-078	+024	+074	+162	+174	+130	+207	+231	+335	+463	+504	+350	+281	+033	-228	-281	-337	-333	-447	-373	-259
Equinox	-196	-236	-322	-226	-197	-087	+007	-073	-160	-101	+193	+437	+678	+770	+713	+567	+361	+190	-189	-233	-427	-514	-486	-468
Summer	-212	-260	-268	-324	-219	-243	-256	-297	-254	-048	+161	+364	+580	+673	+647	+524	+395	+199	+086	-085	-251	-243	-366	-304
INCLINATION (Unit 0'.01)																								
Jan.	-105	-124	-079	-072	-111	-154	-149	-145	-118	-087	+002	-021	+019	+089	+058	+123	+285	+227	+211	+110	+098	+019	+030	-100
Feb.	-065	-062	-039	-035	-076	-144	-153	-136	-111	-041	+038	-031	-010	+081	+163	+124	+129	+188	+108	+076	-030	+022	+028	-028
March	-145	-135	-171	-087	-197	-175	-157	-089	-006	+123	+308	+313	+085	+086	+034	+087	+018	+059	+052	+011	-087	+014	+072	-018
April	-054	-050	-106	-090	-087	-067	-098	+020	+018	+116	+145	+093	+045	+030	+096	+031	-013	+008	+022	-036	+055	+013	-038	-047
May	-056	-092	-060	-067	-081	-058	+027	+095	+119	+141	+081	+074	+089	+108	+098	+018	-008	-066	-097	-083	-072	-047	-023	-044
June	-111	-103	-147	-110	-092	-031	+037	+145	+169	+233	+207	+108	+102	+080	+017	+010	-067	-039	-084	-118	-052	-055	-069	-040
July	-005	-062	-068	-052	-120	-086	-055	+112	+212	+254	+203	+188	+087	+009	+020	-043	-081	-102	-186	-095	-042	-013	-020	-058
August	-150	-241	-216	-228	-210	-232	-129	+005	+130	+159	+200	+160	+140	+113	+120	+089	+085	+051	+088	+067	+021	+006	-019	000
Sept.	-109	-091	-076	-031	-037	-058	-018	+020	+077	+168	+183	+052	+033	+063	+076	+044	-023	-043	+013	-021	-004	-046	-053	-115
Oct.	-131	-111	-125	-184	-227	-178	-113	-071	-006	+048	+098	+105	+061	+052	+027	+007	+017	+176	+243	+144	+121	+051	+033	-027
Nov.	-113	-146	-158	-293	-359	-250	-203	-078	+030	+077	+092	+115	+143	+215	+173	+153	+139	+236	+141	+120	+094	-001	-033	-091
Dec.	-093	-038	-085	-089	-115	-112	-091	-086	-083	-080	-021	-040	-028	-001	+128	+182	+177	+168	+140	+126	+056	+037	+021	-066
Year	-095	-105	-111	-112	-143	-129	-092	-017	+036	+093	+128	+093	+064	+077	+084	+069	+055	+072	+054	+025	+013	000	-006	-053
Winter	-094	-093	-090	-122	-165	-165	-149	-111	-071	-033	+028	+006	+031	+096	+131	+146	+183	+205	+150	+108	+055	+019	+012	-071
Equinox	-110	-097	-120	-098	-137	-120	-097	-030	+021	+114	+184	+141	+056	+058	+058	+042	-000	+050	+083	+025	+021	+008	+004	-052
Summer	-081	-125	-123	-114	-126	-102	-030	+089	+158	+197	+173	+133	+105	+078	+064	+019	-018	-039	-070	-057	-036	-027	-033	-036
HORIZONTAL INTENSITY (Unit 0.1γ)																								
Jan.	+105	+127	+ 59	+ 57	+115	+177	+185	+181	+133	+ 89	- 37	+ 01	- 47	-123	- 55	-131	-323	-207	-217	- 89	- 91	- 07	- 41	+127
Feb.	+ 63	+ 41	+ 11	+ 07	+ 77	+181	+185	+165	+129	+ 21	- 89	+ 27	- 03	-115	-207	-105	- 93	-179	- 81	- 45	+ 81	- 23	- 51	+ 09
March	+135	+ 28	+ 85	+ 08	+210	+193	+185	+100	- 22	-212	-495	-475	-112	- 77	+ 25	- 22	+110	+ 88	+ 90	+125	+213	- 02	-122	- 50
April	+ 70	+ 52	+130	+ 98	+102	+ 54	+ 94	- 74	- 70	-232	-282	-214	-142	- 86	-124	+ 26	+128	+116	+ 92	+148	- 22	+ 34	+ 52	+ 46
May	+ 81	+105	+ 55	+ 61	+ 79	+ 25	- 97	-201	-227	-257	-183	-179	-173	-155	-101	+ 31	+ 83	+187	+241	+211	+185	+113	+ 49	+ 65
June	+145	+123	+171	+125	+107	+ 25	- 71	-231	-281	-395	-369	-235	-203	-145	- 11	+ 19	+159	+131	+223	+261	+145	+123	+125	+ 67
July	00	+ 45	+ 08	- 37	+ 58	+ 33	- 07	-247	-367	-435	-350	-312	-130	+ 28	+ 58	+168	+223	+265	+395	+250	+153	+ 65	+ 48	+ 98
August	+157	+255	+213	+259	+233	+253	+115	- 77	-273	-335	-415	-333	-263	-155	- 35	+ 65	+ 89	+159	+ 55	+ 45	+ 47	+ 11	- 07	- 73
Sept.	+124	+ 61	+ 57	+ 11	+ 34	+ 67	+ 11	- 43	-146	-293	-336	-119	- 59	- 63	- 59	- 19	- 81	+111	+ 44	+104	+ 57	+101	+ 97	+171
Oct.	+156	+122	+140	+212	+276	+208	+124	+ 78	- 16	-100	-186	-194	-112	- 78	- 26	+ 32	+ 40	-150	-214	- 84	- 86	- 42	- 80	- 30
Nov.	+ 91	+119	+137	+341	+411	+235	+181	+ 11	-117	-157	-169	-163	-175	-243	-139	-103	- 75	-223	- 77	- 77	- 63	+ 55	+ 65	+133
Dec.	+ 87	+ 11	+ 73	+ 65	+101	+ 91	+ 83	+ 89	+ 81	+ 79	- 07	+ 43	+ 29	+ 23	-113	-123	-135	-157	-129	-125	- 45	- 55	- 41	+ 71
Year	+101	+ 91	+ 95	+101	+150	+129	+ 82	- 21	- 98	-186	-243	-179	-116	- 99	- 66	- 14	+ 24	+ 12	+ 35	+ 60	+ 48	+ 31	+ 08	+ 53
Winter	+ 87	+ 75	+ 70	+118	+176	+171	+159	+112	+ 57	+ 08	- 76	- 23	- 49	-115	-129	-116	-157	-192	-126	- 84	- 30	- 08	- 17	+ 85
Equinox	+121	+ 66	+103	+ 82	+156	+131	+104	+ 15	- 64	-209	-325	-251	-106	- 76	- 46	+ 04	+ 90	+ 41	+ 03	+ 73	+ 41	+ 23	- 13	+ 34
Summer	+ 96	+132	+112	+102	+118	+ 84	- 15	-189	-287	-356	-329	-265	-192	-107	- 22	+ 71	+139	+186	+229	+192	+133	+ 78	+ 54	+ 39

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing

Month and Season, 1941.	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.	+101	+124	+ 77	+ 49	+ 97	+166	+171	+164	+119	+ 65	- 53	- 30	- 92	-164	- 86	-161	-304	-153	-188	- 40	- 59	+ 27	+ 03	+153
Feb.	+ 68	+ 63	+ 14	00	+ 78	+173	+172	+149	+111	- 02	-117	- 13	- 57	-173	-250	-128	- 74	-145	- 41	- 25	+116	+ 37	+ 05	+ 42
March	+168	+ 75	+149	+ 43	+218	+191	+167	+ 83	- 23	-208	-529	-528	-191	-160	- 55	- 86	+ 83	+ 84	+ 93	+152	+290	+ 38	- 67	+ 18
April	+ 92	+ 67	+147	+117	+115	+ 42	+ 78	- 60	- 50	-219	-289	-245	-203	-165	-189	- 28	+ 95	+ 91	+130	+176	+ 13	+ 78	+109	+ 93
May	+105	+132	+ 94	+ 97	+ 94	+ 34	- 82	-183	-198	-239	-191	-211	-225	-212	-156	- 22	+ 40	+150	+220	+206	+207	+140	+ 97	+104
June	+171	+162	+221	+171	+149	+ 72	- 24	-183	-244	-377	-376	-266	-255	-212	- 78	- 52	+ 98	+ 87	+192	+245	+144	+130	+142	+ 92
July	+ 16	+ 69	+ 08	- 20	+ 67	+ 43	+ 07	-217	-337	-423	-353	-331	-168	- 22	+ 13	+133	+200	+250	+377	+258	+182	+ 88	+ 63	+107
August	+168	+259	+223	+281	+245	+278	+141	- 43	-249	-340	-438	-377	-336	-239	-120	+ 13	+ 51	+165	+ 76	+ 78	+ 87	+ 45	+ 53	- 30
Sept.	+118	+ 74	+ 84	+ 49	+ 70	+ 95	+ 41	- 09	-112	-276	-349	-164	-130	-136	-129	- 71	+ 41	+ 90	+ 61	+132	+ 72	+150	+121	+172
Oct.	+176	+137	+151	+204	+286	+219	+118	+ 75	- 02	- 79	-186	-220	-160	-142	- 88	- 22	- 09	-177	-199	- 80	- 47	+ 26	- 24	+ 35
Nov.	+136	+143	+183	+374	+413	+215	+133	- 31	-130	-176	-190	-189	-216	-290	-160	-127	-102	-222	- 33	- 42	- 25	+ 97	+ 83	+154
Dec.	+110	+ 41	+ 97	+ 69	+ 94	+ 90	+ 85	+ 88	+ 71	+ 64	- 28	+ 10	- 11	- 21	-147	-149	-149	-144	-124	- 91	- 18	- 15	- 11	+ 87
Year	+119	+112	+121	+120	+161	+135	+ 84	- 14	- 87	-184	-258	-214	-170	-161	-120	- 58	- 03	+ 06	+ 47	+ 81	+ 80	+ 70	+ 48	+ 86
Winter	+104	+ 93	+ 93	+123	+171	+161	+141	+ 93	+ 43	- 12	- 97	- 56	- 94	-162	-161	-141	-157	-166	- 97	- 50	+ 04	+ 37	+ 20	+109
Equinox	+139	+ 88	+133	+103	+172	+137	+101	+ 22	- 47	-196	-338	-289	-171	-151	-115	- 52	+ 53	+ 22	+ 21	+ 95	+ 82	+ 73	+ 35	+ 80
Summer	+115	+156	+137	+132	+139	+107	+ 11	-157	-257	-345	-340	-296	-246	-171	- 85	+ 18	+ 97	+163	+216	+197	+155	+101	+ 89	+ 68

WEST COMPONENT (Unit 0.1γ)

Jan.	+ 29	+ 26	- 93	+ 49	+106	+ 78	+ 93	+107	+ 90	+138	+ 81	+165	+236	+212	+162	+151	-133	-310	-176	-273	-183	-186	-242	-130
Feb.	- 20	-117	- 17	+ 38	+ 00	+ 57	+ 90	+ 99	+107	+127	+143	+219	+289	+303	+213	+112	-112	-202	-224	-111	-184	-327	-304	-176
March	-165	-248	-339	-186	- 25	+ 27	+112	+100	+ 01	- 39	+141	+242	+414	+438	+433	+343	+158	+ 30	- 08	-134	-393	-217	-310	-374
April	-110	- 74	- 80	- 93	- 62	+ 68	+ 96	- 80	-116	- 91	+ 11	+146	+317	+417	+342	+292	+187	+146	-199	-138	-191	-232	-302	-250
May	-120	-135	-206	-187	- 73	- 45	- 88	-115	-174	-122	+ 27	+155	+266	+295	+290	+288	+237	+217	+136	+ 44	-102	-134	-256	-206
June	-127	-198	-252	-237	-215	-248	-263	-282	-222	-133	+ 04	+144	+265	+346	+359	+386	+343	+250	+188	+110	+ 17	- 25	- 79	-131
July	- 88	-126	+ 03	- 96	- 44	- 50	- 75	-182	-197	-104	- 17	+ 73	+191	+272	+249	+204	+146	+105	+135	- 21	-140	-117	- 78	- 40
August	- 46	+ 03	- 33	- 93	- 45	-110	-129	-189	-153	- 02	+ 87	+208	+369	+437	+458	+285	+211	- 16	-109	-174	-213	-183	-325	-240
Sept.	+ 45	- 62	-142	-202	-189	-146	-161	-189	-197	-118	+ 37	+232	+380	+386	+372	+279	+221	+124	- 90	-141	- 75	-254	-121	+ 11
Oct.	- 96	- 67	- 46	+ 60	- 29	- 39	+ 43	+ 24	- 75	-121	- 16	+123	+249	+337	+332	+293	+266	+132	-103	- 28	-217	-371	-307	-354
Nov.	-232	-120	-234	-149	+ 28	+130	+277	+228	+ 58	+ 89	+ 98	+125	+204	+232	+100	+118	+138	- 27	-246	-198	-210	-220	- 91	-103
Dec.	-114	-161	-121	- 18	+ 45	+ 16	- 02	+ 15	+ 61	+ 90	+112	+185	+216	+240	+174	+130	+ 63	- 84	- 41	-195	-150	-220	-167	- 78
Year	- 87	-107	-130	- 93	- 42	- 22	- 01	- 39	- 68	- 24	+ 59	+168	+283	+326	+290	+240	+144	+ 30	- 61	-105	-170	-207	-215	-173
Winter	- 84	- 93	-116	- 20	+ 45	+ 70	+115	+112	+ 79	+111	+109	+173	+236	+247	+162	+128	- 11	-156	-172	-194	-182	-238	-201	-122
Equinox	- 82	-113	-152	-105	- 76	- 23	+ 23	- 36	- 97	- 92	+ 43	+186	+340	+395	+370	+302	+208	+108	-100	-110	-219	-269	-260	-242
Summer	- 95	-114	-122	-153	- 94	-113	-139	-192	-187	- 90	+ 25	+145	+273	+338	+339	+291	+234	+139	+ 88	- 10	-110	-115	-185	-154

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	-116	-136	-136	-116	-116	-120	- 82	- 78	- 96	- 94	- 80	- 70	- 46	+ 22	+ 74	+122	+236	+304	+224	+172	+128	+ 48	+ 08	- 52
Feb.	- 79	-119	-109	-105	- 83	- 77	- 97	- 87	- 81	- 95	- 75	- 45	- 41	+ 13	+ 83	+185	+227	+235	+183	+159	+ 87	+ 25	- 21	- 75
March	-188	-400	-393	-283	-195	-155	-110	- 75	- 73	- 70	- 85	- 25	+ 35	+117	+177	+250	+320	+407	+392	+327	+195	+ 45	- 35	-180
April	- 25	- 51	- 67	- 83	- 63	-107	-121	-103	-101	-137	-157	-175	-177	- 97	+ 45	+167	+251	+297	+291	+221	+137	+125	- 11	- 55
May	- 03	- 71	- 79	- 91	- 97	-143	-131	-137	-119	-111	-145	-159	- 93	+ 13	+103	+135	+167	+209	+225	+205	+183	+101	+ 33	+ 01
June	- 44	- 70	-110	- 90	- 70	- 48	- 38	- 34	- 68	-114	-142	-174	-120	- 62	+ 36	+ 80	+138	+168	+228	+202	+158	+ 96	+ 52	+ 18
July	- 19	-112	-219	-267	-279	-222	-207	-187	-122	-134	-114	- 77	+ 01	+ 98	+203	+241	+238	+263	+276	+251	+211	+106	+ 41	+ 28
August	-152	-238	-252	-186	-182	-216	-180	-162	-188	-230	-274	-222	-128	+ 32	+332	+460	+500	+548	+434	+336	+184	+ 46	- 82	-168
Sept.	- 91	-174	-131	- 84	- 48	- 44	- 38	- 31	- 71	-101	-148	- 98	- 24	+ 72	+126	+106	+112	+112	+149	+169	+116	+ 76	+ 42	- 01
Oct.	- 91	-101	-107	-143	-143	-133	-105	- 67	- 59	- 65	- 93	- 91	- 49	- 01	+ 33	+ 99	+153	+261	+341	+301	+217	+ 79	- 71	-163
Nov.	-179	-227	-229	-221	-285	-317	-281	-245	-169	-101	- 75	+ 17	+ 85	+177	+273	+291	+307	+299	+307	+235	+179	+125	+ 39	- 03
Dec.	-119	-107	-123	-157	-163	-177	-121	- 89	- 97	- 95	- 91	- 39	- 29	+ 47	+179	+341	+297	+215	+183	+147	+ 91	- 01	- 23	- 63
Year	- 92	-151	-163	-152	-144	-147	-126	-108	-104	-112	-123	- 97	- 49	+ 36	+139	+206	+246	+277	+269	+227	+157	+ 73	- 02	- 59
Winter	-123	-147	-149	-150	-162	-173	-145	-125	-111	- 96	- 80	- 34	- 08	+ 65	+152	+235	+267	+263	+224	+178	+121	+ 49	+ 01	- 48
Equinox	- 99	-182	-175	-148	-112	-110	- 94	- 69	- 76	- 93	-121	- 97	- 54	+ 23	+ 95	+156	+209	+269	+293	+255	+166	+ 81	- 19	-100
Summer	- 55	-123	-165	-159	-157	-157	-139	-131	-124	-147	-169	-158	- 85	+ 20	+169	+229	+261	+297	+291	+249	+184	+ 87	+ 11	- 30

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.

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT							
	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
"All" Days																								
1941.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Jan.	+ 4.2	+ 4.3	- 3.1	- 4.0	+ 1.1	- 1.9	+ 0.3	- 0.8	- 10.2	- 2.5	+ 0.4	+ 3.9	- 1.1	- 2.0	+ 0.6	+ 1.2	+ 0.1	- 6.0	- 3.4	+ 0.2	+ 0.8	+ 0.1	- 0.4	+ 0.2
Feb.	+ 6.7	+ 3.9	- 4.4	- 1.7	+ 2.6	- 1.5	+ 0.7	+ 0.8	- 12.8	- 0.5	+ 2.3	+ 5.4	- 0.6	- 1.0	+ 1.4	+ 1.9	+ 1.0	- 7.8	- 3.0	- 0.7	+ 0.5	- 0.7	- 0.3	- 0.2
March	+ 9.8	- 3.0	- 5.4	- 3.0	+ 0.8	- 2.7	+ 0.5	+ 1.4	- 15.3	- 4.3	+ 5.0	+ 7.8	- 1.7	- 3.6	+ 1.4	+ 2.2	- 0.4	- 9.8	- 7.9	- 0.3	+ 1.2	+ 0.5	+ 0.0	+ 0.4
April	+ 11.9	- 2.2	- 7.1	- 2.1	+ 2.6	- 0.4	+ 0.0	+ 0.2	- 10.7	- 9.8	+ 2.5	+ 11.4	- 2.7	- 4.9	+ 1.9	+ 2.0	+ 4.2	- 6.7	- 7.1	- 0.4	+ 2.7	+ 0.4	- 1.0	+ 0.1
May	+ 12.6	- 4.1	- 7.1	- 1.1	+ 0.9	+ 0.5	+ 0.7	- 0.5	- 9.9	- 16.9	+ 3.6	+ 9.2	- 2.0	- 2.7	+ 1.9	+ 0.4	+ 5.9	- 7.2	- 7.1	- 0.6	+ 1.5	+ 0.2	- 0.7	+ 0.4
June	+ 16.0	- 5.5	- 8.1	+ 0.5	- 1.0	+ 0.1	+ 1.0	- 0.1	- 9.7	- 22.3	+ 3.3	+ 9.5	- 2.1	- 2.5	+ 0.8	+ 0.2	+ 6.8	- 4.9	- 7.0	- 0.8	+ 1.3	- 0.4	- 0.3	+ 0.5
July	+ 15.3	- 7.0	- 8.9	+ 1.4	+ 0.5	- 1.4	+ 1.4	- 0.4	- 8.5	- 18.9	+ 4.1	+ 10.5	- 1.7	- 2.7	+ 0.1	+ 1.2	+ 4.3	- 6.1	- 6.5	- 1.0	+ 2.1	+ 0.5	- 0.4	+ 0.1
August	+ 15.6	- 5.7	- 7.4	+ 2.6	- 0.4	- 1.6	+ 1.0	+ 0.5	- 14.0	- 15.9	+ 8.7	+ 10.6	- 3.2	- 3.9	+ 0.9	+ 0.6	+ 3.3	- 9.1	- 9.2	+ 0.2	+ 2.4	- 0.4	- 0.9	- 0.7
Sept.	+ 16.1	- 3.3	- 5.8	+ 1.1	+ 1.7	- 2.8	+ 0.3	+ 1.2	- 12.6	- 12.9	+ 7.1	+ 10.6	- 2.7	- 3.9	+ 2.8	+ 2.0	+ 2.7	- 5.7	- 6.8	- 0.6	+ 1.8	- 0.7	- 0.8	+ 0.2
Oct.	+ 11.3	+ 2.9	- 6.2	+ 0.8	+ 2.0	- 2.3	+ 0.3	+ 0.6	- 11.4	- 6.9	+ 1.5	+ 10.1	- 2.3	- 2.7	+ 2.6	+ 1.9	+ 2.0	- 5.9	- 4.8	- 0.6	+ 0.9	- 0.2	- 1.2	+ 1.0
Nov.	+ 7.7	+ 2.5	- 5.5	- 0.6	+ 0.5	- 2.0	- 0.1	- 0.7	- 11.1	- 0.3	- 0.9	+ 4.7	- 1.3	- 2.4	+ 2.1	+ 0.6	- 0.9	- 8.4	- 1.8	+ 0.4	+ 0.6	- 0.8	- 0.7	+ 0.2
Dec.	+ 1.2	+ 5.7	- 0.8	- 2.0	+ 0.8	- 1.9	- 0.0	+ 0.3	- 10.5	- 0.7	- 0.7	+ 5.5	- 1.0	- 0.0	+ 0.8	+ 0.3	+ 1.3	- 6.4	- 2.9	+ 0.6	+ 0.4	- 0.4	- 0.5	+ 0.2
Year	+ 10.7	- 1.0	- 5.8	- 0.7	+ 1.1	- 1.5	+ 0.4	+ 0.3	- 11.4	- 9.2	+ 3.1	+ 8.3	- 1.9	- 2.7	+ 1.5	+ 1.2	+ 2.5	- 7.0	- 5.6	- 0.3	+ 1.3	- 0.2	- 0.6	+ 0.2
Winter	+ 5.0	+ 4.1	- 3.5	- 2.1	+ 1.3	- 1.8	+ 0.0	+ 0.3	- 11.2	- 0.5	+ 0.5	+ 4.9	- 1.0	- 1.3	+ 1.2	+ 1.0	+ 0.4	- 7.2	- 2.8	+ 0.1	+ 0.5	- 0.5	- 0.5	+ 0.1
Equinox	+ 12.3	- 1.4	- 6.1	- 0.8	+ 1.8	- 2.1	+ 0.3	+ 0.8	- 12.5	- 8.5	+ 4.1	+ 10.0	- 2.4	- 3.8	+ 2.2	+ 2.0	+ 2.1	- 7.1	- 6.7	- 0.5	+ 1.6	+ 0.0	- 0.7	+ 0.4
Summer	+ 14.9	- 5.6	- 7.8	+ 0.9	+ 0.0	- 0.6	+ 1.0	- 0.1	- 10.5	- 18.5	+ 4.9	+ 10.0	- 2.3	- 2.9	+ 0.9	+ 0.6	+ 5.1	- 6.8	- 7.5	- 0.6	+ 1.8	- 0.0	- 0.6	+ 0.1
INTERNATIONAL QUIET DAYS																								
Year	+ 8.5	- 0.9	- 5.9	- 0.8	+ 1.4	- 0.8	- 0.1	+ 0.5	- 6.5	- 11.0	+ 3.2	+ 6.9	- 2.6	- 2.5	+ 1.0	+ 0.9	+ 4.5	- 1.4	- 4.4	+ 0.0	+ 1.5	- 0.2	- 0.6	+ 0.3
Winter	+ 1.8	+ 2.3	- 4.0	- 1.3	+ 1.0	- 0.6	- 0.4	+ 0.6	- 6.9	- 3.1	+ 0.2	+ 3.2	- 1.8	- 0.5	+ 1.1	+ 0.5	+ 2.0	- 2.3	- 1.7	+ 0.3	+ 0.6	- 0.7	- 0.3	+ 0.4
Equinox	+ 10.5	- 2.6	- 5.7	+ 0.5	+ 2.1	- 2.0	- 0.5	+ 1.1	- 6.5	- 11.0	+ 4.9	+ 7.8	- 3.9	- 4.0	+ 1.8	+ 1.6	+ 4.5	- 1.0	- 4.9	+ 0.4	+ 2.1	- 0.5	- 1.1	+ 0.5
Summer	+ 13.3	- 2.2	- 8.0	- 1.6	+ 1.0	+ 0.2	+ 0.6	- 0.4	- 6.1	- 18.7	+ 4.6	+ 9.6	- 2.2	- 2.9	- 0.0	+ 0.5	+ 7.1	- 1.1	- 6.6	- 0.8	+ 1.9	+ 0.6	- 0.5	- 0.1
INTERNATIONAL DISTURBED DAYS																								
Year	+ 15.3	+ 0.1	- 6.9	+ 2.3	- 0.2	- 2.4	+ 1.1	+ 0.6	- 18.4	- 5.0	+ 2.6	+ 10.1	- 0.2	- 3.9	+ 2.2	+ 1.4	- 2.0	- 20.4	- 7.7	- 0.1	+ 1.4	+ 0.1	- 0.5	+ 0.3
Winter	+ 9.7	+ 11.6	- 1.2	- 1.7	- 0.4	- 2.2	+ 0.8	+ 0.2	- 17.2	+ 8.4	+ 3.3	+ 5.6	+ 0.5	- 4.4	+ 1.0	+ 1.6	- 4.4	- 19.2	- 5.3	+ 1.4	+ 1.4	+ 0.7	- 0.7	- 0.7
Equinox	+ 15.8	- 0.3	- 8.8	+ 2.9	+ 1.8	- 3.6	+ 0.4	+ 1.7	- 22.0	- 7.8	+ 2.0	+ 13.5	+ 0.7	- 5.0	+ 3.4	+ 2.3	- 2.1	- 18.6	- 9.5	- 2.0	+ 0.1	+ 0.2	+ 0.0	+ 0.9
Summer	+ 20.3	- 11.0	- 10.6	+ 5.8	- 1.7	- 1.5	+ 2.0	- 0.0	- 16.1	- 15.5	+ 2.7	+ 11.2	- 1.7	- 2.2	+ 2.1	+ 0.5	+ 0.4	- 23.2	- 8.2	+ 0.3	+ 2.7	- 0.4	- 0.8	+ 0.7

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

Values of c_n, α_n , in the series $\Sigma c_n \sin (nT + \alpha_n)$, 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 local apparent 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.

January	+ 2 19	April	+ 0 4	July	+ 1 22	October	- 3 28	Winter	+ 0 12
February	+ 3 28	May	- 0 51	August	+ 0 59	November	- 3 42	Equinox	- 0 36
March	+ 2 12	June	+ 0 5	September	- 1 12	December	- 1 6	Summer	+ 0 24

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT							
	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
"All" Days																								
1941.	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o
Jan.	6.0	44	5.0	219	2.2	150	0.8	158	10.5	257	3.9	7	2.2	210	1.4	29	6.0	179	3.4	274	0.8	83	0.4	293
Feb.	7.8	60	4.7	249	3.0	122	1.0	45	12.8	268	5.9	24	1.1	211	2.3	38	7.9	173	3.1	258	0.8	146	0.4	236
March	10.3	107	6.1	242	2.8	165	1.4	21	15.9	255	9.2	34	4.0	207	2.7	34	9.8	183	7.9	268	1.3	69	0.4	7
April	12.1	101	7.4	254	2.6	101	0.2	11	14.5	228	11.7	13	5.6	210	2.7	45	7.9	148	7.1	268	2.7	82	1.0	279
May	13.2	108	7.1	262	1.1	65	0.9	124	19.6	211	9.9	22	3.4	218	2.0	80	9.3	141	7.1	266	1.5	85	0.7	301
June	16.9	109	8.1	274	1.0	279	1.0	97	24.4	204	10.0	20	3.2	221	0.9	76	8.4	126	7.0	265	1.4	110	0.6	331
July	16.8	115	9.0	280	1.5	162	1.4	107	20.8	205	11.3	22	3.2	214	1.2	6	7.5	145	6.6	262	2.2	78	0.4	285
August	16.6	110	7.9	290	1.6	195	1.1	67	21.1	222	13.7	40	5.0	220	1.1	57	9.7	161	9.2	272	2.4	100	1.1	232
Sept.	16.4	102	5.9	281	3.3	150	1.3	13	18.0	225	12.8	35	4.7	216	3.4	56	6.3	155	6.9	266	1.9	111	0.9	283
Oct.	11.7	76	6.2	278	3.1	140	0.7	32	13.3	239	10.2	9	3.5	222	3.2	55	6.2	162	4.8	263	0.9	101	1.5	313
Nov.	8.1	72	5.5	265	2.0	166	0.7	190	11.1	269	4.8	349	2.7	209	2.2	77	8.4	187	1.8	284	1.0	148	0.8	290
Dec.	5.8	13	2.2	204	2.1	159	0.3	356	10.5	267	5.5	354	1.0	269	0.8	70	6.6	169	3.0	283	0.6	136	0.6	294
Year	10.8	96	5.8	264	1.8	146	0.5	53	14.6	232	8.9	22	3.3	216	1.9	52	7.4	161	5.6	268	1.3	98	0.6	290
Winter	6.4	51	4.0	240	2.2	144	0.3	12	11.2	268	4.9	6	1.6	217	1.6	53	7.2	177	2.8	274	0.7	131	0.5	283
Equinox	12.4	97	6.2	263	2.7	141	0.9	20	15.1	236	10.8	23	4.5	213	2.9	48	7.4	164	6.7	267	1.6	91	0.9	301
Summer	15.9	111	7.9	277	0.6	179	1.0	98	21.3	210	11.1	27	3.7	219	1.1	59	8.5	144	7.5	267	1.8	92	0.6	278
INTERNATIONAL QUIET DAYS																								
Year	8.5	96	6.0	261	1.6	121	0.5	348	12.7	211	7.6	26	3.6	227	1.3	51	4.7	108	4.4	271	1.5	98	0.7	294
Winter	2.9	39	4.2	253	1.2	121	0.7	325	7.6	246	3.2	4	1.9	254	1.2	69	3.0	139	1.7	282	0.9	138	0.5	327
Equinox	10.8	104	5.7	276	2.9	134	1.2	338	12.8	211	9.2	33	5.5	226	2.5	50	4.6	103	4.9	276	2.2	104	1.2	298
Summer	13.5	100	8.2	260	1.0	78	0.7	123	19.7	198	10.6	26	3.6	218	0.5	0	7.2	99	6.7	264	2.0	75	0.6	258
INTERNATIONAL DISTURBED DAYS																								
Year	15.3	90	7.2	289	2.4	185	1.2	61	19.1	255	10.4	16	3.9	184	2.6	58	20.5	186	7.7	270	1.4	87	0.6	302
Winter	15.1	40	2.1	215	2.3	192	0.9	81	19.1	296	6.4	31	4.4	175	1.8	34	19.7	193	5.4	286	1.6	65	1.0	226
Equinox	15.8	91	9.2	289	4.0	155	1.8	16	23.3	251														

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1941.

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
January	5.73	1.46	17.2	3.64	0.97	14.2	9.76	4.39	50.8	20.1	29.0	15.5	13.4	19.5	7.0	47.5	54.6	44.0
February	7.45	1.30	20.9	4.62	0.76	13.0	12.18	3.41	39.2	22.6	38.1	16.3	16.5	23.4	11.4	42.3	63.0	35.4
March	8.51	1.44	27.8	8.02	1.37	24.2	16.67	5.10	70.8	31.4	43.1	28.9	25.1	42.9	17.8	81.9	83.1	80.7
April	9.54	1.41	29.7	8.84	1.36	27.6	14.02	2.51	43.0	32.6	49.5	28.2	28.9	45.9	22.8	46.5	71.9	47.4
May	9.49	1.36	32.7	9.24	1.23	29.8	11.08	2.38	49.8	34.2	50.4	31.4	31.6	48.4	27.0	45.9	55.1	38.4
June	10.56	2.26	43.7	8.98	1.88	37.2	12.54	3.80	65.6	42.2	56.8	29.2	36.0	48.8	23.4	62.2	66.8	40.2
July	10.05	2.34	43.7	11.74	2.37	41.6	8.20	4.40	83.0	42.9	55.2	27.5	43.6	62.3	26.4	80.0	46.9	55.5
August	11.64	2.12	39.1	11.48	2.22	36.6	14.88	4.41	67.4	40.1	62.4	34.1	36.8	62.0	28.2	71.9	78.3	82.2
September	10.22	2.33	39.1	9.94	2.35	40.4	12.63	2.98	50.7	41.5	55.5	23.6	40.7	54.4	17.8	52.1	64.0	34.3
October	7.90	1.83	29.8	7.30	1.96	33.6	13.48	4.70	49.0	31.5	39.7	19.8	32.7	39.0	14.6	50.6	70.8	50.4
November	6.04	1.64	22.0	3.82	1.14	19.0	10.08	5.95	65.4	24.0	29.8	16.7	21.0	19.0	8.0	70.3	52.3	62.4
December	5.39	1.37	15.3	3.74	0.84	11.6	8.40	2.97	25.8	16.3	28.8	15.0	12.9	20.1	10.8	25.9	46.0	51.8
Year	8.54	1.74	30.1	7.61	1.54	27.4	11.99	3.92	55.0	31.6	44.9	23.9	28.3	40.5	17.9	56.4	62.7	51.9
Winter	6.15	1.44	18.9	3.96	0.93	14.5	10.11	4.18	45.3	20.8	31.4	15.9	16.0	20.5	9.3	46.5	54.0	48.4
Equinox	9.04	1.75	31.6	8.53	1.76	31.5	14.20	3.82	53.4	34.3	47.0	25.1	31.9	45.6	18.3	57.8	72.5	53.2
Summer	10.44	2.02	39.8	10.36	1.93	36.3	11.65	3.75	66.5	39.9	56.2	30.6	37.0	55.4	26.3	65.0	61.8	54.1

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

Month, 1941.	"All" Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
January	+0.01	+0.4	-0.0	+0.06	+4.6	-2.0	-0.98	+1.2	-2.2
February	-0.10	+0.5	-0.1	+0.12	+0.4	-0.4	+0.14	-3.4	-3.4
March	-0.03	-1.1	+0.9	+1.06	+2.4	+4.8	+1.20	-7.5	+1.8
April	+0.02	+0.4	-0.4	+0.56	+3.4	+1.4	-1.50	-3.6	-4.0
May	-0.05	+0.6	-0.1	+0.34	+6.8	-1.6	-1.00	-7.8	-0.8
June	-0.01	+0.8	-0.4	+0.08	+1.6	-0.8	-0.34	-5.8	+2.0
July	-0.06	-0.8	+0.5	+0.02	+4.4	-2.4	+0.08	-1.8	-1.8
August	+0.01	-0.2	+0.2	-0.32	+5.4	-1.0	-0.06	-24.0	-14.0
September	-0.03	+2.1	-0.6	+0.12	+5.4	-1.4	+0.53	+5.3	+5.7
October	-0.58	-2.2	-1.2	-0.94	+3.0	-3.8	-3.60	-20.8	-8.2
November	+0.53	+1.9	+1.6	+0.66	+4.2	+0.6	+1.32	-0.6	+10.0
December	+0.02	+0.5	-0.5	+0.26	+6.6	-2.6	+0.40	+0.8	+0.6
Year 1941	..	..	..	+0.17	+4.0	-0.8	-0.32	-5.7	-1.2

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

Month, 1941.	Declination West	Inclination	Intensity				
			Horizontal	North	West	Vertical	Total
January	10 38.6	66 43.7	.18541	.18222	.03424	.43112	.46930
February	10 37.6	66 43.9	.18540	.18222	.03419	.43115	.46932
March	10 36.0	66 45.3	.18524	.18208	.03408	.43127	.46937
April	10 35.6	66 44.3	.18538	.18222	.03408	.43123	.46939
May	10 35.0	66 43.3	.18550	.18234	.03407	.43118	.46939
June	10 34.3	66 43.2	.18552	.18237	.03404	.43118	.46940
July	10 33.2	66 44.4	.18539	.18225	.03395	.43130	.46946
August	10 32.7	66 44.3	.18541	.18228	.03393	.43131	.46947
September	10 31.8	66 44.8	.18535	.18223	.03387	.43135	.46949
October	10 31.2	66 44.9	.18537	.18225	.03384	.43141	.46955
November	10 30.2	66 45.3	.18533	.18222	.03378	.43147	.46958
December	10 29.9	66 44.5	.18543	.18233	.03379	.43143	.46959
Year 1941	10 33.8	66 44.3	.18539	.18225	.03399	.43128	.46944

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	
	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'
1	10	22.5	10	21.9	10	22.1	10	22.3*	10	22.0	10	4.1	10	6.4	10	6.4*	10	6.4	10	6.5	10	6.9	10	6.5
2		22.5		21.6		22.1		22.2		22.0		3.9		6.4		6.5		6.5		6.3		6.8		6.5
3		22.5		22.5*		22.1		22.0		21.9		4.8*		6.3		6.5		6.7		5.9		6.7		6.5
4		22.4		22.5		22.1		21.8		21.7		4.8		6.3		6.5		6.6		6.8*		6.6		6.5
5		22.4		22.4		22.1		21.5		21.7		4.8		6.4		6.5		6.6		6.8		6.0		6.4
6		22.4		22.3		22.1		21.5		21.5		4.8		6.4		6.5		6.6		6.6		5.8		6.8*
7		22.4		22.3		22.1		22.3*		22.1*		4.7		6.3		6.5		6.3		6.6		6.8*		6.7
8		22.4		22.3		22.1		22.2		22.1		4.3		6.3		6.6		6.6		6.2		6.9		6.7
9		22.4		22.3		22.1		22.1		22.1		3.9		6.3		6.6		6.7		6.3		6.5		6.6
10		22.3		22.3		22.1		22.1		22.1		4.8*		6.4		6.6		6.5		6.4		6.6		6.6
11		22.3		22.3		22.1		22.1		22.1		6.0		6.3		6.6		5.8		6.4		6.2		6.4
12		22.2		22.2		22.0		21.9		22.1		6.1		6.1		6.6		6.6*		6.3		5.8		6.6*
13		21.9		21.9		21.6		22.0		22.1		6.0		5.9		6.5		6.6		6.4		6.6*		6.6
14		22.4*		21.3		22.4*		21.9		22.1		4.7		6.4*		6.2		6.5		6.8*		6.6		6.5
15		22.4		22.4*		22.4		21.9		4.7		6.0		6.4		6.7*		6.6		6.9		6.6		6.5
16		22.3		22.3		-		21.8		4.7		5.9		6.3		6.6		6.6		6.8		6.5		6.4
17		22.4		22.3		22.2		22.0		4.7		6.0		6.4		6.5		6.1		6.8		6.5		7.0*
18		22.4		22.2		22.2		22.0		4.7		6.0		6.4		5.9		6.4		6.7		6.7*		7.0
19		22.3		22.1		22.2		22.0		4.6		5.9		6.4		6.6*		6.9*		6.1		6.7		6.7
20		22.3		22.1		22.2		22.0		4.2		6.0		6.4		6.6		6.9		6.9*		6.6		6.9
21		22.3		22.1		22.2		21.9		4.9*		5.9		6.4		5.8		6.8		6.8		6.5		6.8
22		22.3		22.1		22.2		21.9		4.8		6.2		6.4		6.8*		6.9		6.8		6.4		6.6
23		22.3		21.9		21.9		21.9		4.8		6.4		6.4		6.7		6.9		6.8		6.7*		6.2
24		22.3		22.2*		21.6		21.9		4.7		6.3		6.4		6.6		6.9		6.8		6.7		6.9*
25		22.3		22.3		22.3*		21.9		4.6		6.4		6.4		5.9		6.7		6.8		6.6		6.9
26		22.3		22.0		22.2		21.8		4.4		6.4		6.3		5.8		6.5		6.8		6.5		6.8
27		22.3		22.1		22.0		21.4		4.4		6.6		6.4		6.7*		6.0		6.9		6.5		6.8
28		22.3		22.1		22.0		21.2		4.9*		6.5		6.4		6.7		5.8		6.8		6.5		6.7
29		22.3				22.0		21.2		4.7		6.5		6.5		6.6		6.7*		6.7		6.4		6.7
30		22.3				22.0		22.1*		4.7		6.4		6.5		6.6		6.6		6.1		6.1		6.9*
31		22.3				21.9				4.6				6.1		6.5				7.0*				6.9

May 14. Variometer suspension reversed lengthwise.

June 10. " " changed.

* The sudden increase of Declination Base-line value on the days marked * (each following a slower decrease) was investigated and eventually traced to the Fire Alarm circuit in the Recording Room. The small current flowing continuously in this circuit was assumed to be constant but actually varied with the drop in battery voltage followed by a sharp rise when battery was recharged. From 1942 January 1, this circuit was disconnected pending the installation of a newer Fire Alarm system with which no current flows until alarm operates.

The deduced values of the declination are unaffected by these changes.

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	h	m	Y	Y	h	m	h	m	Y	Y
Mar.	25	9 29	- 10 57	18525	18357	July	22	8 33	- 9 51	18523	18352
							29	8 17	- 9 39	18551	18350
May	13	8 28	- 9 54	18525	18346	Aug.	12	9 4	- 10 21	18521	18344
June	17	8 39	- 9 57	18536	18348		19	9 11	- 10 32	18535	18348
July	1	8 30	- 9 51	18539	18348		26	9 19	- 10 43	18528	18353
	8	8 29	- 9 47	18491	18355	Sept.	2	9 18	- 10 35	18521	18341
	15	8 33	- 9 56	18533	18350		9	9 12	- 10 9	18522	18345
Sept.	23	9 7	- 10 4	18494	18345	Oct.	7	9 12	- 10 7	18524	18340
	30	9 14	- 10 7	18522	18343		14	9 23	- 10 36	18520	18341
							21	9 5	- 10 3	18513	18343
							28	9 7	- 10 2	18542	18344
						Nov.	18	9 18	- 10 18	18492	18342

TABLE XV. - RESULTS OF THE DETERMINATIONS OF THE ABSOLUTE VALUE OF VERTICAL INTENSITY FROM OBSERVATIONS MADE WITH THE DYE COIL MAGNETOMETER IN THE MAGNETIC PAVILION AT ABINGER, WITH THE DEDUCED VALUES OF THE BASE-LINE OF THE VERTICAL INTENSITY MAGNETOGRAMS

Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base Line	Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base Line	Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base Line															
h	m	h	m	Y	Y	h	m	h	m	Y	Y	h	m	h	m	Y	Y												
July	28	8	47	-	9	12	8	43123	42985	Sept.	17	9	41	-	10	30	8	43116	42990	Nov.	7	9	41	-	9	59	8	43144	42992
	29	8	59	-	9	20	8	43122	42987		19	9	43	-	9	58	3	43134	42989		8	9	33	-	11	11	8	43138	42989
	30	8	43	-	9	5	8	43118	42989		20	9	44	-	10	41	8	43157	42993		10	0	53	-	1	34	8	43140	42992
	31	8	6	-	8	40	8	43132	42988		22	0	50	-	1	21	8	43155	42989		11	9	38	-	10	0	4	43149	42993
Aug.	1	8	39	-	9	0	8	43128	42988		23	9	18	-	9	39	8	43145	42990		12	9	15	-	9	42	8	43145	42985
	2	8	55	-	9	20	8	43116	42988		24	9	31	-	9	53	8	43137	42991		13	9	24	-	9	56	8	43147	42989
	5	8	18	-	8	40	8	43139	42988		25	9	29	-	9	50	8	43142	42992		14	9	16	-	9	35	8	43144	42991
	6	7	42	-	8	9	8	43124	42988		26	9	31	-	9	48	8	43142	42988		15	9	25	-	9	49	8	43141	42990
	7	8	50	-	9	15	8	43118	42988		27	9	33	-	9	53	8	43142	42988		17	0	45	-	1	22	8	45147	42993
	8	8	43	-	9	3	8	43132	42988		29	0	56	-	1	21	8	43142	42989		18	9	18	-	9	58	8	43142	42989
	9	8	54	-	9	23	8	43126	42990		30	9	21	-	9	54	8	43137	42991		19	9	28	-	9	55	8	45140	42992
	11	9	17	-	9	35	8	43125	42987												20	9	22	-	9	55	8	43139	42988
	12	9	17	-	9	54	8	43119	42987	Oct.	1	9	27	-	9	50	8	43139	42989		21	9	29	-	9	55	8	43144	42992
	13	9	29	-	9	49	8	43121	42989		2	9	14	-	9	37	8	43136	42989		22	9	27	-	9	54	8	43133	42991
	14	9	35	-	10	10	8	43119	42985		3	9	30	-	9	49	8	43136	42988		23	0	53	-	1	40	8	43147	42992
	15	9	31	-	9	49	8	43123	42988		4	9	30	-	9	59	8	43131	42986		24	9	29	-	10	3	8	43136	42991
	16	9	33	-	9	54	8	43122	42990		6	0	56	-	1	34	8	43140	42989		25	9	29	-	10	3	8	43136	42991
	18	9	18	-	9	42	8	43120	42985		7	9	9	-	9	48	8	43135	42991		26	9	41	-	10	10	8	43137	42991
	19	9	23	-	9	50	8	43117	42986		8	9	36	-	9	54	8	43134	42990		27	11	22	-	11	45	8	43136	42992
	20	9	29	-	9	53	8	43127	42989		9	9	31	-	9	54	8	43135	42989		28	9	28	-	9	58	8	43133	42991
	21	9	39	-	9	54	8	43111	42987		10	9	35	-	9	52	8	43127	42991		29	9	18	-	9	44	6	43141	42986
	22	9	23	-	9	52	8	43125	42989		11	9	34	-	9	58	8	43129	42991	Dec.	1	0	59	-	1	34	8	43155	42991
	23	9	28	-	9	50	8	43120	42988		13	1	3	-	1	41	8	43129	42987		2	9	31	-	9	58	8	43144	42990
	25	9	24	-	9	50	8	43119	42988		14	9	43	-	10	39	8	43133	42992		3	9	13	-	9	47	8	43151	42993
	26	9	30	-	10	18	8	43118	42988		15	9	35	-	9	57	8	43139	42991		4	9	19	-	9	46	8	43130	42987
	27	8	29	-	8	48	8	43123	42989		16	9	31	-	9	52	8	43149	42994		5	9	22	-	9	46	8	43139	42990
	28	9	30	-	9	54	8	43126	42988		17	9	34	-	9	52	8	43136	42992		6	9	21	-	9	58	8	43148	42992
	29	9	23	-	9	48	8	43128	42989		18	9	32	-	9	55	8	43141	42989		8	1	20	-	1	43	8	43142	42991
	30	9	25	-	9	49	8	43133	42987		20	0	56	-	1	22	8	43144	42987		9	9	25	-	9	48	8	43141	42994
Sept.	1	8	41	-	9	3	8	43126	42988		21	9	21	-	9	54	8	43144	42994		10	9	26	-	9	52	8	43141	42991
	2	9	7	-	9	33	8	43125	42988		22	9	22	-	9	48	8	43138	42993		11	9	27	-	9	53	8	43143	42993
	3	9	33	-	9	47	8	43117	42985		23	9	34	-	9	54	8	43141	42990		12	9	21	-	9	42	8	43137	42991
	4	9	34	-	9	54	8	43126	42989		24	9	31	-	9	56	8	43136	42991		13	9	32	-	9	56	8	43136	42992
	5	9	28	-	9	47	8	43116	42988		25	9	29	-	9	54	8	43134	42992		14	9	32	-	9	56	8	43136	42992
	6	9	35	-	9	57	8	43123	42988		27	1	0	-	1	32	8	43140	42991		15	1	2	-	1	31	8	43145	42992
	8	1	2	-	1	36	8	43128	42989		28	8	41	-	9	23	8	43133	42987		16	9	33	-	9	57	8	43141	42990
	9	9	24	-	9	56	8	43121	42988		29	9	28	-	9	51	8	43135	42990		17	9	34	-	9	56	8	43131	42993
	10	8	44	-	9	14	8	43119	42988		30	9	28	-	9	59	8	43130	42989		18	9	34	-	9	54	8	43131	42990
	11	9	10	-	9	52	8	43120	42988		31	9	42	-	10	1	8	43126	42992		19	9	27	-	9	55	8	43137	42991
	12	9	26	-	9	58	8	43121	42992	Nov.	1	9	38	-	9	57	8	43141	42989		20	9	43	-	10	50	8	43134	42994
	13	9	32	-	9	53	8	43110	42990		3	0	38	-	1	21	8	43147	42991		21	0	52	-	1	35	8	43131	42991
	15	1	12	-	1	54	8	43103	42987		4	9	13	-	9	47	8	43149	42990		22	9	19	-	9	40	8	43130	42990
	16	9	45	-	10	1	8	43126	42989		5	9	34	-	9	58	8	43139	42990		23	9	22	-	9	49	8	43135	42991
											6	9	38	-	10	0	8	43140	42991		24	9	22	-	9	49	8	43135	42991
																					26	9	27	-	9	51	8	43132	42992
																					27	9	24	-	9	54	8	43133	42991
																					29	0	57	-	1	34	8	43144	42994
																					30	9	39	-	10	10	8	43144	42992
																					31	9	27	-	9	57	8	43136	42992

MAGNETIC OBSERVATIONS, ABINGER 1941.

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	42998	42998	43005	43004	43008	-	42991	42991	42992	42995	42995	42997
2	-	-	-	004	007	-	991	989	988	991	-	997
3	43001	42999	003	003	005	3004	992	-	990	988	995	995
4	42999	43003	005	006	-	007	992	-	993	990	994	992
5	-	001	002	008	004	004	-	988	992	-	995	994
6	42999	000	007	-	006	003	-	985	993	993	997	992
7	42998	002	004	006	007	008	993	987	-	991	995	-
8	43004	001	007	005	006	-	992	991	992	989	996	995
9	43006	-	-	002	007	005	992	986	990	989	-	991
10	43002	004	008	006	005	-	989	-	991	994	993	989
11	43002	004	004	-	-	004	989	994	990	993	993	995
12	-	004	001	006	004	007	990	993	990	-	991	992
13	42998	005	005	-	003	007	-	993	990	989	42995	994
14	42999	001	010	-	-	004	990	990	-	991	43001	-
15	-	006	008	005	003	-	990 992	994	992	993	42997	994
16	43000	-	-	002	003	007	985	989	990	990	-	997
17	43001	001	008	003	003	013	985	-	990	995	997	998
18	42999	003	008	004	-	014	986	987	-	992	994	995
19	-	003	004	004	005	-	985	993	-	-	997	42994
20	43002	003	004	-	003	42993	-	990	989	992	995	43000
21	43003	001	005	005	003	994	983	986	-	991	995	-
22	43001	004	006	003	002	-	985	989	992	991	996	42995
23	43000	-	-	001	006	995	988	990	990	992	-	997
24	42999	003	004	002	005	993	986	-	996	995	996	995
25	43002	002	005	004	-	996	986	990	992	992	992	-
26	-	004	005	004	006	997	986	991	995	-	999	995
27	43002	004	005	-	007	996	-	997	988	992	-	996
28	43003	005	003	004	005	998	985	991	-	994	996	-
29	43002		005	003	007	-	984	991	991	991	996	997
30	43000		-	004	004	997	985	991	991	992		997
31	43003		005		006		981			994		995

June 16, 19, 30. Adjustments made to Variometer.

July 16. Inductor bearings tightened.

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 Declinations 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.

MAGNETIC OBSERVATIONS, ABINGER 1941.

TABLE XVI(B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS DETERMINED AT THE ABINGER MAGNETIC STATION,
FOR THE YEARS 1925-1941.

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	0.18555	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
1940	10 43.0	0.18533	0.43099	66 43.9
1941	10 33.8	0.18539	0.43128	66 44.3

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 Coll-magnetometers.

NOTES ON MAGNETIC ACTIVITY

D 45

January. - There was a slight disturbance on 1st from 13^h, with movements up to 12' in D, 50γ in H and enhanced diurnal range in Z. With the exception of an isolated wave in D (-10') at 3^d 23½^h, the traces were practically steady from 2nd to 5th. Short periods of irregularity then appeared at intervals, of which the principal were 6^d 0^h to 12^h, 7^d 16^h to 19^h, 9^d 12^h to 10^d 3^h. The conditions gradually developed into general unsteadiness, but from 13^d 0^h there was a return to the earlier state and little departure from smoothness occurred until 16^d 15^h. At 16^d 21^h brisk disturbance began to develop which reached maximum intensity towards the end of 17th but persisted, in diminishing amount, until 20^d 6^h. The principal changes were at 17^d 1^h (100γ in H; 20' in D); at 17^d 17^h (-100γ in H; -25' in D; +60γ in Z); and at 18^d 19^h (-22' in D). A quiet spell prevailed from 21^d 6^h to 22^d 18^h and then a further period of disturbance began. Development was gradual, movements seldom reaching 50γ in H or 10' in D until 24^d 12^h. During the latter half of 24th larger movements occurred, but none exceeded 100γ. The disturbance declined during 25th and its character changed. Many small rapid oscillations were to be seen in the traces, accompanied by great general unsteadiness. During 27th the unsteadiness itself took an oscillatory appearance, and a series of nearly regular waves followed in all traces. After 29^d 6^h the fluctuations rapidly died away and though there was a small revival between 30^d 11^h and 31^d 4^h quiet conditions prevailed generally.

The range in declination during the month was from 10° 14'.9 on 18th to 10° 50'.4 on 24th; in horizontal intensity, from .18434 on 17th to .18615 on 18th; in vertical intensity, from .43078 to .43176 both on 17th.

February. - Conditions were quiet until 2^d 18^h. Considerable general unsteadiness then set in which lasted in varying degree almost to the end of the month. Indeed, the 27th was the only other really quiet day. Days of least disturbance were 4th, 10th, 11th, 12th, 18th and 19th. During the earlier part of the month movements seldom exceeded 50γ in H, but between 13^d 11^h and 14^d 4^h a state of minor disturbance was reached and a range of 20' occurred in D. A second period of marked activity lasted from 21^d 12^h to 26^d 0^h. In this period more than one sharp movement in H exceeded 100γ, and a specially prominent wave appeared in all traces at 22^d 16^h, that in D being -24'. Conspicuous movements in D were also shown at 23^d 18^h and 24^d 16^h, the first of which just amounted to -20'. At 28^d 9^h 29^m there was a sudden "kick" in the H trace (-35γ) accompanied by movements of lesser amount in the other elements, and although the traces remained undisturbed for the next eighteen hours it is possible that this movement was connected with the intense storm which began early on March 1.

The range in declination during the month was from 10° 15'.5 on 23rd to 10° 49'.4 on 13th; in horizontal intensity, from .18458 on 22nd to .18602 on 16th; in vertical intensity, from .43085 on 14th to .43164 on 22nd.

March.-The first day of the month was notable for one of the most intense magnetic storms of recent years. The storm began with a typical sudden movement in all traces at 1^d 3^h 58^m, the abrupt change in D amounting to 13' westwards. After a temporary increase of about 100γ in H a rapid decrease of more than 250γ took place between 5^h 40^m and 6^h 50^m. The horizontal intensity then fluctuated by amounts not much less than 200γ until 14^h. From 14^h the storm quickly rose to a climax, which extended approximately to 19^h. During this period the changes were in general so violent that very little record was left on the photographic sheet. This was particularly the case with the vertical component of intensity. By means of the two auxiliary magnetographs - the "quick-run" and the "wide-range" - it has been possible to establish the *ranges* of the elements with tolerable confidence. These amounted to 186'.1 in D, 1650γ in H and 1300+ in Z. (Plates I, II and III). The storm was virtually over by 2^d 2^h, but disturbance on a moderate scale continued for several days. Some of the more prominent movements are mentioned:- two waves in H (+75γ) at 2^d 19½^h and 2^d 21½^h; three waves in D (-15') at 3^d 15½^h, 3^d 17^h, and 3^d 18½^h; a sharp wave in H (+80γ) at 3^d 17½^h; a broad bay in H (-80γ) at 4^d 9½^h and at 4^d 14½^h; a steep wave in H (+120γ) at 4^d 21½^h and another (+100γ) at 5^d 18^h; a series of four irregular waves in H (+70γ) between 7^d 19½^h and 8^d 3½^h; a wave in H (+90γ) at 8^d 20½^h. On each day in

this period there was marked unsteadiness in Z with enhanced diurnal range. From 10^d 6^h quieter conditions prevailed although a short active interval occurred at 11^d 19^h to 24^h. Renewed disturbance began at 13^d 15^h. The movements, at first irregular, succeeded one another with increasing rapidity after midnight when both H and Z began to decrease, H by 100γ, Z by 80γ, while D diminished 15'. There was a fluctuating recovery in each element during the next three hours, but at 14^d 9^h H began to suffer a further decrease (130γ). This again was recovered by 14^h and then a series of nearly regular waves appeared in all traces until 18^h after which several large irregular changes were shown - one of -20' in D at 18½^h and one of 100γ in H at 23^h. Many very rapid minor oscillations were superposed on these movements. From 15^d 0^h conditions were relatively quiet and, with the exception of a short moderately active period between 15^d 18^h and 16^d 2^h, so remained until 18^d 21^h. Two brisk movements in H between 18^d 21^h and 24^h were followed after an interval by another lengthy period of disturbance, which began at 19^d 11^h and continued with little intermission until 24^d 0^h. Movements approximating to 100γ in H occurred at 19^d 12^h, 20^d 16½^h, 21^d 18½^h (+150γ), 21^d 19½^h, 22^d 18^h, 22^d 19^h, 23^d 21½^h; with similar movements in D, at 20^d 0^h (+14'), 20^d 15½^h (-15'), 21^d 18½^h (-20'), 22^d 3^h (-15'), 22^d 17½^h and 18½^h (-20'), 23^d 21^h (-15'). The period from 24^d 0^h to 28^d 0^h was almost quiet. Then began the third disturbed period of the month, which (leaving out of account the exceptional occurrence of March 1) was much the most active of the three. Movements exceeding 100γ in H were frequent on 28th and 29th as also were movements exceeding 15' in D. Much irregularity together with markedly increased diurnal range was shown in Z. A temporary climax was reached between 19^h and 23^h on 29th; but the next day saw the disturbance increase to the dimensions of a storm. The beginning probably occurred at 30^d 16^h 37^m when a characteristic sudden "kick" appeared in all traces, the traces being at the time already much affected by general disturbance. Large movements speedily followed, in particular a change of -230γ in H between 21^h 55^m and 22^h 4^m accompanied by a sharp wave in D (+38') and a similar wave in Z (-90γ). (Plate III). The storm subsided rather quickly after 31^d 6^h, but one further large change in H, isolated from the rest, occurred between 31^d 11½^h and 13^h (+190γ) and seemed to restore the component to its normal value.

The range in declination during the month was from 9° 38'.3 to 12° 44'.4; in horizontal intensity, from .18250 to .19900; in vertical intensity from .42571 (or less) to .43883. All these ranges occurred during the great storm of March 1.

April. - There was considerable unsteadiness in the elements during the first week, although 4^d and 5^d were nearly quiet. A specially prominent wave occurred on the H trace at 7^d 23^h (+90γ). General unsteadiness continued, with increasing ranges, after 9th, and on 10th there was a wave in D (-20') at 22^h. From 12^d 8^h, irregularities greatly diminished, the period between 13^d 3^h and 15^d 12^h being practically quiet. Occasional slight disturbance was indicated between 15th and 18th, but, on the whole, conditions remained quiet until 18^d 21^h, when the first of several prominent waves occurred. The movement in D was -20'; that in H was -70γ. Further movements were shown at 19^d 5^h to 8^h which included a temporary increase in D (15') and a decrease in H (120γ). Continuous fluctuation followed, lasting until 21^d 6^h. A practically quiet period then set in which was maintained until the beginning of the most considerable disturbance of the month at 24^d 7^h. The first feature of this disturbance was a sharp oscillatory decrease in H (130γ). The value recovered, however, by 24^d 13^h and then fluctuated irregularly through a range of about 100γ until 25^d 2^h. Z increased 100γ between 24^d 13^h and 17^h; it then steadily declined to its normal value, which was reached at 25^d 1½^h. D increased irregularly (22') between 24^d 8^h and 24^d 14^h and then, at 17^h, rapidly decreased 28'. The decrease was followed by vigorous fluctuation within a range of 10' until the main disturbance ended at about 25^d 3^h. There was much unsteadiness in all three elements during the next 24 hours, before a relatively quiet period ensued. This was interrupted at 28^d 15^h by a brief period of moderate activity comprising movements up to 15' in D and lasting till 29^d 6^h.

The range in declination during the month was from 10° 15'.4 on 18th to 10° 53'.0 on 24th; in horizontal intensity, from .18440 on 24th to .18610 on 7th; in vertical intensity, from .43085 on 19th to .43203 on 24th.

May. - There was considerable unsteadiness in H on 1st and, to a much smaller extent, on 2nd and 3rd. A definitely oscillatory character was apparent on the latter two days. Beginning with a rather abrupt movement in all traces at 4^d 3^h 5^m there was a short period of minor activity which lasted till 4^d 18^h. The largest movement was a wave in H (-60γ) at 4^d 6^h. There were also periods of marked unsteadiness from 8^d 10^h to 9^d 8^h, from 9^d 18^h to 11^d 3^h, from 12^d 12^h to 13^d 18^h, from 14^d 12^h to 15^d 3^h and from 15^d 12^h to 17^d 0^h. The individual movements, however, seldom exceeded about 30γ in H or 5' in D until 16th. Larger movements occurred on 17th, when, between 17^d 4^h and 5^h, D increased 10' and Z decreased 30γ. A return to normal values for these elements took place at about 15^h on the same day. Relative quietness prevailed from 19^d 4^h to 21^d 10^h, though short periods of unsteadiness occurred during the night 20^d-21^d. At 21^d 11^h signs of coming disturbance appeared on the traces. Brisk activity quickly developed which lasted till the early hours of 25th. The ranges were quite moderate, however, the largest movement in D being -17' (at 21^d 22^h), while the largest in H just reached +100γ (at 21^d 19^h). There was a fluctuating decrease of 50γ in Z between 21^d 23^h and 22^d 3^h. A prominent wave in each trace at 22^d 20^h was followed by a temporary decrease in activity; but from about 23^d 10^h disturbance was again apparent, this time in the form of a nearly regular train of waves in H accompanied by irregular movements in D. During 24th the amplitude of the waves rapidly diminished and by 25^d 6^h disturbance had become reduced to a general unsteadiness in which isolated movement of about 25γ in H or 5' in D occasionally appeared. This condition prevailed during the remainder of the month with the exception that between 30^d 14^h 20^m and 31^d 3^h the movements in H were remarkably numerous and abrupt.

The range in declination during the month was from 10° 17'.9 on 22nd to 10° 46'.2 on 17th; in horizontal intensity, from .18479 on 17th to .18627 on 22nd; in vertical intensity, from .43065 on 22nd to .43156 on 24th.

June. - Apart from occasional slight unsteadiness the traces showed that conditions during the first eight days were magnetically quiet. At 9^d 9^h 11^m a small abrupt movement occurred in all traces and was followed by considerable fluctuation in H. At 10^d 13^h 16^m a large movement of the "sudden commencement" type in H was recorded, 130γ in extent, accompanied by relatively small movements in D and Z. This was succeeded by four or five sharp oscillatory changes in H extending over nearly four hours, but none of these was as great as the initial movement. (Plate III). Short irregular spells of disturbance followed - the first, from 10^d 0^h to 1^h; a second from 10^d 15^h to 20^h; a third from 12^d 13^h to 21^h - in which, however, no changes much over 50γ were recorded. A further period of continuous mild disturbance began with a small abrupt jump in all traces at 13^d 3^h 42^m. For the first eight hours the chief feature was a more or less steady decrease in H. Then followed a period of marked oscillation lasting till 14^d 4^h. Few of the waves reached 50γ in H or 10' in D but the oscillation was accompanied by a pronounced decrease in Z, which declined 90γ in the period between 13^d 19^h and 14^d 2^h. During 14th activity died away considerably, though many small fluctuations, chiefly in H, were shown on 15th. The period from 16^d 0^h to 17^d 12^h was quiet. Then followed a period of mild general disturbance, lasting until 23^d 0^h, during which occasional prominent movements appeared. Such were: a double wave in H (±60γ) at 17^d 18^h 50^m with small accompanying movements in D and Z; a rapid increase in D (10') between 18^d 2^h 15^m and 2^h 45^m; a bay in H (-70γ) at 20^d 6^h with a temporary increase in D (10'). During the latter half of 20th the regularity of oscillation was a feature of the disturbance. A short nearly quiet interval from 23^d 0^h to 24^d 12^h was followed by renewed unsteadiness in the traces, a period between 26^d 18^h and 27^d 4^h being remarkable for the number of small irregular changes in H and Z. The 30th was practically quiet.

The range in declination during the month was from 10° 17'.9 on 14th to 10° 52'.2 on 10th; in horizontal intensity, from .18461 on 15th to .18636 on 11th; in vertical intensity, from .43064 on 14th to .43163 on 13th.

July. - The first notable occurrence of the month was a small abrupt movement in all traces at 3^d 12^h 17^m. It was followed by six hours of considerable unsteadiness but no true disturbance developed. A second and larger abrupt movement occurred at 4^d 3^h 42^m (Plate III) with similar after effect; but in this case the subsidence of unsteadiness was succeeded after a few hours by the rapid development of disturbed conditions. Prominent movements were shown at 4^d 21^h (-15' in D) and at 5^d 1^h (a bay in H, -85γ). Between 5^d 2^h and 3^h D decreased 25', while between 5^d 0^h and 6^h Z declined and recovered 85γ. At 5^d 6^h 10^m conditions became strongly disturbed and a great storm at once developed, the full intensity of which was maintained until 5^d 16^h. The extreme ranges during the storm were 1° 18' in D, 946γ in H and 746γ in Z. (Plates IV and V). A short period of quiescence ensued lasting from 6^d 0^h to 11^h. A secondary storm then began which, though not comparable in intensity with that of the previous day, nevertheless comprised a range of about 200γ in H and also in Z. The latter range was produced by a general decline between 6^d 15^h and 7^d 4^h. Conditions remained extremely unsteady until 11^d 0^h, although disturbance was in general confined to the second half of each day. Particularly disturbed periods from 15^h to 19^h on 7th (when some very abrupt changes in intensity were recorded on the traces); from 9^d 12^h to 10^d 3^h (many small changes in H); 10^d 12^h to 24^h (enhanced diurnal inequality in D and Z). From 11^d 0^h to 16^d 0^h conditions were nearly quiet, apart from short periods of unsteadiness which appeared at intervals. From 16^d 12^h unsteadiness became more general, particularly on 16th and 17th, and at 16^d 15^h there was a fluctuation of 60γ in H. On 20th, after 12^h, many small fluctuations occurred in H. These continued throughout the next day while, in addition, a temporary decrease of 150γ took place between 21^d 7^h and 12^h. There were also prominent changes in D ranging through about 25' during the same interval. Similar conditions prevailed in less degree until the end of 25th. Then a quiet period began which lasted, with a few unimportant interruptions, until 29^d 12^h. For the remainder of the month moderate unsteadiness was shown in all traces.

The range in declination during the month was from 9° 42'.2 to 10° 59'.9; in horizontal intensity, from .17962 to .18908; in vertical intensity, from .42941 to .43687, all on 5th.

August. - Moderate disturbance was apparent in the traces early on 2nd and lasted throughout the day. Between 2^d 3^h and 7^h there was a decrease in 100γ in H, followed by a series of six oscillations, the largest of which had an amplitude of 90γ. There was also a wave in D (+15') at 2^d 2^h, while the diurnal range in Z was increased to 90γ. Slight unsteadiness continued during 3^d until 22^h. On the next day occurred the only real storm in the month. This began with extreme suddenness at 4^d 1^h 28.4^m with an increase of 85γ in H accompanied by smaller changes in the other elements. The full development of the storm was delayed until 4^d 13^h and it rapidly subsided after 5^d 2^h. A feature was the relatively large range in Z, which increased 210γ between 10^h and 14^h and subsequently diminished again between 4^d 17^h and 5^d 1^h by 230γ. The whole ranges were 41'.8 in D, 203γ in H and 239γ in Z. (Plate V). For several succeeding days general unsteadiness prevailed. This died out during 8^d and a quiet period set in which lasted practically without interruption, until 18^d 12^h. Then small irregularities occurred at frequent intervals until 22^d 0^h after which nearly quiet conditions returned. From 23^d 22^h unsteadiness gradually increased. There was a prominent wave in D (+14') at 26^d 1^h and from 26^d 14^h moderate general disturbance was in progress until 30^d 6^h. The disturbance was mainly oscillatory in character, there being in addition a much enlarged daily range in Z. On 27th the range was 130γ; and on the same day a range of 181γ occurred in H and a range of 34'.7 in D. The disturbance abated temporarily between 28^d 14^h and 29^d 8^h and degenerated to a state of mild unsteadiness during 30th and 31st.

The range in declination during the month was from 10° 10'.6 on 27th to 10° 58'.7 on 4th; in horizontal intensity, from .18402 on 27th to .18636 on 4th; in vertical intensity, from .43058 on 5th and 27th to .43304 on 4th.

September. - After slight activity on the first two days the traces showed quiet conditions prevailing until 7th. At 7^d 4^h 40^m there was a small abrupt movement in all traces followed by

a period of mild disturbance, the chief feature of which was a range of 25' in D. Quiet conditions were re-established during 9th (though a prominent wave in all traces occurred at 9^d 23^h 30^m) and lasted with a short interruption between 11^d 21^h and 12^d 4^h, until 13^d 12^h. Considerable activity then began, irregular movements being shown continually in all elements. The largest were in H, and one or two of them exceeded 100γ on 13th, 15th and 16th. Waves up to 20' in D also occurred on 15th. Activity nearly ceased from 16^d 4^h and remained low until 18^d 4^h. Then began the quick development of what proved to be one of the three great storms of the year. For the first six hours the chief characteristic was the rapidity of the oscillations in the field, particularly in H, but from 18^d 10^h their magnitude and complexity greatly increased. The storm lasted in full intensity for almost exactly twenty four hours (i.e. until 19^d 10^h) during which a range of 1252γ in H was recorded, together with a range of 1116γ in Z and 122'.7 in D. (Plates VI, VII and VIII). Many small but rapid fluctuations in the field continued throughout the remainder of 19th and there was one large movement in all traces (+150γ in H; -75γ in Z; -29' in D) at 20^d 1/2^h. Activity thereafter declined. There was however, a marked temporary decrease in H between 20^d 7^h and 20^d 12^h (120γ) and a similar though smaller decrease at about the same time on the next day. A prominent peak in D (+18') at 21^d 3 1/2^h was accompanied by movements in H (+60γ) and Z (-40γ). The period from 21^d 18^h to 23^d 6^h was quiet. Moderate activity then appeared and continued until 26^d 0^h. It was greatest during the latter half of 24th, when a range of 28' occurred in D and 90γ in Z. Slight general unsteadiness prevailed throughout the remainder of the month, showing a definite oscillatory character during 29th.

The extreme ranges in the elements during the month all occurred within the great storm of September 18-19. They were: in declination 9° 9'.3 at 18^d 23^h 41^m to 11° 12'.0 at 18^d 13^h 39^m; in horizontal intensity, .17881 at 18^d 22^h 26^m to .19133 at 18^d 15^h 36^m; in vertical intensity, .42631 at 19^d 4^h 5^m to .43747 at 18^d 15^h 32^m.

October. - Apart from periods of slight unsteadiness between 2^d 19^h and 3^d 1^h and between 8^d 1^h and 8^d 22^h, conditions during the first ten days of the month were nearly quiet. Activity began about 10^d 18^h and steadily increased. By 11^d 16^h it had reached the dimensions of a moderate disturbance. There was a succession of movements of about 100γ in H and 20' in D together with a fluctuating decrease in Z (110γ) between 11^d 17^h and 12^d 2^h. The disturbance then rapidly died out leaving a condition of general unsteadiness which persisted in varying degree until 21^d 6^h. A short quiet spell ensued; terminated at 22^d 13^h by a brisk disturbance during which considerable ranges occurred in each element, namely 32' in D, 185γ in H and 120γ in Z. The principal movements were at 22^d 18^h, and the disturbance ended at 23^d 0^h. There was, however, a continuance of unsteady conditions, rising at times to moderate activity, (24^d 15^h to 25^d 4^h and 26^d 18^h to 27^d 4^h) throughout the remainder of the month. At 31^d 3^h 42^m an abrupt movement in all traces (Plate IX) announced the approach of a large disturbance. This did not immediately develop, but soon after 31^d 17^h activity rapidly increased and the disturbance was in full progress as the month ended.

The range in declination during the month was from 10° 2'.8 on 31st to 10° 46'.2 on 22nd; in horizontal intensity, from .18441 to .18612, both on 31st; in vertical intensity, from .43071 on 11th to .43234 on 22nd.

November. - At the beginning of the month a large disturbance which had begun some six hours earlier, was in active progress. It lasted until 1^d 18^h (when it ceased abruptly) and included ranges of 42'.9 in D, 205γ in H and 183γ in Z. The period from 1^d 21^h to 5^d 14^h was nearly quiet, only short spells of slight unsteadiness affecting the smoothness of the curves. From 5^d 14^h 40^m considerable activity developed, at first consisting of many small irregular movements, but later of larger oscillations some of which had an amplitude exceeding 50γ in H and 15' in D. The most prominent waves occurred at 6^d 18 1/2^h and corresponded to an increase of 130γ in H preceded by a decrease of 22' in D. After 7^d 0^h activity greatly declined but irregular movements occurred at frequent intervals for several days longer. Notable among these were: a wave in D (-15') at 8^d 18 1/2^h; waves in H at 10^d 14^h, 10^d 17 1/2^h, 11^d 0^h (50γ); a temporary

decrease in D (-15') between 10^d 23^h and 11^d 2^h. Slight unsteadiness was the prevailing characteristic of the traces during the period 13^d to 16^d. At 16^d 21^h unsteadiness began markedly to increase and between 17^d 14^h and 22^h three prominent waves occurred in D (-18', -15', -20'). Numerous irregular fluctuations in all elements were recorded between 18^d 15^h and 19^d 4^h, the most conspicuous being a wave in D (+15') at 19^d 1^h. From 19^d to 27^d slight general unsteadiness ruled, rising to a state of mild disturbance between 22^d 15^h and 23^d 6^h, during which interval movements +80γ in H and -15' in D occurred at 22^d 21^h. At 27^d 3^h 41^m there was a "kick" in all traces, the first movement in a new period of disturbance. No marked activity followed, however, until 22^h. A series of large irregular fluctuations then began in all elements, several in H exceeding 50γ. Between 28^d 1^h and 6^h a temporary decrease in D (-15') was shown followed by two waves (+18', +10'). A temporary decrease in Z (40γ) also occurred during the same interval. After a prolonged lull, the disturbance ended with a steep wave in H (+170γ) at 28^d 18^h, accompanied by associated movements in D (-20') and in Z (+40γ). A short quiet period then ensued.

The range in declination during the month was from 10° 2'.8 on 1st to 10° 45'.1 on 28th; in horizontal intensity, from .18407 on 1st to .18615 on 28th; in vertical intensity, from .43043 to .43226, both on 1st.

December. - A moderate disturbance occurred on 1st and was prolonged until about 2^d 6^h. Its commencement is probably shown by a distinct "kick" at 6^h 0^m in all traces, though a certain amount of irregular fluctuation was already apparent at that time. For the first eight hours only relatively small oscillations took place, but they were very numerous and rapid. After 1^d 14^h these changed to large regular waves about four to the hour, six in all, of decreasing amplitude while a steady increase of Z took place between 13^h and 15^h amounting to 180γ. The amplitude of the largest wave in H was 160γ; in D, 29'. From 16^h 40^m Z decreased steadily to below normal, the whole range being 227γ. The values of H and D were, at the same time, each rather below normal and fluctuating irregularly. (Plate IX). After 2^d 5^h activity declined rapidly to a state of general unsteadiness. Temporary revivals on a small scale were recorded between 3^d 17^h and 4^d 4^h, 4^d 18^h and 4^d 22^h, 5^d 16^h and 6^d 6^h, and isolated bays in H appeared at 8^d 22^h and 9^h 23^h but, apart from these, fairly quiet conditions prevailed until 13th, especially on 10th and 11th. From 13^d 16^h there was mild general disturbance until 19^d 6^h. Movements seldom exceeded 50γ in H or 10' in D however, and there were intervals of almost complete quiet at 15^d 10^h to 20^h and 16^d 10^h to 22^h. From 20th to the end of the month conditions were quiet on the whole. Isolated movements appeared on the traces, chiefly in H, at 23^d 17^h, 23^d 23^h, 26^d 22^h, 27^d 1^h, 27^d 23^h and 29^d 0^h. The largest of these just reached 60γ.

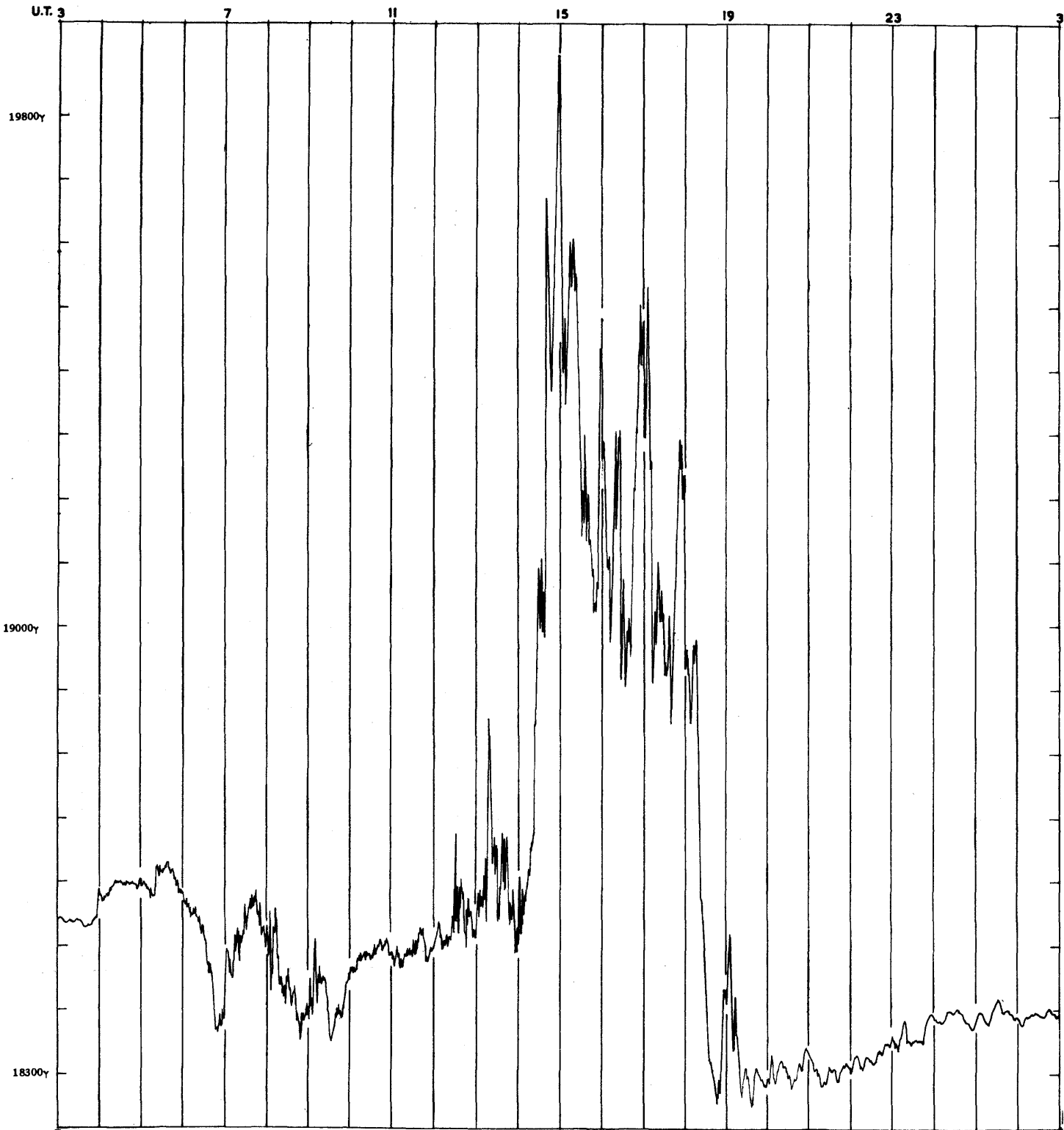
The range in declination during the month was from 10° 12'.0 to 10° 45'.5, both on 1st; in horizontal intensity, from .18371 on 1st to .18604 on 17th; in vertical intensity, from .43105 on 2nd to .43335 on 1st.

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

Declination West 12° 44'.4 on March 1st; 9° 9'.3 on September 18.
Horizontal intensity .19900 on March 1st; .17881 on September 18.
Vertical intensity .43883 on March 1st; .42631 on September 18.

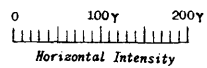
1941 MARCH 1-2

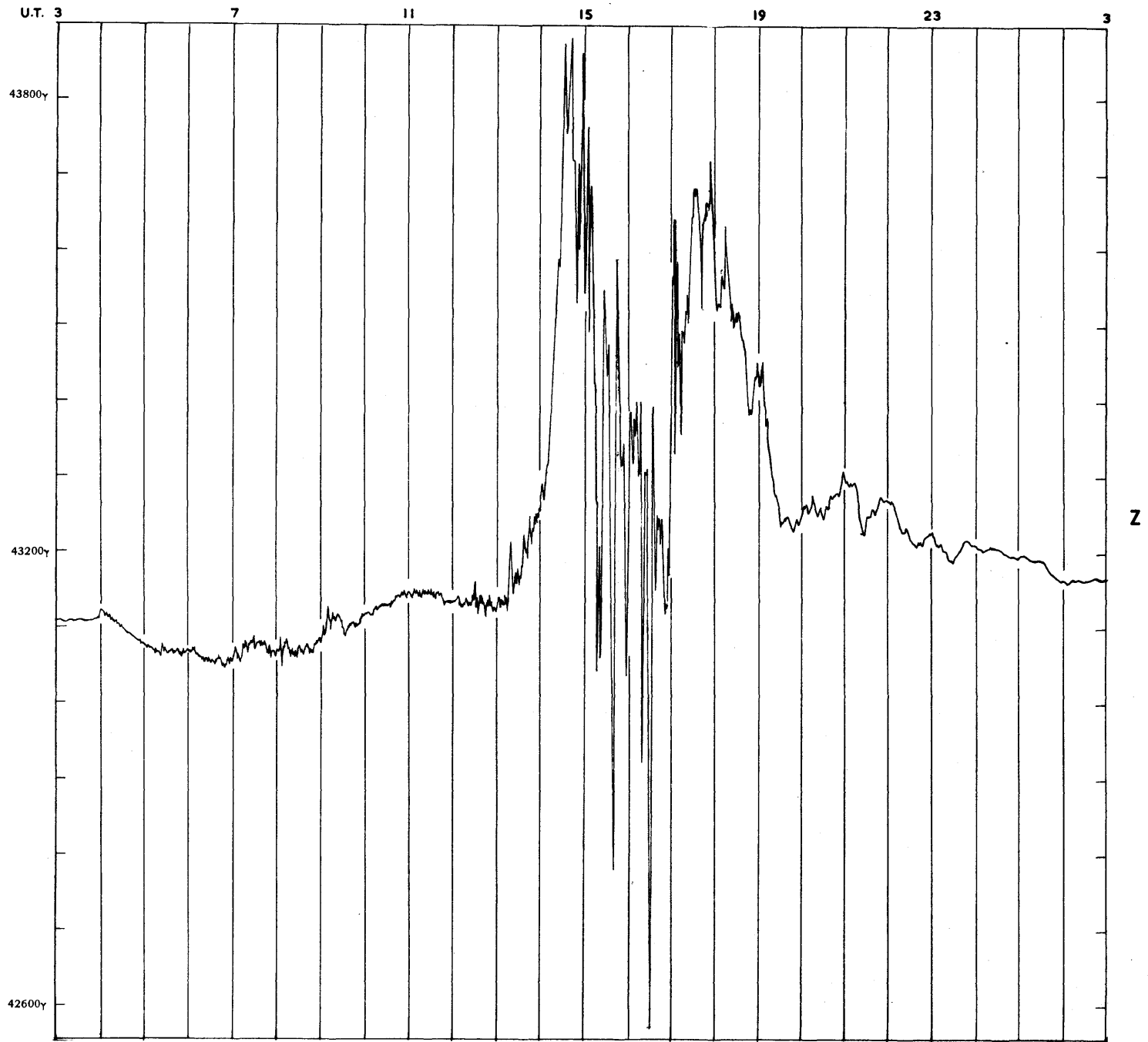
Plate I



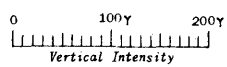
H

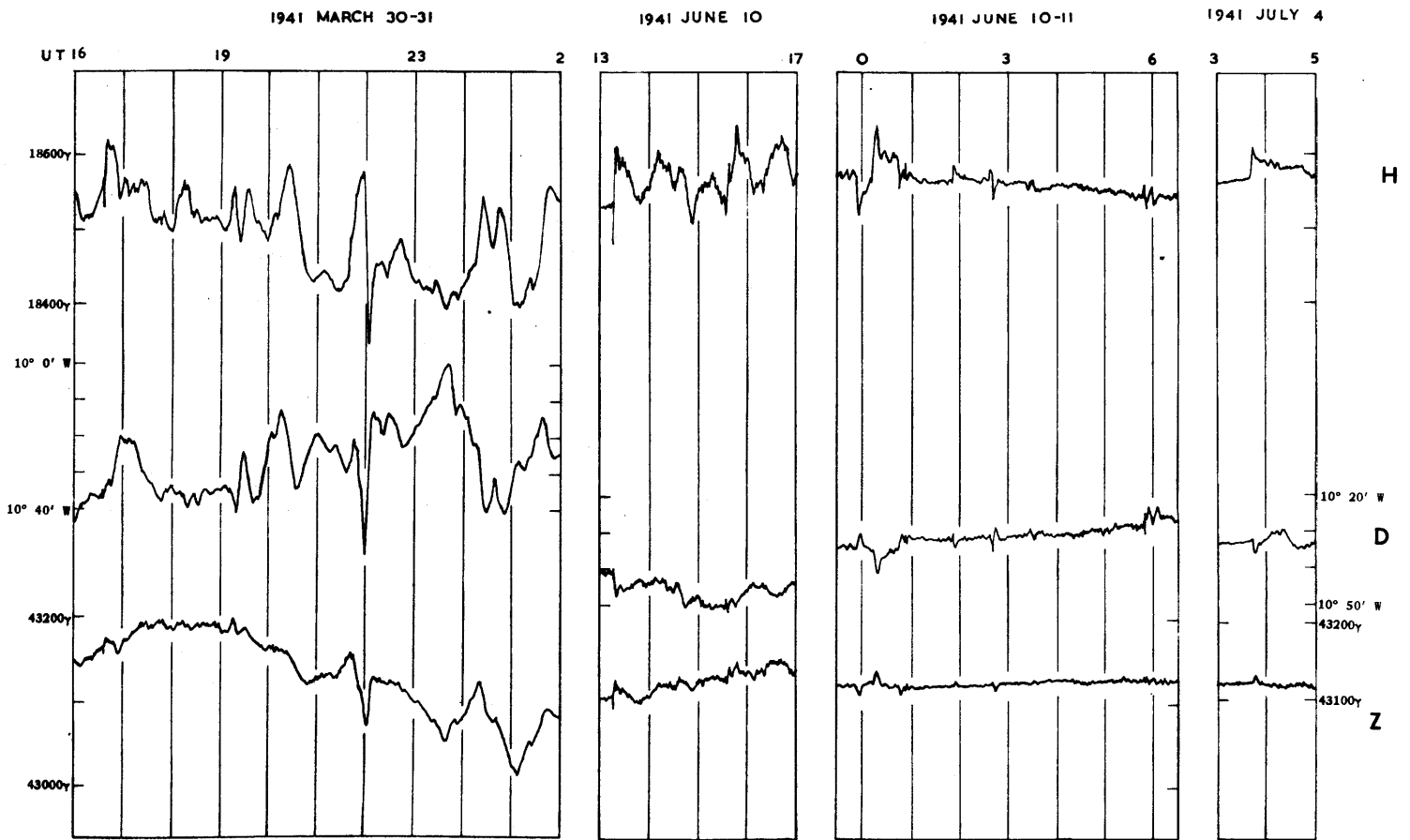
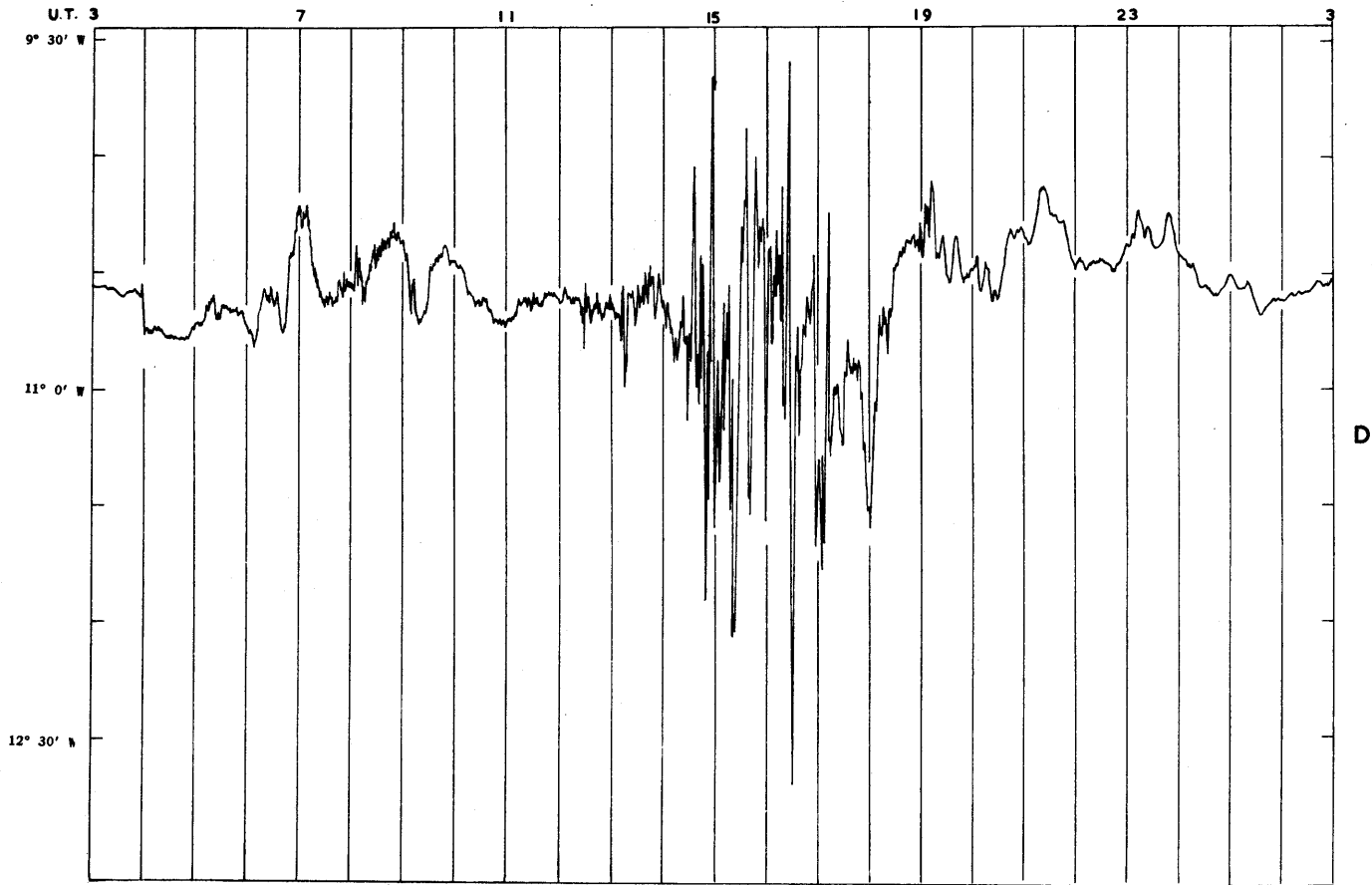
SCALE FOR THE MAGNETIC ELEMENT



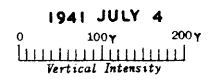
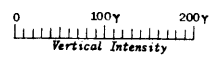
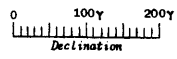
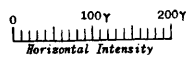


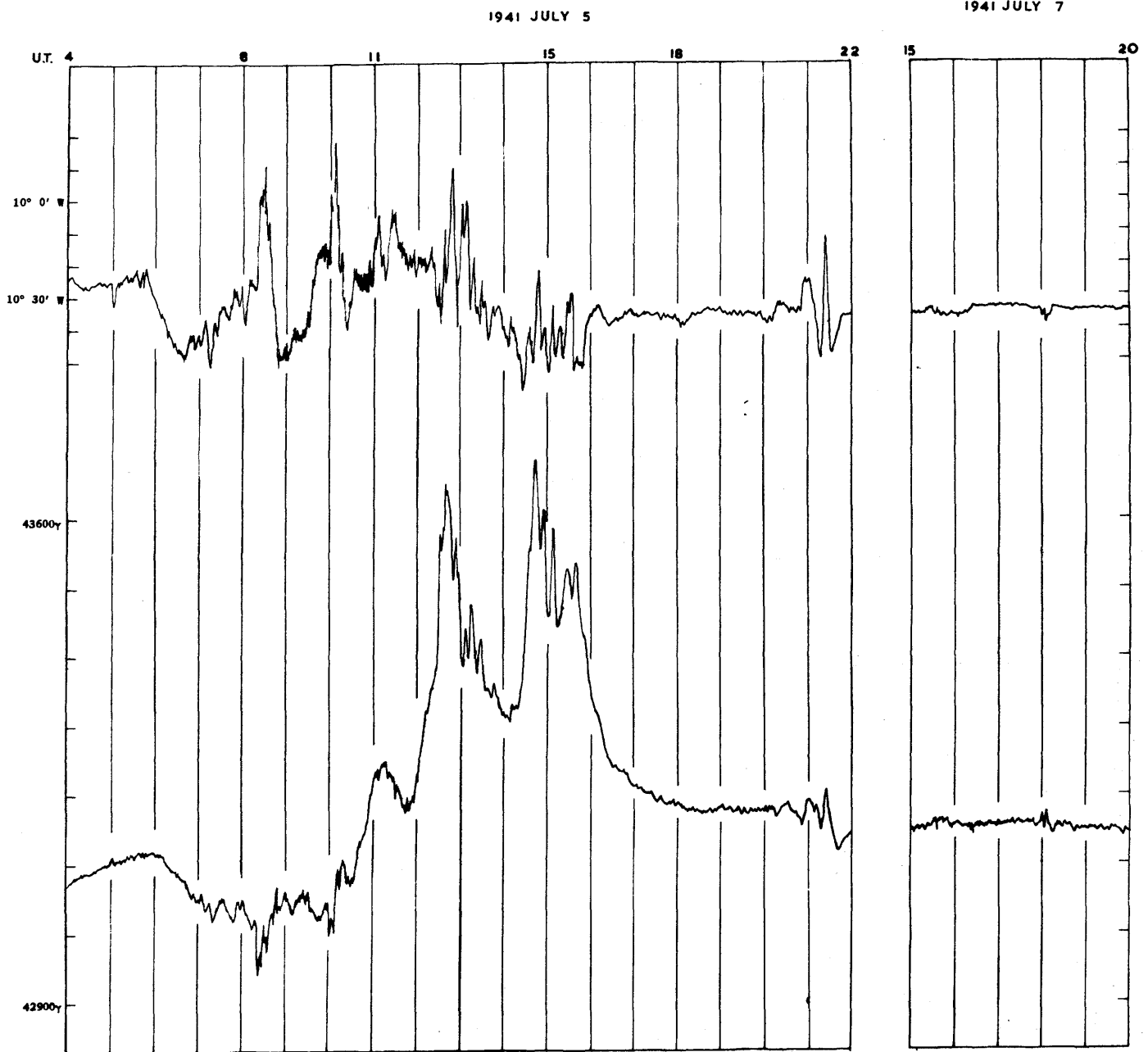
SCALE FOR THE MAGNETIC ELEMENT





SCALES FOR THE MAGNETIC ELEMENTS





SCALES FOR THE MAGNETIC ELEMENTS

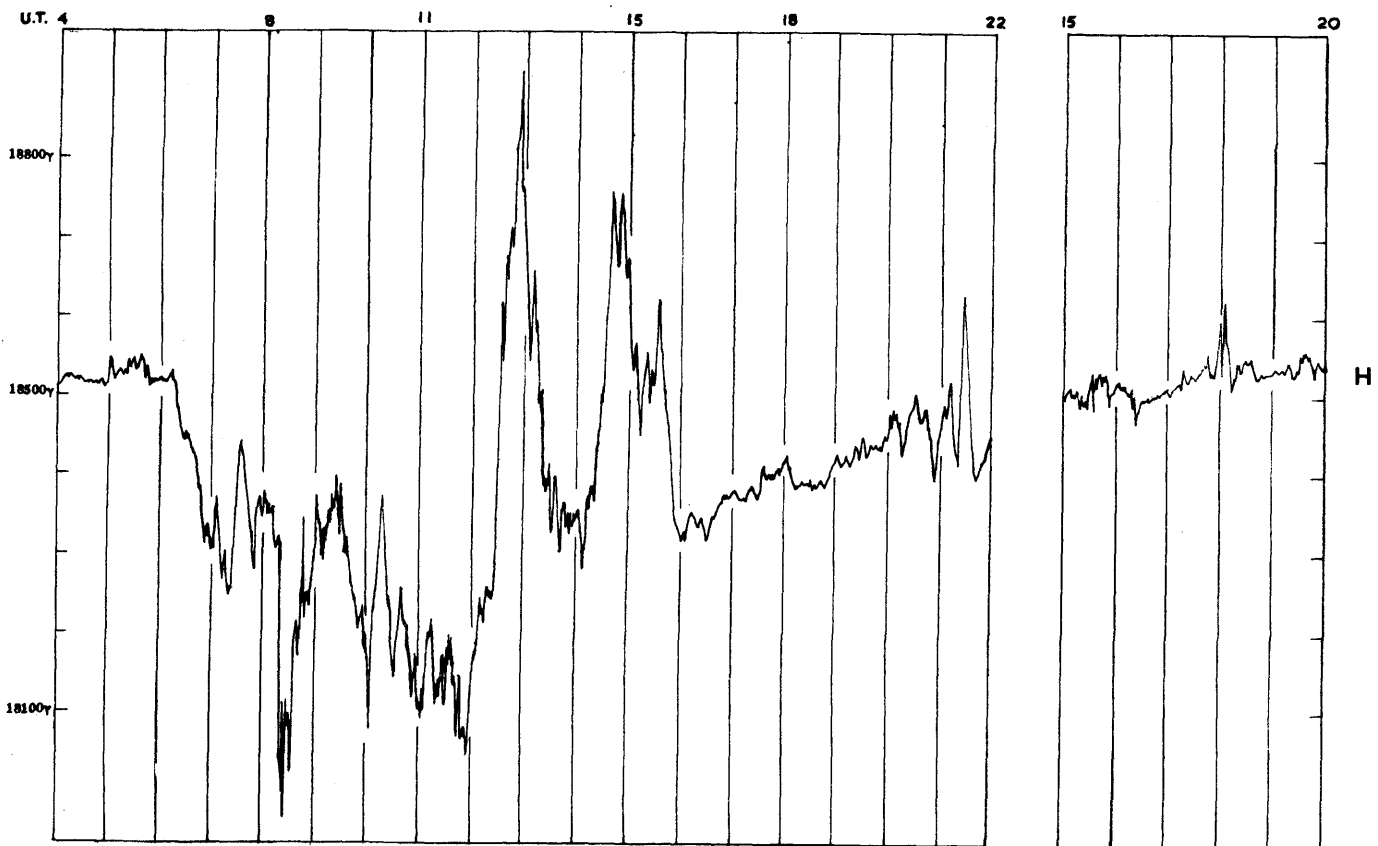
0 100γ 200γ
Declination

0 100γ 200γ
Vertical Intensity

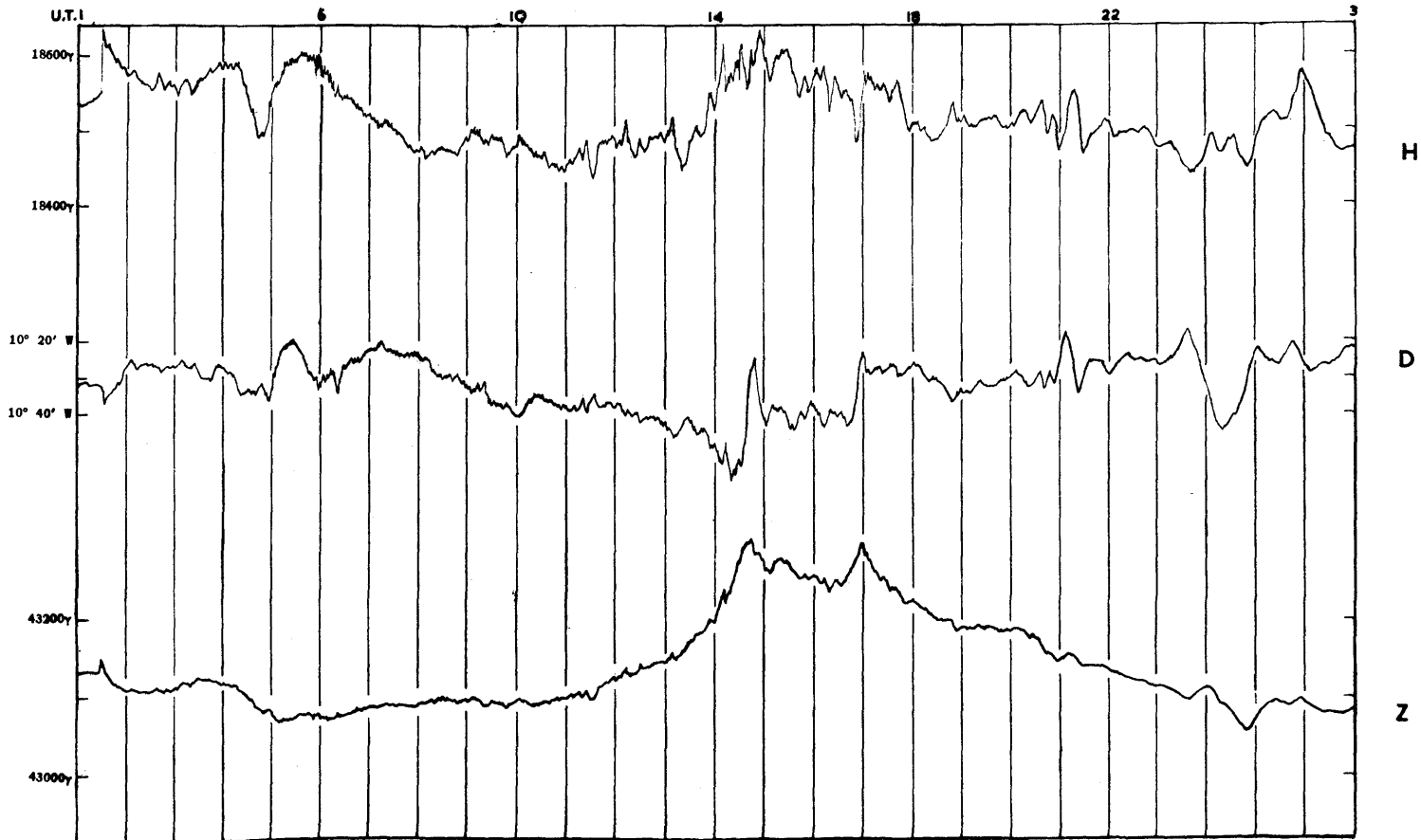
1941 JULY 5

1941 JULY 7

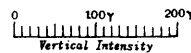
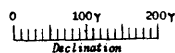
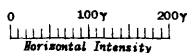
Plate V

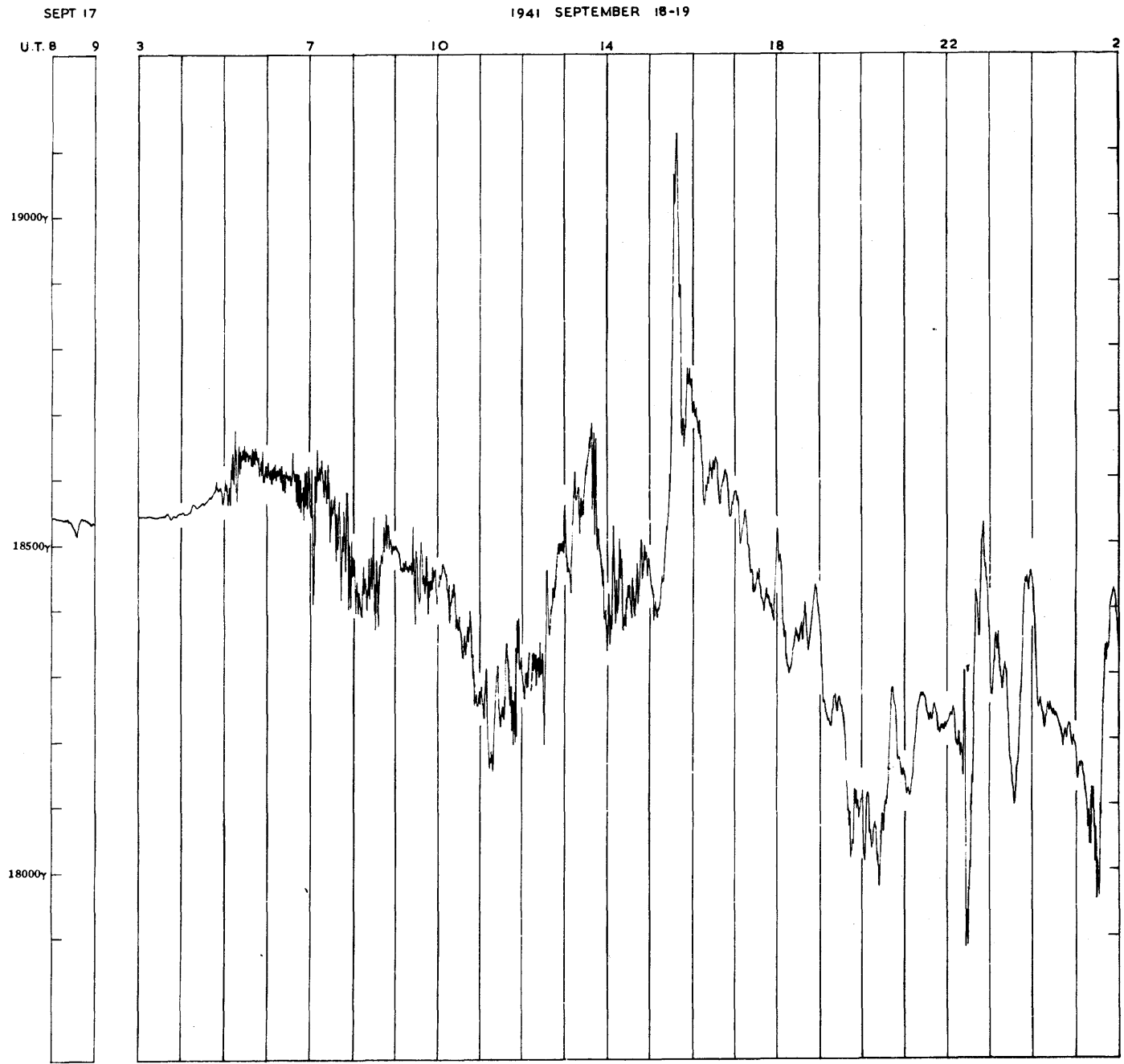


1941 AUGUST 4-5



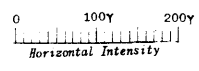
SCALES FOR THE MAGNETIC ELEMENTS





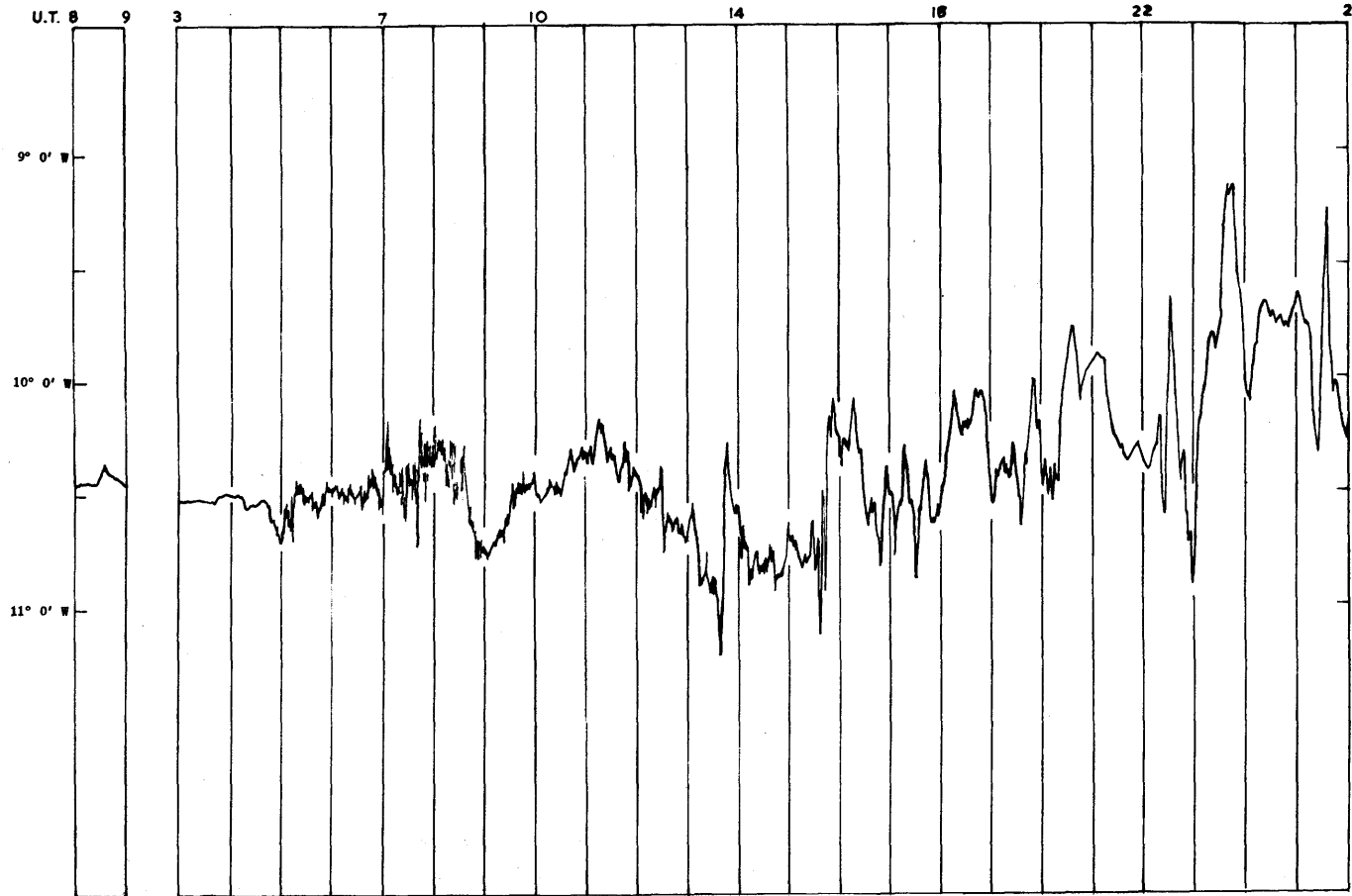
H

SCALE FOR THE MAGNETIC ELEMENT



SEPT 17

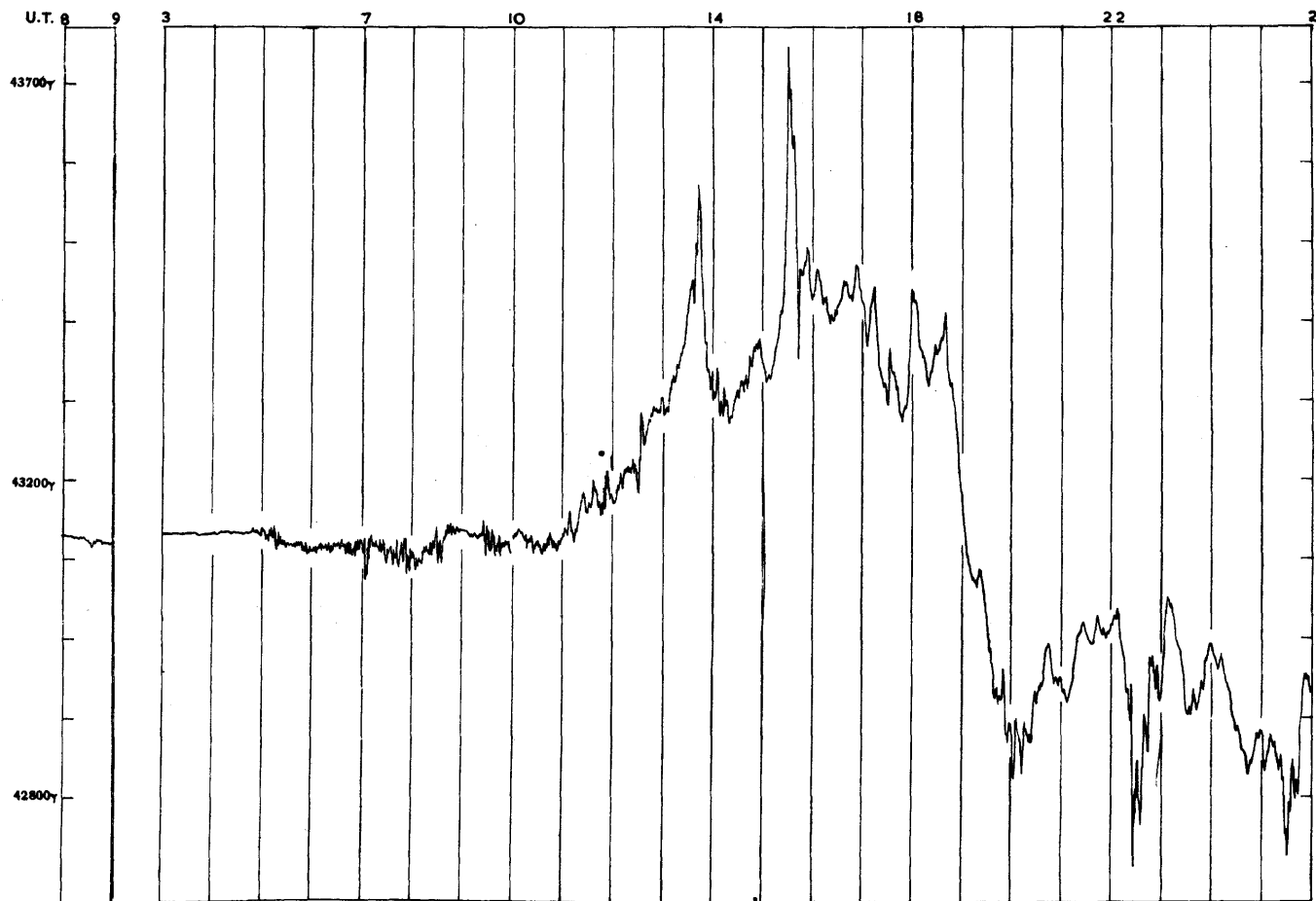
1941 SEPTEMBER 18-19



D

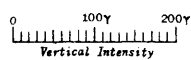
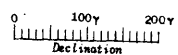
SEPT 17

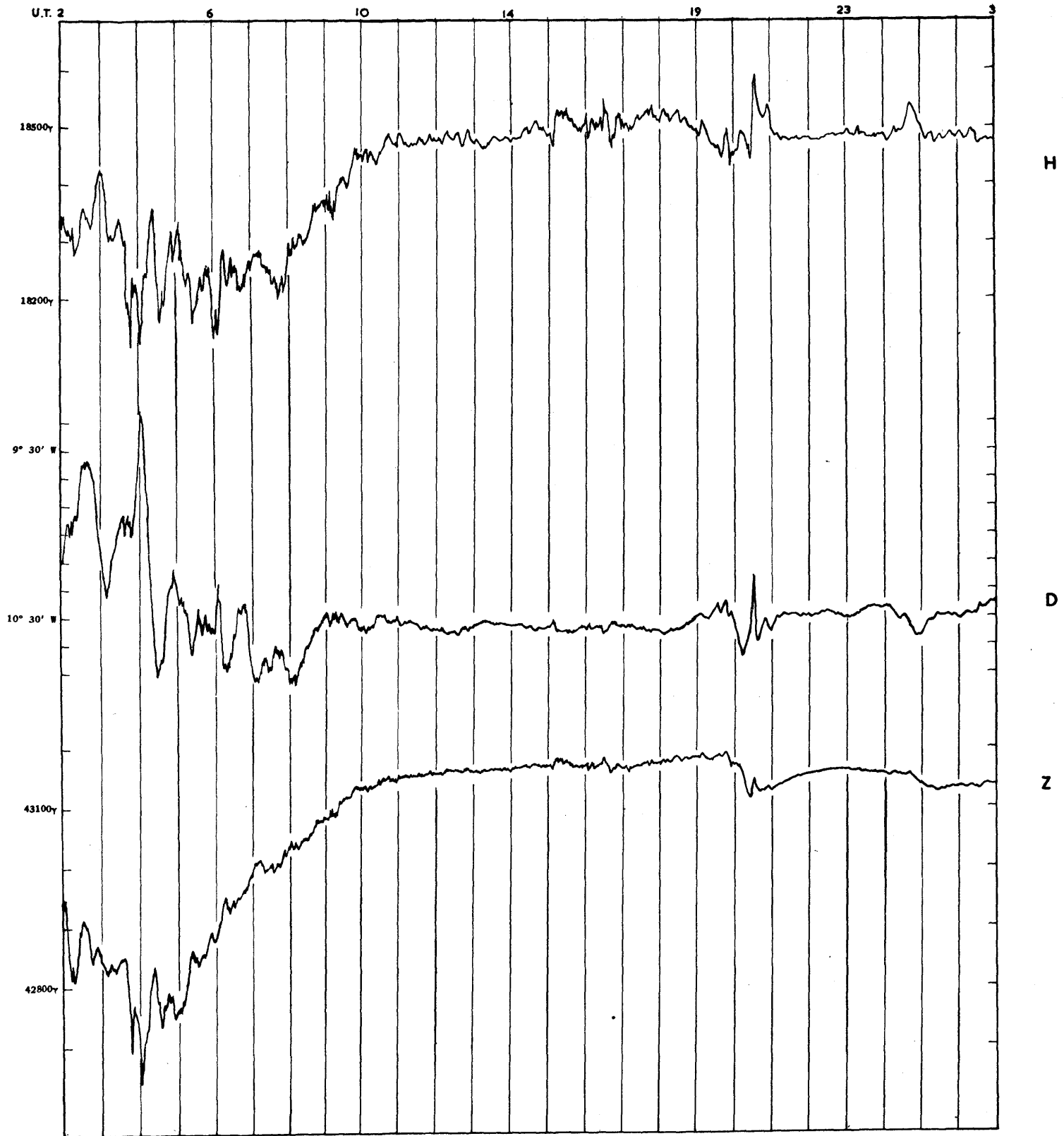
1941 SEPTEMBER 18-19



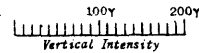
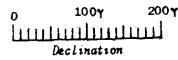
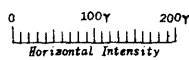
Z

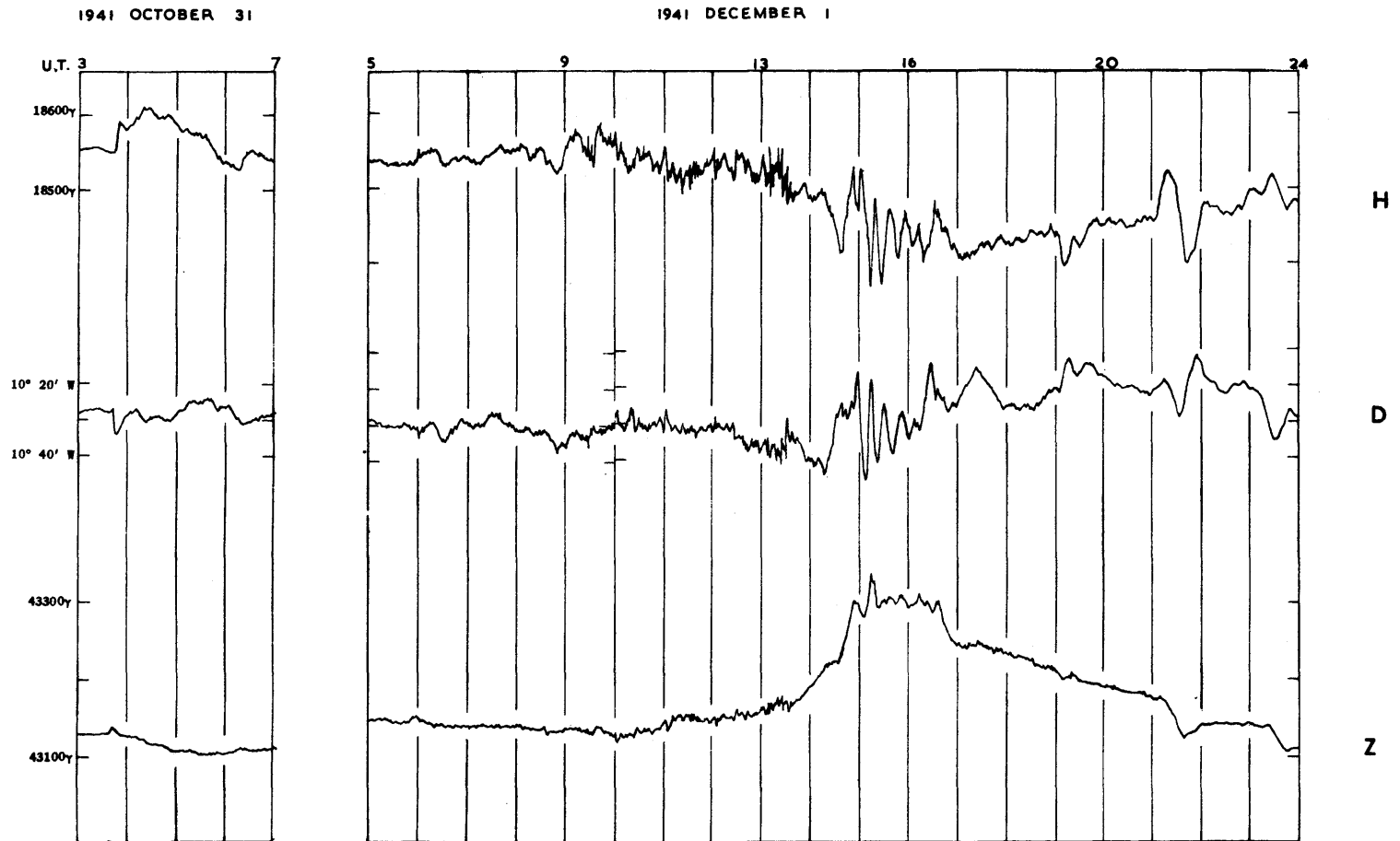
SCALES FOR THE MAGNETIC ELEMENTS



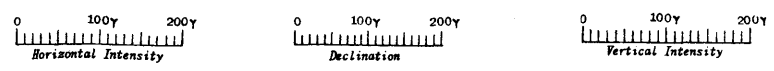


SCALES FOR THE MAGNETIC ELEMENTS





SCALES FOR THE MAGNETIC ELEMENTS



ROYAL OBSERVATORY, GREENWICH.

**Results of
Meteorological Observations**

1941

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1941	BAROMETER Mean of 24 hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE Of the Air							Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (saturation = 100)	TEMPERATURE Of Radiation			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value			Mean	Great-est	Least				Highest in Sun's Rays	Lowest on the Grass	Of the Earth 4 ft. below the Surface of the Soil
Jan. 1	29.406	35.6	27.6	8.0	32.5	-6.1	29.4	23.9	8.6	11.7	7.0	68	53.7	20.8	44.0	0.000	2.9	7.9	
2	29.892	29.3	23.2	6.1	26.8	-11.6	24.1	17.8	9.0	14.1	8.3	65	50.3	16.4	44.0	0.000	4.8	7.9	
3	30.291	29.9	22.8	7.1	26.1	-12.2	24.1	19.5	6.6	9.9	6.1	74	60.7	16.1	43.9	0.001	2.7	8.0	
4	30.363	32.4	27.8	4.6	30.5	-7.8	28.1	23.7	6.8	9.7	3.7	73	48.7	23.8	43.6	0.000	0.3	8.0	
5	30.218	32.8	30.9	1.9	32.0	-6.2	30.3	27.5	4.5	7.0	0.7	82	34.6	28.6	43.3	0.000	0.0	8.0	
6	30.060	32.5	28.9	3.6	30.5	-7.6	30.1	29.5	1.0	2.4	0.0	95	35.6	29.5	43.0	0.060	0.0	8.0	
7	30.084	29.9	27.3	2.6	28.9	-9.1	28.4	27.4	1.5	2.2	0.8	94	31.5	28.1	42.7	0.019	0.0	8.1	
8	30.194	36.0	29.9	6.1	33.6	-4.3	32.5	30.6	3.0	5.2	2.3	88	42.5	28.9	42.5	0.010	0.0	8.1	
9	30.316	36.2	29.3	6.9	32.8	-5.1	31.0	28.0	4.8	7.4	2.4	82	64.8	22.9	42.3	0.000	4.6	8.1	
10	30.107	38.0	33.9	4.1	35.7	-2.2	33.9	30.8	4.9	7.9	2.6	82	64.0	29.1	42.2	0.005	4.5	8.1	
11	29.969	39.8	36.6	3.2	38.7	+0.8	37.6	35.9	2.8	4.4	1.7	90	43.7	35.3	42.1	0.010	0.0	8.2	
12	30.030	37.9	32.6	5.3	35.9	-2.0	34.6	32.3	3.6	6.9	0.9	87	39.6	24.0	41.9	0.000	0.0	8.2	
13	29.885	38.0	30.5	7.5	35.2	-2.8	34.2	32.5	2.7	4.4	0.7	90	42.0	27.0	41.9	0.000	0.0	8.2	
14	29.472	36.1	30.4	5.7	34.1	-3.9	33.4	32.2	1.9	3.1	0.6	93	41.2	25.2	41.8	0.003	0.0	8.3	
15	29.335	34.0	24.0	10.0	30.7	-7.4	30.3	29.7	1.0	2.6	0.0	95	35.7	18.6	41.8	0.120	0.0	8.3	
16	29.461	30.7	18.4	12.3	25.1	-13.2	24.1	21.9	3.2	8.7	0.0	87	44.0	12.2	41.7	0.000	0.5	8.4	
17	29.542	30.6	22.3	8.3	25.4	-13.1	24.1	21.2	4.2	9.5	2.2	82	44.1	13.0	41.6	0.000	1.2	8.4	
18	29.302	33.3	21.4	11.9	28.6	-10.0	28.0	27.0	1.6	2.9	0.0	93	34.7	12.1	41.5	0.381	0.0	8.5	
19	29.032	40.8	31.8	9.0	35.6	-3.1	34.5	32.5	3.1	4.9	1.4	89	61.1	28.8	41.3	0.017	0.3	8.5	
20	28.956	42.6	31.1	11.5	34.8	-4.0	34.4	33.6	1.2	1.7	0.0	96	38.8	28.1	41.0	0.666	0.0	8.6	
21	28.720	46.3	38.0	8.3	42.9	+4.1	42.2	41.2	1.7	3.8	0.0	94	49.7	29.6	40.9	0.134	0.0	8.6	
22	28.868	48.0	38.5	9.5	44.1	+5.3	42.6	40.7	3.4	5.1	0.7	88	67.8	30.5	41.0	0.003	0.6	8.6	
23	29.076	42.4	36.8	5.6	39.9	+1.0	39.6	39.2	0.7	1.2	0.0	97	47.9	27.3	41.0	0.046	0.0	8.7	
24	29.240	41.7	37.6	4.1	39.3	+0.4	39.0	38.6	0.7	2.8	0.0	97	48.1	35.5	41.2	0.000	0.0	8.7	
25	29.346	40.1	36.8	3.3	38.7	-0.4	38.4	38.0	0.7	1.7	0.0	97	42.3	36.8	41.3	0.362	0.0	8.8	
26	29.665	37.0	34.3	2.7	36.1	-3.2	35.9	35.6	0.5	1.6	0.0	98	39.7	34.0	41.3	0.008	0.0	8.8	
27	29.825	36.5	33.3	3.2	34.5	-5.0	34.0	33.2	1.3	1.6	0.7	95	37.7	33.1	41.6	0.220	0.0	8.9	
28	29.714	42.4	36.5	5.9	39.6	-0.0	39.3	38.9	0.7	1.8	0.0	97	47.0	36.5	41.6	0.322	0.0	9.0	
29	29.804	38.3	33.3	5.0	35.2	-4.5	34.8	34.0	1.2	2.4	0.8	96	39.7	33.1	41.6	0.000	0.0	9.0	
30	29.617	39.0	34.2	4.8	36.6	-3.1	35.8	34.4	2.2	2.4	0.0	92	43.6	34.0	41.6	0.016	0.0	9.0	
31	29.359	38.1	35.7	2.4	37.1	-2.6	36.6	35.9	1.2	1.7	0.0	95	41.6	34.9	41.5	0.160	0.0	9.1	
Means	29.650	37.0	30.8	6.1	34.1	-4.5	33.1	31.2	2.9	4.9	1.4	88.7	45.7	26.9	42.0	Sum 2.563	0.7	8.4	
No. of Col. for Ref.	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 29.650 in., being 0.151 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 48° 0 on January 22; the lowest in the month was 18° 4 on January 16; and the range was 29° 6.

The mean of all the highest daily readings in the month was 37° 0, being 6° 1 lower than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 30° 8, being 3° 4 lower than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 6° 1, being 2° 8 less than the average for the 65 years, 1841-1905.†

The mean for the month was 34° 1, being 4° 5 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	POLARIS		δ 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	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						lbs.	lbs.	miles
Jan. 1	12.6	0.92	12.6	0.92	NE:ENE	NE:NNE	6.7	0.61	365	c	c Stcu	c bc Frcu Ci b	b x
2	13.2	0.96	12.5	0.91	NNE:NE	NE:NNE	8.4	0.71	352	b c b x m _o	b bc x m _o s	b Frcu y	b c s _o b
3	5.3	0.38	3.5	0.26	NNE	NNE	5.0	0.64	371	b	b c s _o Acu Prst	c Acu bc	b bc
4	0.0	0.00	0.0	0.00	NNE:NE	NE:NNE	4.6	0.58	358	b bc	c Stcu Acu	c	c
5	0.0	0.00	0.0	0.00	NNE	NNE:NE	3.0	0.35	314	c is _o m _o	c Stcu Ast Frcu s _o m _o	c Nbst m _o	c m _o
6	0.0	0.00	0.0	0.00	NE:NNE	Calm:NE	0.8	0.02	188	c is _o m	c s _o id _o m	c r _o s _o ss m	c s _o s _o c m
7	0.0	0.00	0.0	0.00	NE:Calm	Calm:NE	0.7	0.01	137	c m	c is _o Nbst m	c Nbst m	c m
8	4.6	0.33	3.5	0.25	Calm:NE	NE:ENE	1.0	0.05	206	c m	c Stcu m	c m m _o	d _o d c m
9	4.3	0.31	3.7	0.27	ENE:E	ENE:NE	2.6	0.30	291	c x	c bc Stcu b Frcu	b Stcu	b x c
10	0.0	0.00	0.0	0.00	NE:ENE	ENE:Calm	3.7	0.30	268	c	c b bc Frcu	bc c Frcu Stcu	c d _o d _o
11	0.0	0.00	0.0	0.00	NE	NE	3.5	0.28	306	d _o d m	c id _o Ast Prst m	c id _o c	c id _o c
12	3.3	0.25	0.9	0.06	ENE	NE:Calm	1.9	0.10	192	c	c Ast Prst	c Stcu	c bc c m ff
13	1.5	0.11	1.1	0.08	Calm:WSW:NW	Calm:WSW	0.9	0.03	192	c ff	c ff m	c St bc c m f	c b c
14	0.7	0.05	0.2	0.02	WSW	Calm	0.2	0.03	161	c f	c Nbst ir _o ff	c Frcu f m	c bc c x ff
15	12.0	0.91	12.0	0.91	Calm:NE	NE	3.5	0.23	252	c ff	c Nbst s _o s m	c Nbst ss _o c m	c b x m
16	5.7	0.43	3.3	0.25	NNE:Calm	NW:WSW	0.8	0.03	193	b x m	b c Nbst m f	c b m	b c m
17	5.9	0.45	3.7	0.28	WSW	WSW:SW	0.6	0.03	215	c s _o c mfx	bc b f x	b Ci f m m _o	b m bc
18	3.4	0.26	3.1	0.24	SSW:Calm:ESE	ESE	3.3	0.22	252	bc c	c Nbst s _o ss	ss s _o Nbst	rs d _o d _o r rs
19	0.0	0.00	0.0	0.00	SW	WSW:NW:NE	4.0	0.27	299	rsr c b	b c Nbst m _o m r _o	c m Stcu bc	c
20	3.1	0.24	2.9	0.22	ENE	ENE:SW	3.4	0.34	304	c is m	c o Nbst St rr m	o r r m	dd o b o m
21	2.0	0.15	0.8	0.06	Calm	SE:S	3.5	0.19	235	o b o m	o St rr d _o d _o rr m	c Nbst ir	c
22	..	..	..	..	S:SSW	SSW:S	2.7	0.30	311	c	c Nbst r _o Ast	c Ast Stcu b	b c b
23	0.0	0.00	0.0	0.00	Calm	E:Calm:N	0.2	0.00	161	b m	o Nbst ir _o d _o f m	r Nbst o m f	o f f
24	0.0	0.00	0.0	0.00	Calm	Calm:E	0.3	0.01	139	o f	o f m	o c Nbst d _o m	c d _o d _o c m
25	0.0	0.00	0.0	0.00	E:ESE	E	3.3	0.30	309	c m r	rr Nbst m	rr Nbst m	c id
26	0.0	0.00	0.0	0.00	E:ENE	ENE	1.5	0.18	283	c id m	c St idd _o m	d _o o m	o m
27	0.0	0.00	0.0	0.00	E:ESE	ESE:E	0.9	0.07	244	o m	o St m	o Nbst r _o r m f	rr rr m
28	0.0	0.00	0.0	0.00	E:Calm	ENE:E	0.2	0.01	192	rr	rr ff	rr c ff	c f m
29	0.0	0.00	0.0	0.00	E	E:ESE	1.6	0.13	273	c f m	c St m	c St m	c St
30	0.0	0.00	0.0	0.00	ESE:E	ESE:E	1.9	0.13	268	c m	o St rr _o m f	o St f m	o m
31	0.0	0.00	0.0	0.00	E	ENE:NNE	2.4	0.21	218	rr	rr d _o St ir m dd f	o St m	dd c m
Means	2.6	0.19	2.1	0.16	..	..	..	0.22	253				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 33°.1, being 4°.1 lower than
 The mean *Temperature of the Dew Point* for the month was 31°.2, being 3°.9 lower than
 The mean *Degree of Humidity* for the month was 88.7, being 1.9 greater than
 The mean *Elastic Force of Vapour* for the month was 0.174 in., being 0.031 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 8.4.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.086. The maximum daily amount of *Sunshine* was 4.8 hours on January 2.
 The highest reading of the *Solar Radiation Thermometer* was 67°.8 on January 22; and the lowest reading of the *Terrestrial Radiation Thermometer* was 12°.1 on January 18.
 The *Proportions of Wind* referred to the cardinal points were N.23, E.38, S.10, W.9, calm or nearly calm conditions, 20, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 8.4 lbs. on the square foot on January 2. The mean daily *Horizontal Movement of the Air* for the month was 253 miles; the greatest daily value was 371 miles on January 3, and the least daily value was 137 miles on January 7.
Rain (0.005 in. or over) fell on 17 days in the month, amounting to 2.563 in., as measured by gauge No. 6 partly sunk below the ground; being 0.682 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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	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	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
Feb. 1	29.480	40.4	33.6	6.8	36.5	- 3.1	34.7	31.6	4.9	9.5	1.0	82	50.2	30.6	41.7	0.010	0.2	9.1
2	29.441	36.8	31.0	5.8	34.2	- 5.3	31.6	27.5	6.7	8.5	4.2	74	51.5	26.4	41.5	0.000	0.5	9.2
3	29.699	33.9	29.0	4.9	31.2	- 8.3	29.1	25.4	5.8	6.4	3.9	77	47.7	25.4	41.5	0.019	0.9	9.3
4	30.093	34.8	25.9	8.9	31.6	- 7.9	30.0	27.4	4.2	10.3	2.1	83	74.7	18.8	41.4	0.020	2.0	9.3
5	29.932	33.2	20.6	12.6	28.1	-11.5	27.1	25.5	2.6	5.1	0.0	87	56.7	13.5	41.2	0.280	0.5	9.4
6	29.528	41.8	30.0	11.8	36.3	- 3.3	34.9	32.6	3.7	6.9	1.0	86	67.8	27.2	41.1	0.000	1.0	9.4
7	29.559	51.7	32.9	18.8	43.4	+ 3.9	42.1	40.1	3.3	9.7	0.8	89	69.9	26.1	41.0	0.120	0.0	9.5
8	29.639	52.9	46.7	6.2	49.7	+10.4	47.9	45.9	3.8	9.3	2.2	87	65.4	42.9	41.0	0.032	0.0	9.5
9	29.702	52.1	48.3	3.8	50.6	+11.5	48.4	46.0	4.6	6.6	2.4	84	60.4	43.3	41.0	0.055	0.0	9.6
10	29.788	50.1	38.8	11.3	45.9	+ 7.0	43.2	39.7	6.2	12.3	2.5	79	93.5	32.5	41.3	0.017	4.6	9.7
11	29.800	51.2	30.3	20.9	40.0	+ 1.2	38.5	36.4	3.6	11.4	0.0	87	87.9	23.0	41.5	0.000	4.5	9.7
12	29.317	43.0	39.2	3.8	41.6	+ 2.8	40.8	39.8	1.8	2.5	0.0	93	56.7	36.7	41.7	0.088	0.0	9.8
13	29.199	48.7	37.7	11.0	42.2	+ 3.2	40.9	39.1	3.1	8.5	1.0	89	90.5	28.5	41.9	0.135	2.6	9.9
14	29.081	49.2	37.3	11.9	43.6	+ 4.3	41.4	38.4	5.2	11.0	1.0	82	79.0	28.1	42.0	0.030	0.2	9.9
15	29.129	49.6	37.7	11.9	42.9	+ 3.5	40.6	37.3	5.6	11.3	1.0	80	97.9	28.3	42.2	0.007	4.1	10.0
16	28.789	47.9	38.0	9.9	42.2	+ 2.7	40.6	38.4	3.8	7.7	1.5	86	73.3	28.8	42.1	0.252	0.0	10.1
17	28.892	48.3	39.8	8.5	44.9	+ 5.3	43.7	42.3	2.6	5.2	1.2	90	61.7	28.0	42.4	0.014	0.0	10.1
18	28.927	44.9	39.3	5.6	42.1	+ 2.6	41.3	40.3	1.8	2.8	0.0	93	57.7	27.5	42.4	0.208	0.0	10.2
19	28.963	40.7	32.2	8.5	36.1	- 3.4	34.4	31.5	4.6	11.8	0.0	83	62.8	31.8	42.5	0.218	0.4	10.2
20	29.041	38.4	30.5	7.9	34.5	- 5.0	31.8	27.5	7.0	13.0	3.0	73	68.8	25.0	42.4	0.000	0.4	10.3
21	29.214	40.9	28.6	12.3	34.5	- 5.1	31.4	26.1	8.4	19.7	2.1	69	78.3	22.1	42.4	0.000	4.8	10.4
22	29.278	41.2	28.5	12.7	35.1	- 4.6	32.7	28.5	6.6	13.8	2.1	76	76.1	20.1	42.3	0.014	2.0	10.4
23	29.292	42.0	29.0	13.0	35.7	- 4.1	33.3	29.1	6.6	15.0	1.2	76	79.8	21.0	42.1	0.000	3.1	10.5
24	29.364	40.3	28.0	12.3	34.7	- 5.3	32.2	27.6	7.1	14.2	1.0	75	77.8	19.1	41.9	0.000	3.8	10.6
25	29.630	41.0	28.4	12.6	34.9	- 5.2	32.1	27.2	7.7	18.8	1.8	71	83.9	17.9	41.8	0.000	3.3	10.6
26	29.789	41.4	24.4	17.0	33.1	- 7.1	30.6	26.4	6.7	13.6	2.3	74	92.2	13.9	41.6	0.000	4.7	10.7
27	29.475	52.0	35.8	16.2	45.8	+ 5.5	44.5	42.9	2.9	8.0	0.0	90	60.5	30.0	41.5	0.252	0.0	10.8
28	29.465	54.9	44.6	10.3	50.5	+10.2	46.8	42.5	8.0	16.6	3.4	74	87.8	38.0	41.5	0.015	0.4	10.8
Means	29.411	44.4	33.8	10.6	39.4	- 0.2	37.4	34.4	5.0	10.3	1.5	81.7	71.8	26.9	41.7	Sum 1.786	1.6	10.0
No. of Col. for Ref.	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 29.411 in., being 0.398 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 54° .9 on February 28; the lowest in the month was 20° .6 on February 5; and the range was 34° .3.
 The mean of all the highest daily readings in the month was 44° .4, being 0° .5 lower than the average for the 65 years, 1841-1905.†
 The mean of all the lowest daily readings in the month was 33° .8, being 0° .9 lower than the average for the 65 years, 1841-1905.†
 The mean of the daily ranges was 10° .6, being 0° .4 greater than the average for the 65 years, 1841-1905.†
 The mean for the month was 39° .4, being 0° .2 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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	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
Feb. 1	7.5	0.60	7.1	0.57	NNE:NNW	NW:W	2.7	0.27	282	c 1r _o s _o m	c Nbst r _o s _o m	c Stcu Acu p _o b	b
2	0.8	0.07	0.8	0.07	W	Calm:NE	2.3	0.25	288	b x m	b bc Ci c Frcu m m _o	c m _o	c m _o
3	2.9	0.23	2.5	0.20	NNE	NNE:N	3.5	0.94	357	c s _o c	ss c Nbst Stcu	c s _o bc c Nbst Frcu	c
4	9.4	0.75	8.7	0.70	NNW:NNE	NE:Calm	0.8	0.04	184	c b _o c s	s c bc Nbst Frst	c Frst Stcu	c b
5	0.0	0.00	0.0	0.00	Calm:S	S:SSW	3.0	0.35	275	b x	b x bc Acu Cist c so-ha	c Ast Frst	c s _o c s _o s _o
6	6.3	0.50	2.7	0.22	SSW:Calm	NW:SW	1.8	0.08	218	c	c St f c Frcu Ci m	c Frst Nbst b m	b c b m
7	1.9	0.15	0.0	0.00	SSW:SW	SW	2.1	0.23	287	b c rr	r c Nbst St m _o	c St Ci Cist	c
8	1.5	0.13	0.7	0.06	SW	SW	3.8	0.75	411	c r id	c Frst Ast Ci	c Stcu	c
9	1.0	0.08	0.8	0.07	SW	SW	4.7	1.44	454	c	c Nbst rr _o c	c Nbst	c rr
10	11.8	0.99	11.8	0.99	WSW	WSW	3.8	0.30	307	r c	b Frcu Ci	b c Frst Stcu	c b
11	0.0	0.00	0.0	0.00	Calm	SSW:Calm	0.2	0.01	136	b f x	b c Cist Acu so-ha	bc Ci Ast so-ha Stcu Frcu c	c d _o o
12	0.0	0.00	0.0	0.00	Calm:E	ESE:Calm	0.5	0.03	152	o m	o St m	o St m	o r _o d _o rr
13	6.0	0.50	3.9	0.33	Calm:WSW	WSW:S	1.1	0.04	199	rr c m	c Nbst m	c b c p b	b c ^o lu-ha b c
14	2.9	0.25	2.5	0.21	SSE	SSE	2.2	0.17	225	c d _o c	id _o c Ast	c Ast Acu so-ha r _o	c r _o r c
15	3.9	0.34	2.1	0.18	SW	SW:Calm	3.0	0.23	270	c b _o c	r c b Ci Ast bc p t	t l Nbst Cumb c bc so-ha b	b c
16	0.0	0.00	0.0	0.00	E:ESE	E:SE:SSE	5.3	0.88	358	c d r _o	c Nbst Frst r _o	c r _o r _o r	rr c rr _o
17	5.7	0.50	5.7	0.50	S:Calm	SSW:Calm	1.2	0.05	154	rr _o	c rr _o Nbst c	c Nbst Stcu p _o bc	bc b c
18	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	57	c m	c St rr m	rr c Nbst Stcu r m	r c rr
19	0.0	0.00	0.0	0.00	W	WSW	1.8	0.19	325	r c rrs	is _o r _o Nbst Stcu m	c Stcu is _o	rs r _o s _o c
20	9.5	0.82	8.1	0.71	WSW:W	W:WSW	4.0	0.68	393	c	c Stcu	c Acu Stcu Frst s _o y b	bc c b
21	7.8	0.68	7.8	0.68	WSW	WNW:W	1.4	0.07	268	b bc x m	bc b Frcu m b y	b c Frcu Stcu y	c b c b m
22	1.6	0.15	0.8	0.08	WSW:Calm	S:SE:E	0.7	0.03	199	bc b m x	bc c Cist so-ha y	c Cist so-ha c Ast r _o	rr _o c
23	8.3	0.76	7.1	0.64	NE:Calm:NNW	WNW:WSW	1.2	0.04	214	c m x	c b Acu m	b bc Stcu Cu y	b m
24	2.5	0.23	1.7	0.15	Calm:NNW	NW:NNW	1.0	0.07	182	bc m f	b f c Nbst Stcu	c b Frcu y c	c
25	8.7	0.79	8.1	0.74	NNW:Calm	NNW:NE:E	0.4	0.03	180	c b c m x	c b Acu m bc Frcu y	c Stcu Frcu y	c b
26	2.7	0.25	2.4	0.22	Calm	SE:SSE	1.0	0.06	157	bc b c b m x	b Cist m c Frcu y	c bc c Stcu y c	b bc c
27	0.8	0.08	0.3	0.03	S:SSW	SW	6.0	1.44	450	c r _o	ro _o rr _o d _o Nbst	c r _o r _o id _o Nbst	c ldd _o
28	8.8	0.80	8.4	0.76	SW	SW	5.9	1.83	469	c id	c Nbst Cumb Ast	c Frcu Cist so-ha bc y	bc b
Means	4.0	0.34	3.4	0.29	..	..	..	0.37	266				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 37°.4, being 0°.3 lower than
 The mean *Temperature of the Dew Point* for the month was 34°.4, being 0°.6 lower than
 The mean *Degree of Humidity* for the month was 81.7, being 1.9 less than
 The mean *Elastic Force of Vapour* for the month was 0.199 in., being 0.005 less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.6.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.158. The maximum daily amount of *Sunshine* was 4.8 hours on February 21.
 The highest reading of the *Solar Radiation Thermometer* was 97°.9 on February 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 13°.5 on February 5.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.8, S.26, W.30, calm or nearly calm conditions, 26, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 6.0 lbs. on the square foot on February 27. The mean daily *Horizontal Movement of the Air* for the month was 266 miles; the greatest daily value was 469 miles on February 28, and the least daily value was 57 miles on February 18.
Rain (0.005 in. or over) fell on 19 days in the month, amounting to 1.786 in., as measured by gauge No. 6 partly sunk below the ground; being 0.306 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
	Mean of 24 hourly Values (corrected and reduced to 32° Fahrenheit)	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				
Mar. 1	29.617	53.1	42.0	11.1	46.7	+ 6.3	43.3	39.0	7.7	13.4	3.7	74	100.9	33.4	41.6	0.020	4.3	10.9
2	29.384	51.5	41.0	10.5	47.4	+ 7.0	44.8	41.7	5.7	16.1	2.0	80	101.9	35.0	41.7	0.284	2.7	11.0
3	29.382	52.8	39.7	13.1	43.9	+ 3.4	42.1	37.5	6.4	15.0	1.2	78	99.9	30.4	42.0	0.048	4.2	11.0
4	29.234	48.3	31.2	17.1	39.4	- 1.3	37.3	34.0	5.4	15.2	0.0	81	104.1	21.9	42.2	0.000	2.8	11.1
5	29.350	47.9	30.1	17.8	39.6	- 1.3	36.6	31.5	8.1	17.1	0.0	73	82.9	23.0	42.4	0.000	5.8	11.1
6	29.289	41.1	36.4	4.7	39.8	- 1.2	39.0	37.8	2.0	4.7	0.0	93	46.7	31.1	42.4	0.537	0.0	11.2
7	29.256	46.7	35.6	11.1	40.9	- 0.1	40.4	39.6	1.3	2.0	0.0	95	46.5	36.0	42.4	0.464	0.0	11.3
8	29.384	51.0	39.6	11.4	46.1	+ 5.0	43.5	40.2	5.9	12.3	1.4	80	98.2	32.4	42.5	0.090	4.7	11.4
9	29.572	44.9	34.3	10.6	39.1	- 1.9	38.0	36.3	2.8	5.6	0.0	90	65.0	27.1	42.4	0.090	0.0	11.4
10	29.623	50.9	34.1	16.8	41.1	+ 0.2	39.2	36.5	4.6	12.3	0.8	83	102.0	32.2	42.7	0.009	4.2	11.5
11	29.881	45.0	39.0	6.0	41.0	- 0.0	39.1	36.4	4.6	7.7	2.5	83	101.5	31.9	42.7	0.000	1.6	11.5
12	29.926	41.7	36.3	5.4	38.8	- 2.3	36.8	33.6	5.2	13.0	1.3	81	65.7	33.0	42.6	0.000	0.0	11.6
13	29.857	48.0	35.6	12.4	41.1	- 0.2	36.9	29.9	11.2	19.1	4.8	64	101.7	29.0	42.8	0.000	9.9	11.7
14	30.012	55.0	35.4	19.6	43.4	+ 1.9	38.9	31.7	11.7	24.9	1.7	63	108.9	26.1	42.8	0.000	9.3	11.7
15	30.160	44.6	33.2	11.4	38.4	- 3.3	37.3	35.6	2.8	5.9	0.3	90	88.1	22.0	42.7	0.000	2.9	11.8
16	30.183	47.1	31.1	16.0	37.2	- 4.7	36.0	34.0	3.2	8.7	0.0	89	83.1	24.1	42.5	0.000	5.0	11.9
17	30.190	42.1	31.3	10.8	37.4	- 4.6	36.1	34.0	3.4	7.5	0.0	88	55.7	31.0	42.6	0.000	0.0	11.9
18	30.201	53.4	28.8	24.6	40.6	- 1.4	37.0	31.2	9.4	23.0	0.0	68	106.9	20.0	42.7	0.000	9.1	12.0
19	30.208	50.4	29.7	20.7	37.5	- 4.4	34.7	30.0	7.5	35.4	0.0	74	100.9	19.5	42.6	0.000	5.7	12.1
20	30.224	48.4	27.9	20.5	38.1	- 3.8	35.8	31.9	6.2	13.9	0.0	78	86.9	19.5	42.6	0.000	2.8	12.1
21	29.970	55.6	32.2	23.4	44.8	+ 2.9	41.2	36.0	8.8	14.3	1.5	71	106.9	22.7	42.6	0.000	2.5	12.2
22	29.781	50.9	41.4	9.5	46.4	+ 4.4	44.9	43.1	3.3	5.2	0.9	88	61.1	40.1	42.7	0.050	0.0	12.3
23	29.729	49.4	30.6	18.8	42.3	+ 0.1	39.9	36.3	6.0	11.4	1.5	79	90.3	22.6	42.7	0.094	0.7	12.3
24	29.890	46.5	27.0	19.5	38.0	- 4.4	35.2	30.5	7.5	17.3	0.0	74	84.4	18.1	42.8	0.000	1.4	12.4
25	29.751	52.7	43.5	9.2	48.1	+ 5.4	45.5	42.5	5.6	12.2	3.5	80	96.6	40.0	43.0	0.352	0.9	12.5
26	29.570	54.1	42.8	11.3	48.7	+ 5.7	46.5	44.1	4.6	11.8	0.9	83	103.4	34.4	43.0	0.563	0.5	12.5
27	29.516	55.6	42.0	13.6	48.3	+ 5.0	45.2	41.3	7.0	11.8	0.9	77	109.8	34.1	43.2	0.000	5.0	12.6
28	29.303	52.7	39.4	13.3	45.1	+ 1.4	43.4	41.2	3.9	9.9	0.0	86	91.4	28.1	43.4	0.075	0.5	12.7
29	29.473	41.3	34.0	7.3	38.0	- 6.1	35.7	31.8	6.2	8.5	3.6	78	67.4	31.0	43.4	0.000	0.1	12.7
30	29.597	42.8	27.6	15.2	35.8	- 8.7	32.1	25.4	10.4	19.7	2.2	63	92.9	17.3	43.6	0.000	5.8	12.8
31	29.607	48.0	25.4	22.6	36.5	- 8.4	31.8	23.9	12.6	23.6	0.0	56	107.7	15.1	43.7	0.000	6.0	12.8
Means	29.714	48.8	34.8	14.0	41.6	- 0.3	39.1	35.4	6.2	13.5	1.1	78.7	89.0	27.8	42.7	Sum 2.676	3.2	11.9
No. of Col. for Ref.	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 29.714 in., being 0.039 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 55° 6 on March 21 and 27; the lowest in the month was 25° 4 on March 31; and the range was 30° 2.

The mean of all the highest daily readings in the month was 48° 8, being 0° 4 lower than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 34° 8, being 0° 8 lower than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 14° 0, being 0° 4 greater than the average for the 65 years, 1841-1905.†

The mean for the month was 41° 6, 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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 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
Mar. 1	0.3	0.02	0.0	0.00	SW	SW	9.0	1.54	442	b	b bc Frst p p	c Nbst Ci Cicu q	c
2	6.3	0.59	5.4	0.50	SW:WSW	WSW:SW	11.2	1.42	378	d o c ir	c Nbst rrr c FrCu Acu	c FrCu Cicu Acu y	c bc
3	6.3	0.59	6.1	0.56	SW:WSW	SW	3.2	0.16	309	bc b c b	b c Acu Stcu	c FrCu Stcu Ast y t p c	b c r c
4	6.2	0.58	3.4	0.32	Calm	N: Calm:WNW	0.5	0.01	119	c b x	b FrCu Stcu f c Cund g m	c Stcu Cund Acu m b	b c m
5	0.0	0.00	0.0	0.00	WSW:SW	WSW:SSW	1.5	0.05	236	c b m x	bc Ast FrCu Cist so-ha m	c Stcu FrCu Cist so-ha y c	c
6	0.0	0.00	0.0	0.00	Calm	Calm:NNE	0.7	0.01	114	c rr m	rr Nbst m f g	rr g f c Nbst d o d o mf	rr mf
7	0.0	0.00	0.0	0.00	NNE:N	NE:ENE	1.9	0.06	255	rr mf	rr Nbst ff	rr r r o ff	rr ff c m
8	6.4	0.63	5.5	0.54	E:ESE	SE:E	0.4	0.06	224	c rr c	c Stcu Acu	c b	b c b m
9	0.0	0.00	0.0	0.00	Calm	NNE: Calm	0.0	0.00	148	b c x m ff	f F c Ast f	c f m	r o r rr
10	7.9	0.77	7.7	0.75	Calm:E	E	1.4	0.09	192	c i r o m	c b Acu Ci FrCu m	b c Acu Stcu Ci b	b o
11	0.0	0.00	0.0	0.00	ENE:E	E	3.4	0.28	315	b c	c Nbst FrCu Stcu	b c	c
12	10.3	1.00	10.3	1.00	E	E:ESE	4.4	0.59	369	c m o	c St m o	c St b	b
13	10.3	1.00	10.3	1.00	ESE	E	4.0	0.77	344	b x o	b Ci Acu y	b y	b
14	10.3	1.00	9.9	0.96	E: Calm	E: Calm	1.3	0.13	231	b x m	b Ci y	b bc Ci b y	b
15	0.0	0.00	0.0	0.00	Calm:E	E: Calm	0.6	0.03	165	b x bc	bc c f Stcu m o	c b St m o	b o m
16	0.0	0.00	0.0	0.00	Calm	Calm:ESE	0.6	0.01	107	o f w Fe	FeFe c b f	b f	b f x o m
17	3.0	0.31	2.5	0.26	E:ENE	ENE:E	1.3	0.16	219	o m	o St d o c m	c Stcu	c
18	9.7	1.00	9.7	1.00	ENE: Calm	SE:ESE: Calm	0.8	0.05	156	c b x	b f x m o b y	b y	b m
19	..	..	..	..	Calm	ESE	1.2	0.07	158	b ff x	FeFe f b m	b y	b c f
20	9.4	0.96	7.5	0.77	Calm	Calm:SW	0.1	0.00	105	c ff x	c St f m	c Stcu St b m o	b m
21	0.3	0.03	0.3	0.03	WSW:W	WNW: Calm	3.2	0.31	279	b bc	c Acu Cicu so-ha m	c Stcu Nbst y D o m o	c b c m o
22	0.0	0.00	0.0	0.00	Calm	Calm:WSW	1.9	0.10	151	c dd ff	dd d o ff	d o c ir	c ir r o c
23	9.3	1.00	9.3	1.00	WSW:NE	NNE: Calm	2.3	0.16	230	c	c Nbst rrr rs c Stcu	c Nbst Stcu b	b
24	0.4	0.04	0.0	0.00	Calm:WSW	SW	3.0	0.14	233	b m x	b so-ha prhn c Acu m	c Ast FrCu Nbst r o c y	ir o c
25	..	..	..	..	WSW:W	WSW:SW	6.0	0.47	344	c	c bc c Stcu	c Stcu rr	rr
26	4.8	0.52	3.8	0.41	SW:WSW	Calm	5.0	0.52	255	rr c b	b c Ast Frst Acu	c Nbst rrr	rr f c b c
27	5.0	0.54	4.6	0.50	Calm:SW	SW: Calm	2.8	0.11	224	c b bc	bc c St b	b c Frst Stcu b m	b c b m
28	0.0	0.00	0.0	0.00	Calm	Calm:NNE	1.4	0.05	123	b bc f w	c Acu f w c FrCu Ast	c Stcu Cund r t l c	c rr c
29	2.9	0.34	2.9	0.34	NNE:N	NNE:NE	4.0	0.42	301	c	c	c ir d d o c	c d o c
30	8.6	0.99	8.6	0.99	NNE:NE	NE: Calm	2.5	0.26	268	c b	b bc Ci Frst c Stcu y	c Stcu y	c b
31	0.0	0.00	0.0	0.00	Calm:S	S:SE	3.0	0.16	233	b bc x	bc x FrCu Ci so-ha y	c Cist so-ha c Ast	c
Means	4.1	0.41	3.7	0.38	..	..	..	0.26	233				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 39°.1, being 0°.3 lower than
 The mean *Temperature of the Dew Point* for the month was 35°.4, being 0°.2 lower than
 The mean *Degree of Humidity* for the month was 78.7, being 0.6 greater than
 The mean *Elastic Force of Vapour* for the month was 0.207 in., being 0.002 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 7.0.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.267. The maximum daily amount of *Sunshine* was 9.9 hours on March 13.
 The highest reading of the *Solar Radiation Thermometer* was 109°.8 on March 27; and the lowest reading of the *Terrestrial Radiation Thermometer* was 15°.1 on March 31.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.25, S.15, W.16, calm or nearly calm conditions, 34, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 11.2 lbs. on the square foot on March 2. The mean daily *Horizontal Movement of the Air* for the month was 233 miles; the greatest daily value was 442 miles on March 1, and the least daily value was 105 miles on March 20.
Rain (0.005 in. or over) fell on 13 days in the month, amounting to 2.676 in., as measured by gauge No. 6 partly sunk below the ground; being 1.156 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 1941	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 Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
Apr. 1	29.137	41.1	35.7	5.4	38.7	- 6.6	37.5	35.7	3.0	7.6	0.0	89	59.6	35.1	43.5	0.310	0.0	12.9
2	28.990	45.1	40.0	5.1	42.5	- 3.2	41.6	40.4	2.1	4.4	0.0	92	60.6	38.1	43.5	0.264	0.0	13.0
3	29.192	51.6	38.4	13.2	44.2	- 1.8	41.7	38.3	5.9	11.0	0.9	80	107.2	35.1	43.5	0.016	5.1	13.0
4	29.535	51.2	38.8	12.4	45.1	- 1.1	42.3	38.5	6.6	14.1	1.2	78	102.7	31.0	43.5	0.278	5.8	13.1
5	29.757	50.0	35.8	14.2	41.9	- 4.4	40.3	38.1	3.8	8.3	0.0	86	90.7	27.1	43.6	0.023	1.3	13.2
6	29.942	41.0	36.9	4.1	38.6	- 7.7	35.0	28.8	9.8	14.3	4.8	67	58.7	34.0	43.5	0.000	0.0	13.2
7	30.211	44.1	32.8	11.3	38.6	- 7.7	34.3	26.7	11.9	16.1	7.5	61	70.6	25.1	43.6	0.000	0.1	13.3
8	30.262	45.5	33.0	12.5	39.0	- 7.1	34.8	27.5	11.5	15.8	6.4	62	100.9	23.1	43.6	0.000	2.8	13.4
9	30.229	44.1	33.1	11.0	37.4	- 8.6	33.3	25.9	11.5	20.2	6.2	61	82.9	23.2	43.5	0.000	1.9	13.4
10	30.295	45.2	29.5	15.7	38.7	- 7.2	35.0	28.6	10.1	15.8	1.3	66	97.9	21.1	43.4	0.000	3.4	13.5
11	30.111	52.8	35.4	17.4	44.7	- 1.1	40.6	34.4	10.3	14.6	4.6	67	99.8	28.9	43.3	0.000	0.7	13.6
12	29.948	58.8	46.0	12.8	52.3	+ 6.4	49.0	45.5	6.8	10.6	4.0	78	84.9	43.3	43.4	0.000	0.0	13.6
13	29.907	58.2	45.0	13.2	50.6	+ 4.5	46.6	41.9	8.7	15.0	2.6	72	101.7	38.7	43.6	0.000	0.3	13.7
14	29.701	53.1	43.4	9.7	49.2	+ 2.8	45.5	41.0	8.2	15.2	4.8	73	78.8	34.3	43.6	0.000	0.2	13.8
15	29.731	56.2	40.3	15.9	47.7	+ 0.9	43.1	36.9	10.8	24.9	2.2	66	110.7	31.2	44.0	0.000	5.0	13.8
16	29.770	58.4	36.2	22.2	47.8	+ 0.6	42.2	34.1	13.7	25.5	2.2	59	121.9	25.1	44.3	0.000	7.0	13.9
17	29.619	58.9	35.3	23.6	48.6	+ 1.0	42.8	34.6	14.0	24.2	2.0	59	121.4	24.0	44.5	0.000	6.4	14.0
18	29.336	56.8	41.8	15.0	48.2	+ 0.2	44.5	39.8	8.4	14.7	3.3	73	97.4	36.6	44.6	0.160	0.1	14.0
19	29.410	55.7	41.3	14.4	46.8	- 1.5	44.3	41.3	5.5	19.0	1.0	81	100.5	35.0	44.7	0.426	1.1	14.1
20	29.645	56.2	39.9	16.3	47.6	- 0.9	44.7	41.1	6.5	12.4	1.5	78	114.9	30.9	44.9	0.285	6.5	14.1
21	29.845	58.2	41.1	17.1	50.0	+ 1.3	46.0	41.2	8.8	19.1	1.5	72	112.7	32.3	45.0	0.000	3.9	14.2
22	29.940	50.3	37.5	12.8	43.9	- 4.8	42.4	40.5	3.4	5.5	1.2	87	111.9	27.4	45.2	0.000	1.6	14.3
23	29.994	46.7	35.7	11.0	42.3	- 6.3	38.7	33.2	9.1	15.0	3.3	69	82.9	28.6	45.1	0.000	0.3	14.3
24	30.016	46.1	33.3	12.8	39.5	- 9.1	35.4	28.3	11.2	22.4	4.0	63	107.9	26.2	45.3	0.010	2.2	14.4
25	29.771	52.6	37.2	15.4	43.6	- 5.0	37.4	26.8	16.8	33.7	6.9	50	110.5	31.1	45.3	0.000	6.4	14.5
26	29.632	50.6	38.2	12.4	43.4	- 5.2	38.2	29.7	13.7	19.3	6.2	58	113.4	33.0	45.3	0.000	10.2	14.5
27	29.576	47.0	38.8	8.2	41.8	- 6.9	37.0	28.8	13.0	19.9	7.5	60	116.4	34.4	45.2	0.000	1.4	14.6
28	29.660	49.6	37.3	12.3	43.3	- 5.5	38.1	29.5	13.8	22.4	6.0	58	86.9	37.1	45.2	0.000	0.0	14.7
29	29.847	49.9	39.2	10.7	43.7	- 5.3	40.1	34.7	9.0	14.5	3.9	71	99.9	36.0	45.3	0.000	1.6	14.7
30	29.667	57.9	40.2	17.7	49.1	- 0.0	44.8	39.4	9.7	19.0	3.3	69	124.5	34.9	45.5	0.024	1.6	14.8
Means	29.756	51.1	37.9	13.2	44.3	- 3.0	40.6	35.0	9.3	16.5	3.3	70.2	97.7	31.4	44.3	1.796	2.6	13.9
No. of Col. for Ref.	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 29.756 in., being 0.001 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 58° 8 on April 12; the lowest in the month was 29° 5 on April 10; and the range was 29° 3.

The mean of all the highest daily readings in the month was 51° 1, being 5° 0 lower than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 37° 9, being 1° 6 lower than the average for the 65 years, 1841-1905.†

The mean of the daily range was 13° 2, being 3° 4 less than the average for the 65 years, 1841-1905.†

The mean for the month was 44° 3, being 3° 0 lower than the average for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	POLARIS		δ 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 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
Apr. 1	0.7	0.09	0.4	0.05	SSE:SE	SE:ESE	4.0	0.49	293	c	c Nbst rr rs rc	rr Nbst r r ir	ir r
2	0.0	0.00	0.0	0.00	SE:ESE	E:Calm:SSW	1.3	0.11	230	rr c	c Nbst d o r	r r r id m	id
3	1.6	0.18	1.2	0.13	SSW	SSW	2.5	0.23	320	c rr	bc Prst Cumb c Cist so-ha	c so-ha c r Prcu Cumb bc	b bc lu-ha c
4	6.9	0.79	6.5	0.74	SW:WSW	SW:SSW	3.0	0.11	239	c p c rr c	b bc Prcu Acu c Ast	c Prst Cumb p h bc c	ir b m
5	0.0	0.00	0.0	0.00	Calm	Calm:NE	2.0	0.14	204	b c m	c St b c m f	c Nbst Cumb g rr f m	c m m o c
6	4.4	0.51	4.1	0.49	NE	NNE:NE	6.8	1.02	400	c	c Prst Ast y	c Stcu y	c
7	2.5	0.29	2.5	0.29	NNE:NE	NNE:NE	4.0	0.48	330	c b	bc c Prst Stcu y	c Stcu Prst	c
8	5.3	0.62	4.3	0.51	NE:ENE	NE:E	1.3	0.10	218	c b c	c Stcu y	c Cist Stcu so-ha c b	bc brsl
9	..	..	..	..	Calm:NE	NE	2.2	0.09	223	bc c	c Ast Prst y	c Acu Stcu b y	c
10	1.5	0.18	0.0	0.00	NE	NNE:Calm	0.9	0.05	176	c b x	b so-ha c Prcu Cumb y	c Ast Prst Stcu y	c m
11	0.0	0.00	0.0	0.00	WSW	WSW	1.0	0.09	226	c m	c Acu Cicu Stcu y	c so-ha y	c id c
12	1.7	0.22	1.3	0.16	WSW	NW:Calm:WSW	1.1	0.09	208	c m o	c Ast Stcu Prst m o	c Ast m o	c m bc
13	3.4	0.43	2.9	0.36	WSW	W:WSW	3.9	0.36	297	c	c so-ha Ast m o	c Stcu Ast Prst	c bc
14	7.3	0.92	7.3	0.92	WSW:SW	SW:WSW	4.7	0.54	340	bc c	c Ast Prst NbSt id	id Nbst c p c	bc b
15	7.9	0.99	7.9	0.99	WSW:NW	NW	2.0	0.14	240	b bc m	bc Stcu m c Prcu Cumb y	c bc Prcu Stcu y p o	bc b w
16	8.0	1.00	8.0	1.00	WSW	WSW:SW	1.2	0.08	227	b x	b Ci c Prcu Stcu y	c bc c y	c b w
17	0.0	0.00	0.0	0.00	Calm:S	S:Calm	1.0	0.04	198	b x	b Ci c Acu Stcu y	c r c Ast Stcu Cumb y	c y c
18	0.7	0.08	0.3	0.04	Calm:E	E:SE:Calm	2.9	0.17	217	c	bc Cist Acu so-ha y z o c	c Ast NbSt r rr c	c
19	2.4	0.32	2.4	0.32	Calm:WSW	WSW:SW	4.2	0.35	237	c	c rR NbSt r	c Stcu Ci so-ha bc y c	c ir c
20	6.1	0.81	5.6	0.74	WSW:SW	SW	5.6	0.38	262	c b	b bc Acu Prst c Nbst	c Cumb NbSt t h IR b	b c
21	7.5	1.00	7.5	1.00	WSW:NW	NW:Calm	1.1	0.12	172	c b c	c Stcu Prcu Cumb y	c Cist Prcu Cumb so-ha y b	b m
22	0.0	0.00	0.0	0.00	Calm:ESE	ESE:E	2.7	0.16	186	b m x	o m f o Ast m m o	c Ast Stcu m o	c
23	7.3	0.98	6.8	0.90	ENE	ENE:NE	4.2	0.81	337	c	c Prst Stcu y	c Ast y	c b
24	2.3	0.31	2.1	0.28	NE	NE:NNE	7.2	1.06	392	b c	c Prst Stcu y	c NbSt r c Stcu	c b y c
25	6.6	0.88	6.1	0.81	NNE:NE	NE	10.0	1.74	486	c	c bc Acu Prcu Ci q y	bc Ci Cist so-ha q y	bc y bc
26	0.1	0.01	0.0	0.00	NE:ENE	ENE:NE	6.0	1.21	415	bc	bc Prcu Ci so-ha bc y	bc Prcu Stcu c y	c y b c
27	0.0	0.00	0.0	0.00	NE:ENE	ENE:NE	4.5	0.57	315	c	c Stcu Acu y	c y	c
28	0.0	0.00	0.0	0.00	NE	Calm:NE	0.7	0.05	164	c	c Stcu y	c y	c
29	0.9	0.13	0.6	0.08	Calm:ENE	ENE	1.8	0.19	239	c	c Stcu Acu Prcu	c Prcu Stcu y	c bc
30	0.0	0.00	0.0	0.00	NE:ENE	ENE:NE:NNE	4.0	0.63	344	c	c Ci Ast so-ha	c so-ha	c r o ir
Means	2.9	0.37	2.6	0.34	..	..	..	0.39	271				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 40°.6, being 3°.3 lower than
 The mean *Temperature of the Dew Point* for the month was 35°.0, being 4°.6 lower than
 The mean *Degree of Humidity* for the month was 70.2, being 4.3 less than
 The mean *Elastic Force of Vapour* for the month was 0.204 in., being 0.040 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 8.2.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.185. The maximum daily amount of *Sunshine* was 10.2 hours on April 26.
 The highest reading of the *Solar Radiation Thermometer* was 124°.5 on April 30; and the lowest reading of the *Terrestrial Radiation Thermometer* was 21°.1 on April 10.
 The *Proportions of Wind* referred to the cardinal points were N.19, E.28, S.14, W.20, calm or nearly calm conditions, 19, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 10.0 lbs. on the square foot on April 25. The mean daily *Horizontal Movement of the Air* for the month was 271 miles; the greatest daily value was 486 miles on April 25, and the least daily value was 164 miles on April 28.
Rain (0.005 in. or over) fell on 10 days in the month, amounting to 1.796 in., as measured by gauge No. 6 partly sunk below the ground; being 0.230 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 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sun- shine	Sun above Horizon
		Of the Air					Of Evapo- ration	Of the Dew Point			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	Mean	Great- est	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	in.	hours	hours
May 1	29.646	57.3	42.7	14.6	49.1	- 0.2	46.0	42.2	6.9	12.9	2.1	77	96.4	40.3	45.5	0.090	0.9	14.8
2	29.856	59.0	38.3	20.7	48.5	- 1.0	45.1	40.9	7.6	12.4	1.8	75	118.8	31.5	45.6	0.238	4.0	14.9
3	30.106	48.6	36.4	12.2	42.0	- 7.8	37.2	29.1	12.9	20.1	5.5	60	121.9	24.5	45.7	0.000	8.5	14.9
4	30.118	56.8	31.4	25.4	44.7	- 5.3	38.6	28.5	16.2	30.5	1.7	52	110.2	16.2	45.9	0.000	13.5	15.0
5	30.016	51.9	37.4	14.5	45.4	- 4.9	40.9	34.3	11.1	14.7	7.1	65	94.0	25.0	45.9	0.000	2.2	15.0
6	29.935	49.0	35.0	14.0	43.0	- 7.5	38.4	30.9	12.1	18.6	3.0	62	83.9	20.1	45.9	0.000	0.2	15.1
7	29.950	51.4	38.3	13.1	43.9	- 6.8	38.6	30.0	13.9	24.2	6.2	57	107.6	28.1	45.9	0.000	3.4	15.2
8	30.017	49.6	34.2	15.4	42.2	- 8.8	37.5	29.7	12.5	20.1	3.0	61	97.4	22.6	46.0	0.000	0.3	15.2
9	29.956	49.8	33.9	15.9	42.5	- 8.7	37.2	28.3	14.2	24.2	4.0	57	105.3	25.2	45.9	0.000	7.5	15.3
10	29.978	50.8	34.3	16.5	43.2	- 8.3	38.3	30.2	13.0	20.8	3.8	60	120.4	22.9	46.0	0.000	6.7	15.3
11	30.109	56.3	32.3	24.0	46.0	- 5.8	40.2	31.0	15.0	25.3	1.2	56	117.3	19.0	46.0	0.000	9.1	15.4
12	30.093	65.6	39.7	25.9	52.4	+ 0.3	46.2	38.5	13.9	26.0	3.4	59	119.9	33.3	46.2	0.000	5.0	15.4
13	30.018	61.4	49.4	12.0	53.9	+ 1.5	48.3	41.9	12.0	20.6	5.8	64	107.9	41.0	46.1	0.000	0.4	15.5
14	29.894	55.8	42.0	13.8	50.2	- 2.4	45.9	40.8	9.4	13.3	4.1	70	85.6	39.7	46.3	0.065	0.0	15.6
15	29.872	49.5	32.7	16.8	42.5	-10.3	38.4	31.9	10.6	20.8	2.6	66	103.9	22.0	46.5	0.000	2.4	15.6
16	29.857	59.9	31.2	28.7	46.5	- 6.5	39.8	29.1	17.4	30.9	1.1	50	116.0	19.1	46.8	0.000	13.0	15.7
17	29.695	65.0	37.8	27.2	52.0	- 1.1	44.7	34.6	17.4	28.3	3.8	51	130.0	26.1	46.9	0.000	8.7	15.7
18	29.434	66.6	38.4	28.2	52.7	- 0.6	45.2	34.9	17.8	31.7	3.0	51	126.6	28.0	47.0	0.033	6.9	15.7
19	29.412	58.4	45.1	13.3	51.6	- 1.9	47.8	43.5	8.1	13.9	2.9	74	106.4	36.0	47.1	0.000	3.2	15.8
20	29.733	53.6	43.2	10.4	49.8	- 4.0	47.6	45.2	4.6	6.5	2.6	84	67.8	34.0	47.3	0.000	0.0	15.8
21	29.865	70.1	39.4	30.7	54.3	+ 0.1	48.2	41.1	13.2	31.8	0.7	61	122.2	28.8	47.6	0.010	6.0	15.9
22	29.680	68.0	50.3	17.7	57.1	+ 2.5	52.3	47.7	9.4	20.3	3.1	71	128.0	49.0	47.9	0.024	4.6	15.9
23	29.365	59.7	50.0	9.7	53.9	- 1.0	50.1	46.2	7.7	15.5	3.1	75	98.4	44.0	47.9	0.120	2.7	16.0
24	29.519	57.9	45.3	12.6	50.6	- 4.7	47.4	43.8	6.8	17.3	2.0	77	112.9	38.1	48.1	0.170	1.9	16.0
25	29.335	57.5	46.3	11.2	51.4	- 4.1	48.4	45.2	6.2	13.4	1.6	79	106.4	39.7	48.3	0.383	0.1	16.1
26	29.075	56.1	43.4	12.7	50.0	- 5.8	48.1	46.0	4.0	7.8	0.9	87	112.4	34.7	48.6	0.341	2.5	16.1
27	29.330	58.3	46.9	11.4	51.3	- 4.7	48.6	45.7	5.6	12.9	1.6	81	109.9	38.0	48.7	0.205	3.4	16.1
28	29.477	66.0	44.3	21.7	56.6	+ 0.4	51.1	45.4	11.2	21.7	0.8	66	127.9	35.2	49.0	0.000	11.5	16.2
29	29.508	58.3	47.3	11.0	53.5	- 2.9	51.0	48.6	4.9	8.2	1.9	83	78.3	40.8	49.0	0.160	0.0	16.2
30	29.668	57.6	50.6	7.0	53.9	- 2.8	52.7	51.6	2.3	3.9	1.0	92	74.9	49.1	49.1	0.085	0.0	16.2
31	29.906	59.2	46.4	12.8	51.6	- 5.5	50.2	48.8	2.8	6.8	1.2	90	83.5	38.6	49.2	0.000	1.4	16.3
Means	29.756	57.6	40.8	16.8	49.2	- 3.8	44.8	38.9	10.3	18.6	2.8	68.2	106.2	32.0	47.0	Sum 1.924	4.2	15.6
No. of Col. for Ref.	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 29.756 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 70°.1 on May 21; the lowest in the month was 31°.2 on May 16; and the range was 38°.9.

The mean of all the highest daily readings in the month was 57°.6, being 4°.6 lower than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 40°.8, being 3°.4 lower than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 16°.8, being 1°.2 less than the average for the 65 years, 1841-1905.†

The mean for the month was 49°.2, being 3°.8 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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				
					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
May 1	..	..	..	..	NNE	NE:NNE	1.8	0.13	245	c 1r	c Stcu Nbst	c Stcu	c
2	7.0	1.00	7.0	1.00	N:NE:ENE	ENE:NE	5.2	0.57	324	c rR	rR Nbst d _o c bc Stcu	bc c Stcu Frcu Ci b	c b y
3	6.3	1.00	6.3	1.00	NE:ENE	ENE:E	3.5	0.36	282	b	b c Stcu y	c b y	b
4	6.3	1.00	6.3	1.00	Calm	Calm:SW	0.2	0.00	131	b x	b z _o y	b z _o y	b z _o y
5	3.7	0.59	3.2	0.52	Calm:NE	NE:NNE	0.4	0.03	209	b bc x	bc c Ast Frst y	c Ast Frcu Stcu y	c b
6	2.9	0.46	2.6	0.42	NNE:N	N:NNE	2.2	0.13	229	b x	b bc c Stcu y	c Stcu y	bc b bc b c
7	4.0	0.64	3.8	0.61	NNE	NNE:NE	2.4	0.33	267	c	c Stcu Frst y	c Stcu bc y	bc y c b
8	5.8	0.93	5.6	0.90	Calm:NE	ENE:E	1.6	0.09	225	b x	bc c Ci Stcu y	c Stcu y	c b lu-ha
9	6.3	1.00	6.3	1.00	NE	NE:E	2.5	0.24	261	b lu-ha	b bc Cu Frcu c Stcu y	c Acu Stcu y	c b
10	5.7	1.00	5.7	1.00	NE	NE:Calm	2.9	0.19	221	b	b bc Cu Frcu c Stcu y	c Stcu y	b
11	2.8	0.48	0.8	0.14	Calm	N:Calm	0.7	0.05	156	b x	b bc Ci Frcu c Cist z y	c Ci Cist Frcu y b	b y bc c
12	0.0	0.00	0.0	0.00	Calm	NNW	2.7	0.25	206	c m	c bc m Acu Cicu b z _o	b Frcu c Cumb Nbst z _o by	b y c
13	0.0	0.00	0.0	0.00	Calm:W	W:NW	2.1	0.15	211	c m	c Stcu m _o c y	c Stcu y	c
14	0.0	0.00	0.0	0.00	W:WSW	NW:NNE:E	1.0	0.12	217	c z _o	c Acu Stcu Frst z _o y	c Stcu St z _o	c rr c
15	5.7	1.00	5.7	1.00	ENE:NE:NNE	N:Calm	1.9	0.21	194	c 1r _o	c Nbst Cumb 1r _o c y	c Cumb Frcu so-ha b y	b
16	5.7	1.00	5.7	1.00	Calm:SW	WNW:WSW:SW	2.6	0.20	263	b x	b Frcu Acu y	b Frcu bc y	bc b y
17	5.3	1.00	5.3	1.00	SW:Calm	SW:Calm	0.8	0.03	138	b x	b Frcu bc Cu y	bc c Cu Frcu b y	b
18	0.0	0.00	0.0	0.00	Calm:NE:E	ESE:NNW	2.0	0.12	168	b	b bc Cicu Acu y	bc c Cist so-ha Ast Frcu y	c 1r _o rrc
19	1.5	0.28	0.9	0.18	Calm:NW	NW:Calm	1.2	0.08	200	c m _o	c St m _o z _o	c b Frcu bc c z _o	c
20	5.3	1.00	5.3	1.00	Calm	NNW:Calm	0.2	0.02	152	c b _o m _o	o St m _o	o m _o	o m _o b f
21	0.0	0.00	0.0	0.00	Calm:SW	SW	5.3	0.52	290	b mfw m _o	bc Cist Acu so-ha Cumb y	c Cist Cicu so-ha y	p c d _o c
22	0.0	0.00	0.0	0.00	SW:WSW	SW:SSW	6.0	0.63	322	c	c Ci Cist Frcu so-ha y	c Ast Cist Acu-i-so-ha y	1d _o 1rr _o
23	2.9	0.54	2.8	0.53	SW:WSW	W:WSW	5.7	1.08	406	1r r _o	1r _o d _o	c 1r Nbst Cumb p c y	c b _o bc
24	4.3	0.87	4.1	0.82	WSW:SW	SSW:SW	4.0	0.78	358	bc b	b c Frcu Acu Ci y c	c Ast Stcu r _o rr	rr c b
25	0.7	0.15	0.7	0.15	SW	SSW:SE	3.7	0.38	265	b bc c	c Frst Acu Cumb	c Ast Cu Frcu d rr	rR c
26	0.3	0.05	0.2	0.04	SSW:Calm:S	SSE:SW	2.0	0.20	207	c d _o	c Ci Acu Ast Cumb p 1r t	1r Nbst Cumb b c	c R c
27	4.5	0.90	4.4	0.88	SW:SSW	S:SSE:Calm	3.0	0.19	218	c R _o c	c Nbst Cumb r 1r _o Stcu Frcu	c Stcu Frst Ast rr c	c 1r _o b
28	4.6	0.91	4.6	0.91	Calm:E	E:ENE	3.5	0.37	233	b	bc Cu Acu Ci so-ha b y	bc Ci Acu so-ha y	c b
29	0.0	0.00	0.0	0.00	NE:NNE:N	Calm	1.3	0.06	149	b bc c w	c St	c Frst St m _o	r _o rr m f
30	0.0	0.00	0.0	0.00	Calm	Calm:NNE	0.4	0.02	86	rr c m f	cd _o St m f Nbst r _o m	r _o r c m f	o 1r _o f o
31	0.0	0.00	0.0	0.00	NE:NNE	Calm	0.1	0.01	123	o m _o	o St d _o d _o o m _o	c b m _o	b m _o o m f
Means	3.1	0.53	2.9	0.50	..	..	..	0.24	224				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 44°.8, being 4°.2 lower than
 The mean *Temperature of the Dew Point* for the month was 38°.9, being 5°.9 lower than
 The mean *Degree of Humidity* for the month was 68.2, being 5.7 less than
 The mean *Elastic Force of Vapour* for the month was 0.237 in., being 0.061 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 7.2.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.269. The maximum daily amount of *Sunshine* was 13.5 hours on May 4.
 The highest reading of the *Solar Radiation Thermometer* was 130°.0 on May 17; and the lowest reading of the *Terrestrial Radiation Thermometer* was 16°.2 on May 4.
 The *Proportions of Wind* referred to the cardinal points were N.23, E.18, S.12, W.16, calm or nearly calm conditions, 31, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 6.0 lbs. on the square foot on May 22. The mean daily *Horizontal Movement of the Air* for the month was 224 miles; the greatest daily value was 406 miles on May 23, and the least daily value was 86 miles on May 30.
Rain (0.005 in. or over) fell on 13 days in the month, amounting to 1.924 in., as measured by gauge No. 6 partly sunk below the ground; being 0.009 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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 Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Mean	Great-est	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				
June 1	30.031	56.9	45.5	11.4	51.6	- 5.8	49.3	46.9	4.7	8.6	0.8	84	110.9	42.0	49.5	0.000	2.6	16.3
2	30.018	54.0	44.3	9.7	48.5	- 9.3	45.1	40.9	7.6	10.0	5.4	74	85.9	43.6	49.5	0.000	0.0	16.3
3	29.988	52.7	44.4	8.3	48.5	- 9.6	46.5	44.3	4.2	7.9	0.8	85	65.4	38.0	49.7	0.038	0.0	16.4
4	29.915	73.3	51.2	22.1	60.4	+ 2.1	56.9	54.0	6.4	15.4	0.0	80	126.0	50.0	49.9	0.005	6.4	16.4
5	29.732	59.5	52.8	6.7	55.4	- 3.0	53.8	52.4	3.0	6.4	1.0	90	64.0	52.0	49.7	0.064	0.1	16.4
6	29.715	60.1	52.0	8.1	55.9	- 2.4	54.0	52.4	3.5	6.8	1.2	87	80.8	48.5	50.0	0.035	0.0	16.5
7	29.654	69.8	45.1	24.7	57.5	- 0.7	54.0	50.8	6.7	16.2	0.6	78	141.6	35.0	50.3	0.200	8.5	16.5
8	29.564	64.4	51.3	13.1	57.5	- 0.6	55.4	53.6	3.9	12.4	0.0	87	119.9	47.2	50.5	0.105	1.3	16.5
9	29.361	61.3	50.1	11.2	55.4	- 2.6	54.2	53.2	2.2	8.2	0.6	92	90.9	47.2	50.7	1.090	0.0	16.5
10	29.470	55.6	47.6	8.0	51.1	- 7.0	50.0	48.9	2.2	6.3	0.0	92	58.0	44.8	50.8	0.339	0.0	16.5
11	29.829	59.0	45.8	13.2	52.1	- 6.1	46.6	39.8	12.3	20.0	4.4	63	126.0	40.0	51.3	0.000	8.3	16.6
12	29.823	64.0	43.6	20.4	52.4	- 6.0	47.8	42.6	9.8	22.5	1.8	69	118.7	35.2	51.4	0.030	4.9	16.6
13	29.927	61.3	45.6	15.7	53.6	- 4.9	48.3	42.3	11.3	17.7	2.8	65	122.2	35.5	51.5	0.000	5.9	16.6
14	30.005	62.2	44.4	17.8	55.2	- 3.5	52.3	49.6	5.6	9.0	1.5	81	98.3	33.4	51.6	0.000	0.2	16.6
15	29.948	69.9	55.6	14.3	61.3	+ 2.5	55.8	51.0	10.3	18.1	3.0	69	124.4	48.0	51.6	0.000	6.7	16.6
16	30.106	75.0	52.1	22.9	63.7	+ 4.8	55.9	49.0	14.7	22.0	6.2	59	125.0	43.0	51.9	0.000	14.4	16.6
17	30.072	80.4	54.1	26.3	67.1	+ 8.1	59.8	54.2	12.9	20.9	2.7	63	135.8	43.5	52.1	0.000	14.6	16.6
18	29.966	83.4	52.5	30.9	68.5	+ 9.3	61.4	56.2	12.3	23.0	1.4	65	142.0	38.8	52.4	0.000	10.2	16.6
19	29.996	76.9	55.4	21.5	65.6	+ 6.1	60.2	56.1	9.5	16.6	1.1	72	132.0	47.7	53.0	0.000	13.1	16.6
20	30.009	80.7	53.7	27.0	66.0	+ 6.1	61.4	58.2	7.8	15.8	0.0	76	138.0	43.6	53.3	0.000	8.2	16.6
21	29.946	83.0	55.6	27.4	69.8	+ 9.5	63.3	58.9	10.9	19.0	1.9	68	136.9	46.1	53.9	0.000	13.2	16.6
22	29.820	89.9	59.4	30.5	76.3	+15.7	68.3	63.6	12.7	22.8	2.5	65	141.0	48.3	54.4	0.000	13.8	16.6
23	29.859	77.0	62.1	14.9	69.5	+ 8.6	62.1	56.9	12.7	20.0	6.9	64	134.0	53.0	54.7	0.000	10.3	16.6
24	29.910	76.5	58.4	18.1	67.6	+ 6.4	60.8	55.8	11.8	18.4	6.6	66	113.5	46.1	55.1	0.000	3.9	16.6
25	29.875	83.4	55.5	27.9	70.2	+ 8.8	61.6	55.2	15.0	26.5	1.3	59	138.0	42.2	55.6	0.000	14.2	16.6
26	29.963	76.6	57.4	19.2	66.5	+ 5.0	59.1	53.2	13.3	22.4	6.7	62	131.9	45.0	55.9	0.000	5.9	16.6
27	30.124	72.6	55.5	17.1	64.4	+ 2.8	56.2	48.9	15.5	21.2	7.3	57	139.0	45.7	56.1	0.000	8.0	16.6
28	30.101	69.8	55.7	14.1	63.7	+ 2.1	58.8	54.9	8.8	10.2	5.3	73	116.3	42.4	56.3	0.002	1.6	16.6
29	30.064	73.5	55.0	18.5	64.5	+ 2.9	57.6	51.9	12.6	21.0	3.9	64	132.0	43.0	56.5	0.000	11.8	16.6
30	30.014	74.1	51.4	22.7	62.0	+ 0.5	56.6	52.0	10.0	20.6	1.2	70	129.8	38.0	56.6	0.000	6.3	16.6
Means	29.893	69.9	51.8	18.1	60.7	+ 1.3	55.8	51.6	9.1	16.2	2.6	72.6	117.3	43.6	52.5	Sum 1.908	6.5	16.5
No. of Col. for Ref.	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 29.893 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 89°.9 on June 22; the lowest in the month was 43°.6 on June 12; and the range was 46°.3.

The mean of all the highest daily readings in the month was 69°.9, 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 51°.8, being 1°.4 higher than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 18°.1, being 0°.4 less than the average for the 65 years, 1841-1905.†

The mean for the month was 60°.7, being 1°.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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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				
					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	0.0	0.00	0.0	0.00	Calm:NNE	NE:ENE	1.1	0.07	180	o m f	d _o d _o c Stcu m _o	c Stcu	bc c
2	0.0	0.00	0.0	0.00	ENE:NE	NE	2.6	0.34	317	c	c St	c St	c
3	0.0	0.00	0.0	0.00	NE	NE:Calm	1.8	0.13	204	c	c St Nbstr _o r m	r r _o c m _o	c m f
4	0.0	0.00	0.0	0.00	Calm:ENE	E:Calm	1.7	0.11	180	c d f	c f m b Cu	b y c	c tlc
5	0.0	0.00	0.0	0.00	Calm:NE:E	E:Calm	1.3	0.08	198	c r _o r c	c r _o c Nbstr _o r _o c	o Nbstr d c	c id _o
6	3.0	0.66	3.0	0.66	SW:WSW	Calm	0.3	0.03	156	c id _o r _o	c St	c St	c b
7	0.0	0.00	0.0	0.00	Calm	Calm	0.3	0.01	138	b w	bc w c Acu Frcu Ci y	c Cu Cumb it r _o r c t	r _o t l rR b c
8	0.0	0.00	0.0	0.00	Calm	ESE:Calm	0.2	0.02	121	c r m	r c Stcu m _o c Nbstr _o	c Nbstr Cumb r r _o c r _o c	c b c m _o
9	0.0	0.00	0.0	0.00	ENE:E	ENE:Calm	1.2	0.09	210	c r _o m _o	c Ast Acu Stcu m _o	c r _o Nbstr rR	rRRR c R m _o
10	0.0	0.00	0.0	0.00	NE:NNE	N	4.4	0.54	331	R r r _o m _o	r ir r _o Nbstr	irr _o Nbstr c	c
11	4.0	0.89	3.6	0.80	N	NE:Calm:S	4.0	0.18	271	c	c bc Frcu Cu Ci y	bc c Stcu Cu so-ha y	bc
12	4.5	1.00	4.5	1.00	Calm	Calm:Var	0.7	0.01	153	bc w so-ha	bc c Ci Cist so-ha y	c Cist Frcu Ci y r _o	bc b m
13	0.0	0.00	0.0	0.00	W:NNW	NNW:NW:Calm	2.5	0.18	276	b c	c Frcu Acu Cumb y	c Frcu Cumb Acu y	c
14	0.0	0.00	0.0	0.00	SW:WSW	SW:WSW	3.7	0.37	333	c	c Ast Stcu r _o c	c	c
15	4.5	1.00	4.5	1.00	WSW:NW	NW:NNW	2.7	0.51	326	c	c Stcu Cu Ci y	c bc Frcu Cu y	bc b c b
16	4.5	1.00	4.5	1.00	NNW:Calm	NW:WSW	0.8	0.05	198	b	b z _o y	b Frcu bc Ci Cicu y	bc b
17	4.2	0.93	4.2	0.93	SW:Calm	SW:SSW	0.5	0.05	213	b w	b y	b Ci y	b bc
18	4.4	0.97	4.4	0.97	Calm	Calm:NE	0.9	0.02	173	b bc w	bc Acu Cu Frcu z _o y	bc Cu Frcu c y	c b
19	3.8	0.85	3.8	0.85	Calm:E	E:ESE	2.6	0.18	236	b w z _o	b Acu Ci z _o y	b Ci z _o y	b
20	4.5	1.00	4.5	1.00	Calm	ESE:Calm	0.6	0.05	172	b m f F	Ff b Ci y	b bc y	b m
21	4.4	0.98	4.3	0.97	Calm:E	E	1.3	0.10	218	b w	b bc Acu Ci y	b Ci y	bc b
22	3.2	0.70	3.0	0.67	Calm:SSE	SSW:SSE	1.7	0.08	204	b bc b	b Ci Frcu y	b Frcu Ci y	b
23	3.9	0.86	3.9	0.86	SW:WSW	SW	2.7	0.18	268	bc c	c bc y Acu Cumb Ci so-ha	bc so-ha Ci b y	b
24	4.2	0.94	4.2	0.94	Calm	Calm:NE	0.5	0.02	163	b c z _o	c Stcu z _o y	c Stcu bc z _o y	c t c b w
25	4.1	0.91	4.0	0.89	Calm:WSW	SW:WSW	2.2	0.10	227	b w	b z _o y	b Ci Frcu y	b c
26	3.8	0.84	3.8	0.84	WSW	W:WNW	1.5	0.11	242	c d	b c Acu Frcu y	c Frcu Stcu Cumb y	c y b
27	2.4	0.53	2.2	0.49	NNW	NNW	1.1	0.12	240	b	b c Frcu Cumb y	c Cumb Cu y	c b y c
28	0.0	0.00	0.0	0.00	Calm:NW	NW:N:NNE	0.7	0.05	211	c	bc c Stcu	c Stcu St	c r _o c
29	4.3	0.94	4.2	0.93	N	N:NE:Calm	1.6	0.14	243	c bc c	bc c bc St Cu Ci y	b Cu Ci y	b
30	4.2	0.93	3.8	0.85	Calm	Calm:SSW	0.3	0.02	167	b c w	c Stcu b Ci Frcu z _o y	b c Stcu bc so-ha y	bc b
Means	2.4	0.53	2.3	0.52	..	..	..	0.13	219				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 55°.8, being 0°.9 higher than
 The mean *Temperature of the Dew Point* for the month was 51°.6, being 0°.8 higher than
 The mean *Degree of Humidity* for the month was 72.6, being 0.6 less than
 The mean *Elastic Force of Vapour* for the month was 0.385 in., being 0.010 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 6.2.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.392. The maximum daily amount of *Sunshine* was 14.6 hours on June 17.
 The highest reading of the *Solar Radiation Thermometer* was 142°.0 on June 18; and the lowest reading of the *Terrestrial Radiation Thermometer* was 33°.4 on June 14.
 The *Proportions of Wind* referred to the cardinal points were N.19, E.18, S.12, W.17, calm or nearly calm conditions, 34, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 4.4 lbs. on the square foot on June 10. The mean daily *Horizontal Movement of the Air* for the month was 219 miles; the greatest daily value was 333 miles on June 14, and the least daily value was 121 miles on June 8.
Rain (0.006 in. or over) fell on 9 days in the month, amounting to 1.908 in., as measured by gauge No. 6 partly sunk below the ground; being 0.130 in. less than the average fall for the 65 years, 1841-1906.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean			Greatest	Least				Highest in Sun's Rays	Lowest on the Grass
July 1	30.035	83.8	55.0	28.8	69.2	+ 7.7	62.1	57.1	12.1	22.8	1.4	65	133.0	44.0	56.8	0.000	9.0	16.6
2	30.018	84.6	60.8	23.8	72.5	+10.9	63.3	56.9	15.6	28.6	2.7	58	141.0	49.1	57.0	0.000	11.8	16.6
3	29.872	83.0	57.9	25.1	70.4	+ 8.6	61.7	55.3	15.1	26.5	6.3	59	137.6	46.1	57.2	0.017	12.4	16.5
4	29.939	71.3	55.0	16.3	63.5	+ 1.4	55.5	48.3	15.2	27.5	2.8	57	135.0	45.0	57.2	0.000	9.6	16.5
5	30.028	80.0	51.3	28.7	66.1	+ 3.8	57.1	49.3	16.8	27.2	1.6	54	135.0	36.6	57.6	0.000	13.4	16.5
6	30.023	83.5	54.5	29.0	70.0	+ 7.6	59.1	50.0	20.0	34.8	6.7	49	138.8	41.6	57.8	0.000	15.4	16.5
7	29.927	88.5	55.0	33.5	73.6	+11.2	62.3	53.9	19.7	33.6	4.2	50	144.1	40.9	58.0	0.000	15.4	16.4
8	29.840	91.4	57.8	33.6	75.3	+12.9	65.7	59.4	15.9	27.0	3.3	58	151.0	42.3	58.2	0.000	10.4	16.4
9	29.793	83.5	63.1	20.4	73.1	+10.7	66.1	61.7	11.4	19.3	2.9	68	134.2	53.5	58.5	0.000	7.3	16.4
10	29.722	84.4	61.4	23.0	72.5	+10.0	64.5	59.2	13.3	25.1	4.2	63	137.0	49.0	58.5	0.000	9.8	16.4
11	29.547	88.8	60.5	28.3	74.8	+12.1	65.9	60.2	14.6	26.6	1.6	60	141.2	47.6	59.0	0.000	12.0	16.4
12	29.522	88.4	63.0	25.4	72.9	+10.0	67.4	64.1	8.8	23.8	2.9	74	150.8	49.5	59.3	0.772	7.4	16.3
13	29.544	74.5	59.6	14.9	67.3	+ 4.2	63.4	60.9	6.4	19.3	0.7	79	124.2	49.0	59.4	0.200	8.1	16.3
14	29.605	74.4	57.0	17.4	64.4	+ 1.1	58.4	53.6	10.8	20.5	2.2	68	139.0	46.0	59.7	0.010	7.9	16.2
15	29.440	67.1	56.4	10.7	60.7	- 2.7	58.3	56.4	4.3	9.7	0.0	86	110.5	50.3	59.7	0.319	2.0	16.2
16	29.713	64.7	56.0	8.7	60.4	- 3.0	56.9	54.0	6.4	10.0	3.5	80	96.9	45.4	59.7	0.000	0.6	16.2
17	30.021	72.5	52.4	20.1	61.0	- 2.4	55.0	49.6	11.4	20.8	1.9	66	138.2	44.1	59.7	0.000	7.3	16.1
18	29.900	65.2	55.2	10.0	59.8	- 3.5	57.4	55.4	4.4	9.7	1.6	86	104.9	49.1	59.7	0.373	0.0	16.1
19	29.815	67.2	52.4	14.8	58.0	- 5.2	54.6	51.5	6.5	16.3	2.6	79	130.0	47.1	59.6	0.270	3.3	16.1
20	29.849	66.3	51.7	14.6	58.8	- 4.4	53.4	48.3	10.5	17.8	2.4	68	118.9	43.0	59.6	0.000	6.9	16.0
21	29.952	70.3	48.5	21.8	59.8	- 3.4	55.3	51.3	8.5	15.0	0.8	73	117.7	38.0	59.5	0.000	4.5	16.0
22	29.772	77.5	52.3	25.2	64.2	+ 1.1	58.2	53.4	10.8	25.6	0.6	68	142.1	40.3	59.4	0.000	10.0	15.9
23	29.787	75.9	56.3	19.6	64.8	+ 1.8	59.5	55.4	9.4	21.8	1.6	72	120.7	44.0	59.4	0.000	6.9	15.9
24	29.846	81.5	52.3	29.2	67.5	+ 4.6	60.3	54.8	12.7	25.1	0.9	64	138.0	38.4	59.4	0.000	13.9	15.8
25	29.720	86.1	59.2	26.9	72.7	+10.0	65.2	60.3	12.4	24.9	2.8	65	141.0	46.2	59.6	0.000	7.8	15.8
26	29.648	69.0	62.5	6.5	66.1	+ 3.6	64.5	63.5	2.6	4.8	0.8	91	85.0	55.2	59.5	0.672	0.0	15.7
27	29.761	74.5	56.0	18.5	65.5	+ 3.1	60.1	56.0	9.5	19.8	3.3	72	129.2	54.1	59.8	0.010	7.9	15.7
28	29.763	75.0	58.1	16.9	65.4	+ 3.1	60.8	57.5	7.9	17.4	0.3	76	142.4	46.9	60.0	0.033	6.3	15.6
29	29.626	66.0	55.1	10.9	60.7	- 1.6	57.8	55.5	5.2	13.8	0.0	83	97.7	51.0	60.0	0.389	0.2	15.6
30	29.658	67.9	52.9	15.0	57.1	- 5.2	54.6	52.5	4.6	15.5	1.5	85	128.8	48.0	60.0	0.123	3.8	15.6
31	29.669	64.7	54.4	10.3	57.9	- 4.3	55.6	53.6	4.3	10.7	1.8	85	112.9	49.1	60.0	0.004	0.2	15.5
Means	29.786	76.5	56.2	20.3	66.0	+ 3.3	60.0	55.4	10.6	20.7	2.3	69.7	128.9	46.1	59.0	Sum 3.192	7.5	16.1
No. of Col. for Ref.	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 29.786 in., being 0.020 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 91° 4 on July 8; the lowest in the month was 48° 5 on July 21; and the range was 42° 9.

The mean of all the highest daily readings in the month was 76° 5, being 4° 4 higher than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 56° 2, being 2° 4 higher than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 20° 3, being 2° 0 greater than the average for the 65 years, 1841-1905.

The mean for the month was 66° 0, 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	POLARIS		δ URSAE MINORIS		GSLER'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					
July 1	4.2	0.94	4.1	0.92	SW	SW:SSW	1.0	0.06	209	b bc w	b Acu Ast Cu z ₀ y	b bc Cu y	b
2	4.5	1.00	4.5	1.00	SW:WSW	NW:W:WSW	1.8	0.13	234	b w	b w Frcu Cu z ₀ y	b Frcu z ₀ b y	b y
3	0.1	0.03	0.1	0.03	SW:WSW	W:WNW	1.7	0.23	274	b w b z ₀	b z ₀ y	b Acu y c	c id ₀ c r c
4	4.5	1.00	4.5	1.00	NNW	NNW: Calm	2.2	0.25	255	c b	b bc Cu Ci Stcu y	bc c Cu Stcu Ci y	c bc y b
5	4.7	1.00	4.7	1.00	Calm	SW	1.7	0.08	212	b w m	b z ₀ y	b Frcu y	b y
6	4.7	1.00	4.7	1.00	SW	SW:SSW	2.4	0.16	269	b	b Ci y	b Ci y	b y b
7	4.7	1.00	4.7	1.00	Calm:SSW	SSW	1.8	0.10	217	b	b y	b y	b y
8	..	..	..	..	Calm	SSW:N: Calm	3.0	0.05	171	b z ₀	b bc Acu Stcu Cicu z ₀ y	bc Frcu Cu Cumb t y	c bc b
9	4.7	1.00	4.7	1.00	N: Calm	N: NNE	0.8	0.07	208	b bc z ₀	bc c Acu Ci b z ₀ y	b bc Frcu c y	c b
10	4.7	1.00	4.7	1.00	Calm	SE: Calm	0.3	0.03	170	b z ₀	b z ₀ y	b Cu Frcu z ₀ bc y	b z ₀
11	2.7	0.56	1.0	0.22	Calm: E	E: Calm	0.7	0.08	199	b z ₀	b Ci Frcu Cumb z ₀ y	b Frcu Cumb y c t	t c bc
12	3.7	0.70	3.7	0.70	Calm: S	Var: Calm	6.8	0.04	176	bc	bc Ci Cu Acu y	c Cumb P c t l R c t	c bc
13	4.6	0.88	4.4	0.83	Calm: ENE: SSW	SSW: SE	4.6	0.30	234	bc	bc c Stcu Nbst t l R Cumb	c b Frcu y	b
14	1.1	0.21	1.1	0.21	S: SSW	S: SE	3.7	0.18	253	b bc c	bc Cicu Frct b Cu y	b c Nbst Cumb Cu v y	ir c bc c
15	0.6	0.12	0.5	0.09	SE: SSW	SW	3.4	0.33	286	c rr r ₀	c Acu Ci Cu Nbst r R c	d c Frcu Acu p	c
16	1.1	0.21	1.1	0.21	SW: WSW	W: WNW	1.5	0.17	272	c	c Stcu	c d c	c b c
17	0.7	0.14	0.4	0.08	W: Calm: SW	SW	1.1	0.09	238	c	bc c Acu Ci Cu	c Stcu Cu Acu Cicu y	bc so-ha c
18	0.7	0.13	0.6	0.11	SSW: SW	SW: WSW	4.2	0.46	318	c r ir ₀	c Ast Stcu Frst	c Nbst r rr ir	ir c
19	0.0	0.00	0.0	0.00	WSW	SW: S: Calm	1.4	0.06	231	c	c b c Acu Cicu Ci	c Ast Nbst r ₀ rr	rr d ₀ c
20	5.7	1.00	5.7	1.00	NNW: NW	NW: W	1.8	0.16	261	c b	b c Frcu Stcu y	c Acu Frcu y	c b
21	4.7	0.82	2.0	0.34	WSW	W: WSW	2.2	0.20	279	b w	b c Stcu Ci	c Stcu bc y	bc
22	5.5	0.96	5.5	0.96	Calm: SSW	Calm	0.2	0.01	178	bc w	bc c Cicu Acu Stcu	c bc Cu Ci c	c b
23	5.4	0.94	5.3	0.93	N: Calm	Calm: SW: SSW	0.6	0.02	174	b c w	b Frcu c z ₀ y	c bc Frcu Cumb y	b c b
24	4.8	0.83	4.7	0.81	Calm: SSW	SSW	1.3	0.04	184	b w	b bc Acu Ci y	bc Cu Frcu b y	b c
25	3.6	0.63	2.7	0.48	Calm: SSE	SSW: Calm	0.6	0.05	202	c b w	b c Acu Ast Stcu y	c b Acu c y	c p ₀ bc c l
26	0.0	0.00	0.0	0.00	Calm: Var	NNW	2.0	0.10	231	bc c r	r r it m ₀ c Ast r	ir ₀ r	RR ir ₀ c
27	3.3	0.52	3.1	0.50	WNW: W	NNW: WNW	3.0	0.16	270	ir c m ₀	c Stcu m ₀ bc Acu Cicu	bc Frcu y	bc c r c
28	0.0	0.00	0.0	0.00	Calm: WSW	WSW: SW	1.7	0.11	240	c b c	c bc Acu Frcu	bc c Stcu	c rr
29	0.8	0.13	0.6	0.10	WSW: NW	NW: WNW	2.4	0.21	291	c rr c	c id ₀ c Cumb Stcu Nbst	c Stcu Cumb	c rr c
30	0.6	0.10	0.0	0.00	WNW	W	5.4	0.13	269	c b	b c Frst Cumb	t ir rr	ir ₀ c
31	0.0	0.00	0.0	0.00	NW: N	NNW: N	1.1	0.09	241	c	c Nbst r ₀ c	ir ₀ Nbst c	c
Means	2.9	0.56	2.6	0.52	..	..	..	0.13	234				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 60°.0, being 2°.1 higher than
 The mean *Temperature of the Dew Point* for the month was 55°.4, being 1°.3 higher than
 The mean *Degree of Humidity* for the month was 69.7, being 3.5 less than
 The mean *Elastic Force of Vapour* for the month was 0.442 in., being 0.021 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 5.4.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.463. The maximum daily amount of *Sunshine* was 15.4 hours on July 6 and 7.
 The highest reading of the *Solar Radiation Thermometer* was 151°.0 on July 8; and the lowest reading of the *Terrestrial Radiation Thermometer* was 36°.6 on July 5.
 The *Proportions of Wind* referred to the cardinal points were N.15, E.4, S.25, W.35, calm or nearly calm conditions, 21, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 6.8 lbs. on the square foot on July 12. The mean daily *Horizontal Movement of the Air* for the month was 234 miles; the greatest daily value was 318 miles on July 18, and the least daily value was 170 miles on July 10.
Rain (0.005 in. or over) fell on 12 days in the month, amounting to 3.192 in., as measured by gauge No. 6 partly sunk below the ground; being 0.793 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sun- shine	Sun above Horizon
		Of the Air					Of Evapo- ration	Of the Dew Point			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	Mean	Great- est	Least		Highest in Sun's Rays	Lowest on the Grass				
Aug. 1	29.795	66.0	57.1	8.9	61.2	- 1.0	58.7	56.8	4.4	9.9	2.3	85	109.8	57.0	60.0	0.000	0.2	15.4
2	29.912	70.6	54.3	16.3	61.8	- 0.3	58.1	55.2	6.6	14.5	1.1	79	130.8	42.0	59.9	0.000	6.7	15.4
3	29.818	74.6	49.1	25.5	61.5	- 0.6	56.9	53.2	8.3	18.8	0.6	74	131.9	34.2	59.8	0.000	5.1	15.3
4	29.589	74.8	54.2	20.6	62.4	+ 0.3	59.4	57.1	5.3	14.5	1.0	83	129.2	41.8	59.7	0.597	1.2	15.3
5	29.468	62.8	52.6	10.2	56.7	- 5.4	51.7	46.7	10.0	23.3	2.3	69	128.6	46.3	59.6	0.045	7.9	15.2
6	29.709	63.2	51.9	11.3	56.2	- 6.0	51.1	45.9	10.3	14.8	2.5	69	124.0	46.1	59.6	0.074	4.8	15.2
7	29.744	64.9	45.1	19.8	56.7	- 5.5	51.5	46.3	10.4	19.7	0.6	68	130.0	33.6	59.6	0.000	7.3	15.1
8	29.628	60.5	49.4	11.1	55.3	- 7.0	54.1	53.1	2.2	4.8	1.0	92	75.8	43.2	59.3	0.388	0.0	15.1
9	29.741	69.2	50.3	18.9	59.1	- 3.2	54.8	51.0	8.1	18.9	0.8	74	135.2	40.4	59.5	0.240	6.8	15.0
10	29.663	69.1	57.2	11.9	63.1	+ 0.8	59.0	55.9	7.2	17.7	1.8	77	132.5	56.5	59.1	0.102	4.5	14.9
11	29.563	70.0	55.7	14.3	62.5	+ 0.1	60.2	58.6	3.9	10.0	1.0	87	127.8	49.0	59.2	0.478	3.1	14.9
12	29.662	67.4	52.4	15.0	59.2	- 3.3	53.8	48.7	10.5	21.8	1.0	69	130.0	44.9	59.3	0.039	10.8	14.8
13	29.620	63.9	53.6	10.3	58.7	- 3.8	56.4	54.5	4.2	7.0	1.9	86	122.5	48.6	59.2	0.155	0.3	14.8
14	29.606	69.0	54.5	14.5	60.8	- 1.7	55.4	50.6	10.2	17.5	2.2	69	130.0	49.6	59.4	0.000	5.3	14.7
15	29.371	63.8	53.7	10.1	59.5	- 2.9	58.1	57.1	2.4	4.3	0.0	92	81.5	50.0	59.2	0.372	0.0	14.7
16	29.391	65.7	50.2	15.5	58.6	- 3.7	54.1	50.0	8.6	14.9	2.7	73	129.4	44.0	59.2	0.000	12.1	14.6
17	29.482	66.0	52.4	13.6	58.9	- 3.2	55.3	52.2	6.7	12.8	1.0	78	127.3	45.7	59.2	0.033	8.4	14.6
18	29.590	68.0	54.0	14.0	59.5	- 2.4	55.8	52.7	6.8	15.4	0.9	78	132.4	45.0	59.2	0.527	6.3	14.5
19	29.782	69.6	51.2	18.4	57.9	- 3.8	53.8	50.1	7.8	22.0	0.6	75	140.4	40.0	59.4	0.180	9.4	14.4
20	29.689	66.6	51.5	15.1	57.6	- 3.9	54.1	50.9	6.7	16.6	1.0	78	137.4	41.0	59.1	0.056	6.3	14.4
21	29.632	69.7	49.4	20.3	59.0	- 2.3	54.8	51.1	7.9	17.1	1.0	75	138.0	39.0	59.3	0.068	9.2	14.3
22	29.632	67.9	52.1	15.8	58.8	- 2.3	54.9	51.5	7.3	15.5	1.5	77	126.5	46.4	59.3	0.004	5.4	14.3
23	29.620	61.0	52.2	8.8	56.7	- 4.2	55.9	55.2	1.5	2.9	0.0	95	66.9	41.9	59.0	0.507	0.0	14.2
24	29.751	65.4	54.1	11.3	59.1	- 1.7	56.7	54.8	4.3	9.5	1.3	86	102.8	46.2	59.1	0.000	0.7	14.1
25	29.682	72.1	54.1	18.0	62.6	+ 1.9	60.2	58.5	4.1	10.2	1.3	86	124.5	46.2	59.3	0.004	1.3	14.0
26	29.693	68.1	53.8	14.3	60.5	- 0.2	55.3	50.7	9.8	20.8	1.5	70	128.6	47.0	59.2	0.000	7.8	14.0
27	29.853	67.0	50.2	16.8	57.9	- 2.7	53.7	49.9	8.0	15.6	1.8	75	124.8	42.9	59.1	0.000	4.1	13.9
28	29.611	68.3	54.3	14.0	59.9	- 0.5	55.8	52.3	7.6	14.8	2.9	76	127.5	49.2	59.2	0.079	7.0	13.9
29	29.625	65.3	52.5	12.8	56.9	- 3.4	53.6	50.6	6.3	11.6	4.0	79	114.9	46.4	59.0	0.198	3.2	13.8
30	29.749	66.8	52.0	14.8	59.2	- 0.9	54.7	50.7	8.5	16.9	2.2	73	125.4	46.0	59.0	0.000	6.5	13.7
31	30.081	73.0	47.8	25.2	60.1	+ 0.2	55.4	51.2	8.9	19.8	0.0	73	127.7	35.9	59.1	0.000	11.7	13.7
Means	29.669	67.4	52.4	15.1	59.3	- 2.3	55.6	52.4	6.9	14.6	1.4	78.1	122.4	44.7	59.3	Sum 4.146	5.3	14.6
No. of Col. for Ref.	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 29.669 in., being 0.121 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 74°.8 on August 4; the lowest in the month was 45°.1 on August 7; and the range was 29°.7.

The mean of all the highest daily readings in the month was 67°.4, being 3°.4 lower than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 52°.4, being 1°.2 lower than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 15°.1, being 2°.1 less than the average for the 65 years, 1841-1905.†

The mean for the month was 59°.3, being 2°.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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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 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	0.0	0.00	0.0	0.00	Calm:NNE	N:NNE	3.0	0.20	229	c	c Stcu Frst	c Frcu Acu Stcu Nbst id _o	id _o
2	6.7	1.00	6.7	1.00	NNE	NNE:Calm	2.7	0.23	275	id _o	id _o c St	c b	b
3	6.7	1.00	6.7	1.00	Calm	Calm	0.1	0.00	149	b bc W	c Ast Cist Acu so-ha y	c Cist Ci y	c bc b
4	2.5	0.38	2.2	0.33	Calm:WSW	WSW:SW	5.5	0.30	301	b bc w	c Acu Ci Cu	c Nbst p rR	rR c
5	0.1	0.02	0.0	0.00	WSW:W	WNW:WSW	12.0	1.28	456	bc	bc Nbst Stcu p Cu Frcu	bc Cumb qp Frcu c	c rr _o
6	2.9	0.43	2.3	0.34	WNW:NW	W:WSW:SW	3.5	0.31	346	r c	c Acu Stcu Frcu y	c Nbst p c Acu Stcu Frcu	c p c
7	3.8	0.57	2.9	0.44	SW:NW	NW:WSW	1.0	0.04	224	c b W	b c Frcu Cumb y	c Frcu Stcu y	c
8	3.0	0.44	2.8	0.42	WSW:SE	Calm:NNW	0.6	0.02	189	c	rr dd Nbst m _o	dd id _o Nbst	id _o c b c
9	0.0	0.00	0.0	0.00	W:NW	W:SW	1.5	0.15	279	c bc	bc Ci so-ha Acu Frcu y	bc c Nbst y	c rR
10	0.0	0.00	0.0	0.00	WSW:W:WNW	W:SW:SSW	3.0	0.30	339	r c	c Frst Stcu Ci y	c bc Ci c y	r _o rR c
11	6.2	0.88	6.1	0.86	SW	SW	3.4	0.28	318	c	c rR Nbst c	c p bc c p	c P b
12	2.6	0.37	1.1	0.15	WSW:WNW	WNW:WSW	5.0	0.43	335	b	b bc Frcu Nbst Stcu Ci y	p bc Acu Frcu Cumb y	c bc c
13	3.1	0.44	2.8	0.40	SW	SW	9.0	1.42	433	c rr	r ir Nbst id _o	c Nbst	c r _o c
14	0.4	0.06	0.0	0.00	WSW:W	WSW:Calm	2.0	0.19	278	c bc	bc Ci Ast c Acu Frcu y	c CuStcu bc Cist so-ha y	bc c
15	1.8	0.26	1.5	0.22	Calm:SE:SSW	SSW	2.0	0.10	251	c r d	rr R rr Nbst	rr id _o Cumb	id _o c
16	6.9	0.92	6.6	0.88	SW:WSW	SW:SSW	4.5	0.55	366	c b	b bc Frcu c Stcu Nbst	c y bc	bc b
17	0.0	0.00	0.0	0.00	SSW:SW	SW:SSW	6.3	0.47	348	b c p b	bc Nbst Cumb so-ha p _o	c Ci Nbst p _o	c r _o r _o
18	6.3	0.84	6.1	0.82	Calm:NNW:W	WSW:SW	2.2	0.09	264	rr rR	rR ir bc Stcu Frcu Cumb	bc Frcu Acu c Cumb Ci	c b
19	3.6	0.48	2.8	0.38	SW:WSW	WSW:SW	5.7	0.15	272	b bc W	bc Ci Cist Cicu Acu y	bc Frcu Cumb Ci c yr	r c rr c b
20	5.4	0.72	4.7	0.63	SSW:WSW	WSW	2.5	0.05	245	b c	c bc Frcu Cumb Ci p	c Cumb Acu t l p _o c	c b c
21	2.4	0.32	2.3	0.31	WSW	SW	0.9	0.03	241	b w	b Frcu c Ci Cumb y	c bc Acu Frcu Cumb y	c rr c
22	5.5	0.73	4.9	0.66	WSW	WSW	2.3	0.25	324	c b c	c bc Acu Frcu c Nbst d _o	c Acu Stcu Cumb so-ha y	c bc p b
23	0.0	0.00	0.0	0.00	SW:Calm	SE:S:SW	0.6	0.06	215	b c	c rr Ast m _o	rr m _o	rr id _o m _o
24	0.4	0.05	0.2	0.03	W:NNW	Calm:S	2.5	0.10	210	id _o m _o	id _o Nbst c Stcu	c Stcu Nbst bc	bc c id _o
25	3.0	0.37	2.7	0.34	SSE:SSW	SW	2.7	0.22	276	id _o	id _o Nbst c	c Stcu Frst bc	bc c
26	8.0	1.00	8.0	1.00	SW:WSW	W:WSW	3.7	0.47	362	c bc w	bc c Stcu Frcu Cumb Ci y	c bc Frcu Cumb Acu by	b
27	2.4	0.30	2.2	0.27	WSW:SW	SW:SSW	4.0	0.44	333	b w	b c Frcu Acu Ci Cicu y	c Stcu Acu Frcu	bc c
28	7.8	0.97	7.7	0.96	SSW:SW	SW	6.2	0.91	410	c r c	c bc c Frst Stcu r _o	c Nbst Acu so-ha 1r bc	bc b
29	4.9	0.61	4.3	0.53	SW	WSW	6.0	0.57	380	b c	c Frst Stcu Nbst p _o	p c t l r Cumb bc	b bc
30	7.5	0.88	6.9	0.81	WSW:NW	NW	1.7	0.15	268	b c	c bc Frst c Stcu Cumb y	c Stcu Cumb y	c b c
31	8.5	1.00	8.5	1.00	Calm	W:Calm	0.4	0.02	191	b w m _o	b m _o b Frcu z _o	b bc b Frcu y	b
Means	3.6	0.49	3.3	0.44	..	..	..	0.32	294				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 55°.6, being 1°.9 lower than
 The mean *Temperature of the Dew Point* for the month was 52°.4, being 1°.9 lower than
 The mean *Degree of Humidity* for the month was 78.1, being 1.3 greater than
 The mean *Elastic Force of Vapour* for the month was 0.396 in., being 0.028 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 0.361. The maximum daily amount of *Sunshine* was 12.1 hours on August 18.
 The highest reading of the *Solar Radiation Thermometer* was 140°.4 on August 19; and the lowest reading of the *Terrestrial Radiation Thermometer* was 33°.6 on August 7.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.3, S.29, W.47, calm or nearly calm conditions, 11, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 12.0 lbs. on the square foot on August 5. The mean daily *Horizontal Movement of the Air* for the month was 294 miles; the greatest daily value was 456 miles on August 5, and the least daily value was 149 miles on August 3.
Rain (0.005 in. or over) fell on 18 days in the month, amounting to 4.146 in., as measured by gauge No. 6 partly sunk below the ground; being 1.802 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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
Sept. 1	30.158	71.9	49.0	22.9	59.0	- 0.8	55.7	53.0	6.0	17.1	0.8	80	135.7	38.1	59.0	0.000	4.0	13.6
2	30.153	78.3	54.3	24.0	65.6	+ 5.9	61.5	58.6	7.0	14.1	2.7	78	131.0	47.3	59.1	0.000	9.3	13.5
3	30.157	78.4	59.6	18.8	68.6	+ 9.0	64.6	62.1	6.5	13.3	1.6	79	132.9	51.5	59.1	0.000	5.3	13.5
4	30.069	75.3	56.8	18.5	64.1	+ 4.6	61.4	59.5	4.6	9.9	0.0	85	125.5	47.3	59.3	0.000	8.8	13.4
5	29.910	73.7	57.4	16.3	62.4	+ 3.0	60.5	59.2	3.2	9.6	0.0	89	127.4	48.9	59.3	0.000	3.9	13.3
6	29.887	64.5	56.0	8.5	60.9	+ 1.7	58.6	56.8	4.1	7.3	2.3	87	91.9	52.0	59.5	0.000	0.0	13.3
7	30.124	64.8	50.5	14.3	58.0	- 1.0	52.7	47.5	10.5	16.6	4.6	69	130.0	40.5	59.5	0.000	8.9	13.2
8	30.240	62.7	45.5	17.2	54.6	- 4.2	51.7	48.9	5.7	11.1	1.3	81	88.4	33.4	59.5	0.000	0.5	13.2
9	30.189	70.0	55.4	14.6	61.7	+ 3.1	58.6	56.2	5.5	11.3	2.2	82	105.9	52.4	59.6	0.000	1.2	13.1
10	30.093	64.9	57.0	7.9	60.6	+ 2.2	56.2	52.5	8.1	15.4	4.0	74	103.9	51.0	59.5	0.000	1.8	13.0
11	29.905	66.3	54.2	12.1	59.2	+ 1.1	54.2	49.6	9.6	19.7	2.9	71	118.7	47.6	59.6	0.000	5.6	12.9
12	30.001	62.0	51.8	10.2	56.1	- 1.9	52.9	49.9	6.2	11.9	2.2	80	112.7	40.1	59.3	0.000	1.0	12.9
13	30.077	64.6	55.2	9.4	58.7	+ 0.9	54.9	51.6	7.1	12.4	2.3	77	103.3	44.0	59.3	0.000	0.2	12.8
14	29.972	60.2	52.0	8.2	57.2	- 0.5	54.5	52.2	5.0	7.6	1.6	83	74.0	42.4	59.0	0.035	0.0	12.8
15	30.176	57.0	50.5	6.5	53.5	- 4.1	48.3	42.4	11.1	13.4	7.2	66	77.3	44.8	59.0	0.000	0.0	12.7
16	30.313	60.0	42.8	17.2	52.6	- 4.9	47.3	41.1	11.5	17.2	2.1	65	114.2	33.0	58.9	0.000	5.2	12.7
17	30.306	64.5	38.8	25.7	51.0	- 6.2	47.4	43.2	7.8	16.0	0.4	75	112.8	27.6	58.8	0.000	9.3	12.6
18	30.264	64.8	40.8	24.0	52.8	- 4.1	49.8	46.6	6.2	13.3	0.0	79	123.0	28.2	58.8	0.000	6.9	12.5
19	30.187	58.4	52.0	6.4	55.0	- 1.5	52.6	50.4	4.6	6.1	1.9	85	92.9	40.0	58.3	0.019	0.2	12.4
20	30.169	63.4	50.3	13.1	56.7	+ 0.5	53.2	49.9	6.8	13.5	1.6	78	102.8	51.5	58.0	0.000	3.4	12.4
21	30.150	66.4	48.9	17.5	56.0	+ 0.1	54.2	52.7	3.3	9.3	0.6	88	110.3	33.8	58.0	0.004	3.7	12.3
22	30.079	66.9	53.4	13.5	58.5	+ 2.9	56.1	54.1	4.4	9.5	0.6	85	112.3	37.2	58.0	0.000	6.4	12.3
23	30.039	63.7	52.1	11.6	56.3	+ 0.9	54.9	53.7	2.6	6.1	0.9	91	95.7	43.5	57.8	0.000	2.4	12.2
24	29.952	67.9	55.4	12.5	59.4	+ 4.1	57.9	56.8	2.6	7.7	0.3	91	117.9	49.9	57.9	0.000	2.4	12.1
25	29.975	72.8	52.9	19.9	61.4	+ 6.2	59.2	57.6	3.8	13.4	0.0	87	123.7	42.1	57.9	0.000	2.5	12.1
26	29.900	71.7	58.0	13.7	63.2	+ 8.0	61.3	60.0	3.2	9.4	1.1	89	125.2	48.0	58.0	0.000	1.0	12.0
27	29.778	77.0	56.7	20.3	66.1	+11.0	62.3	59.7	6.4	14.1	0.0	80	126.0	46.0	58.1	0.000	8.7	11.9
28	29.641	72.0	55.4	16.6	61.9	+ 7.0	59.9	58.5	3.4	10.2	0.7	88	114.6	53.1	58.0	0.412	3.0	11.9
29	29.738	64.3	53.9	11.3	56.7	+ 2.0	54.2	52.1	4.6	12.0	1.5	85	107.9	43.0	58.0	0.215	0.7	11.8
30	29.909	63.6	47.5	16.1	54.5	+ 0.1	51.2	48.0	6.5	15.2	0.0	79	117.7	34.4	58.2	0.004	4.6	11.7
Means	30.050	67.1	52.1	15.0	58.7	+ 1.5	55.6	52.8	5.9	12.1	1.6	80.9	111.9	43.1	58.7	0.689	3.7	12.7
No. of Col. for Ref.	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 30.050 in., being 0.232 in., higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 78° 4 on September 3; the lowest in the month was 38° 8 on September 17; and the range was 39° 6.

The mean of all the highest daily readings in the month was 67° 1, 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 52° 1, being 2° 4 higher than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 15° 0, being 1° 5 less than the average for the 65 years, 1841-1905.†

The mean for the month was 58° 7, being 1° 5 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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 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	4.3	0.51	4.1	0.49	SW: Calm	SW	0.3	0.02	191	b m _o W	b m _o Acu c b c Cicu y	c Acu Ast y c ir _o	c b c
2	1.0	0.12	0.5	0.05	WSW	WSW: WNW	0.2	0.03	208	c w m _o	c b Acu m _o bc Acu Ci	bc Ci Cu Cumb c	c
3	5.1	0.60	3.4	0.40	Calm	SE: Calm	0.2	0.01	152	c m _o W	c Acu m _o bc Frcu Cumb z _o	bc Frcu Cumb c z _o	c b c m _o
4	1.6	0.19	1.6	0.19	Calm	ENE: E	0.6	0.03	185	c m _o fe w	o fe b m _o	b m _o bc b	b m _o f
5	0.0	0.00	0.0	0.00	ENE: Calm	E	0.3	0.05	196	o fe fe	o fe St c m	bc Ci Acu Cist so-ha c m _o	c m _o m
6	0.0	0.00	0.0	0.00	Calm: NE	NE: NNE	1.6	0.14	253	c m	c St Frst d _o m _o	c St Frst id _o m _o	c id _o d id _o
7	7.8	0.87	7.2	0.80	NNE: NE	NNE	1.5	0.18	268	c	bc Frcu Ci y	bc c Frcu Stcu y	c b bc
8	0.0	0.00	0.0	0.00	Calm	Calm: SE	0.0	0.00	137	bc c w m	c St Acu m	c Stcu b Acu Ci c m _o	c ir _o c m _o
9	0.6	0.07	0.4	0.05	Calm	NNW: NW	0.2	0.00	153	c m w	c Acu m	c bc Frcu m _o	bc c m _o
10	4.7	0.52	3.9	0.44	NNW: NW	WNW: W	1.1	0.12	256	c m _o	c Stcu Frst m _o c Stcu	c Stcu Frcu Cist so-ha c	c bc
11	4.3	0.48	3.6	0.40	WSW: NW	NW	4.4	0.51	328	c b c	c Frst Acu bc Frcu Ci y	bc Frcu Cumb Acu Ci y	b c
12	0.8	0.09	0.7	0.07	Calm: NNW	N: Calm	0.5	0.04	163	c m _o	c St	bc Frcu c Stcu Cumb Acu	c b c
13	2.3	0.24	1.3	0.14	Calm: NNW	N: Calm	0.7	0.05	169	c	c Ast Acu Stcu	c Stcu Cu	c
14	1.0	0.10	0.3	0.03	W: NW	NW: NNE	2.3	0.26	288	c lu-ha	c Nbst ir _o c ir _o	c Nbst ir _o	rr _o c
15	0.1	0.01	0.0	0.00	N: NNE	NNE	1.2	0.10	231	c	c Stcu Frst	c Stcu Frst	c
16	9.5	1.00	7.3	0.77	NE: Calm	Calm	0.2	0.01	145	c	c Stcu b Frcu y	c b Frcu y	b
17	9.5	1.00	9.5	1.00	Calm	Calm	0.2	0.01	102	b f x	b f b y	b y	b m _o
18	2.9	0.30	2.0	0.21	Calm	E	0.5	0.03	134	b m _o m F x	b FF x bc Frcu	bc Frcu m _o	bc Aurora b c
19	0.1	0.01	0.0	0.00	ENE: NE	NE: ENE	0.9	0.06	225	c	id _o d c St Frst	d _o Nbst c m _o	c m _o
20	6.5	0.63	6.2	0.60	NE: ENE	ENE: E	1.3	0.10	242	c m _o	c St Frst Stcu m _o	c Stcu b	b
21	2.0	0.19	1.9	0.18	Calm: NNE	Calm: E	0.9	0.02	191	c fe fe id _o	c fe m id _o c St m _o	c b m _o	b c m _o
22	0.3	0.03	0.3	0.03	Calm: NE	E: ESE	0.6	0.05	204	c m w	c bc c Frcu m m _o	c b Frcu m _o	b c
23	0.0	0.00	0.0	0.00	Calm	E	0.8	0.05	199	c fe fe	fe f o St m	c b m _o m f	o m f
24	2.4	0.24	1.7	0.17	E	E: Calm	1.1	0.09	193	o m f	o St m c Frcu Acu m _o	c Ci Acu so-ha prhn m _o	bc m _o c m f
25	4.5	0.44	3.6	0.35	Calm: WSW	SW: SSW	0.4	0.01	164	c bc m fe w	o St f c Acu Ci Cist m _o	c Frcu Cumb Ci bc	b c w
26	5.5	0.54	3.0	0.29	S: Calm	SSW: Calm	0.6	0.03	181	c	c bc c Stcu Acu Frst	c Stcu	b c w
27	..	..	..	..	Calm: SSE	SSE: SE	2.3	0.12	185	c fe fe	b m _o bc Cu Frcu	b Frcu bc	b bc
28	0.0	0.00	0.0	0.00	Calm	WSW: WNW	0.4	0.02	174	b w	b Ci Acu c Nbst r	r c Nbst	r _o r _o
29	8.3	0.79	4.6	0.44	W: Calm	SW	0.2	0.02	164	rRc ir _o	ir _o c Ast Stcu	c Acu Cist Stcu Ast	c bc lu-ha bc
30	10.5	1.00	10.5	1.00	Calm: W	WSW: NW	1.7	0.09	233	bc w	bc Ci Cist Frcu Acu	bc c Stcu Ast p c b	b w
Means	3.3	0.34	2.7	0.28	..	..	..	0.07	197				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 55°.6, being 1°.5 higher than
 The mean *Temperature of the Dew Point* for the month was 52°.8, being 1°.7 higher than
 The mean *Degree of Humidity* for the month was 80.9, being 1.0 greater than
 The mean *Elastic Force of Vapour* for the month was 0.401 in., being 0.022 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 0.292. The maximum daily amount of *Sunshine* was 9.3 hours on September 2 and 17.
 The highest reading of the *Solar Radiation Thermometer* was 135°.7 on September 1; and the lowest reading of the *Terrestrial Radiation Thermometer* was 27°.6 on September 17.
 The *Proportions of Wind* referred to the cardinal points were N.17, E.21, S.8, W.14, calm or nearly calm conditions, 40, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 4.4 lbs. on the square foot on September 11. The mean daily *Horizontal Movement of the Air* for the month was 197 miles; the greatest daily value was 328 miles on September 11, and the least daily value was 102 miles on September 17.
Rain (0.005 in. or over) fell on 4 days in the month, amounting to 0.689 in., as measured by gauge No. 6 partly sunk below the ground; being 1.459 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	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				
Oct. 1	30.138	59.0	41.1	17.9	51.2	- 2.9	48.4	45.5	5.7	11.8	0.8	81	93.3	28.9	58.0	0.000	2.1	11.7
2	30.235	67.0	42.5	24.5	53.3	- 0.4	50.4	47.4	5.9	15.1	0.0	80	116.0	29.9	58.0	0.000	8.5	11.6
3	30.165	64.2	40.8	23.4	53.3	- 0.0	50.0	46.6	6.7	16.4	0.0	78	116.1	27.6	57.8	0.000	8.6	11.5
4	30.075	61.4	50.9	10.5	56.2	+ 3.2	54.8	53.6	2.6	5.4	0.2	91	73.3	46.1	57.5	0.018	0.0	11.4
5	30.061	64.3	55.5	8.8	59.1	+ 6.3	57.9	57.0	2.1	5.3	0.0	93	81.8	55.0	57.4	0.021	0.1	11.4
6	30.076	75.0	52.2	22.8	61.0	+ 8.5	59.0	57.6	3.4	13.0	0.0	88	122.6	41.0	57.6	0.000	6.5	11.3
7	30.084	62.5	51.4	11.1	57.2	+ 4.9	56.8	56.5	0.7	2.1	0.0	98	81.3	39.6	57.5	0.003*	0.0	11.3
8	30.101	67.6	54.8	12.8	59.3	+ 7.3	57.6	56.3	3.0	9.9	0.0	89	111.8	46.7	57.5	0.007*	1.3	11.2
9	29.882	64.0	54.3	9.7	58.9	+ 7.3	57.5	56.4	2.5	6.8	1.0	91	85.9	46.2	57.4	0.090	0.0	11.2
10	29.629	62.3	56.0	6.3	59.2	+ 7.9	55.7	52.8	6.4	14.9	2.6	79	98.4	54.2	57.5	0.173	1.7	11.1
11	29.712	56.8	44.3	12.5	52.9	+ 2.0	49.4	45.7	7.2	11.3	1.8	76	103.5	35.0	57.4	0.140	2.1	11.0
12	30.230	58.9	36.9	22.0	46.5	- 4.1	43.1	38.7	7.8	15.5	0.7	74	113.9	25.2	57.4	0.000	6.1	11.0
13	30.172	56.5	34.3	22.2	44.9	- 5.4	41.7	37.1	7.8	15.8	1.0	74	106.7	21.4	57.2	0.000	5.6	10.9
14	29.818	55.0	44.0	11.0	49.9	- 0.2	48.3	46.5	3.4	4.9	0.8	88	78.4	35.0	56.8	0.133	0.4	10.8
15	29.905	58.2	43.9	14.3	50.9	+ 1.0	47.0	42.5	8.4	18.1	2.2	73	101.1	34.9	56.7	0.000	4.8	10.8
16	29.743	59.5	46.6	12.9	54.6	+ 4.8	51.5	48.5	6.1	11.5	2.5	80	79.8	37.0	56.4	0.018	0.7	10.7
17	29.745	61.0	44.5	16.5	52.6	+ 3.0	49.3	45.8	6.8	15.5	1.1	78	113.9	34.6	56.1	0.020	2.3	10.6
18	29.496	62.8	56.0	6.8	59.1	+ 9.8	54.9	51.2	7.9	12.7	3.6	75	83.9	49.5	56.0	0.015	0.3	10.6
19	29.785	63.8	52.6	11.2	58.0	+ 8.9	54.3	51.0	7.0	12.1	1.7	77	92.0	49.6	56.0	0.000	1.1	10.5
20	29.939	63.0	54.6	8.4	58.5	+ 9.7	54.0	49.9	8.6	20.4	4.3	73	108.0	48.0	56.0	0.010	3.0	10.4
21	30.148	59.4	46.7	12.7	53.3	+ 4.7	48.9	44.1	9.2	16.3	3.6	71	101.8	37.0	55.9	0.000	6.4	10.4
22	30.224	55.8	40.4	15.4	47.3	- 1.0	44.0	39.9	7.4	13.8	1.5	75	96.4	28.1	55.9	0.017	3.7	10.3
23	30.194	52.8	38.1	14.7	44.7	- 3.4	41.1	35.8	8.9	16.8	2.8	71	105.1	30.8	55.7	0.000	7.9	10.2
24	30.243	50.9	38.4	12.5	44.3	- 3.6	41.5	37.6	6.7	15.3	1.7	75	94.8	28.4	55.5	0.000	2.7	10.2
25	30.268	49.6	42.9	6.7	45.7	- 2.0	43.1	39.7	6.0	7.7	2.9	80	73.5	37.2	55.2	0.003	0.1	10.1
26	30.150	48.9	40.7	8.2	44.7	- 2.9	41.2	36.1	8.6	13.5	5.7	72	75.6	35.3	54.9	0.000	1.9	10.0
27	30.066	50.8	38.8	12.0	45.2	- 2.3	41.7	36.7	8.5	13.0	4.6	72	71.7	33.1	54.7	0.008	1.4	10.0
28	29.620	51.6	42.8	8.8	47.9	+ 0.5	43.1	36.5	11.4	16.7	8.1	65	68.7	36.0	54.5	0.000	1.5	9.9
29	29.683	43.8	35.6	8.2	38.9	- 8.4	34.9	27.9	11.0	19.8	4.1	64	82.4	28.1	54.0	0.038	5.3	9.9
30	29.738	45.9	35.3	10.6	40.4	- 6.8	36.6	30.4	10.0	15.3	2.7	66	83.9	29.0	53.9	0.000	3.7	9.8
31	29.713	46.3	34.3	12.0	39.2	- 7.9	36.5	32.0	7.2	16.3	1.3	76	84.7	26.3	53.6	0.008	3.4	9.8
Means	29.969	58.0	44.9	13.1	51.2	+ 1.2	48.2	44.6	6.6	13.0	2.0	78.2	93.6	36.6	56.3	Sum 0.722	3.0	10.7
No. of Col. for Ref.	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 Psychrometrical 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.

*Rainfall (Column 16). The amounts entered on October 7 and 8 are derived from wet fog.

The mean reading of the Barometer for the month was 29.969 in., being 0.241 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 75° 0 on October 6; the lowest in the month was 34° 3 on October 13 and 31; and the range was 40° 7.

The mean of all the highest daily readings in the month was 58° 0, 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 44° 9, being 1° 1 higher than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 13° 1, being 0° 1 less than the average for the 65 years, 1841-1905.†

The mean for the month was 51° 2, 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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				
					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
Oct. 1	8.9	0.85	8.7	0.83	WSW	W: Calm	0.2	0.01	206	b x m _o	b bc c Acu Stcu m _o	c Ast m _o	c b c b m w
2	10.5	1.00	10.5	1.00	Calm	Calm	0.0	0.00	134	b w m _o	b m b Frcu Cu y	b Frcu Ci bc b m	b m
3	2.6	0.25	2.3	0.22	Calm: E	ENE: NE	1.1	0.10	216	b m m _o x	b f m b Frcu Stcu	b y	b c
4	0.0	0.00	0.0	0.00	NE: ENE	ENE	0.4	0.03	233	c m _o	c Nbst ir _o m _o	c Nbst m _o	c m _o m
5	0.0	0.00	0.0	0.00	ENE: E	E	1.7	0.10	228	c id _o r _o m _o f	c id _o r _o ir _o m _o f c m _o	c Acu Ast r _o r bc m _o	c m _o
6	6.0	0.55	5.8	0.53	Calm	Calm	0.0	0.00	119	ffw	Fe Fe b Frcu m _o	b Frcu	b m f
7	0.0	0.00	0.0	0.00	Calm	E: Calm	0.2	0.00	154	ff	Fe Fe f	ff	fe fe
8	2.8	0.26	2.3	0.21	Calm: SW	SW	0.3	0.02	169	fe fe	fe m c Acu m _o	c Ast Acu so-ha c	c b
9	0.0	0.00	0.0	0.00	SW	SW	1.4	0.15	281	c	c Nbst Ast ddc r _o	ir _o c Ast Acu r ir _o	ir _o
10	0.6	0.05	0.2	0.02	SW: W	WSW: SW	2.8	0.37	346	ir _o r	ir _o r c Ast Acu Frst	c bc Stcu Acu Ci y	c
11	9.9	0.86	9.9	0.86	WSW: W: N	N	5.5	0.65	360	c rr	r _o c Frst Acu Stcu	c Nbst p _o bc	bc b
12	11.5	1.00	11.5	1.00	Calm	Calm	0.1	0.00	149	b x m _o	b Ci Frcu m _o b y	b Frcu c Acu b	b m _o
13	3.6	0.31	2.0	0.17	Calm: SSW	S: Calm	0.3	0.03	167	b x m _o	b bc Ci Cist so-ha y	c Cist so-ha y c	c bc
14	10.0	0.87	7.7	0.67	Calm: SSW	WSW: WNW	1.7	0.12	216	bc c f	r c Nbst r ir r _o	d _o c Frst bc	bc b
15	1.7	0.15	0.5	0.04	WSW	WSW: SW	0.9	0.08	178	b c bc	bc Cicu Cist so-ha b Frcu	bc Frcu r _o c Stcu Acu Cist y	bc b
16	9.7	0.84	6.0	0.52	SSW: SW	WSW	3.7	0.44	241	c	c Frst id r	id _o c Ci Cicu Acu Cumb b	b w
17	0.0	0.00	0.0	0.00	Calm: SW	SW	8.0	0.74	279	b bc c	c p _o bc Frst Cumb Ast Ci	bc c Ast Acu Frst Frcu	c ir _o
18	0.1	0.01	0.1	0.01	SW	WSW	19.2	2.38	600*	c	c Frst Stcu Nbst r _o r _o q	r _o q c	c
19	2.0	0.17	1.5	0.13	WSW	WSW: SW	5.0	0.66	350*	c	c Nbst Frst Stcu	c Frst Stcu	c b
20	1.7	0.14	0.8	0.06	SW: WSW	WSW	3.4	0.47	340*	c	pc b Acu Frcu Frst c	c Stcu Acu y	c D _o c
21	11.7	0.97	11.7	0.97	W: NW: NNW	NNW	2.2	0.18	270*	c w	bc Ci Acu Frcu y	b bc Frcu c b y	b
22	11.4	0.95	11.1	0.93	Calm: W	NW: N	3.6	0.20	260*	b x m	bc c r m c Acu	c b bc y	b
23	10.7	0.89	9.7	0.81	N: NNE	NNE: N	2.8	0.28	290*	b w m _o	b m _o b Frcu y	b Frcu y	b
24	1.2	0.10	0.7	0.06	N: NNE	NE: NNE	2.6	0.12	240*	b x m _o	b Frcu Ci bc c Stcu	c bc Stcu c r _o c	c
25	0.5	0.04	0.3	0.02	NNF	N: NNW	1.4	0.16	270*	c	c Stcu r _o	c Stcu d c	c
26	3.8	0.32	2.2	0.18	NW: N	N	4.6	0.72	360*	c	c Stcu Acu r _o c	c Stcu r _o c y	c r _o c
27	0.5	0.04	0.4	0.03	NNW: NW	WSW: W	2.4	0.25	260*	c m _o	c bc c Cist Cicu Ci Acu m _o	r Stcu c Acu Ci ir _o m _o	c ir _o
28	7.0	0.58	6.7	0.56	WNW: NNW	NNW	9.0	1.20	430*	c ir _o	c Stcu ir _o c y	c bc Frcu Stcu Acu c y	b c
29	5.9	0.49	4.7	0.39	NNW	NNW	13.5	1.70	470*	c b	b Stcu c y	c p q rs Nbst Stcu	bc c b
30	5.9	0.49	3.9	0.33	N	NNW	4.4	0.88	400*	b c	c b Ci Frst c y	c Ast Frcu y	c bc c
31	6.2	0.51	4.9	0.41	N: NE	ENE: NE	3.5	0.17	278	c b x	b c r c Stcu Acu Frst c	bc c bc Stcu Frcu Acu y	bc b c x
Means	4.7	0.41	4.1	0.35	..	..	..	0.39	274				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 48°.2, being 0°.3 higher than
 The mean *Temperature of the Dew Point* for the month was 44°.6, being 1°.0 lower than
 The mean *Degree of Humidity* for the month was 78.2, being 6.7 less than
 The mean *Elastic Force of Vapour* for the month was 0.295 in., being 0.013 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 6.7.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.281. The maximum daily amount of *Sunshine* was 8.6 hours on October 3.
 The highest reading of the *Solar Radiation Thermometer* was 122°.6 on October 6; and the lowest reading of the *Terrestrial Radiation Thermometer* was 21°.4 on October 13.
 The *Proportions of Wind* referred to the cardinal points were N.29, E.10, S.13, W.27, calm or nearly calm conditions, 21, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 19.2 lbs. on the square foot on October 18. The mean daily *Horizontal Movement of the Air* for the month was 274 miles; the greatest daily value was 600* miles on October 18, and the least daily value was 119 miles on October 6.
Rain (0.005 in. or over) fell on 14 days in the month, amounting to 0.722 in., as measured by gauge No. 6 partly sunk below the ground; being 2.060 in. less than the average fall for the 65 years, 1841-1905.
 *Column 27. These totals are estimated, based upon the average pressure recorded by Osler's Anemometer.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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	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	Mean			Greatest				Least	Highest in Sun's Rays	Lowest on the Grass
Nov. 1	29.919	45.7	36.2	9.5	40.6	- 6.4	37.7	33.0	7.6	12.6	4.3	74	83.9	26.1	53.3	0.000	1.2	9.7
2	29.955	43.3	36.5	6.8	39.3	- 7.5	37.2	33.9	5.4	9.0	2.8	81	72.1	32.7	53.0	0.026	0.3	9.6
3	29.980	43.4	34.8	8.6	38.7	- 7.9	36.5	32.9	5.8	12.2	2.7	79	79.7	27.1	52.8	0.000	1.0	9.6
4	29.965	40.2	37.0	3.2	38.4	- 8.0	35.7	31.1	7.3	9.3	4.0	75	46.7	30.5	52.5	0.015	0.0	9.5
5	30.065	46.0	35.2	10.8	39.5	- 6.6	36.5	31.4	8.1	12.6	3.0	73	73.1	25.9	52.3	0.000	2.0	9.5
6	29.878	52.2	35.8	16.4	45.4	- 0.4	43.1	40.1	5.3	8.5	2.8	82	73.4	27.0	52.1	0.005	0.1	9.4
7	29.858	51.3	34.7	16.6	44.1	- 1.3	40.5	35.2	8.9	15.4	3.3	71	85.4	30.0	51.9	0.040	5.4	9.3
8	29.942	46.0	30.9	15.1	37.5	- 7.5	35.5	32.1	5.4	15.0	1.1	81	54.5	20.1	51.6	0.000	1.0	9.3
9	29.539	46.4	31.0	15.4	38.8	- 5.8	35.7	30.4	8.4	18.4	2.3	71	89.3	20.3	51.3	0.000	3.1	9.2
10	29.051	56.1	37.6	18.5	48.0	+ 3.7	46.3	44.4	3.6	8.6	1.4	87	74.8	32.5	51.3	0.085	0.2	9.2
11	29.168	55.0	46.2	8.8	50.6	+ 6.6	49.3	47.9	2.7	6.5	0.9	91	68.8	34.2	51.0	0.968	0.0	9.1
12	29.259	51.9	46.6	5.3	48.7	+ 5.0	47.0	45.1	3.6	6.7	1.2	87	63.9	43.5	50.9	0.300	0.0	9.1
13	29.465	46.6	39.3	7.3	44.0	+ 0.5	43.3	42.5	1.5	2.4	0.0	94	46.2	39.3	50.8	0.332	0.0	9.0
14	29.808	48.0	36.6	11.4	42.2	- 1.1	40.9	39.2	3.0	7.7	0.0	89	54.8	36.7	50.8	0.004	0.0	9.0
15	29.824	42.2	26.9	15.3	35.5	- 7.6	32.9	28.3	7.2	9.9	2.7	74	69.1	16.1	50.6	0.000	0.6	8.9
16	29.384	51.8	29.3	22.5	41.6	- 1.2	40.4	38.8	2.8	4.2	0.0	90	56.3	19.0	50.4	0.165	0.0	8.8
17	29.458	53.0	46.0	7.0	49.2	+ 6.6	46.9	44.4	4.8	7.3	2.9	83	61.7	41.0	50.4	0.109	0.3	8.8
18	29.809	53.4	43.7	9.7	48.6	+ 6.2	46.6	44.4	4.2	8.4	1.8	85	79.8	35.3	50.4	0.000	3.6	8.8
19	29.725	49.6	41.8	7.8	45.8	+ 3.5	45.2	44.4	1.4	3.2	0.0	95	61.2	32.9	50.3	0.004	0.1	8.7
20	29.725	53.4	44.2	9.2	48.9	+ 6.7	47.5	46.0	2.9	5.4	0.6	89	63.2	41.3	50.3	0.000	0.0	8.7
21	29.673	54.9	44.1	10.8	50.2	+ 8.1	49.2	48.2	2.0	5.2	0.5	93	71.0	30.0	50.2	0.065	0.8	8.6
22	29.604	58.6	44.1	14.5	51.9	+ 9.8	49.9	47.9	4.0	9.0	0.5	86	84.9	30.0	50.3	0.030	3.2	8.6
23	29.672	55.1	41.3	13.8	48.7	+ 6.7	46.9	44.9	3.8	9.4	0.0	86	71.8	30.5	50.2	0.009	3.9	8.5
24	29.899	54.3	41.2	13.1	50.4	+ 8.4	49.0	47.5	2.9	3.6	1.7	90	66.8	30.4	50.3	0.000	0.0	8.5
25	30.003	54.3	35.4	18.9	48.7	+ 6.8	46.5	44.1	4.6	12.4	1.1	83	56.7	27.0	50.3	0.091	0.0	8.4
26	30.094	50.1	32.5	17.6	42.3	+ 0.5	40.6	38.2	4.1	8.2	0.0	85	72.7	22.6	50.3	0.006*	2.2	8.4
27	29.831	50.0	43.3	6.7	47.7	+ 6.0	45.4	42.7	5.0	9.6	1.2	82	60.5	32.4	50.3	0.000	0.0	8.3
28	29.905	50.8	47.2	3.6	49.0	+ 7.5	48.1	47.3	1.7	3.4	0.8	93	56.7	43.1	50.0	0.122	0.0	8.3
29	30.088	48.3	43.4	4.9	46.5	+ 5.3	45.4	44.1	2.4	4.3	1.0	91	57.5	30.7	49.9	0.003	0.0	8.3
30	30.080	43.4	29.5	13.9	37.9	- 3.1	36.0	32.9	5.0	7.9	0.0	82	44.2	19.3	49.9	0.008*	0.0	8.2
Means	29.754	49.8	38.4	11.4	44.6	+ 1.1	42.7	40.1	4.5	8.5	1.5	84.1	66.7	30.3	51.0	Sum 2.387	1.0	8.9
No. of Col. for Ref.	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 Psychrometrical 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.

*Rainfall (Column 16). The amounts entered on November 26 and 30 are derived from hoar frost.

The mean reading of the Barometer for the month was 29.754 in., being 0.011 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 58° on November 22; the lowest in the month was 26° on November 15; and the range was 31°.

The mean of all the highest daily readings in the month was 49°, being 0° higher than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 38°, being equal to the average for the 65 years, 1841-1905.†

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

The mean for the month was 44°, being 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	POLARIS		δ 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 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					
Nov. 1	0.1	0.01	0.0	0.00	NNE:NE	NNE	3.0	0.30	285	c r _o	c Acu Stcu so-ha c	c	c
2	1.3	0.11	0.7	0.05	NNE	NNE:N	2.7	0.35	301	c m _o	cp _o m _o c StcuAcu Ci d _o c	c r _o Nbst ir c	c
3	1.3	0.11	0.9	0.07	N:NNE	N	1.4	0.16	239	c m _o	b c Stcu Acu Prst m m _o	c Stcu Cumb m _o	c m _o
4	1.7	0.13	1.4	0.11	N:NNE	NNE	2.1	0.30	305	c r _o c m _o	c Stcu id _o m _o	c Stcu m _o	c m _o
5	12.3	0.99	9.3	0.74	N:NNW	NNW:NW:SW	0.6	0.05	182	c bc c m _o	c b Acu c Stcu m m _o	c Cist Prcu Acu m _o b f	b f x
6	4.2	0.33	3.8	0.30	WSW	WSW	4.6	0.63	411	b w m m _o c	c Cist Cicu Acu Ast so-ha m c	c Ast Prst b m _o	b c r _o r c
7	8.9	0.72	8.6	0.69	NW:WNW	WNW:WSW	5.2	0.35	317	c p c b m _o	b c Prcu z _o y	bc z _o y b m	b bc m
8	11.3	0.87	10.2	0.79	WSW:Calm	Calm:SE	0.0	0.00	141	bc c m x	c f x bc Acu f	b Ci Cicu Acu f m	b f m x
9	4.4	0.34	3.4	0.26	SE	ESE	3.1	0.39	271	b c b x bc m _o	bc Cist Cicu Acu y	bc b y	b c
10	4.0	0.31	3.4	0.26	E:ESE	SE:SSW	3.7	0.38	305	c	rr _o o c	ir c	c b c
11	0.0	0.00	0.0	0.00	Calm	Calm:ENE:NE	1.2	0.05	172	c m	c St m Ast Acu m _o	c Ast Acu r m _o	rr RR m _o
12	0.0	0.00	0.0	0.00	N:NW	Calm:N	1.0	0.04	173	R rr c m _o	c Ast Stcu m _o	c Ast Stcu m _o	c rr m _o
13	0.0	0.00	0.0	0.00	N	NNW:WSW	0.6	0.07	210	rr r _o r _o m _o	rr Nbst d _o d _o m _o m	c g c rr m	c m
14	0.0	0.00	0.0	0.00	Calm	NNE:ENE	1.2	0.05	154	c m f	c f f	c f m m _o	c d _o m _o
15	7.3	0.57	7.2	0.55	NE:E	E:Calm	2.7	0.13	226	c	c Stcu Prcu	c b	b x
16	4.3	0.33	3.2	0.24	Calm:ESE	SE:S:SSW	3.0	0.41	312	b c m	c r c Ast Nbst rr _o m m _o	rr c	c rr c bc c
17	8.8	0.67	7.5	0.58	SSW:SW	SW:WSW	7.5	1.24	504	c bc	bc c Ci Acu Prst irr _o	c ir bc	bc b
18	1.3	0.10	0.2	0.02	WSW	WSW:Calm	1.5	0.07	225	b bc m _o	b bc Ci Cist so-ha m _o	bc c m _o m	c m
19	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	84	c m	c mf Acu Ci	m f g r _o	r o m _o
20	5.1	0.39	2.7	0.21	Calm:S	S	0.6	0.06	208	o m _o	c Acu Ast p _o m _o	c Cist Acu so-ha r _o c	c
21	10.9	0.84	10.1	0.77	S	S:SSW	2.4	0.10	245	c	c Acu b c Prst Stcu	c r r b	b w
22	3.5	0.26	3.2	0.23	SSE	SSE:S	4.0	0.27	256	b c r c	c Cist Acu Ast Cicu	c Acu Cist Cicu Ci	c d _o d _o rr _o
23	8.5	0.63	4.0	0.30	SSW	WSW	0.2	0.02	203	r c b m _o	b bc Acu Ci Prcu m _o	bc Ci Prcu m _o	c w
24	0.3	0.02	0.0	0.00	SW:SSW	SSW	2.2	0.23	341	c w	c Prst Nbst d _o	d _o d _o Nbst Prst c	c
25	11.4	0.84	9.4	0.70	SW:NW	NNW:Calm	3.3	0.18	254	c	c Nbst r r _o mg c Stcu m _o	c Stcu b m _o	b ff x
26	2.7	0.20	1.5	0.11	Calm:SSW	SSW:S	1.3	0.04	202	b ff x	b bc Ci Cist f m _o	c Cicu Acu Cist m _o	c lu-ha bc b c
27	0.0	0.00	0.0	0.00	SSW	S	2.8	0.25	295	c	c Prst Stcu Acu	c Prst Ast	c
28	0.2	0.01	0.0	0.00	S:Calm	Calm	0.6	0.03	126	c m w	o St id Nbst m	dd f c m	c m
29	0.0	0.00	0.0	0.00	Calm:E	Calm:ENE	0.9	0.05	180	c m	c Ci Ast Acu so-ha m m _o	o St m _o	o d _o d _o
30	8.2	0.60	7.0	0.51	NE	Calm	1.3	0.06	177	c	c Stcu Prst m m _o	c m _o	b c m x
Means	4.1	0.31	3.3	0.25	..	..	..	0.21	243				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 42°.7, being 0°.8 higher than
 The mean *Temperature of the Dew Point* for the month was 40°.1, being 0°.4 higher than
 The mean *Degree of Humidity* for the month was 84.1, being 2.5 less than
 The mean *Elastic Force of Vapour* for the month was 0.249 in., being 0.003 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 0.109. The maximum daily amount of *Sunshine* was 5.4 hours on November 7.
 The highest reading of the *Solar Radiation Thermometer* was 89°.3 on November 9; and the lowest reading of the *Terrestrial Radiation Thermometer* was 16°.1 on November 15.
 The *Proportions of Wind* referred to the cardinal points were N.20, E.18, S.32, W.18, calm or nearly calm conditions, 12, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 7.5 lbs. on the square foot on November 17. The mean daily *Horizontal Movement of the Air* for the month was 243 miles; the greatest daily value was 504 miles on November 17, and the least daily value was 84 miles on November 19.
Rain (0.005 in. or over) fell on 15 days in the month, amounting to 2.387 in., as measured by gauge No. 6 partly sunk below the ground; being 0.167 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	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				
Dec. 1	30.255	44.0	29.6	14.4	38.3	- 2.6	37.5	36.3	2.0	4.9	0.0	92	48.7	19.5	49.8	0.211	0.0	8.2
2	30.519	44.4	37.2	7.2	40.6	- 0.3	40.3	39.8	0.8	2.4	0.0	97	46.6	37.2	49.7	0.000	0.0	8.2
3	30.465	44.4	33.6	10.8	39.0	- 2.1	38.6	38.1	0.9	2.2	0.0	96	48.4	35.2	49.5	0.000	0.0	8.1
4	30.377	46.6	43.9	2.7	45.1	+ 3.8	43.7	41.9	3.2	3.8	2.2	89	48.7	41.6	49.5	0.000	0.0	8.1
5	30.292	48.3	43.4	4.9	46.0	+ 4.5	43.4	40.1	5.9	12.6	2.1	80	53.7	41.1	49.4	0.020	0.0	8.1
6	29.826	50.6	44.9	5.7	48.2	+ 6.7	46.1	43.7	4.5	9.6	1.2	84	52.1	42.1	49.3	0.330	0.0	8.0
7	29.251	50.1	34.2	15.9	39.6	- 1.7	37.6	34.5	5.1	9.5	1.2	82	51.2	26.5	49.0	0.568	1.7	8.0
8	29.457	41.5	32.3	9.2	37.2	- 3.8	35.3	32.1	5.1	9.4	2.5	81	51.8	24.5	49.0	0.000	1.3	8.0
9	29.584	50.8	41.5	9.3	47.9	+ 7.3	45.9	43.6	4.3	6.1	1.9	85	59.7	36.0	48.9	0.000	0.0	8.0
10	29.709	55.3	50.8	4.5	53.6	+13.2	51.9	50.3	3.3	4.7	2.5	88	59.2	47.4	48.8	0.000	0.0	8.0
11	29.680	54.9	48.7	6.2	51.7	+11.5	48.8	45.7	6.0	9.4	4.0	80	75.8	42.8	48.7	0.130	1.9	7.9
12	29.599	54.6	43.3	11.3	49.7	+ 9.4	47.4	44.9	4.8	10.8	2.0	83	66.8	36.0	48.8	0.104	1.5	7.9
13	29.854	51.1	40.6	10.5	46.6	+ 6.1	43.8	40.3	6.3	7.6	2.6	78	56.5	33.0	48.7	0.000	0.0	7.9
14	29.647	57.0	50.4	6.6	53.5	+12.8	52.1	50.8	2.7	5.3	1.2	91	56.6	46.0	49.0	0.381	0.0	7.9
15	29.803	54.5	46.7	7.8	49.8	+ 9.0	46.6	42.8	7.0	11.1	3.2	77	79.7	39.3	49.0	0.000	3.1	7.9
16	29.831	47.2	37.3	9.9	43.6	+ 2.9	40.8	36.9	6.7	9.5	3.4	77	72.9	29.0	49.0	0.000	5.2	7.9
17	29.958	45.9	36.3	9.6	41.8	+ 1.4	39.1	34.9	6.9	9.8	2.2	77	51.3	28.0	49.0	0.000	0.0	7.8
18	30.183	42.4	28.5	13.9	37.1	- 2.9	34.8	30.8	6.3	11.0	1.4	78	54.1	19.0	48.7	0.000	0.1	7.8
19	30.294	43.3	27.7	15.6	36.3	- 3.2	35.1	33.0	3.3	4.9	0.0	88	48.7	17.7	48.5	0.000	0.0	7.8
20	30.401	43.9	35.0	8.9	38.7	- 0.3	38.2	37.5	1.2	4.7	0.0	95	44.1	27.1	48.3	0.000	0.0	7.8
21	30.332	42.4	31.9	10.5	36.7	- 2.0	35.5	33.5	3.2	8.4	0.0	88	49.5	29.1	48.0	0.001*	1.1	7.8
22	30.248	49.7	41.1	8.6	45.0	+ 6.6	43.8	42.4	2.6	3.6	1.8	91	56.7	32.0	47.9	0.015	0.0	7.8
23	30.307	46.8	37.3	9.5	41.8	+ 3.6	40.4	38.5	3.3	6.7	0.2	88	59.2	27.2	47.7	0.000	2.0	7.8
24	30.193	52.0	45.8	6.2	48.2	+10.0	45.0	41.0	7.2	11.2	4.5	76	70.8	38.2	47.7	0.000	2.6	7.8
25	30.193	51.1	34.0	17.1	45.4	+ 7.0	42.7	39.1	6.3	8.6	2.8	79	59.7	24.0	47.6	0.000	0.9	7.8
26	30.212	39.4	27.9	11.5	34.8	- 3.8	33.0	29.9	4.9	10.0	1.0	81	49.1	17.2	47.3	0.000	0.0	7.8
27	30.006	44.9	28.3	16.6	38.5	- 0.3	37.0	34.8	3.7	6.1	0.0	86	47.9	19.4	47.3	0.022	0.0	7.9
28	30.205	36.7	26.4	10.3	31.5	- 7.4	29.9	27.8	3.7	9.4	0.0	83	67.2	17.0	47.0	0.001*	6.1	7.9
29	30.276	35.0	20.1	14.9	29.2	- 9.8	28.2	26.5	2.7	6.1	0.0	88	43.5	10.6	46.7	0.000	1.1	7.9
30	30.346	39.1	34.7	4.4	36.9	- 2.0	36.0	34.4	2.5	3.3	1.1	91	41.9	27.9	46.6	0.000	0.0	7.9
31	30.333	39.2	35.8	3.4	38.0	- 0.7	36.7	34.7	3.3	4.8	0.8	88	38.7	33.8	46.4	0.000	0.0	7.9
Means	30.053	46.7	37.1	9.6	42.3	+ 2.4	40.5	38.1	4.2	7.3	1.5	85.1	55.2	30.5	48.4	Sum 1.783	0.9	7.9
No. of Col. for Ref.	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.

*Rainfall (Column 16). The amount entered on December 21 is derived from wet fog, and that on December 28 from hoar frost.

The mean reading of the Barometer for the month was 30.053 in., being 0.261 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 57° 0 on December 14; the lowest in the month was 20° 1 on December 29; and the range was 36° 9.

The mean of all the highest daily readings in the month was 46° 7, being 2° 5 higher than the average for the 65 years, 1841-1905.†

The mean of all the lowest daily readings in the month was 37° 1, being 1° 6 higher than the average for the 65 years, 1841-1905.†

The mean of the daily ranges was 9° 6, being 0° 9 greater than the average for the 65 years, 1841-1905.†

The mean for the month was 42° 3, being 2° 4 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.xix).

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1941	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				
					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					
Dec. 1	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	83	b x c m f	c Stcu ff	c Nbst r _o rr f	rr o ff
2	0.0	0.00	0.0	0.00	Calm	Calm	0.2	0.01	90	o ff	o ff c f	f F	FF
3	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	135	f Fe	Fe f b c F	o St Ff	o ff
4	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	132	o ff	o St ff	o St ff	o c ff
5	0.0	0.00	0.0	0.00	Calm:WSW	WSW	1.3	0.11	246	c f m	c Stcu m m _o	c Stcu Acu Ast m m _o	c id c
6	0.0	0.00	0.0	0.00	SW	SW	7.4	1.43	495	c	c Prst Nbst	c Nbst d	d _o d rr R
7	10.7	0.78	10.5	0.76	N:W:WNW	WNW	5.0	0.50	383	R rrc m	c bc Stcu Acu m	bc Frcu c	rr b x
8	2.2	0.16	1.3	0.09	WNW	WNW:WSW	1.2	0.14	271	b x	bc f m Ci m _o	bc c Stcu m _o	c b c m _o
9	0.1	0.01	0.1	0.01	WSW	WSW	2.5	0.41	371	c m _o	d _o c Prst Stcu d _o m _o	c Acu Stcu Prst m _o	c
10	1.1	0.08	0.9	0.07	WSW	SW	6.0	0.82	446	c	c Prst Stcu id _o	c Prst id _o	c id _o
11	0.0	0.00	0.0	0.00	SW:W	WSW:SW	7.8	1.09	466	c rrc p	c Stcu Acu Prst	c Stcu Ci	c
12	12.1	0.88	11.5	0.84	SW	WSW	5.3	0.96	467	c	c Nbst Prst r _o d _o rr p bc	bc Prst Nbst p c b	b
13	0.0	0.00	0.0	0.00	W:WSW	SW:SSW	5.6	0.59	390	b c b c w m _o	c Ast Acu m _o	c Ast	c id _o r _o m _o
14	0.2	0.01	0.0	0.00	SW:SSW	SW:WSW	8.5	1.24	455	c lr _o m _o	c Nbst d _o d _o rr m _o	rr Nbst	c r _o c
15	8.6	0.62	2.8	0.20	SW:WSW	SW:WSW	4.5	0.68	406	c	c Stcu Acu bc Frcu Ast	bc Ci Ast Prst so-ha p b	b c bc
16	10.3	0.75	10.0	0.73	WSW	WSW	1.8	0.22	307	bc m _o w	bc b Ci Acu Frcu m _o	bc b Ci Frcu Acu Cicu m _o	b bc b x
17	8.8	0.64	8.0	0.58	W:NW:N	NNW:N	2.8	0.22	292	b c b c m	c r _o c Stcu Prst	c Stcu Prst b	c bc
18	9.2	0.67	2.7	0.20	Calm:N	Calm	0.4	0.01	154	bc b x c m	c b Cicu Ci Acu bc m	c m Stcu Ci b f	b ff x
19	2.0	0.15	1.7	0.12	Calm	Calm	0.0	0.00	122	b f c ff	c ff	c ff	c ffe
20	0.0	0.00	0.0	0.00	Calm	Calm	0.2	0.00	91	ff b x f	Fe Fe	Fe f	ff
21	..	..	..	..	Calm	Calm:SW	0.0	0.00	127	f Fe	Fe Fe b f Ci	b c Stcu b ff	b f c id _o m
22	..	..	..	..	WSW	WSW:NW	1.1	0.03	210	c id _o m	c St id _o r c m f	c Stcu m f	b c b m f
23	..	..	..	..	WSW	WSW:W	2.0	0.10	258	b c f x	c bc Ci St Ci b c f m	bc b m	b c m
24	1.7	0.12	1.3	0.10	WSW:W:WNW	WNW:WSW	4.5	0.37	364	c m	c bc Ci Cicu c Frcu m	c bc Ci Ast Acu m _o	bc b c m _o
25	13.5	0.97	13.4	0.96	W:WNW	NNE:N	4.0	0.28	303	c m	c Prst m lr _o m _o	c b	b x
26	2.3	0.16	1.1	0.08	Calm	WSW	1.8	0.10	219	b x m f	c Ast Acu m f	c Acu f m m _o	c
27	7.3	0.52	3.5	0.25	W:NW:NNE	NNE:Calm	2.4	0.18	239	c	lr _o Nbst c m _o	c bc m _o	b bc x
28	13.4	0.98	13.3	0.97	Calm:SE	SE:Calm	2.3	0.17	196	b c x m	c b Cicu Frcu m	b Frcu	b x m
29	0.3	0.02	0.0	0.00	Calm	WSW:Calm	0.0	0.00	92	b m x	b ff x	b bc Prst Acu ff c d _o	c f
30	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	103	o ff	o ff	o b c ff	c ff
31	0.0	0.00	0.0	0.00	Calm	Calm	0.1	0.00	127	c ff	c ff	o ff	o ff
Means	3.7	0.27	2.9	0.21	..	..	..	0.31	259				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 40°.5, being 2°.0 higher than
 The mean *Temperature of the Dew Point* for the month was 38°.1, being 1°.7 higher than
 The mean *Degree of Humidity* for the month was 85.1, being 2.4 less than
 The mean *Elastic Force of Vapour* for the month was 0.230 in., being 0.014 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 7.7.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.116. The maximum daily amount of *Sunshine* was 6.1 hours on December 28.
 The highest reading of the *Solar Radiation Thermometer* was 79°.7 on December 15; and the lowest reading of the *Terrestrial Radiation Thermometer* was 10°.6 on December 29.
 The *Proportions of Wind* referred to the cardinal points were N.11, E.3, S.19, W.47, calm or nearly calm conditions, 20, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 8.5 lbs. on the square foot on December 14. The mean daily *Horizontal Movement of the Air* for the month was 259 miles; the greatest daily value was 495 miles on December 6, and the least daily value was 83 miles on December 1.
Rain (0.005 in. or over) fell on 9 days in the month, amounting to 1.783 in., as measured by gauge No. 6 partly sunk below the ground; being 0.044 in. less than the average fall for the 65 years, 1841-1905.

} the average 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., 1941.	Reading	U.T., 1941.	Reading	U.T., 1941.	Reading	U.T., 1941.	Reading	U.T., 1941.	Reading	U.T., 1941.	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		September		September	
4. 9. 45	30.391	6. 14. 40	30.018	4. 0. 15	30.161	6. 18. 0	29.904	3. 9. 40	30.186	6. 4. 20	29.838
9. 10. 45	30.377	11. 14. 0	29.955	8. 7. 15	30.038	9. 16. 15	29.907	8. 9. 45	30.283	11. 12. 30	29.864
12. 11. 0	30.065	15. 6. 0	29.279	12. 7. 15	30.125	15. 4. 30	29.842	13. 9. 25	30.096	14. 16. 0	29.922
17. 21. 10	29.643	19. 4. 0	28.880	15. 23. 0	29.912	18. 17. 0	29.350	16. 10. 30	30.343	24. 16. 0	29.921
19. 19. 45	29.232	21. 16. 50	28.619	21. 7. 0	29.911	23. 6. 30	29.270	25. 10. 20	30.001	28. 11. 15	29.621
27. 4. 0	29.890	28. 5. 50	29.684	24. 7. 45	29.575	26. 16. 20	29.034	October		October	
29. 18. 30	29.831	31. 6. 30	29.328	June		June		2. 9. 35	30.261	5. 15. 10	30.040
February		February		1. 9. 0	30.063	9. 20. 30	29.320	8. 9. 35	30.128	11. 5. 22	29.450
1. 19. 35	29.551	2. 17. 15	29.342	11. 21. 45	29.900	12. 16. 0	29.771	12. 20. 50	30.282	14. 17. 10	29.729
4. 18. 45	30.151	6. 5. 10	29.402	14. 7. 10	30.040	15. 4. 57	29.885	15. 11. 10	29.941	16. 11. 35	29.657
6. 21. 50	29.680	7. 9. 10	29.464	16. 8. 20	30.131	18. 16. 25	29.927	16. 23. 55	29.855	18. 13. 22	29.379
11. 1. 40	29.930	13. 3. 0	29.133	19. 23. 20	30.037	22. 18. 45	29.763	22. 1. 35	30.305	22. 15. 0	30.156
13. 19. 30	29.261	15. 0. 20	28.926	24. 0. 45	29.949	25. 16. 50	29.834	25. 9. 35	30.299	26. 6. 35	30.087
15. 15. 20	29.230	16. 14. 45	28.642	27. 23. 30	30.155	28. 17. 35	30.052	26. 20. 35	30.216	28. 6. 15	29.521
22. 1. 45	29.408	22. 21. 15	29.075	29. 6. 15	30.104	30. 17. 20	29.968	29. 2. 10	29.750	29. 12. 30	29.597
23. 18. 15	29.381	24. 5. 0	29.290	July		July		30. 8. 35	29.786	31. 6. 0	29.623
26. 15. 0	29.850	27. 15. 55	29.370	1. 21. 50	30.067	3. 17. 0	29.801	November		November	
March		March		6. 0. 15	30.054	11. 17. 0	29.464	3. 10. 25	30.013	4. 6. 20	29.894
1. 10. 58	29.670	2. 7. 50	29.317	12. 22. 40	29.549	13. 10. 45	29.479	5. 10. 40	30.083	7. 0. 25	29.717
3. 11. 15	29.434	4. 14. 15	29.188	14. 8. 10	29.672	15. 7. 0	29.376	8. 10. 30	29.972	10. 14. 50	28.981
5. 9. 5	29.377	8. 1. 0	29.191	17. 11. 0	30.043	19. 23. 0	29.728	11. 10. 55	29.211	12. 2. 37	29.025
11. 22. 20	29.991	13. 4. 0	29.814	20. 23. 50	29.965	22. 19. 40	29.653	14. 17. 30	29.874	16. 16. 0	29.162
16. 0. 45	30.222	16. 17. 35	30.138	23. 23. 20	29.873	26. 5. 25	29.605	18. 20. 40	29.847	19. 14. 5	29.667
20. 11. 0	30.262	23. 5. 0	29.556	28. 0. 15	29.791	29. 8. 15	29.605	20. 10. 5	29.738	21. 13. 55	29.629
24. 7. 20	29.955	28. 16. 30	29.245	August		August		21. 23. 15	29.737	22. 22. 0	29.499
31. 8. 15	29.685	April		2. 10. 35	29.938	5. 3. 50	29.411	25. 23. 35	30.168	27. 21. 30	29.770
April		2. 16. 20	28.948	6. 14. 40	29.767	8. 15. 40	29.548	29. 11. 30	30.111	30. 13. 45	30.047
7. 20. 40	30.289	9. 16. 35	30.185	9. 11. 40	29.802	10. 3. 15	29.587	December		December	
10. 8. 45	30.340	14. 16. 50	29.597	10. 13. 50	29.716	11. 16. 10	29.514	2. 21. 15	30.561	7. 6. 20	29.203
16. 7. 40	29.813	18. 18. 0	29.235	12. 23. 5	29.774	13. 19. 25	29.484	10. 11. 0	29.743	11. 3. 20	29.513
24. 13. 0	30.048	27. 5. 15	29.555	14. 9. 45	29.645	15. 22. 45	29.235	11. 15. 20	29.779	12. 12. 0	29.525
29. 12. 45	29.877	30. 18. 0	29.586	17. 22. 5	29.531	18. 6. 5	29.412	13. 9. 40	29.950	14. 15. 30	29.516
				19. 9. 0	29.803	22. 0. 0	29.522	20. 10. 5	30.432	22. 13. 15	30.210
				22. 23. 40	29.750	23. 21. 0	29.442	23. 9. 20	30.361	25. 9. 20	30.130
				24. 21. 15	29.888	25. 12. 30	29.613	26. 2. 25	30.337	27. 5. 50	29.866
				27. 10. 10	29.910	28. 6. 0	29.567	30. 10. 20	30.379		
				28. 21. 40	29.655	29. 14. 55	29.593				

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 the 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 1941.

	January	February	March	April	May	June	July	August	September	October	November	December
HIGHEST	in. 30.391	in. 30.151	in. 30.262	in. 30.340	in. 30.161	in. 30.155	in. 30.067	in. 29.938	in. 30.343	in. 30.305	in. 30.168	in. 30.561
LOWEST	28.619	28.642	29.188	28.948	29.034	29.320	29.376	29.235	29.621	29.379	28.981	29.203
RANGE	1.772	1.509	1.074	1.392	1.127	0.835	0.691	0.703	0.722	0.926	1.187	1.358

The highest reading in the year was 30.561 in. on Dec. 2. The lowest reading in the year was 28.619 in. on Jan. 21. The range of reading in the year was 1.942 in.

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	29.653	29.413	29.715	29.763	29.755	29.900	29.796	29.664	30.063	29.981	29.759	30.050	29.793
1	29.649	29.409	29.712	29.758	29.753	29.897	29.794	29.661	30.058	29.977	29.756	30.045	29.789
2	29.648	29.406	29.708	29.754	29.750	29.892	29.789	29.659	30.054	29.972	29.753	30.047	29.786
3	29.645	29.400	29.701	29.750	29.748	29.889	29.786	29.657	30.049	29.965	29.748	30.045	29.782
4	29.639	29.397	29.699	29.747	29.746	29.889	29.787	29.655	30.046	29.961	29.745	30.043	29.780
5	29.633	29.396	29.698	29.748	29.750	29.892	29.788	29.656	30.046	29.958	29.745	30.042	29.779
6	29.633	29.396	29.702	29.755	29.756	29.897	29.791	29.660	30.050	29.957	29.744	30.043	29.782
7	29.638	29.403	29.710	29.761	29.761	29.901	29.796	29.666	30.056	29.962	29.747	30.048	29.787
8	29.648	29.411	29.719	29.764	29.766	29.903	29.798	29.670	30.059	29.966	29.757	30.057	29.793
9	29.654	29.416	29.729	29.766	29.766	29.905	29.795	29.674	30.063	29.971	29.761	30.064	29.797
10	29.658	29.421	29.732	29.767	29.766	29.904	29.792	29.677	30.062	29.972	29.764	30.073	29.799
11	29.658	29.424	29.732	29.763	29.764	29.903	29.788	29.677	30.059	29.971	29.760	30.068	29.797
12	29.652	29.419	29.729	29.758	29.759	29.900	29.786	29.675	30.054	29.965	29.751	30.057	29.792
13	29.642	29.414	29.724	29.755	29.756	29.896	29.783	29.673	30.048	29.960	29.745	30.051	29.787
14	29.641	29.405	29.716	29.748	29.752	29.891	29.782	29.672	30.042	29.959	29.739	30.047	29.783
15	29.644	29.404	29.710	29.741	29.747	29.886	29.777	29.669	30.034	29.957	29.740	30.045	29.779
16	29.647	29.405	29.706	29.738	29.743	29.880	29.772	29.668	30.029	29.958	29.745	30.047	29.778
17	29.652	29.409	29.706	29.738	29.742	29.876	29.769	29.667	30.031	29.966	29.751	30.050	29.780
18	29.657	29.417	29.709	29.741	29.743	29.877	29.770	29.667	30.037	29.975	29.758	30.053	29.784
19	29.661	29.421	29.713	29.751	29.750	29.881	29.774	29.672	30.045	29.979	29.761	30.057	29.789
20	29.662	29.419	29.716	29.764	29.759	29.888	29.779	29.680	30.053	29.981	29.766	30.057	29.794
21	29.663	29.418	29.716	29.770	29.767	29.897	29.786	29.683	30.057	29.983	29.768	30.058	29.797
22	29.662	29.419	29.714	29.771	29.768	29.900	29.789	29.684	30.059	29.982	29.768	30.060	29.798
23	29.662	29.418	29.712	29.771	29.769	29.900	29.788	29.682	30.058	29.978	29.770	30.060	29.797
24	29.659	29.418	29.709	29.771	29.768	29.900	29.787	29.679	30.058	29.975	29.768	30.056	29.796
Means { 0 ^h -23 ^h	29.650	29.411	29.714	29.756	29.756	29.893	29.786	29.669	30.050	29.969	29.754	30.053	29.788
Means { 1 ^h -24 ^h	29.650	29.411	29.713	29.756	29.756	29.893	29.785	29.670	30.050	29.969	29.755	30.053	29.788
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	33.5	37.6	39.4	41.3	44.9	55.9	60.9	56.3	55.4	48.9	42.8	41.4	46.5
1	33.3	37.4	39.1	40.7	44.2	54.9	59.8	55.6	54.8	48.5	42.4	40.8	46.0
2	33.2	37.1	38.7	40.1	43.5	54.2	58.9	54.9	54.6	48.1	42.2	40.5	45.5
3	32.8	36.7	38.0	39.5	42.9	53.5	58.0	54.3	54.1	47.7	42.4	40.5	45.0
4	32.9	36.4	37.4	39.1	42.2	52.8	57.2	53.7	53.6	47.4	42.2	40.7	44.6
5	33.0	36.4	37.1	39.0	42.5	53.0	57.4	53.6	53.7	47.3	42.4	40.6	44.7
6	33.1	36.9	37.3	39.4	43.7	54.7	59.2	54.2	54.0	47.5	42.7	40.9	45.3
7	33.3	37.0	37.9	41.0	46.1	57.0	62.1	55.7	54.8	48.0	42.9	41.0	46.4
8	33.7	37.5	38.8	43.1	48.5	59.3	64.9	57.7	56.5	49.6	43.2	41.2	47.8
9	34.0	38.5	40.5	45.3	50.5	61.7	67.7	60.0	58.8	51.7	44.3	41.4	49.5
10	34.4	39.8	42.4	46.9	52.2	63.7	70.1	61.5	60.8	53.6	45.7	42.1	51.1
11	35.1	41.2	44.1	47.9	53.5	65.1	71.5	62.9	62.6	55.0	46.9	43.2	52.4
12	35.5	42.2	45.6	48.6	54.5	66.1	72.6	63.7	63.5	56.0	47.9	44.0	53.3
13	35.8	42.8	46.4	48.9	55.3	67.2	73.0	64.3	64.5	56.4	48.4	44.6	54.0
14	35.7	43.3	46.8	49.1	55.6	67.8	73.4	65.4	65.2	56.3	48.3	44.9	54.3
15	35.6	43.4	47.1	49.4	55.8	68.0	73.7	65.3	65.5	55.9	47.7	44.6	54.3
16	35.4	42.9	46.7	49.0	55.4	67.7	73.3	64.9	64.9	55.1	47.1	44.2	53.9
17	34.9	41.9	45.6	48.2	54.4	67.1	72.4	63.8	63.6	53.9	46.4	43.8	53.0
18	34.5	40.8	44.2	47.4	53.6	66.0	71.0	62.7	61.7	52.4	45.6	43.4	51.9
19	34.2	40.0	42.7	46.0	51.7	64.1	69.2	60.9	59.8	51.4	44.9	42.9	50.7
20	33.8	39.3	41.6	44.6	50.0	62.0	67.1	59.3	58.3	50.6	44.4	42.4	49.5
21	33.6	38.7	40.8	43.5	48.2	60.1	65.0	58.0	57.1	49.9	43.8	42.0	48.4
22	33.4	38.4	40.2	42.8	46.9	58.5	63.4	57.3	56.4	49.3	43.3	41.7	47.6
23	33.5	38.2	39.8	42.2	45.9	57.3	62.0	56.7	55.8	48.9	43.0	41.7	48.1
24	33.5	37.9	39.2	41.6	45.2	56.1	60.9	56.1	55.2	48.4	42.6	41.6	46.5
Means { 0 ^h -23 ^h	34.1	39.4	41.6	44.3	49.2	60.7	66.0	59.3	58.7	51.2	44.6	42.3	49.3
Means { 1 ^h -24 ^h	34.1	39.4	41.6	44.3	49.2	60.7	66.0	59.3	58.7	51.2	44.6	42.3	49.3
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	32.5	36.4	38.0	38.8	42.4	53.2	58.2	54.6	53.7	46.9	41.3	39.9	44.7	
1	32.5	36.1	37.8	38.5	42.0	52.6	57.6	54.2	53.2	46.7	41.1	39.6	44.3	
2	32.4	35.9	37.6	37.9	41.7	52.1	56.8	53.7	53.1	46.5	41.1	39.5	44.0	
3	32.1	35.6	36.9	37.6	41.2	51.7	56.3	53.2	52.8	46.1	41.2	39.5	43.7	
4	32.1	35.5	36.5	37.3	40.9	51.2	55.7	52.8	52.5	46.0	41.1	39.6	43.4	
5	32.2	35.5	36.3	37.1	40.9	51.2	55.6	52.4	52.4	45.9	41.2	39.5	43.4	
6	32.3	35.8	36.2	37.3	41.7	52.3	56.7	52.7	52.4	45.9	41.4	39.7	43.7	
7	32.4	35.8	36.5	38.6	43.3	53.6	58.1	53.8	53.1	46.2	41.4	39.6	44.4	
8	32.6	36.1	37.2	40.0	44.7	54.7	59.5	55.0	54.4	47.4	41.7	39.7	45.3	
9	33.0	36.9	38.5	41.4	45.6	56.0	60.7	56.1	55.9	48.9	42.6	39.9	46.3	
10	33.4	37.8	39.7	42.3	46.3	57.0	61.7	56.8	57.0	49.9	43.8	40.3	47.2	
11	33.9	38.7	40.7	42.7	47.0	57.9	62.2	57.1	57.8	50.7	44.5	40.9	47.8	
12	34.3	39.2	41.5	43.0	47.4	58.3	62.5	57.4	58.1	51.0	45.0	41.5	48.3	
13	34.4	39.6	42.1	43.1	47.9	58.9	62.7	57.8	58.8	51.0	45.3	41.8	48.6	
14	34.4	39.9	42.3	43.4	48.2	59.4	62.9	58.5	59.2	50.9	45.2	42.0	48.9	
15	34.2	39.7	42.3	43.6	48.2	59.8	63.1	58.3	59.4	50.7	44.8	41.9	48.8	
16	34.0	39.3	42.1	43.3	47.9	59.7	63.0	58.0	59.1	50.3	44.3	41.7	48.6	
17	33.6	38.9	41.6	42.9	47.5	59.3	62.6	57.6	58.6	49.7	43.9	41.4	48.1	
18	33.4	38.4	40.8	42.6	47.3	58.8	62.3	57.3	57.6	49.0	43.5	41.2	47.7	
19	33.1	37.8	40.0	41.7	46.5	58.1	61.6	56.6	56.4	48.2	43.0	40.9	47.0	
20	32.9	37.4	39.3	40.9	45.5	57.1	61.2	55.9	55.6	47.8	42.6	40.6	46.4	
21	32.7	37.2	38.9	40.3	44.6	56.0	60.5	55.5	55.0	47.4	42.2	40.4	45.9	
22	32.6	37.0	38.4	40.0	43.8	55.1	59.7	55.1	54.4	47.0	41.8	40.2	45.4	
23	32.6	36.8	38.2	39.5	43.2	54.3	58.8	54.8	53.9	46.7	41.5	40.1	45.0	
24	32.6	36.6	37.8	39.1	42.6	53.3	58.2	54.5	53.5	46.5	41.1	40.1	44.7	
Means {	0 ^h -23 ^h	33.1	37.4	39.1	40.6	44.8	55.8	60.0	55.6	55.6	48.2	42.7	40.5	46.1
	1 ^h -24 ^h	33.1	37.4	39.1	40.6	44.8	55.8	60.0	55.6	55.6	48.2	42.7	40.5	46.1
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	30.8	34.5	36.0	35.0	39.0	50.8	56.1	53.2	52.2	44.7	39.2	37.9	42.5	
1	31.1	34.0	35.9	35.2	39.3	50.5	56.1	53.0	51.7	44.7	39.3	38.0	42.4	
2	31.0	33.9	35.9	34.5	39.3	50.1	55.1	52.7	51.7	44.7	39.7	38.1	42.2	
3	30.9	33.7	35.1	34.7	38.8	50.0	54.9	52.3	51.6	44.3	39.6	38.1	42.0	
4	30.8	33.9	35.0	34.6	39.2	49.6	54.5	52.0	51.5	44.4	39.7	38.1	41.9	
5	30.9	33.9	35.0	34.2	38.7	49.6	54.1	51.3	51.2	44.3	39.6	38.0	41.7	
6	31.0	33.9	34.4	34.0	39.0	50.1	54.7	51.3	50.9	44.1	39.6	38.1	41.8	
7	30.9	33.8	34.4	34.9	39.7	50.5	55.0	52.2	51.5	44.2	39.3	37.7	42.0	
8	30.7	33.9	34.9	35.5	39.9	50.6	55.3	52.7	52.7	45.0	39.7	37.7	42.4	
9	31.2	34.5	35.5	35.7	39.5	51.0	55.5	52.8	53.5	45.9	40.4	37.9	42.8	
10	31.6	34.8	35.7	36.0	39.0	51.4	55.5	52.9	53.9	46.1	41.4	37.8	43.0	
11	31.9	34.9	35.8	35.4	39.1	51.9	55.4	52.2	53.9	46.3	41.6	37.6	43.0	
12	32.2	34.5	35.6	35.2	38.8	51.9	55.1	52.2	53.7	45.8	41.4	38.1	42.9	
13	32.0	34.8	36.2	35.1	39.1	52.2	55.1	52.5	54.3	45.4	41.5	37.9	43.0	
14	32.1	34.9	36.2	35.6	39.5	52.7	55.2	52.9	54.5	45.3	41.3	38.0	43.2	
15	31.7	34.1	35.5	35.7	39.2	53.4	55.4	52.5	54.7	45.3	41.2	38.2	43.1	
16	31.6	33.9	35.7	35.5	39.0	53.4	55.5	52.3	54.6	45.3	40.9	38.3	43.0	
17	31.5	34.1	35.9	35.5	39.2	53.1	55.5	52.5	54.6	45.3	40.8	38.1	43.0	
18	31.5	34.7	35.9	35.9	39.7	53.0	56.0	52.8	54.3	45.4	40.8	38.1	43.2	
19	31.2	34.4	36.0	35.6	40.2	53.3	56.1	53.0	53.6	44.7	40.5	38.0	43.1	
20	31.3	34.5	35.9	35.4	40.0	53.0	56.9	53.1	53.3	44.8	40.3	38.1	43.1	
21	31.2	35.0	36.2	35.7	40.0	52.5	57.2	53.4	53.3	44.7	40.1	38.2	43.1	
22	31.3	34.9	35.8	35.7	40.0	52.2	56.9	53.3	52.8	44.5	39.8	38.2	43.0	
23	31.1	34.7	36.0	35.4	39.7	51.6	56.3	53.3	52.3	44.3	39.4	37.9	42.7	
24	31.1	34.6	35.8	35.3	39.1	50.8	56.1	53.1	52.0	44.4	39.0	38.1	42.5	
Means {	0 ^h -23 ^h	31.3	34.3	35.6	35.3	39.4	51.6	55.6	52.6	53.0	45.0	40.3	38.0	42.7
	1 ^h -24 ^h	31.3	34.3	35.6	35.3	39.4	51.6	55.6	52.6	53.0	45.0	40.3	38.0	42.7

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	90	89	87	78	80	83	84	89	89	85	87	87	86	
1	92	88	88	80	82	85	87	91	89	86	89	89	87	
2	92	89	90	80	85	86	87	92	90	88	90	91	88	
3	93	89	90	83	86	88	89	93	91	88	90	91	89	
4	92	91	91	84	89	89	91	94	92	89	90	90	90	
5	92	91	92	83	86	87	89	92	91	89	90	90	89	
6	92	89	90	81	84	84	85	90	89	88	89	89	87	
7	91	89	87	79	78	79	77	87	89	86	87	87	85	
8	89	87	85	74	72	73	71	83	87	84	87	87	82	
9	90	85	82	69	66	68	65	77	83	81	86	87	78	
10	90	82	77	65	61	64	60	73	78	75	85	84	75	
11	88	78	72	62	58	62	57	68	73	73	81	81	71	
12	88	74	68	60	55	60	54	66	71	69	78	79	69	
13	86	73	67	59	54	59	54	66	70	66	77	77	67	
14	87	72	66	60	55	59	53	64	69	66	77	77	67	
15	86	70	64	59	54	60	53	64	68	68	78	78	67	
16	86	70	65	59	54	60	54	64	69	70	79	80	68	
17	87	74	69	61	56	61	55	67	73	73	81	80	70	
18	89	78	72	64	59	63	59	70	76	77	83	82	73	
19	89	80	77	67	65	68	63	75	80	78	85	83	76	
20	90	83	80	70	69	73	70	80	84	80	85	84	79	
21	91	86	83	74	73	76	76	85	87	82	87	86	82	
22	91	87	84	76	76	79	79	86	87	83	87	87	83	
23	91	87	86	77	79	82	82	88	88	83	87	86	85	
24	91	88	87	78	80	82	84	90	89	86	87	87	86	
Means	0 ^h -23 ^h	90	83	80	71	70	73	71	79	82	79	85	85	79
	1 ^h -24 ^h	90	83	80	71	70	73	71	79	82	79	85	85	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 1941

MONTH 1941	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	-	-	-	-	0.0	1.8	3.3	4.9	5.8	4.5	2.1	-	-	-	-	-	22.4	261.0	0.086	18
February	-	-	-	0.3	4.0	6.6	7.3	7.6	5.2	6.3	4.9	1.8	-	-	-	-	44.0	279.0	0.158	26
March	-	-	0.6	6.3	9.0	9.8	11.1	11.9	12.5	11.1	10.4	8.9	6.1	0.7	-	-	98.4	368.0	0.267	37
April	-	1.0	4.6	6.8	8.3	9.5	8.6	7.7	5.2	6.3	5.9	5.9	3.9	3.0	0.2	-	76.9	415.6	0.185	48
May	0.1	5.6	10.2	11.8	11.5	11.6	9.7	10.1	8.7	8.9	9.7	9.4	8.4	9.7	4.5	0.1	130.0	483.9	0.269	57
June	3.4	10.4	11.8	12.4	14.3	15.1	15.7	15.8	16.7	15.4	15.5	13.4	13.2	10.6	8.4	2.3	194.4	496.3	0.392	62
July	3.2	12.2	16.8	20.1	17.9	20.6	18.5	18.9	17.3	17.5	18.4	16.6	13.3	9.8	7.5	2.9	231.5	499.8	0.463	60
August	-	5.2	10.8	11.3	13.7	14.1	14.4	13.0	14.0	16.8	14.2	12.7	9.7	8.4	4.9	0.2	163.4	452.2	0.361	52
September	-	-	1.2	4.5	6.9	9.3	11.1	12.3	13.0	13.2	13.2	14.0	10.5	1.7	0.0	-	110.9	380.1	0.292	41
October	-	-	-	3.2	10.2	11.9	14.5	12.5	11.5	9.6	8.6	8.5	2.7	-	-	-	93.2	331.6	0.281	30
November	-	-	-	-	1.0	4.2	5.6	4.1	5.5	4.3	3.3	1.0	-	-	-	-	29.0	267.3	0.109	20
December	-	-	-	-	-	2.6	5.0	7.0	7.0	4.2	2.7	0.1	-	-	-	-	28.6	245.6	0.116	16
For the Year	6.7	34.4	56.0	76.7	96.8	117.1	124.8	125.8	122.4	118.1	108.9	92.3	67.8	43.9	25.5	5.5	1222.7	4480.4	0.273	..

The hours are reckoned from "Apparent" midnight.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1941.

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	37.0	28.7	34.1	34.6	32.7	28.7	31.4	30.7	29.1	26.1	1	53.1	42.0	45.0	48.7	52.7	46.3	42.4	44.3	46.7	43.7
2	29.3	24.2	27.8	29.1	28.1	24.2	25.2	26.3	24.1	21.8	2	51.5	44.0	46.5	49.6	51.1	44.0	45.6	45.0	44.3	42.0
3	29.9	22.8	26.6	29.6	28.6	26.6	24.6	27.3	26.1	24.7	3	52.8	39.7	45.5	48.5	50.3	42.6	42.3	43.8	44.0	41.0
4	32.4	26.6	30.2	32.2	32.4	31.9	27.0	29.5	29.2	30.2	4	48.3	31.2	37.1	44.6	45.6	37.4	36.5	41.2	40.3	35.6
5	32.8	31.2	32.1	32.6	32.4	31.2	29.5	31.5	32.1	30.4	5	47.9	30.1	35.7	43.7	46.2	40.2	34.1	39.2	39.7	37.8
6	32.5	29.2	32.2	31.6	30.0	29.2	31.5	30.8	29.2	28.7	6	41.1	37.6	39.6	40.0	40.6	39.5	38.8	39.6	40.0	38.9
7	29.7	27.3	28.5	28.6	29.6	29.7	28.2	28.2	28.9	28.9	7	46.7	35.6	37.9	39.9	44.3	46.5	37.5	39.5	43.8	45.6
8	36.0	29.7	33.1	35.1	35.5	35.1	31.6	33.2	34.3	34.0	8	51.0	42.2	45.6	49.0	49.2	42.2	43.2	44.2	44.2	40.8
9	36.2	29.3	31.1	34.6	34.8	31.5	29.0	31.8	33.4	30.6	9	44.9	34.3	37.8	44.4	43.8	36.0	37.4	42.0	41.8	35.2
10	38.0	31.5	33.9	37.4	37.6	36.4	31.2	34.5	34.7	35.4	10	50.9	34.1	39.3	49.5	48.2	41.4	38.7	44.2	44.5	40.1
11	39.8	36.4	38.4	39.6	39.8	38.2	37.7	38.4	38.0	36.8	11	45.0	39.3	40.3	44.5	42.1	39.4	38.7	41.3	39.7	37.4
12	38.2	34.4	35.5	36.8	37.6	35.4	34.1	35.0	35.1	34.3	12	41.5	36.3	38.4	37.5	38.6	41.0	36.8	36.5	36.5	37.4
13	38.0	30.5	32.1	35.5	37.6	37.9	31.8	34.6	35.9	36.6	13	48.0	35.6	41.0	45.2	47.3	40.7	35.6	38.9	40.0	38.6
14	37.9	30.7	34.4	35.5	36.1	30.7	33.9	35.0	35.0	30.2	14	55.0	35.4	42.6	52.5	53.3	40.0	39.7	43.2	43.4	36.5
15	34.0	27.0	33.5	31.9	30.8	27.0	33.2	31.6	29.8	26.5	15	44.6	33.2	36.5	42.8	43.5	37.8	36.2	40.9	41.6	37.2
16	30.7	18.4	25.0	29.4	30.7	24.4	24.7	27.9	27.7	23.4	16	47.1	31.1	32.4	38.4	45.6	36.6	32.3	36.7	42.4	35.8
17	30.6	21.0	23.7	27.3	30.6	22.6	22.7	25.8	27.4	21.8	17	42.1	31.3	36.6	39.6	41.5	39.5	36.3	38.4	38.6	37.5
18	31.8	21.4	30.5	31.1	30.0	31.3	29.5	30.3	29.8	31.3	18	53.4	28.8	40.4	49.6	52.7	35.4	37.7	42.7	43.5	34.0
19	40.8	31.3	38.6	39.4	36.8	31.9	36.9	37.6	35.7	31.2	19	50.4	29.7	34.0	42.6	49.4	37.0	33.6	40.2	37.9	35.6
20	38.6	31.1	34.6	35.5	35.7	38.6	34.3	35.0	35.1	38.3	20	48.4	27.9	36.9	41.2	48.1	36.4	35.7	37.6	42.4	34.4
21	45.6	38.0	41.4	43.2	44.3	45.3	41.1	42.7	43.7	43.6	21	55.6	32.2	42.6	53.0	54.2	49.4	38.9	46.6	48.3	46.4
22	48.0	40.0	42.3	45.1	46.6	40.0	40.7	43.7	44.4	39.4	22	50.9	41.4	42.2	44.6	48.4	50.0	41.8	43.9	47.2	48.0
23	42.4	36.8	40.1	41.9	42.3	39.6	39.7	41.6	41.8	39.1	23	50.0	35.1	36.6	40.2	43.3	37.4	35.6	36.9	39.1	34.8
24	41.7	37.6	38.7	40.2	41.1	39.2	38.3	39.5	40.2	38.9	24	46.5	27.0	40.7	45.6	45.1	40.0	37.6	39.1	39.2	38.6
25	40.1	37.2	39.1	39.3	38.8	37.2	38.7	39.0	38.3	36.9	25	52.7	39.8	46.7	51.2	52.4	50.0	44.2	45.8	48.3	48.0
26	37.2	35.0	36.6	36.6	36.0	35.0	36.4	36.3	35.8	34.7	26	54.1	43.8	50.5	53.5	49.9	43.8	46.4	48.0	49.1	43.4
27	35.8	33.3	33.8	34.5	34.6	35.8	33.3	34.1	34.2	35.4	27	55.6	42.5	47.1	53.9	53.0	46.0	45.2	48.6	48.2	44.5
28	42.4	35.8	39.9	41.8	42.2	39.4	39.7	41.5	41.9	39.1	28	52.7	39.4	44.2	51.9	51.6	42.8	43.6	47.3	48.2	41.8
29	39.4	33.3	35.3	34.9	34.6	34.2	34.8	34.4	34.0	33.4	29	42.8	35.0	39.1	40.9	38.8	35.0	36.6	38.2	36.0	32.2
30	39.0	33.9	34.9	37.1	39.0	38.3	34.3	36.6	38.4	37.8	30	42.8	30.6	36.6	39.1	42.4	33.3	33.3	32.7	35.6	31.2
31	38.3	36.2	37.5	38.2	37.7	36.2	37.0	37.8	37.2	35.6	31	48.0	25.4	40.1	47.3	45.8	35.5	32.2	38.7	38.3	31.8
Means	36.9	31.0	34.0	35.5	35.6	33.6	33.0	34.3	34.2	32.7	Means	48.9	35.2	40.5	45.6	47.1	40.7	38.5	41.5	42.3	38.9
FEBRUARY											APRIL										
d	°	°	°	°	°	°	°	°	°	°	d	°	°	°	°	°	°	°	°	°	°
1	40.4	33.6	34.8	38.4	40.2	34.6	34.0	36.9	36.6	32.0	1	41.1	35.4	36.3	40.8	41.0	39.4	35.5	39.2	39.8	39.0
2	36.8	31.2	33.6	35.5	35.2	31.4	31.2	32.1	32.2	29.8	2	45.1	39.4	42.2	44.5	44.6	42.5	40.8	42.6	43.7	41.7
3	33.9	29.0	30.2	31.1	33.0	32.3	28.3	29.3	30.6	30.8	3	51.6	38.4	46.6	50.6	47.9	42.1	43.4	45.7	44.0	40.8
4	34.8	29.3	31.1	34.1	33.5	30.0	30.1	31.7	30.8	29.0	4	51.2	39.3	47.1	50.3	47.3	42.0	43.4	44.3	45.2	40.7
5	33.2	20.6	28.6	32.6	32.5	30.4	27.4	30.7	30.7	29.6	5	50.0	35.8	42.0	48.8	46.3	40.8	41.2	45.4	43.0	38.5
6	41.8	28.4	36.2	40.6	40.8	35.5	35.4	38.2	38.3	34.3	6	41.0	36.9	37.8	39.6	41.0	37.9	34.5	34.8	35.8	33.9
7	51.7	32.9	43.9	48.5	51.3	44.2	43.2	47.0	47.6	43.5	7	44.1	32.8	38.9	41.6	43.6	38.8	34.4	35.8	38.0	34.8
8	52.9	44.0	50.6	52.9	51.7	49.2	49.3	48.5	49.3	47.8	8	45.5	33.0	39.9	43.8	44.7	37.2	35.4	38.0	38.7	34.2
9	52.1	49.2	50.4	50.9	51.7	49.6	48.6	48.9	48.9	46.9	9	44.1	33.1	37.7	39.2	42.1	36.0	33.6	34.3	36.2	32.8
10	50.1	42.3	43.9	49.0	49.3	42.5	41.8	44.3	44.0	40.0	10	45.2	29.5	40.3	42.2	43.7	41.0	36.6	36.4	38.0	37.4
11	51.2	30.3	33.6	47.2	47.4	42.2	33.2	43.3	44.2	41.2	11	52.8	35.4	43.6	47.2	52.4	47.4	39.3	41.7	46.0	44.8
12	43.0	39.2	40.6	41.9	42.1	41.3	40.0	40.8	41.0	40.6	12	58.8	46.0	52.6	54.5	58.3	54.3	49.1	50.9	53.7	50.9
13	48.7	39.6	41.1	43.3	48.0	39.6	40.1	41.4	44.3	38.6	13	58.2	45.0	48.3	56.0	56.2	49.3	45.9	51.5	49.8	43.7
14	49.2	37.3	43.6	46.4	48.3	44.0	41.4	43.5	43.6	41.8	14	53.1	45.6	50.7	52.4	52.0	48.0	46.9	47.8	48.5	43.4
15	49.6	38.4	43.7	47.0	47.1	38.4	40.9	43.2	43.2	37.4	15	56.2	40.3	48.2	52.1	55.0	47.2	44.5	44.4	44.9	43.7
16	47.9	37.7	40.0	42.9	47.9	43.6	38.6	41.1	44.5	42.8	16	58.4	36.2	50.6	54.6	56.7	46.2	43.8	45.4	46.1	42.8
17	48.3	41.4	45.0	47.6	47.6	41.4	44.0	45.2	45.7	40.6	17	58.9	35.3	52.1	55.7	58.1	50.0	44.5	45.7	48.3	45.2
18	44.9	39.3	41.9	43.3	44.2	42.6	41.3	42.5	43.1	41.4	18	56.8	43.7	50.9	54.1	51.3	43.7	45.7	47.5	47.5	42.0
19	42.6	32.2	34.7	37.1	39.7	35.0	33.8	35.2	35.4	33.2	19	55.7	41.3	44.7	45.3	53.7	49.4	44.2	44.3	46.5	46.6
20	38.4	32.3	34.2	36.4	38.1	32.3	31.2	32.2	33.5	31.2	20	56.2	39.9	51.9	51.6	55.8	45.1	47.7	46.1	50.4	43.1
21	40.9	28.6	31.7	38.6	40.4	37.0	30.1	32.3	34.2	34.0	21	58.2	42.8	50.2	55.6	57.5	48.0	46.5	48.6	48.8	45.0
22	41.2	28.5	34.4	40.7	40.8	35.1	31.8	35.7	36.4	33.5	22	50.3	37.5	45.2	50.2	47.8	43.1	44.3	47.6	45.7	41.4
23	42.0	31.8	34.0	39.1	41.7	33.2	32.5	34.7	36.5	31.9	23	46.7	39.2	44.1	45.5	45.8	39.2	40.3	40.3	40.0	36.2
24	40.3	28.0	32.1	38.1	39.6	37.0	30.8	34.1	34.5	34.8	24	46.1	33.3	41.2	44.9	42.8	39.2	37.4	38.4	37.7	34.5
25	41.0	31.5	34.3	39.0	40.1	31.5	3														

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
MAY										JULY											
d	o	o	o	o	o	o	o	o	o	d	o	o	o	o	o	o	o	o	o	o	
1	57.3	42.7	46.9	53.5	56.4	49.0	45.6	50.0	50.2	45.8	1	83.8	55.0	68.2	79.6	82.5	70.4	62.3	67.1	68.4	64.8
2	59.0	44.1	48.2	55.3	54.7	45.4	46.9	49.9	49.8	40.0	2	84.6	60.8	72.6	80.8	81.6	73.3	65.6	66.8	65.0	62.1
3	48.6	36.4	43.3	47.3	47.9	39.2	36.8	39.7	41.0	35.2	3	83.0	57.9	70.6	77.7	82.3	70.2	62.6	65.0	66.5	64.5
4	56.8	31.4	45.0	51.2	55.3	44.4	39.4	41.4	43.5	39.0	4	71.3	56.4	64.0	69.6	69.0	63.0	53.7	56.6	56.2	55.8
5	51.9	37.4	46.9	49.2	51.6	46.0	42.2	43.6	45.2	41.8	5	80.0	51.3	67.5	74.5	79.4	66.0	56.6	59.9	64.4	57.4
6	49.0	35.0	44.0	46.7	48.6	41.4	38.1	40.3	41.3	37.2	6	83.5	54.5	73.5	79.6	83.3	68.4	60.1	64.0	63.9	60.4
7	51.4	38.3	42.9	46.0	50.3	44.0	38.5	39.6	41.1	39.0	7	88.5	55.0	79.2	85.9	87.7	72.4	65.2	68.1	67.7	63.4
8	49.6	34.2	43.6	46.0	49.6	41.2	37.8	38.8	41.7	37.0	8	91.4	57.8	81.6	89.6	90.6	72.4	67.2	72.5	73.1	67.8
9	49.8	33.9	45.2	48.4	49.1	41.0	37.9	40.0	40.3	37.5	9	83.5	63.1	71.6	80.3	82.9	73.0	64.8	68.7	70.6	66.7
10	50.8	34.3	46.1	48.7	49.5	41.2	39.5	40.7	41.5	38.6	10	84.4	61.4	71.1	80.2	84.0	72.7	62.3	65.4	70.8	66.9
11	56.3	32.3	48.4	53.8	55.2	45.4	41.7	43.7	45.0	41.0	11	88.8	60.5	75.9	86.6	88.2	72.8	62.7	70.0	71.5	68.2
12	65.6	39.4	54.0	63.3	61.4	52.8	46.7	51.3	51.9	47.1	12	88.4	63.0	80.6	86.5	72.5	70.5	69.6	71.3	68.5	67.7
13	61.4	49.4	54.1	56.1	60.5	53.6	49.3	48.8	50.8	48.0	13	74.5	62.0	72.2	65.1	71.2	62.0	68.6	63.0	63.8	58.2
14	55.8	44.1	54.6	53.8	54.0	44.1	49.4	47.7	47.9	41.1	14	74.4	58.0	66.6	72.6	69.9	60.5	59.7	61.1	58.9	58.3
15	49.5	36.9	42.2	46.1	48.2	36.9	38.6	39.6	40.9	35.1	15	67.1	56.4	63.8	59.9	65.8	60.9	59.8	58.4	60.3	58.2
16	59.9	31.2	48.0	54.7	59.6	50.4	39.4	43.6	46.9	43.8	16	64.7	57.9	62.4	63.2	60.3	60.2	57.2	57.7	57.6	56.4
17	65.0	37.8	56.0	63.1	64.0	50.0	47.5	50.4	51.8	44.5	17	72.5	52.4	61.8	67.2	68.0	59.2	55.5	57.3	57.8	53.2
18	66.6	38.4	57.2	64.7	63.7	52.5	49.7	51.4	49.9	46.8	18	65.2	56.1	63.6	62.7	60.9	58.2	58.2	59.4	60.0	57.2
19	58.4	45.1	51.1	55.5	57.1	51.8	47.8	50.3	50.8	48.2	19	67.2	52.4	63.7	63.0	62.5	57.4	56.7	56.1	55.8	55.6
20	53.6	46.2	49.5	51.3	53.0	51.0	47.3	48.7	50.0	48.2	20	66.3	51.7	61.4	62.5	64.4	57.6	54.4	53.6	55.4	53.2
21	70.1	39.4	61.1	67.1	67.8	50.9	54.1	54.9	53.0	47.1	21	70.3	48.5	59.2	62.7	68.3	63.0	55.1	56.7	60.5	58.2
22	68.0	48.5	59.9	64.7	63.7	53.8	53.1	54.5	54.9	52.0	22	77.5	52.3	65.5	72.0	75.2	62.2	60.3	61.5	61.1	58.4
23	59.7	50.4	51.4	54.6	57.6	51.6	49.3	49.8	50.2	47.1	23	75.9	56.3	65.6	70.4	75.1	63.8	60.2	61.5	62.6	60.6
24	57.9	45.3	56.5	54.7	52.2	49.2	48.7	48.5	49.7	48.2	24	81.5	52.3	71.0	77.6	79.6	66.2	62.2	64.7	64.9	61.3
25	57.5	46.3	54.4	56.0	54.8	50.3	49.9	49.7	49.0	49.5	25	86.1	59.2	74.9	80.0	85.6	72.5	66.5	68.5	71.1	67.3
26	56.1	43.4	53.3	52.6	51.2	48.9	49.5	50.9	49.5	47.5	26	72.5	63.2	66.6	67.1	68.3	63.2	65.6	65.0	66.3	62.7
27	58.3	46.9	50.3	56.4	58.1	48.4	48.6	51.1	51.7	46.9	27	74.5	56.0	58.3	68.6	74.1	67.5	56.3	62.1	62.7	62.7
28	66.0	44.3	58.9	62.8	65.3	58.9	52.8	53.6	54.8	54.1	28	75.0	58.1	67.3	73.1	69.5	63.8	61.2	63.0	61.5	61.4
29	59.1	47.3	51.2	56.4	57.4	54.8	49.1	52.7	52.9	53.5	29	66.0	57.3	59.6	62.6	65.3	57.3	58.4	57.4	57.8	55.4
30	57.6	50.6	53.1	56.6	55.7	54.8	52.1	54.7	54.7	52.8	30	67.9	52.9	60.2	67.1	57.8	55.0	56.1	59.3	55.2	53.8
31	59.2	46.4	48.5	51.5	55.2	52.2	47.6	49.8	52.8	50.5	31	64.7	54.3	60.0	61.8	59.0	58.2	56.5	56.1	56.5	56.3
Means	57.6	41.2	50.5	54.5	55.8	48.2	45.6	47.4	48.2	44.6	Means	76.6	56.6	67.7	72.6	73.7	65.0	60.7	62.5	63.1	60.5
JUNE										AUGUST											
d	o	o	o	o	o	o	o	o	o	d	o	o	o	o	o	o	o	o	o	o	
1	56.9	45.5	48.2	53.1	54.5	48.9	46.6	49.3	50.4	46.5	1	66.0	57.1	62.5	64.7	64.7	61.2	58.2	60.2	62.0	59.0
2	54.0	44.3	47.4	50.3	52.8	48.7	44.2	46.4	48.6	44.8	2	70.6	58.1	58.8	61.1	69.2	60.7	56.4	57.3	61.3	58.1
3	52.7	44.4	48.0	48.3	51.2	51.0	45.6	46.9	49.4	49.8	3	74.6	49.1	58.6	66.5	72.4	64.2	54.6	57.8	62.0	61.8
4	73.3	48.5	55.3	67.4	72.6	62.0	54.9	62.7	63.5	56.8	4	74.8	54.2	65.8	73.2	68.5	59.6	60.8	64.7	62.4	58.9
5	62.0	53.8	57.2	56.1	54.5	53.8	54.8	54.3	53.8	53.0	5	62.8	52.7	57.1	62.1	57.6	54.6	51.7	52.3	51.3	49.4
6	60.1	52.4	54.2	57.7	59.1	56.9	52.8	54.6	55.7	54.7	6	63.2	51.9	57.1	58.9	58.2	54.4	50.5	51.7	52.2	51.2
7	69.8	45.1	64.6	68.2	64.0	54.3	57.6	59.2	58.5	53.3	7	64.9	45.1	59.4	64.1	64.1	56.5	53.3	54.3	54.2	52.4
8	64.4	53.1	57.5	62.0	60.5	54.2	55.7	55.5	58.5	53.7	8	60.5	49.4	53.6	57.3	59.8	56.7	52.9	56.7	58.7	55.6
9	61.3	50.1	57.8	61.1	57.6	55.8	55.9	56.6	56.3	55.0	9	69.2	50.3	58.6	62.6	67.3	58.8	53.2	54.2	57.3	57.8
10	55.8	49.4	50.1	50.0	50.4	49.5	49.5	49.2	49.5	47.2	10	69.1	58.4	62.7	67.3	67.0	58.6	58.3	58.0	58.4	57.3
11	59.0	45.8	52.0	57.6	57.8	51.4	46.4	48.6	49.1	47.6	11	70.0	57.2	61.7	63.3	68.7	59.0	61.1	61.8	63.7	57.2
12	64.0	43.6	55.8	59.1	63.3	48.5	49.0	50.1	52.5	47.5	12	67.4	52.4	61.5	63.8	65.2	57.7	55.6	55.7	54.3	52.1
13	61.3	45.6	56.2	58.1	59.8	54.0	50.0	50.2	51.3	49.8	13	63.9	53.6	56.2	60.1	61.5	62.5	55.2	56.8	58.7	59.4
14	62.2	44.4	57.1	58.9	61.2	57.6	53.2	54.6	57.0	55.1	14	69.0	54.5	60.9	66.1	66.7	59.3	54.9	57.5	57.5	57.1
15	69.9	55.6	60.6	65.1	68.5	60.6	55.0	57.0	58.8	54.1	15	63.8	53.7	61.5	62.9	62.9	58.8	60.6	62.0	60.7	56.4
16	75.0	52.1	62.1	69.4	74.0	66.2	54.7	58.1	61.6	59.2	16	65.7	50.2	61.0	62.4	65.4	55.8	54.8	55.4	57.4	53.5
17	80.4	54.1	70.0	75.5	78.6	65.4	60.1	63.4	66.3	59.6	17	66.0	52.4	61.4	65.4	63.6	57.2	56.0	58.4	57.6	55.0
18	83.4	52.5	71.6	77.6	80.4	69.7	62.3	66.0	67.4	65.1	18	68.0	54.5	57.8	65.2	66.2	56.7	56.2	57.2	58.5	54.5
19	76.9	56.7	69.0	73.8	75.5	62.4	62.7	64.2	65.5	58.2	19	69.6	51.2	61.1	65.4	68.5	53.7	55.4	56.0	57.0	52.7
20	80.7	53.7	68.1	77.2	79.1	65.4	62.0	67.4	69.5	62.2	20	66.6	51.5	60.1	63.1	62.3	56.4	55.7	56.5	56.7	54.4
21	83.0	55.6	74.3	79.4	81.5	66.6	66.0	68.4	69.5	62.3	21	69.7	49.4	61.4	65.5	68.7	57.2	56.6	57.5	59.3	55.4
22	89.9	59.4	83.1	87.4	89.0	76.8	72.9	74.6	74.0	71.0	22	67.9	52.1	59.9	62.8	65.4	57.8	55.8	57.6	57.4	54.6
23	77.0	62.1	66.4	73.1	76.4	66.4	59.4	62.1	64.6	60.0	23	60.7	52.2	57.2	55.1	59.0	60.4	55.7	54.1	58.4	59.4
24	76.5	58.4	69.6	74.5	75.4	66.4	60.0	63.7	67.8	61.2	24	65.4	56.2	56.5	60.2	63.2	56.4	54.8	56.7	58.4	55.4
25	83.4	55.5	72.6	78.5	83.3	69.0	62.8	65.0	67.3	62.0	25	72.1									

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
SEPTEMBER											NOVEMBER										
d	°	°	°	°	°	°	°	°	°	°	d	°	°	°	°	°	°	°	°	°	°
1	71.9	49.0	63.1	66.9	66.1	58.6	58.5	57.7	60.1	56.6	1	45.7	36.2	42.2	45.5	43.0	39.5	39.3	40.5	38.5	37.0
2	78.3	54.3	64.4	72.1	77.3	67.3	60.3	66.3	68.4	64.6	2	43.3	36.8	39.2	43.1	39.9	36.8	37.2	39.5	38.4	35.6
3	78.4	62.7	68.9	76.0	76.2	64.5	64.4	67.8	68.4	62.9	3	43.4	34.8	37.6	42.6	42.1	38.3	35.7	38.4	38.7	36.3
4	75.3	56.8	61.9	71.6	73.9	61.2	59.7	66.1	67.7	59.7	4	40.2	37.0	37.8	39.2	39.6	38.2	35.3	35.7	36.2	35.2
5	73.7	57.4	59.8	65.6	71.5	60.8	59.6	62.7	65.6	59.3	5	46.0	35.2	39.3	43.8	45.2	36.0	36.5	40.2	40.2	34.8
6	64.5	58.2	62.5	63.7	64.1	58.2	60.1	60.7	60.3	55.7	6	52.2	35.2	43.9	49.6	51.8	49.9	42.1	46.6	47.9	47.3
7	64.8	54.0	58.7	62.4	64.4	54.0	53.1	54.2	55.7	50.5	7	51.3	40.5	43.3	46.9	46.8	40.5	39.9	41.3	40.7	37.4
8	62.7	45.5	54.4	59.4	61.6	56.8	51.6	54.1	55.7	55.0	8	46.0	32.7	38.5	42.7	45.0	32.7	36.7	39.8	40.3	31.9
9	70.0	55.4	60.6	65.1	69.0	62.0	57.4	61.0	62.4	60.0	9	46.4	30.9	40.6	45.9	43.2	39.2	38.1	39.8	37.6	36.0
10	64.9	57.9	61.0	61.9	63.2	59.0	56.1	55.7	56.7	55.4	10	56.1	37.6	46.6	52.1	52.6	54.5	46.0	51.2	51.8	51.1
11	66.3	54.2	61.3	65.1	65.0	55.7	56.7	56.2	55.0	52.5	11	55.0	46.2	48.7	54.3	53.2	49.0	48.2	51.7	50.7	48.2
12	62.0	51.8	55.4	59.1	60.9	55.6	52.7	54.7	54.7	53.0	12	51.9	46.6	48.5	50.8	51.1	47.6	46.7	47.7	47.9	46.7
13	64.6	52.5	58.4	63.5	64.4	56.0	54.8	57.0	57.6	54.8	13	48.0	42.4	43.9	43.5	43.6	42.4	43.2	42.7	42.7	41.4
14	60.2	54.4	58.8	59.0	59.8	55.6	55.4	55.5	56.9	52.6	14	48.0	36.6	40.1	45.6	47.4	43.8	39.5	44.1	45.3	42.4
15	57.0	50.5	54.0	55.4	56.2	53.0	48.8	49.2	49.8	47.4	15	43.8	27.5	36.6	37.5	36.5	27.5	33.1	33.8	33.5	26.3
16	60.0	46.4	52.4	58.2	59.0	46.4	47.2	50.1	51.4	44.8	16	51.8	26.9	38.1	44.4	48.3	50.2	37.4	43.4	47.0	48.2
17	64.5	38.8	52.5	60.2	64.0	48.8	50.1	52.4	55.6	47.6	17	53.0	46.0	50.8	52.6	50.2	48.0	47.4	49.2	48.8	45.2
18	64.8	40.8	50.9	61.0	62.9	52.1	50.0	54.7	56.3	50.0	18	53.4	43.7	46.6	52.2	51.6	49.6	44.7	48.7	48.1	48.7
19	58.4	51.7	54.0	58.1	57.6	55.3	52.9	54.9	54.4	53.7	19	50.0	41.8	45.2	48.7	48.1	46.0	44.5	47.7	47.2	45.4
20	63.4	53.4	56.2	60.0	63.1	53.9	52.6	54.5	56.8	52.0	20	53.4	44.2	50.0	52.5	52.2	50.4	48.9	50.0	49.9	48.6
21	66.4	48.9	53.6	58.9	66.0	56.6	53.2	56.2	60.8	54.8	21	54.9	47.4	50.6	53.9	51.9	47.6	49.3	51.5	51.3	47.0
22	66.9	53.4	60.2	63.4	66.0	57.2	57.3	58.7	60.6	55.4	22	58.6	44.1	50.6	57.4	57.1	55.2	49.8	53.8	52.5	52.1
23	63.7	52.1	53.1	56.4	62.0	56.0	52.4	54.5	58.6	55.5	23	56.0	43.4	46.5	53.1	52.4	44.6	46.0	49.3	48.4	42.8
24	67.9	55.4	58.6	63.0	67.1	57.8	57.8	60.1	63.0	57.0	24	54.3	41.2	51.5	52.9	53.8	53.4	49.7	52.0	52.0	51.7
25	72.8	52.9	59.3	67.4	72.0	59.4	58.3	63.4	65.2	58.4	25	54.3	38.4	50.0	50.6	50.6	38.4	49.2	48.2	45.2	37.6
26	71.7	56.3	63.4	69.1	68.5	60.0	62.4	64.1	64.8	59.0	26	50.1	32.5	40.2	49.6	49.4	45.2	38.7	46.3	45.7	43.5
27	77.0	56.7	67.6	74.4	75.8	64.6	64.6	66.7	67.1	61.8	27	50.0	43.3	49.2	49.6	48.1	46.4	46.0	45.7	45.4	44.6
28	72.0	55.4	66.4	66.4	65.4	58.0	62.3	64.3	63.4	56.7	28	50.8	46.4	49.5	50.5	50.1	47.8	48.9	50.0	49.7	46.8
29	64.3	54.0	55.9	59.6	62.1	54.8	55.1	56.3	56.0	52.8	29	48.3	44.8	45.7	47.3	47.6	45.9	44.9	45.6	45.6	44.9
30	63.6	47.5	55.3	61.2	60.5	53.2	50.9	54.4	54.1	49.5	30	46.3	30.2	38.6	38.9	39.4	30.2	35.9	36.0	36.9	30.2
Means	67.1	52.6	58.8	63.5	65.5	57.1	55.9	58.1	59.4	55.0	Means	50.1	39.0	44.3	47.9	47.7	43.8	42.6	45.0	44.8	42.2
OCTOBER											DECEMBER										
d	°	°	°	°	°	°	°	°	°	°	d	°	°	°	°	°	°	°	°	°	°
1	59.0	41.1	53.8	56.9	57.9	50.0	49.8	52.3	52.0	48.8	1	44.0	29.5	36.7	42.3	43.5	42.4	35.7	40.3	42.9	42.0
2	67.0	42.5	56.2	64.6	64.6	49.5	53.0	56.7	58.7	48.7	2	44.4	38.8	39.6	40.6	40.3	39.6	39.2	40.0	39.9	39.6
3	64.2	40.8	52.4	62.4	63.1	54.5	51.0	55.8	54.7	51.3	3	43.8	33.6	35.9	38.3	41.8	43.8	35.4	38.1	41.0	42.8
4	61.4	50.9	55.4	58.6	60.6	57.0	54.2	56.7	57.9	56.1	4	46.6	43.8	44.7	45.9	46.5	44.3	43.3	44.3	44.8	43.3
5	64.3	55.5	60.9	63.6	61.0	58.8	59.4	60.7	59.5	58.0	5	48.3	43.4	45.9	48.1	48.3	45.8	43.7	43.1	43.2	43.6
6	75.0	55.1	57.8	70.1	72.4	57.0	57.4	64.6	64.8	56.2	6	50.6	44.9	48.2	48.6	48.5	50.3	45.1	44.4	46.2	49.2
7	62.5	51.4	55.9	61.2	61.3	58.0	54.8	60.4	60.6	57.5	7	50.3	34.4	40.7	41.2	39.8	34.7	38.7	37.6	36.2	33.6
8	67.6	55.4	57.6	63.2	64.1	58.7	57.5	60.1	59.2	57.4	8	40.8	32.3	34.7	38.7	40.6	38.6	33.0	35.2	37.7	37.6
9	64.0	54.3	59.2	63.6	62.2	59.2	58.5	59.7	60.2	57.2	9	50.5	38.3	47.9	49.9	50.6	50.5	47.0	47.3	47.7	48.0
10	62.3	56.0	60.7	58.4	61.0	56.0	57.8	52.8	53.5	52.8	10	55.1	50.5	53.6	54.0	54.6	55.1	52.2	52.4	52.6	53.1
11	56.8	47.3	55.7	55.6	54.0	47.3	53.7	50.1	49.4	43.9	11	55.3	48.7	50.0	51.7	52.1	51.0	46.8	47.3	47.7	48.7
12	58.9	36.9	49.4	57.6	55.7	41.2	45.1	50.2	49.5	39.8	12	54.6	44.5	53.9	51.2	50.4	44.7	52.6	48.8	46.3	41.7
13	56.5	34.3	48.8	54.8	54.1	44.0	45.3	48.0	47.0	42.8	13	50.7	40.6	44.3	47.8	50.2	50.7	41.9	45.1	46.7	48.3
14	55.0	43.3	50.1	50.2	54.7	51.5	48.4	49.6	52.4	49.2	14	57.0	49.5	51.8	53.0	55.8	55.8	50.8	52.4	54.8	53.0
15	58.2	43.9	50.6	56.3	57.2	51.8	46.9	50.3	48.9	48.4	15	55.8	47.4	49.6	52.7	51.6	48.3	46.1	48.2	47.4	44.3
16	59.5	49.5	58.0	58.2	59.2	49.5	55.0	56.8	53.3	47.5	16	48.8	39.5	41.8	46.0	45.6	39.5	40.0	42.2	41.7	37.7
17	61.0	44.5	53.5	56.1	56.7	56.0	50.7	50.7	50.9	52.7	17	45.9	36.3	42.6	45.7	45.4	41.0	40.4	41.7	41.4	37.8
18	62.8	56.0	60.5	60.8	61.5	57.1	55.3	56.5	55.9	52.7	18	42.4	32.3	37.6	42.1	41.5	32.5	34.8	37.9	37.8	31.7
19	63.8	52.6	58.7	62.8	61.2	58.7	56.7	57.3	54.9	54.0	19	42.4	27.7	33.0	37.2	40.7	42.4	32.2	35.8	38.7	40.4
20	63.0	55.0	59.4	61.7	59.9	55.0	54.7	54.6	52.3	51.6	20	43.9	35.1	38.9	37.6	37.8	35.1	37.7	37.4	37.5	34.9
21	59.4	49.6	52.9	57.3	56.6	50.0	49.5	50.3	49.4	45.8	21	42.4	31.9	32.5	36.0	42.0	38.7	32.3	35.3	38.7	37.6
22	55.8	40.4	46.5	54.3	53.9	45.6	44.7	49.1	47.6	41.4	22	49.7	38.7	45.0	46.9	49.2	43.1	43.9	46.1	48.0	41.7
23	52.8	38.1	43.1	51.5	51.5	43.0	40.0	45.3	44.4	40.5	23	46.8	37.3	38.2	43.3	46.8	44.4	37.6	41.3	43.8	42.2
24	50.9	38.4	45.3	49.5	48.2	44.0	42.0	44.5	43.3	41.6	24	52.0	44.4	47.5	51.2	50.2	46.3	44.7	46.2	45.2	43.6
25	49.6	42.9	46.5	49.6	47.5	45.2	44.1	46.1	45.4	42.1	25	51.1	36.8	49.2	51.0	45.7	36.8	46.6	47.3	42.4	35.2
26	48.9	42.0	47.3	48.0	47.0	42.															

GREENWICH METEOROLOGICAL OBSERVATIONS, 1941.

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

1941	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	41.8 33.2	38.3 34.1	55.0 42.2	48.2 35.4	60.3 42.7	61.5 46.5	76.2 54.7	66.3 57.2	74.1 48.4	64.1 40.4	47.2 35.1	39.8 28.6
2	35.1 25.2	40.6 31.6	53.2 45.2	42.5 36.2	.. ..	59.8 44.6	85.4 60.7	66.5 57.3	71.5 54.3	59.1 42.2	46.2 38.6	44.3 37.7
3	29.9 22.7	36.1 29.6	52.4 40.0	47.9 38.9	61.0 37.7	55.2 44.6	86.4 58.0	73.2 48.3	78.8 61.2	68.2 40.5	44.5 34.5	40.9 34.0
4	30.6 25.5	33.0 28.3	53.2 31.6	51.7 39.2	51.9 29.6	56.0 47.2	85.6 56.5	77.4 53.2	79.1 57.1	65.3 51.2	44.3 37.0	45.0 35.2
5	33.1 29.9	35.8 20.2	48.0 29.7	52.8 35.2	59.6 36.3	75.8 53.2	74.3 50.1	75.3 52.9	76.6 57.6	62.3 55.2	40.0 33.7	46.9 43.9
6	32.8 30.8	36.0 28.9	48.5 35.3	51.2 37.3	52.9 33.2	57.7 52.7	83.0 55.8	64.0 52.0	75.2 59.2	64.9 55.1	47.0 35.2	48.8 45.2
7	32.3 28.2	44.1 33.2	40.9 36.0	42.0 32.2	50.5 37.6	67.7 45.0	85.7 53.7	64.9 44.5	65.5 54.4	75.5 51.2	52.2 40.4	51.0 38.3
8	33.1 28.0	51.4 43.9	46.7 37.9	45.0 31.8	54.3 33.1	72.2 52.7	91.0 57.2	66.9 49.5	66.9 44.6	63.8 55.3	48.9 33.5	41.7 31.8
9	36.0 29.0	53.4 48.0	53.4 35.7	47.9 32.2	51.5 33.2	66.0 50.2	94.0 62.4	60.3 50.2	64.0 55.4	68.7 54.2	46.0 29.8	48.0 33.9
10	36.7 30.0	50.2 41.7	46.6 34.5	45.9 28.2	52.0 33.1	62.9 49.6	86.6 60.1	71.1 58.7	70.8 58.1	65.0 58.4	47.0 37.3	53.9 47.5
11	39.1 33.4	50.5 30.5	52.2 38.4	47.5 35.8	54.0 30.6	54.2 46.1	88.3 59.4	71.1 57.4	66.1 54.1	62.0 52.1	56.3 45.7	55.7 48.6
12	39.9 34.7	51.0 33.1	46.4 36.7	54.4 45.4	58.9 40.2	57.0 43.2	92.4 62.3	72.0 52.3	67.4 52.1	57.6 35.8	55.5 46.7	54.0 49.3
13	38.0 31.2	44.1 40.3	41.2 35.3	59.7 45.2	67.8 50.1	66.1 45.2	92.0 61.6	69.0 53.9	63.4 51.7	60.2 33.3	52.0 43.4	55.0 40.3
14	38.2 31.9	48.8 36.7	49.3 34.2	59.2 46.2	63.0 49.2	.. ..	76.1 58.1	65.3 54.7	65.6 53.9	56.8 43.0	43.8 36.4	53.9 43.7
15	36.3 30.5	50.1 40.1	57.9 31.7	53.9 40.1	56.9 39.9	63.3 56.0	77.6 56.6	70.6 53.9	60.7 50.5	55.7 43.7	47.8 36.2	56.8 48.8
16	33.9 17.0	49.6 37.3	46.4 31.6	59.1 36.2	52.0 30.9	72.2 51.2	68.1 58.2	63.5 50.2	58.1 50.4	59.1 50.4	40.1 26.2	54.0 41.1
17	30.6 20.8	48.0 40.1	48.1 31.8	60.5 35.7	61.8 37.3	77.1 53.9	66.3 52.6	66.7 52.6	61.2 38.2	59.8 44.4	51.9 40.0	47.0 36.2
18	30.6 22.2	48.9 38.2	42.5 28.2	59.6 43.5	66.8 37.2	82.1 51.5	75.2 56.2	66.9 54.4	66.7 39.6	61.2 53.5	53.3 43.8	46.0 31.4
19	38.6 30.2	44.9 32.5	54.9 28.4	58.4 40.5	69.1 44.8	85.0 55.4	66.1 52.8	69.9 50.9	66.3 50.2	63.2 52.9	53.5 42.2	42.8 26.9
20	41.5 31.2	39.5 33.2	51.7 27.7	56.9 39.8	60.1 44.3	79.0 53.2	68.9 51.2	70.5 51.2	59.5 53.4	64.3 57.3	50.4 44.2	43.7 32.8
21	43.4 34.3	38.4 28.3	48.7 32.3	57.4 42.5	62.7 39.8	83.5 54.5	69.1 48.8	68.1 49.2	65.0 47.2	63.9 49.4	53.9 48.2	38.9 32.2
22	47.0 41.1	41.5 28.1	57.5 41.7	60.2 37.2	72.2 49.0	85.2 58.3	72.7 52.2	71.1 51.8	68.4 53.5	60.0 40.1	54.2 44.0	45.0 32.5
23	48.9 36.5	41.7 31.4	51.1 36.5	52.5 40.1	68.7 50.8	91.6 62.4	81.0 55.4	69.8 51.5	68.8 52.3	56.4 37.7	58.9 44.2	49.7 37.7
24	42.8 38.1	43.0 27.2	45.5 26.2	48.8 32.7	62.0 45.4	79.0 56.8	78.0 51.2	61.0 54.7	64.5 53.3	54.0 37.6	54.2 41.3	49.9 37.8
25	41.6 38.4	41.2 30.4	47.3 40.2	49.2 37.2	58.5 46.2	78.9 54.3	83.5 57.6	67.3 53.9	69.1 52.9	52.0 43.0	54.9 49.8	52.7 45.9
26	39.3 36.3	42.7 23.0	52.7 47.2	54.8 37.7	59.0 43.0	85.1 57.3	88.7 64.3	73.4 54.0	73.4 55.3	50.4 41.9	50.5 33.3	51.8 26.4
27	36.5 33.7	44.5 31.3	55.0 42.5	53.2 38.9	57.1 47.2	78.5 54.5	68.2 56.2	69.5 50.0	71.8 56.4	49.5 38.5	50.4 40.1	45.0 31.3
28	40.0 33.6	52.3 44.0	56.0 39.2	48.0 37.3	60.6 43.2	76.0 55.0	77.0 57.9	67.4 55.8	77.4 54.8	51.9 43.2	50.2 46.2	41.0 27.3
29	42.5 35.1	.. ..	54.2 37.7	50.7 39.2	69.1 47.4	.. ..	77.0 58.0	69.0 52.5	71.7 53.7	50.8 35.2	51.1 45.3	36.8 19.6
30	35.2 33.7	.. ..	42.0 30.2	53.9 39.8	58.9 50.4	77.0 50.6	66.5 52.8	67.0 52.1	65.2 47.3	43.5 35.3	48.5 36.6	37.3 20.8
31	39.2 34.7	.. ..	45.0 25.1	.. ..	58.0 46.8	.. ..	69.0 54.2	67.6 46.2	.. ..	46.5 33.6	.. ..	39.8 35.7
Means	37.6 31.0	44.3 33.8	49.8 35.2	52.4 37.9	59.7 41.0	71.6 51.6	79.0 56.3	68.5 52.5	68.4 52.4	59.2 45.3	49.8 39.6	47.0 36.2

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1941

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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Sums	Above the Ground	Above Mean Sea Level
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
6	2.563	1.786	2.676	1.796	1.924	1.908	3.192	4.146	0.689	0.722	2.387	1.783	25.572	0 5	149 6	
8	2.554	1.783	2.690	1.805	1.926	1.886	3.188	4.175	0.690	0.710	2.356	1.778	25.541	1 0	150 1	
Number of Rainy Days (0.005 in. or over)	17	19	13	10	13	9	12	18	4	14	15	9	153	.. ..	.. ..

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††
h	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles
1	10.1	10.2	9.8	10.1	8.5	8.8	9.0	11.3	7.6	8.4	9.6	10.1	9.5
2	10.7	10.2	9.1	9.8	8.2	8.0	8.6	11.5	7.2	8.4	9.0	10.4	9.3
3	10.7	10.3	8.4	9.5	7.6	7.9	8.5	11.0	7.0	7.8	9.3	9.8	9.0
4	9.8	10.1	8.2	9.6	7.3	8.1	8.4	11.3	6.9	8.0	9.7	9.5	8.9
5	10.2	10.7	8.4	10.1	7.1	8.4	8.4	10.6	7.1	7.9	9.6	9.6	9.1
6	10.0	10.6	8.7	9.3	7.5	7.8	8.2	10.6	7.3	7.6	9.9	9.5	9.0
7	10.2	10.4	8.5	10.2	8.3	8.6	8.3	10.6	7.3	8.6	10.3	10.0	9.3
8	9.8	10.3	8.8	10.9	9.2	8.7	8.9	11.4	7.2	7.8	10.0	9.5	9.4
9	10.7	10.5	9.0	12.1	9.7	8.8	9.3	12.3	7.6	8.7	10.2	10.4	10.0
10	10.6	11.1	9.3	12.6	9.5	9.0	9.7	12.2	7.7	8.9	10.1	10.1	10.1
11	11.5	11.4	9.7	13.3	9.9	9.7	9.8	12.9	8.5	9.8	9.5	10.5	10.6
12	11.5	12.5	10.4	13.6	10.1	10.1	10.6	13.5	8.8	10.4	10.2	11.7	11.1
13	11.3	13.3	10.9	13.5	10.2	9.8	10.9	14.2	9.7	10.9	12.2	12.6	11.7
14	11.4	12.7	11.3	13.0	10.6	9.7	11.3	13.8	9.6	10.7	11.2	12.4	11.5
15	12.0	13.0	11.4	13.2	10.9	10.5	11.1	14.1	9.7	10.7	11.3	11.3	11.6
16	11.2	12.3	11.3	12.5	11.4	9.7	11.3	14.0	9.5	10.2	10.2	11.7	11.3
17	11.1	11.6	11.0	12.4	11.4	10.6	11.5	13.9	9.6	9.9	10.7	11.6	11.3
18	10.7	11.3	10.2	12.1	10.7	9.8	11.5	13.3	8.9	9.7	10.1	11.1	10.8
19	10.0	11.0	9.8	11.3	10.8	9.8	10.9	13.0	8.9	9.5	10.4	11.3	10.6
20	9.6	11.0	10.0	10.5	10.0	9.8	10.3	12.5	8.4	9.6	10.3	11.2	10.3
21	9.8	10.6	10.2	10.2	9.0	9.4	9.8	11.5	8.3	9.6	10.4	11.5	10.0
22	10.0	10.4	9.7	10.6	9.4	9.1	9.3	11.5	8.1	9.0	10.0	11.3	9.9
23	10.4	10.3	9.5	10.8	8.7	8.7	9.1	11.5	8.1	9.1	10.0	11.5	9.8
24	9.9	10.2	9.6	10.1	8.5	8.2	9.2	11.3	8.1	8.5	9.3	10.7	9.5
Means	10.5	11.1	9.7	11.3	9.4	9.1	9.7	12.2	8.2	9.1†	10.1	10.8	10.1
Greatest Hourly Measures	24	24	27	27	23	20	19	25	20	..	30	30	

†Mean for 18 days only. ††In computing the mean for the year the October values have been given half weight.

