RESULTS OF THE MAGNETIC & METEOROLOGICAL OBSERVATIONS

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

1945

UNDER THE DIRECTION OF

SIR HAROLD SPENCER JONES, Sc.D., F.R.S.

ASTRONOMER ROYAL

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GREENWICH MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1945

E R R A T A

Page iv. Line 15 *for* PLATES I – X *read* PLATES I – VIII.

METEOROLOGICAL TABLES.

Deduct 4 from all page numbers. e.g. TABLE XVII should read:

TABLE XVII. – Daily Results of the Meteorological Observations .. .. D 58

Page D 38. Universal Time Column 9 *for* Oct. 12 *read* Nov. 12.

ROYAL GREENWICH OBSERVATORY

April, 1954

LONDON: HER MAJESTY'S STATIONERY OFFICE: 1954

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C O N T E N T S

C O N T E N T S

METEOROLOGICAL

THE ROYAL OBSERVATORY, GREENWICH

AND

ABINGER MAGNETIC STATION, SURREY

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1945.

INTRODUCTION

STAFF

During the year 1945, 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 Miss Mounteney. 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° 11′ 5″ N; Long. 0° 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 2½ 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.

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 $0^{\circ}\cdot 2$ 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 1½ 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.

A small Helmholtz-Gaugain coil, having a field of 7·43 gamma per milliampere 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 orientation of the magnet was last adjusted on 1943 January 13 and was then correct within $0^{\circ}\cdot5$. The adopted scale-value during 1945 was 4·35 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 1945 was $0'\cdot92$ per millimetre. Expressed as magnetic intensity the scale-value would be $\bar{4}\cdot97$ 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, is 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 $3'\cdot7$ 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 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 constitute 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.

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 than 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.

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 azimuthal 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 tube are turned by the observer as the magnet turns, so that no torisonal 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 1945 is based were verified in August 1943. 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 has been ·99988. The change introduces a discontinuity into the deduced 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 collinator magnet were made during the year 1945. The mean observed value of log. K from these determinations was 2·42353. 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 18 normal determinations made during the year are +10·91 and -2096 respectively.

The values used in the reduction of the 1945 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 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. vi).

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 $F = 3{\cdot}59643\ (1-{\cdot}0000079t)$, t being temperature Celsius. The constants of the potentiometer in use during the year 1945 for the measurement of the current were verified at the National Physical Laboratory in 1943 August. 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 introduces a discontinuity of $-3{\cdot}9\gamma$ into the deduced values of Z.

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 similtaneous 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 30γ into the definitive values of vertical intensity, corresponding to $0'{\cdot}9$ 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 the observed values of inclination too large by this 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 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, Febraury, 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 Table 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.

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.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1945.

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. xvii).

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.

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. xviii).

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

Dry-bulb and Wet-bulb Thermometers. On 1937 December 31 the standard dry-bulb and wet-bulb thermometers and maximum and minimum self-registering thermometers, both dry- and wet-bulb, were transferred from the revolving open screen on which hitherto they had been mounted to a Stevenson screen of large dimensions which had been set up a few yards to the westward. 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 $-0^\circ\cdot4$ 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 $-0^\circ\cdot3$ 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 DB 3544. The thermometer for radiation to the sky is a spirit minimum thermometer, DC 30597. 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 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.

After certain structural alterations were carried out in 1941 October, which included the introduction of a ball bearing for the revolving shaft, a series of comparisons was made between wind speed deduced from the pressure recorded by the Osler anemometer and the velocity of the cups, known from the above mentioned relation. These comparisons established a new empirical formula, valid at all ordinary speeds and very close to $V = 2{\cdot}70\ v$. Accordingly, from 1942 January 1, the formula $V = 2{\cdot}70\ v$ has been adopted to modify the velocity recorded by the instrument.

Rain Gauges. During the year 1945 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 calender month.

The present height of the standard gauge above mean sea-level is 5 feet 9 inches less than in its old position in the Observatory grounds before its removal to the Christie Enclosure in 1899 January.

The monthly amounts of rain collected in gauges Nos. 6 and 8 are given on page D 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 about twice its length, extending nine inches beyond the lens. The lens itself is further surrounded by a hood. Adequate protection from dew is thus obtained, and also from rain, except when hard driven from the north. The photographic plates used are ordinary quarter-plate ($3\frac{1}{4}$ 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 the trace is then read off to the nearest minute of time.

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

ARRANGEMENT OF RESULTS. The results given in the Meteorological Section refer to the day commencing at 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.

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

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 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 62-85, 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 62 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 220 yards

BEAUFORT WEATHER NOTATION. – *continued.*

g, gloom (*)
h, hail(*)
i, intermittent
k, storm (in combination with other symbols) (*)
l, lightning
m, mist, with limit of visibility between 1100 and 2200 yards
o, sky overcast with unbroken cloud
p, passing showers (*)
q, squall (*)
r, rain
s, snow (*)
rs, sleet (*)
t, thunder
u, threatening sky
v, exceptional visibility; i.e. abnormal transparency of air
w, dew (*)
x, hoar frost (*)
y, dry air; i.e. relative humidity less than 60 per cent
z, haze (*)
A capital letter indicates "intense"
The suffix o indicates "slight"
A letter repeated indicates "continuous"

CLOUD FORMS (*)

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

ADDITIONAL SYMBOLS

lu-ha,	lunar halo	*prhn,*	Parhelion	*so-ha,*	solar halo

ROYAL OBSERVATORY, GREENWICH.
ABINGER MAGNETIC STATION.

Results of Magnetic Observations

1945

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January	9° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	60·1	61·9	62·6	62·7	63·1	64·0		63·7	63·3	62·7	63·4	64·0	64·6	65·1	64·6	64·2	63·9	64·3	64·4	62·2	61·7	56·6	60·3	60·2	60·4
2	64·2	61·2	60·3	62·8	62·7	64·0		64·1	65·1	63·8	64·7	64·4	64·7	65·3	64·7	63·7	62·2	61·7	63·4	63·2	61·8	61·7	61·1	61·7	62·3
3	63·1	63·3	63·8	63·6	63·1	63·1		63·3	63·1	63·6	64·6	65·1	66·3	66·0	65·2	64·4	62·3	63·6	64·2	60·7	58·7	62·5	63·1	62·7	62·4
4	62·7	62·7	62·8	63·1	63·0	63·1		62·9	62·7	63·2	64·3	64·7	65·2	65·1	64·3	63·3	63·5	64·4	62·7	64·0	59·7	58·2	55·9	60·6	61·3
5	62·1	60·4	61·2	62·0	61·1	61·7		62·6	63·0	63·6	64·1	64·3	65·2	66·4	65·6	63·8	64·0	64·1	64·2	64·2	62·5	63·0	63·2	62·8	62·8
6	62·8	63·8	63·7	62·3	62·0	62·7		63·2	63·2	63·7	64·6	65·1	66·1	67·2	65·8	64·7	64·1	64·1	63·7	63·7	63·5	63·2	62·7	61·6	61·2
7	62·7	62·7	62·9	64·2	64·0	63·5		63·6	63·4	63·3	63·7	64·2	64·3	65·3	65·1	64·1	63·7	63·7	64·1	63·7	63·7	63·1	59·8	59·7	61·2
8	62·0	63·3	63·4	63·1	63·3	63·6		63·3	62·8	62·7	63·2	64·4	65·7	66·3	65·4	64·2	64·1	65·0	65·3	65·1	63·8	63·1	63·1	63·2	63·1
9	63·1	62·7	62·7	62·7	62·7	63·1		63·1	63·1	62·9	64·0	65·1	65·7	66·2	65·1	65·1	66·1	65·8	64·7	64·3	63·7	63·6	62·6	50·6	51·7
10 **	58·2	59·4	58·1	60·3	63·2	64·1		69·7	69·7	66·0	64·4	63·1	65·3	65·8	64·5	64·1	63·3	61·7	61·2	58·3	61·4	62·2	62·3	62·7	63·1
11 *	63·1	63·3	62·7	62·7	62·7	62·7		62·5	62·4	62·3	62·6	62·7	63·8	65·4	65·0	64·0	63·7	64·0	63·4	62·9	62·2	62·1	62·4	62·6	62·4
12	63·0	63·6	63·6	63·6	63·2	63·3		63·3	63·1	62·5	63·0	63·8	64·2	65·4	64·9	64·4	65·2	65·2	64·0	63·5	62·2	58·2	60·4	61·9	61·5
13	63·3	60·5	62·3	65·2	65·7	63·8		64·8	64·8	63·8	63·3	63·4	64·2	65·2	65·5	64·8	64·5	64·1	63·8	63·7	63·3	62·8	62·6	62·8	62·9
14	63·2	63·3	63·4	63·6	63·6	63·2		62·8	62·3	61·0	61·4	62·5	63·5	65·1	65·3	64·2	63·7	64·1	63·8	63·6	63·5	62·9	62·8	62·9	62·8
15 **	62·8	62·8	63·5	62·7	61·8	63·5		61·4	63·8	64·3	65·8	65·8	66·5	68·1	67·8	67·8	66·2	59·0	52·9	56·1	61·2	61·3	58·1	60·7	60·3
16	60·4	65·4	62·5	60·6	61·9	63·2		63·3	63·4	62·6	62·7	62·6	63·4	65·3	65·5	65·0	64·1	64·1	64·2	64·2	63·2	61·6	57·8	60·7	55·8
17 **	56·8	59·8	60·5	61·5	61·2	62·7		62·5	62·9	62·8	62·7	63·2	64·8	66·2	66·2	65·1	65·8	65·9	63·3	64·8	58·9	61·8	62·1	62·2	61·9
18	62·3	63·1	62·4	62·8	62·5	63·1		63·0	62·8	62·8	62·8	63·2	64·2	65·8	65·8	65·7	65·9	66·2	66·8	66·9	66·2	63·8	62·8	57·9	58·8
19	60·2	61·8	60·8	61·8	61·2	62·4		63·3	63·2	63·2	63·4	63·4	64·4	64·8	65·4	65·4	65·6	65·0	65·7	65·9	60·4	62·9	62·4	62·5	61·9
20	62·3	61·0	61·5	61·5	62·2	61·9		65·8	65·6	65·2	64·8	64·1	64·2	65·9	65·2	64·7	63·8	63·2	63·4	63·4	63·1	62·5	61·7	61·0	61·5
21	62·2	62·5	62·5	62·3	62·7	62·2		61·8	61·7	62·0	62·4	63·2	64·9	66·4	65·7	65·3	64·6	64·8	64·3	64·2	64·6	63·8	63·4	61·9	62·3
22	62·1	61·2	61·5	61·7	62·2	62·4		62·7	62·2	62·3	63·1	63·6	64·6	66·1	65·2	64·2	63·7	64·1	64·1	63·7	63·5	63·3	61·9	61·3	61·8
23 *	61·8	61·7	62·0	61·8	62·4	61·4		62·0	61·8	62·1	62·8	64·1	65·3	66·1	65·8	64·5	64·2	64·3	64·0	63·6	63·1	62·7	62·4	62·3	62·5
24 *	62·8	62·7	62·4	62·2	62·3	62·3		62·3	62·2	62·1	62·7	63·5	64·2	65·1	65·2	64·1	63·3	63·4	63·4	63·6	63·1	62·7	62·6	62·6	62·6
25 *	62·6	62·2	62·2	62·2	62·2	62·2		62·0	61·6	61·1	62·2	63·8	65·2	66·8	65·8	64·7	63·7	63·7	63·8	63·7	63·1	62·7	62·7	62·7	62·8
26	62·8	63·0	62·8	63·2	63·0	62·6		62·7	61·8	61·2	62·5	63·8	65·4	68·1	67·0	66·1	64·9	63·8	64·2	63·3	60·7	59·2	60·9	61·8	63·4
27	63·1	63·4	65·2	63·0	62·7	63·3		62·8	62·1	61·8	62·4	63·6	65·8	66·7	66·3	64·9	64·0	63·7	63·9	63·7	63·6	62·7	62·4	62·6	62·7
28 **	62·9	62·4	62·7	63·6	63·4	63·2		62·8	62·4	62·4	63·0	64·0	65·3	66·6	66·3	65·6	64·6	64·3	62·7	65·3	65·2	60·7	59·2	62·0	57·0
29 **	47·7	47·4	50·3	52·8	50·7	57·5		59·6	62·8	63·6	64·7	65·2	66·1	66·6	67·5	66·7	63·7	64·7	57·2	63·1	52·2	55·1	55·2	58·7	58·7
30	60·1	62·0	63·0	62·9	67·2	64·5		63·2	65·0	63·7	64·3	62·8	64·1	65·7	66·0	66·3	64·8	62·8	62·1	62·9	61·8	61·1	60·7	60·6	60·8
31 *	61·9	62·2	63·1	63·7	62·3	62·1		62·3	61·8	61·6	62·3	63·5	64·6	66·1	66·5	65·9	64·1	63·7	63·6	63·3	62·8	62·3	60·3	60·0	62·0
Mean	61·6	61·8	62·0	62·3	62·4	62·8		63·1	63·2	62·9	63·4	63·9	64·9	66·0	65·6	64·9	64·2	64·0	63·3	63·4	62·2	61·7	61·3	61·2	61·2
Mean *	62·4	62·4	62·5	62·5	62·4	62·1		62·2	62·0	61·8	62·5	63·5	64·6	65·9	65·7	64·6	63·8	63·8	63·6	63·4	62·9	62·5	62·1	62·1	62·5
Mean **	57·7	58·4	59·0	60·2	60·1	62·2		63·2	64·3	63·8	64·1	64·3	65·6	66·7	66·5	65·9	64·7	63·1	59·5	61·5	59·8	60·2	59·4	61·3	60·2
February	9° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 *	62·9	62·8	63·1	63·8	63·4	62·9		62·2	62·2	61·6	61·7	62·3	64·0	65·3	65·0	63·9	62·7	62·7	63·1	63·0	62·7	62·6	61·9	62·1	62·0
2	62·3	62·6	63·0	63·1	62·7	63·0		63·2	62·9	62·2	63·5	64·0	66·0	67·1	67·6	68·6	65·7	66·6	64·9	63·4	59·2	60·3	61·2	60·1	60·6
3	59·9	60·3	62·6	63·6	63·6	62·1		62·4	62·0	62·3	63·2	63·6	65·2	66·0	66·5	66·0	65·0	64·0	63·5	63·1	62·9	62·6	62·0	62·2	61·5
4	61·6	61·9	62·2	62·0	61·8	62·8		61·6	61·4	61·3	61·7	63·2	65·2	66·3	66·6	65·4	63·9	63·1	63·5	63·7	63·6	62·9	62·2	61·7	61·6
5 **	62·0	61·0	62·2	62·3	63·3	69·6		64·2	60·4	61·0	60·4	62·7	64·0	65·5	66·5	66·0	64·6	63·8	64·0	63·6	62·2	60·7	61·5	60·9	61·1
6	63·2	59·6	62·2	63·1	63·2	62·7		63·4	65·0	63·7	63·5	66·2	67·2	65·9	65·9	65·3	63·1	62·6	62·6	61·8	62·2	60·6	61·6	61·6	61·1
7	61·1	61·9	62·3	62·6	62·3	62·6		62·6	62·1	61·0	61·2	61·7	63·0	64·6	65·6	66·0	65·2	64·3	63·1	60·7	61·3	62·6	62·1	61·9	61·6
8	61·8	62·3	62·8	62·0	61·7	62·6		62·3	62·0	62·8	62·1	63·2	66·2	67·1	68·2	66·9	64·6	63·6	59·3	63·2	63·0	62·6	60·7	59·0	60·5
9	57·0	59·0	61·0	62·1	61·4	61·1		62·5	63·7	62·6	61·8	62·0	64·3	65·2	64·6	65·0	62·6	63·8	63·5	62·0	58·6	60·7	60·1	60·5	60·1
10	61·2	61·9	63·0	64·7	62·1	61·9		61·6	62·0	61·5	61·1	62·2	63·4	65·0	65·6	64·8	63·7	63·1	62·0	62·0	60·6	61·6	61·6	61·3	61·6
11	61·3	61·1	61·6	61·4	63·8	62·6		64·3	62·1	61·5	60·3	60·8	63·1	64·6	65·0	65·2	63·9	61·6	63·0	62·1	61·4	61·0	61·7	62·0	62·0
12	61·8	62·2	63·3	63·3	63·0	62·6		63·8	60·8	59·3	58·3	60·1	63·5	65·2	66·0	65·5	64·5	63·2	61·5	62·6	62·0	61·7	61·2	60·5	61·9
13 *	62·0	62·7	63·2	62·9	62·6	62·3		61·6	61·0	60·1	60·1	61·0	63·5	65·5	66·0	66·2	64·6	63·5	63·0	62·4	62·0	62·0	61·2	62·0	62·1
14	62·5	62·7	62·7	63·0	62·8	63·0		62·7	62·0	60·6	60·1	61·6	64·2	66·0	67·5	67·4	66·3	65·6	65·0	64·0	64·0	64·0	60·1	59·1	60·9
15 **	62·6	64·1	57·4	56·8	58·6	60·9		60·6	61·3	60·9	61·6	64·9	67·6	66·9	66·8	68·0	67·2	67·6	67·8	65·5	62·6	60·2	53·7	53·9	56·3
16 **	62·4	61·6	58·8	59·8	59·8	60·7		61·0	62·0	61·1	62·5	63·2	64·3	65·6	66·0	66·5	66·9	66·8	66·2	56·0	61·3	62·4	59·7	59·6	58·9
17	60·2	60·0	61·0	62·2	62·5	62·1		62·2	62·2	61·4	61·6	63·0	64·0	66·1	66·0	66·2	66·6	62·8	63·8	63·2	60·8	56·0	60·5	60·0	61·1
18	59·2	59·2	61·6	62·0	62·0	62·0		62·7	61·6	61·0	61·2	61·6	63·5	65·4	66·3	67·6	66·5	65·5	64·1	63·6	63·1	62·5	62·1	61·3	57·9
19 *	57·7	59·1	59·2	60·1	60·6	61·5		62·7	61·5	61·0	60·7	61·8	63·3	65·6	67·0	66·8	66·2	64·7	64·1	63·4	62·9	62·6	61·5	60·5	60·5
20 *	60·9	61·0	62·1	62·3	62·4	62·5		62·5	62·4	61·1	60·5	60·5	62·3	63·9	65·6	66·9	66·5	65·1	64·1	63·5	63·1	63·2	62·5	61·3	61·1
21 *	61·5	62·4	62·6	62·5	62·4	63·1		62·5	62·4	61·4	61·5	62·3	64·1	65·3	65·9	65·7	63·7	63·5	63·2	63·0	62·6	62·5	61·4	61·7	62·0
22	62·4	62·5	62·5	62·0	62·0	62·2		62·1	62·0	61·1	60·9	62·1	65·5	66·4	66·9	67·3	65·8	65·5	64·9	63·6	62·1	62·7	61·1	57·8	58·9
23	60·2	61·2	61·9	62·2	62·0	62·0		61·8	61·8	61·4	61·0	62·0	64·7	65·0	68·0	67·9	65·9	64·3	64·1	63·9	63·2	62·5	62·4	62·5	61·1
24	60·8	61·9	62·1	62·4	62·4	62·3		62·9	62·8	61·9	61·5	62·8	64·4	66·3	66·8	66·4	64·4	63·4	63·5	63·9	63·4	60·0	61·4	61·8	61·1
25	56·8	53·4	60·1	60·4	62·4	62·2		62·7	62·9	62·4	62·1	62·0	62·0	63·6	65·3	65·8	64·5	63·4	63·5	63·4	62·8	54·5	60·3	61·6	61·1
26 **	61·4	62·0	61·7	62·4	61·9	62·3		61·8	61·7	61·4	62·1	62·9	65·0	67·1	67·9	67·9	61·9	62·9	59·7	48·5	58·0	50·5	55·8	59·1	62·3
27 **	62·7	61·6	61·0	60·9	61·4	61·9		62·2	61·8	61·6	60·7	61·5	63·7	66·3	66·1	67·4	63·6	63·1	62·8	60·8	54·8	52·5	56·5	60·9	61·8
28	61·3	61·5	62·4	62·0	61·8	61·9		61·3	60·8	60·3	61·3	62·8	64·4	65·6	65·7	66·3	64·1	61·8	62·4	58·3	61·8	61·5	61·1	60·8	61·7
Mean	61·1	61·2	61·8	62·1	62·1	62·5		62·4	62·0	61·4	61·4	62·4	64·3	65·7	66·4	66·5	64·8	64·0	63·4	62·1	61·7	60·7	60·7	60·6	60·9
Mean *	61·0	61·6	62·0	62·3	62·3	62·5		62·3	61·9	61·0	60·9	61·6	63·4	65·1	65·9	65·9	64·7	63·9	63·5	63·1	62·7	62·6	61·7	61·5	61·5
Mean **	62·2	62·1	60·2	60·4	61·0	63·1		62·0	61·4	61·2	61·5	63·0	64·9	66·3	67·1	67·6	64·8	64·8	64·1	58·9	59·8	57·3	57·4	58·9	60·1

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March								9° + Tabular Quantities																		
1	61·5	62·3	63·1	62·9	61·7	61·4		61·4	61·0	59·8	59·8	61·5	63·1	64·8	65·7	65·8	64·9	63·0	62·9	63·0	62·4	62·0	61·8	61·5	61·4
2	61·8	61·8	62·1	62·0	61·8	62·0		62·0	61·3	60·4	60·0	61·3	64·8	66·5	67·4	67·5	66·5	61·9	63·8	63·4	62·9	62·5	62·3	62·0	61·8
3	61·8	58·4	57·9	61·1	62·1	62·2		61·7	60·6	59·5	59·7	62·1	64·6	65·5	66·4	65·9	64·9	63·7	63·1	60·5	60·9	61·1	60·8	60·3	60·5
4 *	61·2	61·3	62·1	61·6	62·0	61·7		61·2	61·0	60·3	59·5	60·2	62·3	64·6	65·6	65·3	64·1	63·8	63·5	63·3	63·0	61·9	61·9	61·1	58·8
5	58·9	58·2	60·2	61·0	61·1	61·8		61·5	60·6	59·7	59·0	60·3	63·6	65·7	67·4	68·3	67·5	66·0	67·3	60·4	59·1	52·6	51·1	59·0	60·2
6	62·1	61·3	60·9	61·2	61·5	61·6		61·4	60·3	58·8	58·6	60·5	64·0	68·3	68·0	68·6	66·2	62·0	56·3	58·2	57·6	58·1	59·7	61·4	59·5
7	60·2	61·5	62·6	61·7	61·4	61·5		61·6	61·6	60·6	61·0	62·8	64·6	66·9	67·4	67·1	65·1	64·2	62·0	61·2	62·5	62·6	62·1	61·2	61·6
8	62·6	61·9	60·4	62·8	64·9	60·7		60·8	60·7	61·3	60·3	63·1	66·5	68·7	68·4	66·7	65·7	64·8	62·3	64·0	62·9	62·8	62·4	61·9	61·8
9	61·7	61·7	61·7	61·6	61·1	60·7		61·0	61·0	60·1	59·8	61·4	63·8	65·9	65·4	64·7	63·6	62·7	62·2	60·8	57·0	58·7	58·8	60·0	60·2
10	60·3	62·2	62·1	61·3	60·7	61·1		60·8	59·8	59·1	59·6	61·1	64·1	65·5	66·0	65·3	64·2	63·2	62·7	63·1	63·2	63·0	62·6	62·7	61·0
11 **	57·0	56·8	55·7	64·3	59·7	57·3		58·7	59·3	59·3	61·3	63·2	65·6	68·3	68·1	67·2	64·3	68·0	63·2	61·1	62·4	61·7	61·4	61·3	59·1
12 **	60·2	61·3	60·9	61·1	61·1	60·7		61·3	59·5	59·5	61·1	60·7	67·3	65·1	68·2	69·1	62·3	64·1	69·7	56·2	58·1	50·8	51·7	42·7	52·1
13	57·4	61·5	62·0	62·1	61·7	62·9		62·8	63·1	63·9	64·3	65·1	66·3	67·1	66·1	64·4	64·2	63·2	62·3	61·4	60·8	61·1	61·2	61·7	61·7
14	61·8	61·7	61·6	61·7	60·9	60·0		60·1	58·9	58·3	58·8	62·3	65·2	65·3	65·4	65·4	64·9	62·7	62·8	62·7	61·7	57·9	54·8	52·8	55·7
15 **	55·7	50·8	52·7	54·6	51·8	59·1		62·2	65·0	61·0	60·2	61·2	64·7	65·1	67·2	68·5	69·6	65·3	64·2	51·6	54·6	53·0	58·2	62·8	52·3
16	60·2	59·0	56·8	58·8	57·1	59·1		59·6	58·3	58·1	59·1	62·2	65·1	67·1	68·6	66·1	66·2	65·3	55·3	60·0	61·0	59·6	56·6	60·1	61·7
17	59·6	61·9	63·1	60·7	60·2	60·7		60·6	60·4	59·5	59·6	61·9	64·2	66·6	67·2	66·7	64·7	63·2	61·3	60·9	59·3	58·6	59·7	58·6	59·9
18	59·8	58·1	58·6	58·1	59·6	59·9		60·1	58·6	58·6	59·2	61·3	64·9	68·2	68·1	67·0	65·5	63·6	59·2	60·6	62·5	60·9	58·9	58·0	59·3
19	58·4	61·7	61·3	60·5	61·1	60·7		61·2	60·1	58·8	59·1	61·1	63·8	66·1	67·0	66·8	65·1	63·5	62·5	62·3	61·7	60·7	61·0	61·6	61·6
20	61·7	58·2	59·6	61·3	60·8	60·4		60·4	59·7	58·7	59·8	63·3	66·2	67·8	67·7	67·2	65·6	64·5	63·8	63·6	61·7	54·0	48·6	56·6	57·6
21	60·7	60·7	60·3	59·1	60·4	61·1		61·2	60·0	59·6	60·3	63·9	65·3	67·5	67·0	66·7	65·5	63·7	62·6	55·8	57·2	62·2	61·9	61·4	60·7
22 *	61·2	61·3	61·8	62·1	61·1	61·4		60·6	59·7	58·7	59·8	62·4	65·0	68·2	66·3	65·4	63·7	62·8	62·2	62·1	62·1	61·8	62·0	62·1	62·0
23 *	61·8	61·6	61·7	61·4	60·3	61·0		60·2	59·1	58·7	60·0	62·3	65·0	67·2	67·3	66·8	65·3	63·7	62·7	62·3	62·1	61·4	61·4	62·1	61·9
24	61·9	61·5	61·1	61·1	60·8	60·2		60·3	59·2	58·7	59·1	63·4	65·1	68·0	69·7	68·3	69·1	68·5	65·7	63·7	62·7	62·4	63·0	61·1	61·1
25	61·2	61·3	60·6	60·7	60·8	60·9		60·4	59·1	58·1	59·3	62·3	65·3	68·3	69·2	67·7	65·3	64·3	61·2	61·8	62·5	62·3	61·1	61·4	64·5
26 **	59·3	50·7	54·4	58·2	60·7	65·3		61·0	63·1	61·0	65·0	64·2	64·7	66·7	68·7	67·1	60·1	67·4	63·1	54·8	49·3	59·0	59·6	59·8	62·5
27	62·1	60·6	64·2	62·3	60·5	59·7		58·6	58·2	58·6	59·8	63·7	67·6	68·6	67·2	67·7	63·5	63·1	60·4	52·4	50·2	56·6	58·1	60·6	61·9
28 **	61·2	62·1	62·8	61·5	61·3	60·1		60·4	60·3	60·5	59·4	64·9	65·9	68·6	72·6	65·4	64·8	63·9	62·9	62·5	62·2	61·7	61·5	61·2	60·9
29	61·0	61·3	61·8	61·0	61·1	62·9		62·5	60·9	59·3	61·8	64·1	67·9	67·5	67·1	66·5	62·8	61·5	60·9	60·9	60·9	58·4	56·6	57·6	60·7
30 *	61·3	61·2	61·0	61·2	60·5	60·4		58·5	56·9	57·0	59·1	63·0	66·4	68·1	67·4	66·5	64·1	61·8	61·4	61·5	61·2	60·9	60·9	61·0	61·2
31 *	61·4	61·1	60·8	60·9	60·9	60·5		59·5	58·3	57·1	58·1	61·5	64·9	67·4	68·0	67·1	64·7	62·1	60·8	61·4	61·4	61·4	60·5	58·2	56·0
Mean	60·5	60·2	60·5	61·0	60·7	60·9		60·8	60·2	59·4	60·0	62·3	65·1	66·9	67·5	66·7	65·3	63·9	62·1	60·6	60·2	59·7	59·4	59·8	60·0
Mean *	61·4	61·3	61·5	61·4	61·0	61·0		60·0	59·0	58·4	59·3	61·9	64·7	66·7	66·9	66·2	64·4	62·8	62·1	62·1	62·0	61·5	61·3	60·9	60·0
Mean **	58·7	56·3	57·3	59·9	58·9	60·5		60·7	61·4	60·3	61·4	62·8	65·6	66·8	69·0	67·5	66·2	65·7	62·6	57·2	57·3	57·2	58·5	57·6	57·4
April								9° + Tabular Quantities																	
1 **	58·4	59·8	58·8	59·4	59·4	64·3		64·8	58·0	61·0	63·8	68·0	66·6	73·1	72·0	70·2	67·5	64·4	59·7	59·4	59·8	56·0	58·3	57·0	57·0
2	57·1	62·7	57·9	57·7	59·3	60·3		59·1	57·4	57·1	58·9	60·8	64·6	66·4	66·8	65·4	63·9	61·7	59·4	58·4	61·3	61·5	61·4	61·1	60·9
3	60·9	61·2	61·2	62·8	60·5	60·0		59·2	57·6	57·1	58·1	60·6	63·5	65·6	66·1	65·5	63·9	62·6	62·2	62·0	61·9	61·3	61·0	60·9	61·0
4	60·7	60·7	60·7	60·2	60·6	60·5		58·8	56·8	56·3	57·9	60·5	63·9	67·0	68·5	66·1	65·2	63·6	62·9	62·1	61·8	61·5	61·1	60·9	60·7
5	60·5	60·9	60·6	60·5	60·8	60·9		60·5	58·5	58·0	58·5	60·5	64·0	64·3	65·1	64·9	63·8	62·5	64·9	64·5	61·5	55·6	52·8	56·5	59·6
6 **	60·4	60·4	60·8	60·7	58·7	59·3		58·6	58·4	58·4	60·9	62·4	64·4	67·8	66·5	66·0	68·4	65·9	54·4	59·0	62·2	62·4	62·0	61·5	61·3
7	62·3	58·8	58·1	62·0	61·9	62·4		60·8	59·8	58·2	59·8	61·0	63·1	65·5	66·5	65·8	65·0	64·0	62·5	61·8	61·6	61·9	61·0	57·1	54·8
8	54·8	58·7	56·4	58·3	59·0	60·0		59·8	59·8	58·9	60·3	63·2	65·9	68·7	70·4	67·0	64·9	61·9	61·0	61·2	61·1	61·2	61·2	60·9	61·0
9 *	61·7	61·3	62·2	61·3	59·8	59·3		58·3	56·4	55·6	57·0	59·8	63·2	65·7	66·3	65·1	63·7	62·1	60·9	60·9	61·2	61·3	61·3	61·3	60·9
10	61·3	61·5	61·7	61·6	60·5	60·2		58·3	56·3	55·5	57·4	61·3	64·5	67·5	67·7	66·5	64·9	62·9	61·8	61·3	61·5	61·6	61·4	61·3	61·1
11 **	60·8	60·7	60·4	59·2	58·8	58·3		56·2	54·8	54·4	56·9	61·4	67·5	73·2	69·2	70·1	68·6	63·0	62·2	59·5	59·4	56·1	58·1	58·4	54·3
12 **	55·8	58·6	62·9	57·1	57·6	59·0		58·0	57·0	57·4	58·5	62·3	64·6	66·5	66·8	65·5	62·7	58·0	60·0	62·4	61·4	57·7	59·4	55·7	55·0
13	56·5	59·2	60·3	59·7	60·9	60·4		59·2	59·8	61·0	60·3	61·5	64·9	66·3	66·7	66·5	65·0	63·4	62·9	62·3	61·9	59·3	57·3	58·3	59·4
14 **	59·5	59·0	64·8	61·8	59·2	58·0		57·2	56·3	56·2	57·3	60·4	64·0	67·4	67·9	66·5	65·0	61·9	58·3	58·4	56·9	58·0	58·7	56·7	57·7
15	60·5	63·7	59·7	58·8	58·3	58·2		59·3	59·2	56·3	57·7	61·2	65·0	68·1	69·0	67·8	66·6	63·4	62·0	60·9	60·3	58·9	57·9	59·2	60·3
16	60·7	61·0	61·9	60·7	60·3	59·2		57·7	56·5	56·7	57·8	60·7	64·0	66·8	67·8	66·8	65·6	64·0	61·8	61·4	60·6	59·6	60·5	60·3	60·9
17 *	61·7	59·4	60·4	59·4	58·5	59·4		58·4	57·3	57·0	58·4	60·7	62·7	64·4	65·5	65·0	64·0	63·0	62·5	61·8	61·4	61·3	61·0	60·4	60·8
18	60·5	60·3	60·7	60·7	59·9	58·1		58·3	57·5	57·5	58·8	60·9	64·3	66·4	66·8	66·3	64·4	62·9	62·3	61·2	61·4	61·4	61·3	59·9	60·4
19	58·8	59·5	56·2	54·9	54·7	54·8		55·2	55·9	56·9	58·5	60·4	64·3	66·0	66·5	65·8	64·4	63·7	62·5	62·0	62·0	61·7	59·0	53·1	57·3
20	59·9	63·0	61·1	58·0	57·5	58·1		59·5	60·8	59·0	59·1	62·0	65·1	68·1	68·4	66·8	64·3	62·4	60·6	59·9	60·4	60·4	60·4	60·4	60·8
21	61·1	61·1	60·5	59·4	59·5	59·5		58·4	57·5	56·7	57·5	59·9	62·4	64·5	65·1	64·5	63·1	62·5	61·5	61·1	61·5	61·5	61·6	60·3	57·9
22	58·7	59·8	59·6	59·5	58·8	58·3		57·0	56·1	56·0	57·5	60·8	64·2	67·0	67·1	65·5	63·5	62·7	61·6	59·7	58·6	51·8	55·2	58·6	60·1
23	60·7	60·7	60·3	61·2	59·2	58·0		56·9	56·6	57·1	59·0	62·3	65·6	67·7	66·8	66·5	67·6	66·0	61·7	61·1	60·6	60·2	60·1	58·2	57·8
24	60·9	64·7	62·1	56·2	57·0	57·1		57·6	58·6	58·1	59·7	62·2	65·1	66·5	66·4	64·5	64·6	63·6	61·5	54·0	55·6	57·6	59·1	59·6	60·1
25	60·8	61·0	63·1	60·3	58·6	58·6		57·9	58·2	59·9	59·2	60·9	63·7	66·0	66·2	64·3	62·2	61·2	60·4	60·0	60·1	60·2	60·5	60·5	60·4
26 *	60·7	60·7	60·7	60·3	60·1	59·3		57·7	56·7	56·7	58·7	61·9	64·4	66·1	65·9	64·2	61·5	60·2	59·5	59·5	60·1	60·2	60·7	61·2	61·1
27 *	61·2	60·9	61·8	61·5	59·0	58·3		57·7	56·8	56·4	56·9	58·8	61·6	64·4	66·4	65·9	64·4	62·9	61·3	60·7	60·8	60·8	60·8	60·8	61·1
28 *	60·9	60·9	61·0	60·8	60·3	59·6		58·2	56·8	56·4	57·6	60·3	63·2	66·4	65·8	64·3	63·6	62·2	60·8	59·8	60·3	60·6	60·8	60·9	61·4
29	61·2	61·7	60·8	60·2	59·3	58·3		57·3	56·5	56·4	58·5	60·8	63·3	65·4	67·2	68·4	66·2	65·8	64·3	62·8	62·3	62·3	61·8	61·3	60·5
30	60·9	61·1	60·5	60·6	60·1	59·2		59·2	58·8	57·8	58·8	60·3	62·8	63·9	65·9	66·3	65·8	64·8	63·6	60·9	60·8	61·5	61·2	58·2	60·2
Mean	60·0	60·8	60·6	59·8	59·3	59·2		58·5	57·6	57·3	58·6	61·3	64·2	66·8	67·1	66·1	64·8	63·0	61·4	60·7	60·7	59·8	59·9	59·4	59·5
Mean **	61·2	60·6	61·2	60·7	59·5	59·2		58·1	56·8	56·4	57·7	60·3	63·0	65·4	66·0	64·9	63·4	62·1	61·0	60·5	60·8	60·8	60·9	60·9	61·1
Mean **	59·0	59·7	61·5	59·6	58·7	59·8		59·0	56·9	57·5	59·5	62·9	65·4	69·6	68·5	67·7	66·4	62·6	58·9	59·7	59·9	58·0	59·3	57·9	57·1

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May																									
1		62·5	63·5	60·0	58·4	58·3	58·2	57·9	57·4	56·8	59·2	62·4	65·7	67·8	68·4	66·5	65·3	63·4	62·2	61·3	59·8	58·4	60·2	60·9	60·8
2 **		60·3	60·7	60·9	62·4	62·5	58·7	57·2	57·2	58·0	59·1	61·7	62·3	64·9	64·5	63·4	62·9	62·5	62·4	61·4	61·2	61·1	61·4	60·8	60·7
3		61·4	60·0	56·8	58·2	58·5	57·8	57·7	57·2	58·1	60·4	62·7	63·8	64·3	65·7	64·4	63·2	62·7	61·8	61·2	61·0	59·8	61·3	59·0	58·8
4		60·3	59·9	59·6	58·9	58·2	57·1	56·9	57·2	57·3	58·7	60·0	61·8	63·2	63·9	64·3	63·9	63·2	62·2	61·4	59·3	59·1	60·3	60·8	60·9
5 *		60·2	60·3	60·2	60·4	59·3	59·2	59·3	58·5	57·8	59·1	60·8	63·6	64·9	65·4	65·3	63·3	62·4	61·9	60·8	60·5	60·8	59·0	60·2	60·4
6		60·5	60·0	59·9	60·1	59·8	59·0	57·9	58·1	58·3	59·8	61·3	63·3	64·4	63·9	62·9	61·9	61·7	60·6	60·8	61·4	61·7	61·7	61·6	61·4
7 *		61·1	60·8	60·3	59·8	58·9	57·4	57·3	57·5	58·4	60·2	61·1	62·2	63·1	64·1	64·1	63·8	62·8	62·2	61·8	60·4	60·8	60·8	58·1	58·4
8 *		57·7	57·1	57·2	56·7	56·1	55·7	55·8	56·4	58·3	59·9	62·1	64·3	65·2	64·7	64·1	64·0	63·7	63·3	62·1	61·1	61·0	61·4	60·9	60·7
9		60·5	59·8	59·0	58·5	58·4	57·7	58·1	58·7	59·5	61·7	63·7	65·6	67·2	66·7	66·1	66·2	63·4	63·7	62·8	57·9	56·7	53·5	56·1	58·1
10		57·2	57·7	56·9	56·1	57·0	57·7	57·0	57·6	58·6	60·0	62·6	65·8	67·3	68·3	67·6	67·2	66·1	64·9	63·2	60·1	59·2	50·9	53·1	56·7
11 **		57·9	58·0	57·1	57·4	57·1	59·4	60·6	57·5	56·5	58·6	61·0	65·0	67·6	69·6	71·0	69·2	66·2	61·6	60·5	58·6	54·2	57·0	59·3	60·3
12 **		59·7	57·0	55·1	58·5	60·4	56·6	55·6	55·7	56·2	57·9	60·6	64·0	66·5	67·3	66·5	64·6	63·1	62·0	59·9	58·0	53·3	53·1	56·8	57·6
13		56·6	57·1	58·0	57·8	58·0	57·3	56·1	55·1	55·8	57·6	60·7	64·6	67·5	67·6	66·0	64·6	63·5	59·2	60·3	59·5	58·7	59·0	58·2	59·1
14		58·8	58·2	58·6	58·2	59·0	58·4	57·9	57·1	57·1	59·1	62·0	65·6	67·6	67·6	69·5	67·6	63·4	63·6	61·6	61·0	60·6	58·6	58·6	61·6
15 *		59·6	59·5	59·6	59·6	59·5	58·1	56·7	56·1	56·1	56·8	59·6	62·6	65·0	66·1	65·9	64·1	62·1	60·1	59·7	60·6	60·2	60·5	58·9	58·7
16		59·6	58·5	60·1	57·6	57·6	57·2	56·2	55·0	55·2	56·6	59·9	64·0	65·6	66·3	65·9	64·7	63·2	62·6	61·9	61·5	61·1	60·6	60·6	58·4
17		57·9	55·6	57·1	56·0	57·1	56·5	57·2	56·8	58·4	60·2	63·2	65·9	67·4	67·6	67·6	66·9	65·1	62·7	60·2	60·8	60·5	60·1	59·7	60·4
18		58·9	58·0	57·7	57·1	56·7	56·5	57·5	57·2	57·6	59·1	61·6	64·2	67·2	69·4	68·6	67·4	66·5	64·0	63·6	60·9	61·1	61·2	57·4	56·1
19		58·1	59·1	60·0	59·6	59·5	58·1	56·6	56·5	56·3	57·4	59·7	63·2	64·3	64·3	65·3	64·7	63·6	63·2	61·6	60·2	58·6	58·6	59·0	60·6
20		58·6	58·6	58·7	58·4	59·7	59·6	62·2	60·1	58·8	58·5	59·0	62·5	65·6	66·6	66·0	65·2	62·2	62·2	61·2	60·9	61·1	61·0	60·7	60·6
21		59·6	60·6	60·1	59·1	58·2	56·9	56·1	55·2	55·6	58·2	60·2	63·6	67·7	68·7	70·5	68·6	64·1	61·9	60·0	59·7	61·2	61·4	60·9	61·0
22 *		60·6	59·7	60·2	59·6	58·9	57·8	57·0	56·7	56·6	58·3	61·0	65·0	67·4	67·7	65·6	63·6	61·2	59·6	59·0	59·3	60·3	60·6	60·9	61·2
23		62·1	61·0	60·0	58·5	58·2	56·6	57·4	59·0	57·1	58·9	63·0	66·2	67·1	67·1	66·6	65·0	62·6	60·5	58·6	59·1	59·6	60·5	60·5	60·8
24		61·0	62·3	61·0	60·3	62·0	58·7	54·8	54·1	56·5	59·1	62·3	65·9	68·6	69·9	68·1	65·8	62·6	60·0	58·6	59·0	58·6	60·1	60·2	60·6
25 **		60·6	60·6	61·8	68·1	60·1	59·8	55·6	52·6	53·7	55·7	60·7	65·0	68·5	70·1	69·6	66·9	63·8	61·5	59·6	59·6	56·5	57·5	59·3	60·2
26		60·6	58·3	59·0	57·6	56·6	54·7	53·9	54·6	55·3	57·2	60·1	63·0	66·0	66·7	66·6	65·9	65·0	63·2	62·2	61·3	61·4	61·2	60·0	60·1
27		59·6	59·6	59·8	59·3	58·1	56·3	54·6	55·2	55·9	57·3	61·1	64·6	67·6	67·7	65·2	63·6	64·1	63·6	63·6	62·8	62·6	61·2	60·6	60·0
28		60·2	59·7	59·2	59·1	57·9	56·9	56·3	56·8	57·1	59·0	61·6	63·6	65·0	67·2	67·0	65·6	64·0	62·7	61·6	62·3	62·6	61·3	61·0	60·9
29		61·6	59·1	55·0	56·8	57·0	56·6	56·1	55·3	55·6	56·6	58·9	62·5	64·5	66·0	66·1	65·0	63·5	61·3	57·7	60·2	60·8	60·9	60·6	58·0
30 **		56·6	57·6	58·2	57·8	57·7	55·4	54·3	54·2	56·1	58·1	61·3	65·0	66·6	67·6	67·9	67·2	66·3	65·2	62·7	61·8	61·4	54·2	54·6	56·8
31		59·9	57·6	57·6	59·1	58·6	58·6	58·2	57·7	59·6	59·6	60·7	61·6	63·6	65·6	66·1	66·3	64·2	62·1	62·2	61·9	61·3	61·0	60·4	60·1
Mean		59·7	59·2	58·9	58·9	58·5	57·6	57·0	56·6	57·0	58·6	61·2	64·1	66·1	66·8	66·5	65·3	63·6	62·2	61·1	60·4	59·8	59·4	59·3	59·7
Mean *		59·8	59·5	59·5	59·2	58·5	57·6	57·2	57·0	57·4	58·9	60·9	63·5	65·1	65·6	65·0	63·8	62·4	61·4	60·7	60·4	60·6	60·5	59·8	59·9
Mean **		59·0	58·8	58·6	60·8	59·6	58·0	56·7	55·4	56·1	57·9	61·1	64·3	66·8	67·8	67·7	66·2	64·4	62·5	60·8	59·8	57·3	56·6	58·2	59·1
June																									
1 *		59·6	59·4	59·3	58·7	57·7	56·8	56·7	56·5	56·9	58·2	60·6	63·5	64·0	63·8	63·1	63·1	62·6	62·4	60·8	60·6	60·6	61·0	60·6	60·1
2 *		59·6	59·2	59·2	58·7	58·1	56·8	56·6	57·0	57·5	58·1	60·5	63·3	63·9	63·9	63·4	63·3	62·5	62·3	62·3	62·2	61·6	61·0	60·4	60·3
3 *		60·3	59·0	59·6	60·6	60·6	59·1	57·6	58·5	56·5	57·3	59·0	62·2	65·1	64·2	63·3	62·7	62·2	61·1	60·6	60·6	60·2	60·5	60·3	59·9
4		59·6	59·2	59·1	58·6	58·1	56·6	56·1	57·0	56·9	57·9	59·6	62·0	64·6	66·8	66·5	65·1	63·6	61·5	61·0	61·0	60·6	60·2	60·4	60·3
5		60·5	60·4	59·9	59·5	58·3	57·0	56·5	55·5	54·5	56·5	59·4	61·5	63·1	64·5	64·5	63·1	62·1	61·6	61·2	61·3	61·6	61·4	60·6	60·8
6 **		59·1	59·1	60·0	59·0	57·5	54·3	52·1	51·4	54·6	56·6	59·5	63·5	66·5	69·7	69·0	68·2	66·5	65·0	61·6	61·5	59·4	58·7	59·3	61·8
7 **		60·5	58·3	56·8	57·5	58·4	55·4	55·0	55·1	55·5	57·5	61·3	64·9	65·4	64·9	64·4	64·2	61·9	62·0	61·0	60·1	56·7	55·9	57·2	58·4
8 **		58·3	59·0	59·9	56·8	54·5	55·4	55·1	57·0	57·3	58·5	60·8	62·8	64·9	66·4	64·7	63·4	63·0	62·6	62·1	60·1	58·0	58·4	58·4	58·4
9		58·4	58·8	58·8	59·1	57·1	56·8	57·9	57·0	57·9	58·7	61·8	63·8	65·1	65·8	65·0	63·8	62·6	62·1	58·4	59·5	58·8	58·8	59·8	59·4
10 **		56·3	57·6	60·3	61·5	59·5	57·9	56·1	54·4	53·2	55·0	58·9	63·4	64·4	65·5	66·2	64·4	62·8	60·5	59·6	58·6	60·0	59·9	61·9	60·1
11		60·3	62·8	60·4	58·0	56·4	55·9	55·8	55·0	54·8	55·8	58·4	61·8	65·6	67·4	67·3	65·5	64·4	62·9	61·9	57·2	57·9	59·8	59·6	59·8
12		59·4	59·4	59·5	59·1	58·3	57·4	57·0	55·4	54·8	54·4	55·9	58·8	61·2	63·5	64·9	64·5	63·8	62·8	60·7	59·8	58·6	59·0	57·9	58·0
13		57·9	57·8	58·1	57·9	57·8	57·9	56·4	54·5	54·4	55·8	58·1	61·1	62·4	63·5	64·1	64·4	63·4	62·9	62·1	61·0	60·0	59·9	59·4	59·5
14		59·5	59·9	60·6	59·1	58·4	57·4	56·3	55·0	55·0	56·3	57·6	60·1	62·3	63·8	64·0	63·9	63·0	62·1	61·5	60·7	59·0	59·5	59·1	59·0
15		58·9	57·8	57·4	57·8	57·0	56·0	56·1	56·5	57·1	58·0	59·5	62·5	63·8	64·1	65·1	64·9	63·5	62·4	60·7	59·9	59·5	59·2	58·8	58·9
16		58·5	58·9	59·1	57·9	57·1	55·9	54·9	55·2	55·9	57·8	59·6	62·0	64·0	65·4	65·2	65·5	64·5	63·6	62·2	60·9	60·3	59·5	58·5	58·8
17		59·0	59·1	57·3	56·7	57·1	55·3	54·5	53·6	53·6	55·7	58·0	60·9	62·6	65·0	66·4	67·7	65·2	63·6	62·7	61·3	61·0	60·8	60·2	59·6
18		59·6	59·2	59·0	58·1	57·6	56·7	56·3	55·2	54·6	55·0	57·1	60·1	62·0	63·2	64·1	64·2	63·3	63·0	61·6	60·9	60·6	60·2	60·3	59·9
19		59·6	59·8	59·6	58·6	57·9	56·1	55·0	53·7	54·6	56·6	60·3	62·4	63·2	63·7	64·2	64·0	62·6	62·2	62·4	62·0	61·0	60·2	57·6	59·5
20		58·9	58·1	57·8	59·1	57·6	56·2	55·3	55·6	55·9	57·3	60·5	63·2	64·7	64·1	63·6	63·1	62·3	61·6	61·5	60·8	60·3	60·0	60·2	60·6
21		60·1	59·6	59·6	59·2	59·6	56·7	56·0	56·2	57·0	58·8	61·1	63·2	65·3	66·0	65·1	63·4	62·0	60·7	60·1	60·1	60·1	60·0	60·3	60·5
22 *		60·0	59·6	58·6	57·9	57·1	56·3	55·6	55·9	56·6	58·6	61·4	64·1	65·0	66·2	66·5	65·2	62·6	61·3	60·6	59·6	59·9	60·3	60·3	60·3
23		59·7	59·6	59·1	58·1	57·2	55·6	54·3	54·4	55·4	59·2	61·4	63·5	64·5	64·6	64·1	63·0	62·6	61·6	60·6	60·2	60·1	60·0	60·5	60·6
24		60·6	60·0	60·7	60·4	58·6	56·1	55·1	55·1	55·9	57·7	60·1	62·6	63·7	65·0	64·0	62·5	61·6	61·0	60·3	60·2	60·1	60·2	59·8	60·5
25		57·0	55·4	58·0	58·6	55·5	54·7	54·6	55·0	55·4	55·7	58·5	61·5	64·6	66·1	66·2	65·3	63·6	62·1	60·7	60·1	59·6	59·1	58·9	59·2
26		59·1	58·6	58·6	58·6	57·6	56·6	55·6	55·0	55·2	56·6	59·1	61·5	63·6	65·1	64·9	64·6	64·1	62·7	61·3	61·0	60·4	59·7	59·6	59·2
27		59·9	60·1	61·2	62·0	57·3	58·7	59·5	55·6	55·4	58·5	59·2	62·1	65·6	67·1	66·6	65·7	62·7	61·3	59·6	59·1	58·5	59·4	59·7	59·6
28		58·8	58·8	59·3	58·4	57·4	56·2	55·5	55·1	54·6	55·9	57·5	60·6	64·5	66·4	65·6	64·6	63·4	61·5	60·2	59·5	59·6	59·6	59·7	59·5
29 *		58·5	58·5	58·8	59·0	57·6	56·0	55·0	53·5	53·5	55·0	57·4	61·0	62·8	63·5	64·1	63·5	62·2	61·3	60·6	60·6	60·7	60·6	60·2	60·3
30 **		59·0	59·2	59·3	59·3	59·0	57·8	56·8	55·8	55·4	55·4	57·1	60·5	63·4	65·3	66·2	66·1	66·5	63·4	64·0	63·5	62·4	61·8	61·0	60·3
Mean		59·2	59·1	59·2	58·8	57·7	56·5	55·8	55·3	55·5	56·9	59·3	62·1	64·1	65·2	65·1	64·4	63·2	62·2	61·1	60·5	59·9	59·8	59·7	59·7
Mean *		59·6	59·1	59·1	59·0	58·2	57·0	56·3	55·9	56·0	57·4	59·8	62·8	64·2	64·3	64·1	63·6	62·4	61·7	61·0	60·7	60·6	60·6	60·4	60·0
Mean **		58·6	58·6	59·3	58·8	57·8	56·2	55·0	54·7	55·2	56·6	59·5	63·0	64·9	66·4	66·1	65·3	64·1	62·7	61·7	60·8	59·3	58·9	59·6	59·8

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

July — 9° + Tabular Quantities

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 **	54·2	57·3	58·3	54·8	59·4	60·0		57·7	55·9	60·0	60·2	62·5	64·4	64·4	67·5	68·4	64·3	64·5	63·9	58·6	61·1	59·8	59·1	56·4	55·6
2	56·3	50·2	53·3	54·3	55·1	54·9		53·4	54·7	54·5	55·1	57·2	60·9	63·8	64·4	64·9	64·4	63·9	61·8	60·8	60·8	60·9	59·4	58·9	59·7
3	59·6	54·4	56·0	56·3	55·0	58·4		57·4	56·4	56·9	57·8	58·9	61·0	63·2	64·8	64·3	62·4	62·3	61·8	60·5	60·1	60·1	60·3	59·5	59·0
4 **	58·5	58·4	58·5	58·0	56·3	54·8		54·2	56·1	56·0	57·4	58·8	60·8	62·9	64·4	65·5	65·9	64·8	62·4	61·4	61·6	60·2	60·4	56·3	57·7
5	61·0	57·6	56·4	56·4	57·0	59·3		57·4	57·3	57·2	58·6	60·3	64·0	65·9	65·5	62·9	62·0	61·5	61·2	59·7	59·0	60·0	59·9	60·3	59·4
6 **	59·4	57·0	56·5	55·6	52·5	52·6		60·5	61·0	60·4	60·5	60·4	59·4	60·5	62·4	61·4	60·7	60·8	58·8	59·9	60·9	60·3	58·7	58·6	58·8
7	58·9	58·4	57·8	57·7	57·0	54·1		54·8	55·2	55·8	57·0	58·4	61·8	65·0	65·6	64·0	63·4	61·8	60·9	60·8	61·0	60·0	59·3	56·5	58·8
8	59·9	59·4	57·7	58·7	61·5	53·9		52·3	52·8	54·1	56·5	59·1	62·0	65·2	67·0	66·1	62·6	62·2	62·0	61·1	61·4	59·5	57·4	58·0	58·9
9	61·0	58·4	57·4	56·2	55·5	54·4		54·8	55·4	56·4	56·4	58·0	60·4	62·9	63·4	62·5	63·4	62·2	59·4	59·9	60·3	60·0	59·8	59·4	58·8
10 *	58·8	57·9	57·4	56·4	56·4	55·0		54·8	55·0	55·4	56·9	59·8	63·9	67·2	68·4	67·3	65·6	63·1	61·1	60·0	59·8	57·4	57·8	58·4	57·9
11	58·8	57·4	57·4	57·0	55·4	53·8		53·1	53·8	55·4	55·8	58·4	61·4	63·9	65·7	65·8	65·4	63·4	61·8	60·5	60·0	59·9	59·8	59·8	59·3
12	59·0	58·4	59·1	57·4	56·4	56·1		56·2	55·4	55·9	56·9	59·0	62·8	66·5	68·2	68·3	67·0	64·4	62·0	60·8	60·1	59·5	59·4	58·8	59·3
13	58·9	58·9	58·3	57·4	56·3	56·2		54·7	53·3	53·7	55·0	58·3	62·4	66·1	67·2	66·6	65·4	62·8	60·8	60·3	60·3	60·1	59·6	58·8	59·3
14	58·3	58·1	57·9	58·2	57·4	58·0		56·4	54·8	55·3	56·4	58·7	60·8	63·2	64·9	64·9	63·7	62·8	62·0	61·2	60·7	60·2	59·8	59·3	59·5
15 *	59·0	58·3	59·0	58·3	57·2	55·2		54·3	54·7	55·7	57·4	59·4	61·4	63·3	64·1	64·4	63·8	62·9	61·9	61·3	60·5	60·3	60·2	60·0	60·2
16	59·9	60·3	59·3	57·2	55·4	54·3		53·7	53·5	54·2	55·9	58·3	61·1	63·5	65·3	65·8	63·8	62·3	60·8	60·7	60·8	61·6	56·8	55·4	57·9
17 **	57·7	57·9	56·7	55·9	55·1	53·7		53·3	53·7	54·9	56·9	59·0	61·3	63·3	64·4	65·7	63·8	63·5	63·6	60·8	59·7	54·0	55·3	57·9	58·3
18	58·6	58·4	60·1	59·2	58·0	57·7		55·8	55·5	55·4	56·5	56·9	59·3	61·8	62·4	62·8	62·0	60·4	59·6	59·4	58·7	57·0	58·5	59·3	59·4
19	58·8	58·7	60·0	59·2	56·9	54·9		54·9	54·0	54·3	56·0	58·5	62·1	64·0	64·9	64·9	65·0	64·5	62·4	60·2	59·5	58·8	58·7	58·0	58·1
20 *	58·6	57·7	57·6	57·3	56·1	54·9		54·6	54·5	54·0	55·3	57·5	60·9	63·6	65·6	65·3	63·6	61·2	59·8	59·6	59·7	59·6	59·6	59·2	59·0
21	59·6	59·1	57·8	57·5	56·7	56·0		55·4	55·2	55·8	57·2	59·7	63·2	65·6	65·3	64·7	63·1	61·2	60·6	60·2	60·2	59·8	60·0	59·7	59·7
22 *	59·6	58·6	58·4	57·9	56·3	54·3		53·8	54·1	54·7	56·4	59·7	62·2	64·8	65·3	65·4	64·4	62·8	61·7	60·7	59·9	58·4	58·8	59·0	58·8
23	58·7	57·8	57·4	56·2	55·2	55·1		55·3	55·5	55·2	56·3	58·6	61·8	64·3	64·8	64·5	64·3	64·7	64·7	64·7	64·5	63·7	59·1	49·3	52·1
24	53·8	56·7	57·2	57·7	56·8	55·5		55·3	56·7	57·4	58·9	61·7	65·4	65·9	65·7	65·4	63·8	62·2	60·7	59·0	57·3	59·2	59·7	59·4	58·7
25	58·8	58·4	59·2	57·7	56·4	54·7		52·6	51·8	51·7	54·6	58·1	60·7	63·1	63·9	62·7	61·7	60·8	60·1	59·7	59·4	59·4	60·1	59·2	58·7
26	58·6	58·7	58·7	58·3	57·7	56·1		56·0	55·6	54·8	56·7	59·6	62·2	65·1	66·3	66·1	63·6	61·7	60·5	59·2	58·4	58·4	59·3	59·4	59·1
27 *	58·7	58·7	58·6	58·2	57·7	56·8		56·7	56·2	55·7	57·2	59·1	61·2	62·7	63·7	64·3	63·2	61·8	60·6	59·7	59·3	59·6	59·5	59·3	59·1
28	58·9	58·8	58·5	56·8	56·2	54·1		52·7	53·3	54·2	58·0	61·0	63·4	66·9	66·2	65·4	63·4	62·2	62·3	61·4	60·6	60·4	59·8	58·8	57·7
29	57·4	59·4	58·8	56·7	56·1	55·1		54·6	54·2	54·8	57·8	61·6	63·8	64·7	65·3	65·4	64·6	62·8	61·1	60·8	61·1	61·2	61·1	52·9	55·7
30 **	54·8	52·2	49·3	51·7	57·3	54·3		52·1	52·1	53·8	56·6	59·8	62·4	65·7	65·8	64·6	63·2	62·3	62·1	61·2	60·8	60·2	59·3	58·2	54·8
31	53·4	54·4	57·6	56·8	55·2	55·2		55·8	56·1	56·2	57·4	59·6	61·8	63·1	63·6	62·8	61·5	60·8	60·2	59·4	58·9	59·3	59·2	58·3	58·5
Mean	58·3	57·6	57·6	57·0	56·5	55·5		55·0	55·0	55·5	57·0	59·2	61·9	64·3	65·2	64·9	63·7	62·5	61·4	60·4	60·2	59·6	59·2	58·1	58·3
Mean *	58·9	58·2	58·2	57·6	56·7	55·2		54·8	54·9	55·1	56·6	59·1	61·9	64·3	65·4	65·3	64·1	62·4	61·0	60·3	59·8	59·1	59·2	59·2	59·0
Mean **	56·9	56·6	55·9	55·2	56·1	55·1		55·6	55·8	57·0	58·3	60·1	61·7	63·4	64·9	65·1	63·6	63·2	62·2	60·4	60·8	58·9	58·6	57·5	57·0

August — 9° + Tabular Quantities

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	58·8	57·8	57·6	57·3	56·8	56·1		56·8	56·4	55·3	55·9	57·9	60·4	61·4	62·5	62·6	62·3	61·8	61·5	61·3	61·4	59·9	58·8	59·4	58·6
2 **	58·8	56·8	51·3	55·8	56·3	50·7		52·5	54·2	54·8	56·8	59·5	62·4	64·2	65·8	65·3	62·8	62·2	60·7	56·3	57·8	59·5	60·4	59·1	57·2
3	57·9	57·3	59·2	58·2	57·2	55·4		54·4	54·3	54·4	56·1	58·7	62·5	65·0	65·1	63·7	61·9	61·7	61·3	60·8	60·6	59·2	59·2	57·7	58·4
4	58·3	58·7	57·4	57·7	57·4	56·2		56·1	55·9	56·8	58·4	60·1	62·4	64·0	64·6	63·8	62·4	60·8	59·7	58·7	58·7	59·0	58·7	57·7	56·8
5	56·4	57·7	57·3	56·8	55·6	54·2		53·6	54·6	54·7	57·2	60·7	62·3	63·2	65·4	64·5	63·7	61·6	57·9	58·4	59·0	59·2	59·2	58·5	58·3
6	58·0	57·6	57·2	55·7	58·7	56·3		55·5	56·1	58·0	59·3	60·7	63·8	65·2	65·9	64·7	62·5	61·1	60·1	58·7	58·3	58·7	58·7	59·3	58·5
7	58·4	58·3	57·6	57·7	56·6	54·7		53·7	53·6	53·8	56·1	58·1	61·2	65·2	67·1	66·7	64·0	61·3	59·5	58·1	57·3	57·8	57·7	55·9	57·2
8	56·2	56·8	57·2	57·1	56·3	54·9		53·8	53·8	54·5	56·7	59·7	62·2	64·6	65·6	66·1	65·7	63·2	60·1	58·7	59·2	59·2	59·2	58·1	58·2
9	58·1	58·2	59·7	58·3	57·1	55·7		55·1	55·2	55·7	57·7	59·3	61·7	63·7	64·9	65·1	63·1	60·8	59·2	57·7	57·3	57·9	58·3	58·2	58·1
10 *	58·3	57·9	57·8	57·7	57·0	55·8		54·2	52·7	51·8	52·9	55·8	59·7	63·9	66·7	66·3	64·4	62·3	60·6	59·7	59·4	59·3	58·9	58·7	58·5
11	59·6	58·6	57·2	57·5	56·3	55·2		54·4	53·8	54·3	56·0	59·2	62·6	65·6	66·7	66·4	64·0	61·5	59·7	59·6	60·2	59·8	58·3	55·7	54·7
12	57·6	56·9	58·7	57·8	55·7	54·3		53·4	53·2	54·2	57·3	60·3	62·8	65·2	66·2	66·0	63·7	61·8	60·3	59·7	60·3	60·1	60·1	59·7	59·2
13 **	58·7	57·1	57·1	56·7	55·6	54·7		55·4	56·1	56·4	58·3	60·5	63·7	65·8	65·2	63·4	62·8	61·1	58·7	57·8	58·4	58·8	58·7	58·4	55·7
14 **	56·0	57·3	57·1	56·5	58·2	58·2		55·3	57·7	58·4	60·8	62·5	64·7	67·7	67·6	66·3	64·1	60·9	60·4	55·7	57·3	60·2	59·9	59·3	58·8
15	56·8	56·6	56·4	56·4	55·7	55·4		55·7	55·7	55·7	58·7	60·2	60·3	61·7	61·6	60·4	59·7	60·4	59·8	60·2	60·3	59·7	57·9	57·7	55·0
16	50·7	49·8	53·8	54·7	54·7	53·7		53·7	53·7	54·2	55·7	58·2	60·8	63·7	63·9	62·5	60·8	59·7	59·1	58·5	58·7	58·3	58·8	57·6	57·1
17	57·6	57·0	56·6	57·0	56·6	56·1		55·3	54·0	53·9	55·8	57·8	61·0	63·0	64·0	63·6	63·1	61·7	59·6	58·3	57·3	58·6	58·5	58·4	58·2
18 *	58·0	57·7	57·2	57·2	56·6	56·3		55·2	54·1	53·7	55·5	58·2	62·7	65·5	65·1	64·3	62·6	60·5	58·6	57·7	58·0	58·5	58·6	58·6	58·6
19 *	58·6	58·1	57·6	56·9	56·7	55·7		54·3	54·6	56·0	57·2	59·1	61·3	62·7	62·6	60·6	59·3	58·2	58·2	59·2	59·3	59·0	58·6	58·3	57·2
20 *	56·6	56·6	56·8	56·9	56·2	55·5		56·0	56·4	56·8	57·6	59·2	61·5	62·6	62·8	62·6	61·6	60·4	60·0	59·6	59·2	59·0	58·5	58·3	58·0
21	58·0	57·6	57·0	56·9	56·3	55·0		53·3	53·2	53·6	55·6	59·6	62·9	66·1	66·0	64·4	63·2	63·5	62·1	61·6	60·6	59·6	57·6	57·9	58·0
22	58·2	58·0	58·0	57·6	56·3	55·2		54·6	54·6	56·0	59·3	63·1	67·0	69·0	68·4	66·2	65·1	62·7	62·7	62·0	55·7	57·0	58·0	58·2	56·9
23 **	55·9	58·5	54·6	61·1	58·6	55·3		54·9	54·5	55·8	57·6	60·5	63·8	65·6	64·8	63·1	61·1	59·6	58·6	58·2	58·0	58·1	57·0	56·2	57·0
24 *	56·9	56·9	56·6	58·2	57·6	55·6		55·2	54·9	55·6	57·6	60·6	62·8	64·8	64·9	63·6	61·4	59·5	58·6	58·6	58·1	58·4	58·1	57·9	57·9
25	58·2	58·2	58·3	58·2	57·2	56·4		55·4	55·7	55·0	57·5	61·4	64·6	66·9	66·7	65·2	63·3	61·0	59·3	58·4	58·0	58·4	57·9	57·6	57·5
26	57·5	57·5	57·5	57·2	57·0	56·4		56·1	55·9	55·6	57·0	60·5	63·9	66·2	66·0	64·0	62·1	59·9	58·5	58·5	59·0	59·0	58·5	58·4	57·9
27	57·6	57·5	57·4	56·4	56·9	55·6		54·7	54·5	54·6	56·4	59·0	63·0	66·1	66·9	65·2	64·0	62·5	60·9	60·4	59·6	55·5	58·5	58·6	57·9
28 **	56·2	54·8	50·5	41·3	45·5	49·8		49·3	50·5	51·1	53·6	57·3	60·6	63·5	65·0	64·4	64·1	61·1	60·7	59·4	57·8	50·4	56·4	57·1	57·1
29	57·5	56·4	57·2	56·6	56·1	55·4		55·1	53·5	53·5	54·7	56·9	60·1	62·9	63·2	63·5	61·7	59·8	58·9	58·5	58·1	58·0	57·3	58·0	56·2
30	57·2	57·1	57·2	56·7	56·2	55·5		55·2	55·8	56·5	58·3	61·3	63·2	63·5	62·1	60·4	59·1	59·2	59·1	59·0	58·7	59·5	59·3	58·5	57·1
31	56·9	57·1	57·1	57·5	56·2	56·1		55·9	56·2	56·8	58·4	60·5	62·3	62·3	62·0	61·5	60·5	59·9	59·7	59·5	58·5	58·0	58·2	59·0	56·5
Mean	57·4	57·2	56·8	56·7	56·3	55·2		54·6	54·7	55·1	57·0	59·6	62·4	64·5	65·0	64·1	62·6	61·0	59·8	59·0	58·7	58·5	58·5	58·1	57·5
Mean *	57·7	57·4	57·2	57·4	56·8	55·8		55·0	54·5	54·8	56·2	58·6	61·6	63·9	64·4	63·5	61·9	60·2	59·2	59·0	58·8	58·8	58·5	58·4	58·0
Mean **	57·1	56·9	54·1	54·3	54·8	53·7		53·5	54·6	55·3	57·4	60·1	63·0	65·4	65·7	64·5	63·0	61·0	59·8	57·5	57·9	57·4	58·5	58·0	57·2

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September														9° + Tabular Quantities											
1	56·4	56·7	56·9	56·9	56·5	55·4		54·1	53·4	53·8	55·4	58·3	61·0	63·5	63·3	62·7	62·1	60·5	59·9	59·7	59·4	58·5	58·8	56·5	54·4
2	55·4	53·4	55·1	56·1	55·3	55·4		55·4	55·8	55·3	55·9	58·3	61·7	63·4	63·4	62·9	61·4	59·5	58·0	58·0	58·2	58·0	57·4	56·3	55·0
3	56·4	56·4	56·9	56·8	56·4	55·7		54·9	54·4	55·0	56·7	59·9	62·4	63·4	62·8	61·8	60·3	59·1	59·3	59·4	58·5	58·4	58·0	57·8	55·8
4 **	57·7	58·4	53·0	54·1	54·5	54·3		52·4	52·5	57·3	58·0	60·9	64·4	64·4	63·4	62·9	61·4	60·4	58·9	57·8	53·2	52·5	55·5	57·4	57·5
5	58·6	56·4	55·7	56·0	55·1	54·9		54·0	53·8	55·0	57·7	60·4	64·2	64·6	65·2	64·0	59·8	58·5	58·4	58·7	58·8	58·5	57·9	57·5	56·9
6	56·5	55·2	55·4	54·9	54·5	54·1		54·4	53·9	54·4	56·0	59·4	62·4	64·4	63·4	61·6	60·2	59·0	58·1	57·0	57·5	57·7	57·5	54·9	55·4
7	57·0	56·5	56·9	56·9	55·6	55·2		54·2	53·4	53·4	55·0	58·2	62·0	64·4	64·4	62·9	61·2	59·3	58·2	58·0	57·9	57·5	57·0	57·4	58·3
8	58·6	57·7	57·4	56·4	56·3	55·4		53·7	52·9	53·4	55·8	59·1	62·4	64·3	64·6	63·4	61·2	59·8	58·4	58·4	58·0	58·4	58·4	56·3	54·4
9	55·2	56·0	56·3	56·5	56·4	56·0		54·7	53·8	53·7	55·4	57·9	61·1	63·3	64·7	63·3	61·2	59·9	59·6	59·3	58·8	58·3	58·1	57·6	55·9
10 *	55·8	56·9	56·8	56·8	56·5	56·3		55·7	54·4	54·3	55·0	58·4	62·0	63·7	63·6	63·0	62·1	60·8	59·7	58·4	58·8	56·8	57·0	56·7	56·4
11	56·4	55·9	55·8	56·8	56·3	56·1		55·3	54·9	54·3	55·7	57·7	60·3	62·9	62·7	61·8	62·1	62·2	61·7	57·0	58·2	58·0	51·4	52·7	53·9
12 **	54·7	61·0	55·0	53·6	56·4	55·6		55·0	54·1	54·9	55·8	58·3	61·4	65·0	64·7	63·9	63·8	62·8	61·4	59·4	58·3	58·3	57·6	57·2	56·8
13	56·4	56·5	56·8	57·0	57·3	57·1		56·9	55·7	55·2	54·8	55·6	58·3	61·7	64·3	64·3	64·2	62·3	60·8	56·8	54·2	58·2	57·6	56·7	55·6
14 *	56·5	57·8	58·7	57·2	57·0	56·9		56·2	55·5	55·8	56·7	57·7	60·5	62·3	61·8	60·8	60·3	60·3	59·8	58·3	57·3	57·3	57·7	57·8	57·3
15 *	56·9	56·9	57·2	56·7	56·8	55·9		55·7	55·8	56·4	57·7	59·3	61·4	63·2	63·3	62·3	60·4	59·3	59·0	58·3	58·0	57·3	57·7	57·6	56·8
16	55·9	54·3	55·7	55·9	56·4	56·4		56·3	56·3	56·8	56·7	57·3	59·9	61·7	61·8	62·4	61·9	60·9	59·7	57·7	56·4	56·3	56·2	56·9	56·2
17 **	55·3	52·3	51·9	56·3	57·7	59·3		57·8	56·8	56·3	56·3	61·8	63·0	66·3	65·2	67·3	64·3	56·9	53·3	56·9	56·8	54·5	53·3	53·5	56·9
18 **	53·3	56·7	62·7	58·3	55·6	54·4		54·8	55·4	54·8	56·8	58·8	61·2	63·7	64·2	66·4	64·4	54·1	49·8	53·6	56·8	50·3	50·9	48·0	49·4
19	55·3	58·6	55·3	56·5	56·0	56·3		54·8	53·5	54·1	55·9	56·5	59·8	61·3	61·3	60·3	58·4	57·6	56·8	56·0	52·3	51·9	53·7	53·0	53·6
20	55·9	57·8	57·3	57·8	58·7	57·3		55·6	54·3	53·5	55·3	58·1	62·3	63·7	63·2	61·8	61·3	60·2	59·3	58·9	57·8	56·8	57·3	57·4	57·2
21	57·4	57·4	56·9	57·2	57·0	56·8		55·9	54·8	54·2	55·1	57·5	60·4	63·4	64·5	64·4	62·5	61·7	59·9	58·4	56·4	54·5	51·9	52·5	54·6
22	53·7	54·4	55·9	56·4	57·0	56·0		55·4	54·1	54·0	54·9	57·0	60·1	62·6	62·5	62·5	61·3	59·9	58·8	57·2	56·8	57·0	56·8	56·3	56·3
23 *	56·6	58·0	57·2	57·1	56·8	56·4		55·1	53·4	52·9	54·3	56·8	60·5	63·4	63·7	62·9	61·3	59·9	59·0	58·6	58·0	57·4	57·1	57·0	56·6
24 *	57·0	57·0	57·4	57·4	57·4	57·3		56·0	54·4	53·1	53·8	55·8	60·0	64·4	64·9	63·5	61·3	59·4	59·2	59·0	57·8	57·0	57·0	56·4	55·9
25	56·0	56·3	56·6	56·6	56·0	55·7		54·9	52·8	51·9	53·1	56·4	60·8	63·5	64·0	63·4	60·5	59·5	59·0	57·9	57·4	58·3	57·4	56·5	53·5
26	54·7	55·5	56·7	56·9	56·4	56·4		55·5	54·4	53·5	54·0	56·3	59·0	61·2	61·9	61·0	60·4	60·4	57·0	57·4	59·0	57·3	57·8	57·5	56·8
27	56·7	56·2	55·5	56·5	57·1	56·8		55·0	53·4	52·8	54·0	56·5	60·4	62·1	61·8	62·6	62·8	61·9	59·9	58·5	58·2	58·1	57·0	55·0	54·3
28	55·0	54·6	55·1	57·1	56·4	56·4		55·1	54·1	53·9	54·6	56·3	58·9	61·4	62·8	62·4	61·2	59·9	58·9	57·7	57·5	57·1	57·0	56·6	56·1
29	57·1	57·0	57·0	57·1	57·2	57·2		56·3	54·2	53·5	54·5	57·5	60·4	62·7	62·3	62·2	61·6	60·6	59·0	56·7	57·5	55·1	56·8	57·6	56·9
30 **	57·1	57·1	58·1	56·6	56·8	56·3		55·5	56·3	56·6	54·7	59·2	61·9	65·2	65·3	63·0	60·9	59·6	59·0	58·1	58·6	55·6	54·0	55·0	51·2
Mean	56·2	56·5	56·4	56·5	56·4	56·1		55·2	54·4	54·5	55·5	58·0	61·1	63·4	63·5	62·9	61·5	59·9	58·7	57·9	57·4	56·7	56·4	56·0	55·5
Mean *	56·6	57·3	57·5	57·0	56·9	56·6		55·7	54·7	54·5	55·5	57·6	60·9	63·4	63·5	62·5	61·1	59·9	59·3	58·5	58·0	57·2	57·3	57·1	56·6
Mean **	55·6	57·1	56·1	55·8	56·2	56·0		55·1	55·0	56·0	56·3	59·8	62·4	64·9	64·6	64·7	63·0	58·8	56·5	57·2	56·7	54·2	54·3	54·2	54·4
October														9° + Tabular Quantities											
1	54·1	52·6	53·5	56·1	56·1	56·3		55·6	54·6	53·7	54·6	56·7	59·9	61·6	61·8	60·9	59·3	58·0	57·3	56·7	57·2	51·9	53·2	56·6	57·0
2	57·1	57·0	57·0	57·1	56·9	56·8		56·2	55·1	54·6	56·1	59·3	62·0	64·0	65·1	64·1	61·1	59·6	58·6	58·2	57·5	57·4	57·0	57·0	56·8
3 *	57·5	56·6	56·9	56·6	56·6	56·7		56·0	54·6	53·2	54·3	57·4	61·1	63·0	62·9	62·0	60·6	58·6	58·4	58·0	57·6	57·4	57·2	57·3	56·9
4 *	57·0	57·1	57·5	57·2	57·0	57·1		56·2	54·1	52·6	53·2	56·1	59·6	62·1	62·7	62·1	60·7	59·2	59·0	58·6	58·0	57·6	57·2	56·9	56·7
5	55·3	54·9	55·3	56·1	54·5	55·1		54·6	53·6	52·7	54·0	58·4	63·5	65·2	66·0	65·8	63·2	61·6	61·6	60·1	57·5	55·1	53·9	56·2	56·6
6	56·8	56·6	56·7	56·6	56·6	56·5		55·8	54·1	52·6	53·5	57·0	60·6	63·1	64·2	63·2	61·1	59·3	58·6	58·0	57·6	55·1	54·5	54·6	53·8
7	56·0	56·7	57·2	57·2	56·9	56·7		55·6	53·6	53·0	53·7	56·6	60·1	62·5	62·7	61·4	60·0	58·7	58·6	58·1	58·0	58·3	53·5	49·2	48·1
8	53·0	55·8	56·6	56·3	56·2	55·7		55·0	53·8	53·4	54·0	56·8	62·2	64·5	65·6	64·4	63·5	63·1	59·5	58·1	57·5	56·9	56·6	56·5	56·6
9	56·9	57·3	56·8	56·8	57·4	59·0		58·1	56·9	55·6	55·7	56·6	59·0	61·6	62·7	62·1	61·2	58·6	58·0	57·5	57·2	56·7	56·6	56·6	56·6
10 *	56·6	56·7	56·9	57·2	57·1	56·9		56·3	54·6	53·7	54·9	58·1	62·0	63·2	63·4	62·8	60·6	59·4	59·1	58·2	57·6	57·2	56·7	56·8	56·7
11 *	56·5	56·6	56·6	56·6	56·6	56·5		56·0	54·6	53·3	54·2	57·0	60·5	62·5	63·2	62·2	60·6	59·2	59·2	59·0	58·1	57·4	57·5	57·2	56·7
12 **	56·2	56·6	56·8	56·9	57·1	55·7		55·6	55·3	52·9	54·2	60·6	65·2	66·6	69·2	63·6	65·1	60·9	58·0	49·0	55·6	53·2	51·1	53·4	57·5
13	54·9	54·6	57·2	57·5	56·9	56·9		57·8	57·0	55·9	57·0	60·0	62·1	62·5	62·2	61·5	59·4	57·5	57·3	56·5	54·5	54·5	54·5	53·7	54·2
14	53·2	55·1	55·5	56·1	56·5	56·4		56·8	57·0	55·5	55·8	57·9	60·5	62·7	62·9	62·8	60·6	57·7	55·5	57·8	56·7	51·9	51·4	52·6	53·7
15	54·9	55·5	55·9	55·5	56·1	56·5		56·5	55·0	54·1	55·4	58·5	60·5	63·0	61·9	61·6	60·5	59·5	59·5	57·9	57·5	57·1	56·7	55·4	55·7
16 **	56·0	56·2	56·1	56·8	55·5	55·5		57·9	57·2	56·2	57·9	60·5	62·5	64·9	65·1	67·5	65·6	59·1	56·0	53·1	54·9	55·3	56·2	56·5	56·8
17	57·1	57·0	57·2	56·9	56·9	56·2		56·6	55·1	54·5	55·9	59·4	62·4	64·1	64·3	62·9	60·9	58·4	57·9	57·4	53·0	55·1	56·8	56·6	56·3
18	56·6	56·0	56·4	56·4	57·1	56·7		57·0	54·3	54·1	55·7	60·0	62·5	63·0	62·1	60·6	58·9	58·5	58·3	57·6	58·0	56·2	56·2	56·0	56·0
19	57·8	57·0	56·6	56·6	56·5	56·0		55·7	54·2	53·6	55·6	60·0	62·6	64·1	62·6	60·6	59·3	58·5	59·5	58·4	57·6	53·6	48·6	54·6	53·5
20	52·1	50·8	54·6	56·6	56·2	55·2		55·1	54·0	53·2	54·7	58·2	60·6	61·6	60·1	58·7	57·6	57·6	58·2	57·7	57·6	54·9	53·6	53·9	54·6
21	56·6	57·0	56·8	56·6	56·5	55·9		55·7	55·2	54·3	54·7	57·4	59·6	60·4	60·1	59·2	58·2	57·6	58·0	57·3	57·1	56·2	56·0	54·0	55·0
22	56·6	56·8	56·6	56·7	56·6	56·0		55·7	54·7	53·9	54·7	58·3	61·6	64·6	65·1	65·9	64·6	60·6	58·6	57·0	56·3	56·5	54·9	54·1	54·3
23	57·3	56·6	56·0	56·6	56·1	55·6		55·4	54·5	53·6	54·9	57·6	60·6	61·6	61·6	60·0	59·0	58·3	58·5	58·2	57·2	56·6	56·6	55·6	55·1
24 **	56·6	55·6	54·6	56·6	56·2	55·1		55·0	54·4	55·5	59·6	62·6	65·9	64·9	61·6	62·6	59·7	58·7	59·6	56·9	50·1	49·8	50·1	44·6	46·3
25 **	46·6	36·0	42·0	41·3	53·0	54·7		55·7	57·0	56·7	59·1	62·9	62·7	65·9	65·6	64·1	60·6	60·6	56·6	59·1	56·0	56·5	55·6	55·6	54·6
26 *	54·0	53·9	54·7	55·5	55·7	55·6		55·6	55·6	55·1	55·7	57·6	59·2	59·7	59·6	58·8	58·1	58·3	58·2	57·6	57·2	56·6	55·6	56·2	55·9
27	55·6	56·0	56·2	56·5	56·4	55·8		56·0	55·6	54·1	54·1	56·2	58·7	60·0	60·5	59·8	59·6	59·6	58·6	57·6	56·0	52·7	49·4	45·5	38·8
28 **	38·0	42·5	49·9	49·6	55·1	54·2		55·1	54·5	53·4	54·2	56·7	59·6	61·5	61·6	61·0	60·6	59·2	58·3	53·6	56·0	48·6	47·6	55·1	55·6
29	56·2	55·3	54·4	55·7	56·1	54·8		55·0	54·6	54·0	55·2	57·2	60·3	62·1	62·1	60·6	59·1	58·3	55·9	58·4	57·7	56·7	55·4	52·7	55·1
30	54·1	54·5	55·7	54·8	55·2	54·9		55·3	55·1	54·3	54·9	57·9	60·7	62·2	58·7	59·0	58·7	57·2	55·4	56·3	56·6	56·2	56·1	55·9	56·1
31	55·7	55·7	55·3	55·7	56·2	55·6		55·4	55·2	54·7	55·8	58·7	60·1	61·0	60·7	58·7	58·1	58·3	57·7	56·3	55·8	56·6	56·7	56·3	54·7
Mean	54·9	54·7	55·5	55·8	56·3	56·0		55·9	55·0	54·1	55·3	58·3	61·2	62·9	62·8	62·0	60·5	59·0	58·2	57·2	56·6	55·4	54·6	54·6	54·6
Mean *	56·3	56·2	56·5	56·6	56·6	56·6		56·0	54·7	53·6	54·5	57·2	60·5	62·1	62·4	61·6	60·1	58·9	58·8	58·3	57·7	57·2	56·8	56·9	56·6
Mean **	50·7	49·4	51·9	52·2	55·4	55·0		55·9	55·7	54·9	57·0	60·7	63·2	64·8	64·6	63·8	62·3	59·7	57·7	54·3	54·5	52·7	52·1	53·0	54·2

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November														9° + Tabular Quantities											
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 *	55·3	55·8	55·7	55·7	55·6	55·1		55·5	55·7	54·8	55·2	57·7	59·7	60·5	59·7	58·3	57·7	57·7	57·8	57·4	57·2	56·8	56·7	56·3	56·1
2 *	55·4	55·7	56·0	55·4	55·6	55·1		55·3	55·3	54·7	54·7	57·3	59·7	60·7	59·7	58·5	57·8	58·1	57·7	56·9	55·3	56·3	56·6	56·6	56·7
3	56·7	56·7	56·7	56·3	55·7	55·4		55·8	55·6	54·7	54·7	56·7	59·4	60·7	60·2	60·0	58·7	58·3	57·7	57·1	56·9	56·7	56·6	56·6	55·3
4	56·3	56·1	55·9	56·3	56·1	55·9		55·7	55·3	54·4	54·9	56·9	59·2	60·3	61·8	60·8	60·7	59·7	59·1	58·8	58·5	57·3	53·7	55·6	55·3
5	51·7	51·9	52·7	51·6	52·7	53·6		54·6	54·7	54·0	54·8	57·1	59·8	60·7	60·9	60·8	59·9	58·7	58·2	57·3	56·5	56·1	55·8	55·7	55·9
6 *	56·1	56·3	56·3	56·5	56·6	56·1		56·1	55·7	54·6	54·2	55·5	57·3	59·1	59·5	58·7	57·7	57·5	57·3	56·9	56·7	56·0	55·8	55·8	55·8
7	56·2	56·3	56·6	56·7	56·7	56·2		55·7	55·7	54·7	54·3	56·3	58·2	59·2	59·3	58·4	58·0	57·7	57·7	56·6	56·5	55·9	55·7	56·0	56·4
8	56·6	56·7	56·7	56·7	56·7	56·3		56·3	55·7	54·4	54·1	56·1	58·4	61·3	60·8	61·0	60·1	59·7	56·6	56·8	48·8	45·4	47·8	51·8	51·2
9 **	52·7	51·8	56·4	56·8	54·5	55·1		65·3	70·8	59·7	57·8	65·3	62·7	62·3	60·2	57·7	59·1	50·5	55·2	55·7	47·8	49·1	51·7	53·6	54·7
10	51·7	52·4	56·7	58·7	55·7	56·1		58·2	58·3	55·7	55·6	56·3	57·3	60·0	58·9	58·6	57·3	57·0	56·3	56·7	56·7	55·8	54·7	53·0	55·4
11 **	54·7	55·2	56·9	58·3	59·4	61·7		62·2	59·7	58·2	57·1	57·7	58·3	56·9	60·3	57·6	55·6	56·1	54·6	51·8	52·5	54·6	55·1	55·4	55·3
12 **	53·4	58·4	55·1	53·8	55·3	58·2		57·7	58·0	56·7	56·9	56·6	57·3	59·2	59·3	58·4	57·7	56·3	57·1	57·2	51·3	50·7	53·9	53·4	54·0
13	55·3	56·6	56·2	55·4	56·2	56·7		58·4	56·8	55·5	54·3	55·1	57·3	57·8	58·5	57·2	56·8	55·8	55·7	54·2	56·0	54·9	53·7	53·8	53·8
14	54·8	54·7	55·3	55·6	55·2	55·8		55·8	56·1	54·8	54·8	56·8	59·4	60·8	60·3	59·4	59·1	58·2	59·1	58·2	56·2	54·7	54·5	55·3	55·3
15	55·1	54·3	55·2	54·6	55·7	55·6		56·4	56·8	56·2	56·1	57·0	58·4	59·8	59·9	59·8	59·8	59·7	60·8	60·2	59·2	57·9	56·8	55·6	55·1
16 **	53·9	54·6	54·6	55·1	55·2	55·6		55·2	55·7	55·1	54·8	57·3	57·7	60·3	61·7	57·7	58·4	59·3	55·7	52·4	54·5	55·6	54·8	56·0	54·8
17	51·3	55·7	55·9	55·2	54·7	54·9		54·8	55·8	56·7	57·1	57·5	60·4	57·7	58·7	58·6	58·0	57·2	56·7	56·6	56·1	55·7	55·7	55·7	56·0
18	56·2	56·3	56·4	56·1	56·1	55·5		55·3	55·3	55·2	55·7	57·0	58·2	59·6	59·2	58·7	58·2	57·7	56·8	56·1	55·8	55·7	55·7	55·9	56·0
19	56·4	56·6	56·7	56·7	56·4	55·8		55·7	55·7	55·7	55·7	56·7	57·7	58·7	58·7	58·4	58·6	57·5	57·2	56·7	56·4	55·7	55·3	55·1	55·7
20	56·2	56·3	56·4	56·2	56·3	55·8		55·4	55·6	55·2	55·7	56·9	58·3	58·4	58·2	57·4	57·3	57·2	56·9	56·4	55·9	55·7	55·3	55·0	54·8
21	55·4	55·5	56·2	56·4	56·1	55·8		56·0	56·3	55·8	55·9	57·4	58·4	58·8	58·8	57·9	58·1	58·4	58·3	57·8	57·0	56·0	55·0	53·9	53·2
22	53·8	54·1	55·8	56·7	55·7	55·8		56·2	56·3	55·8	55·8	56·9	58·6	59·4	58·9	57·9	58·0	57·8	57·3	57·3	56·9	56·2	55·8	55·5	55·8
23	55·8	55·9	56·2	56·4	56·3	55·8		56·0	56·0	55·8	55·8	56·9	58·9	60·2	60·2	58·8	58·8	58·0	56·8	56·6	56·7	56·2	55·9	55·8	55·7
24 *	55·7	55·8	56·3	56·4	56·4	56·2		55·8	55·8	55·8	55·8	56·9	58·4	59·8	59·4	58·9	57·9	57·4	56·9	56·8	56·7	56·3	56·1	55·8	55·4
25	55·3	55·7	56·0	56·3	56·6	56·3		56·2	56·1	55·9	55·8	57·2	58·4	58·9	58·7	58·0	58·1	58·8	58·2	56·8	57·0	54·8	55·1	55·5	55·2
26 *	55·6	55·8	55·6	56·0	56·1	56·1		56·7	56·5	56·1	56·1	57·2	59·2	59·8	59·3	58·2	58·4	57·6	57·2	56·8	56·4	56·1	55·3	55·4	55·1
27	55·0	55·4	56·0	55·7	55·8	55·8		55·2	55·8	56·2	56·7	57·7	58·8	59·5	59·5	58·0	57·8	57·4	57·2	57·1	56·8	56·7	56·8	56·3	56·1
28	55·4	55·6	55·8	55·4	55·8	55·8		55·5	55·4	55·7	55·8	56·8	58·2	58·7	58·4	57·4	57·2	57·1	56·7	56·9	57·3	56·9	56·4	54·8	54·7
29 **	55·3	54·3	53·7	54·8	55·3	54·8		54·8	56·2	56·5	58·2	59·6	59·2	59·8	59·2	58·7	57·5	57·4	57·2	56·9	50·7	50·0	54·3	54·6	55·4
30	55·2	55·9	56·2	56·4	56·2	55·9		55·6	55·4	55·2	55·2	56·4	57·5	58·8	58·2	57·7	57·2	56·8	56·5	56·2	56·0	55·6	55·4	55·4	56·2
Mean	55·0	55·4	55·9	55·9	55·9	56·0		56·4	56·6	55·7	55·7	57·2	58·7	59·6	59·5	58·6	58·2	57·6	57·2	56·6	55·5	55·0	55·1	55·2	55·2
Mean *	55·6	55·9	56·0	56·0	56·1	55·7		55·9	55·8	55·2	55·2	56·9	58·9	60·0	59·5	58·5	57·9	57·7	57·4	57·0	56·5	56·3	56·1	56·0	55·8
Mean **	54·0	54·9	55·3	55·8	55·9	57·1		59·0	60·1	57·2	57·0	59·3	59·0	59·7	60·1	58·0	57·7	55·9	56·0	54·8	51·4	52·0	54·0	54·6	54·8
December														9° + Tabular Quantities											
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 *	56·4	56·7	56·8	56·6	56·1	55·6		55·4	55·2	55·5	56·0	57·0	58·1	58·7	58·3	57·8	57·3	57·2	56·4	56·3	56·2	55·8	55·8	55·7	55·9
2	55·8	56·1	56·3	56·4	56·8	55·8		55·3	55·2	55·3	56·2	57·2	58·1	58·3	58·2	57·6	57·4	57·3	56·9	56·4	56·1	55·8	55·9	54·8	51·3
3 *	54·8	55·4	55·6	55·5	55·4	55·4		55·7	55·6	56·2	56·8	57·7	58·3	58·3	57·5	56·8	57·2	57·3	56·9	56·3	56·2	55·8	55·8	55·0	55·0
4 *	55·3	55·8	56·1	56·3	56·1	55·8		55·8	55·6	55·8	55·8	56·8	57·8	58·4	58·2	57·3	57·0	56·8	56·7	56·3	55·8	55·8	55·7	55·7	55·9
5	55·9	56·5	56·8	56·9	56·9	56·1		55·8	55·5	55·8	55·8	56·7	57·4	58·0	58·3	57·8	58·3	58·0	57·7	57·3	56·4	51·8	52·1	52·7	52·6
6	53·7	54·6	56·8	56·8	55·9	55·6		55·3	55·4	55·5	56·8	57·3	57·8	59·4	60·9	58·9	57·8	57·8	56·7	56·1	55·7	51·3	50·8	53·8	53·9
7	52·3	53·4	53·8	55·8	55·7	55·8		56·6	56·7	55·8	55·3	56·3	57·8	57·9	57·8	57·0	56·7	56·2	56·4	56·2	55·9	55·8	55·3	53·2	49·6
8	51·0	53·9	55·5	56·4	57·5	59·3		54·7	55·9	56·3	56·3	57·3	57·6	58·4	57·9	54·9	57·1	56·9	56·3	56·0	55·9	55·1	53·9	54·6	54·2
9	51·9	54·4	56·5	55·6	55·9	56·2		56·0	56·5	55·9	55·9	56·8	58·3	58·0	57·3	57·8	55·7	56·2	56·9	55·9	55·8	53·8	53·8	53·5	53·0
10	54·2	55·4	55·4	57·4	57·1	57·0		56·8	56·8	56·7	56·7	56·7	57·3	57·5	57·5	57·3	57·6	56·8	56·5	56·2	55·7	55·3	55·3	55·0	55·3
11 *	55·5	55·8	55·6	56·2	56·1	56·0		56·0	55·8	55·5	55·3	56·3	57·2	57·9	58·1	57·9	57·7	56·6	56·6	55·9	55·5	55·3	54·8	54·9	55·1
12	55·0	55·5	55·7	55·9	56·1	55·9		55·9	55·9	55·8	55·9	56·8	57·1	57·9	58·3	57·7	56·9	56·9	56·5	56·1	56·4	54·6	55·5	54·9	55·3
13	55·0	55·7	56·2	56·1	56·3	55·9		55·9	55·9	56·4	56·3	56·9	57·2	58·6	59·6	59·9	60·4	62·8	64·6	63·5	58·9	53·0	45·4	44·3	41·4
14 **	45·5	45·4	34·3	37·9	34·1	52·2		63·9	65·4	60·4	57·8	65·4	58·5	61·7	67·9	61·1	61·4	57·3	55·5	55·8	55·5	54·9	54·4	53·9	53·9
15	53·9	53·9	53·7	54·4	54·9	54·7		55·5	55·9	56·2	55·9	55·4	56·0	56·4	57·4	56·9	56·2	54·8	55·2	55·9	54·3	54·5	53·9	49·1	54·5
16	54·0	55·2	54·6	54·4	54·4	54·6		54·5	54·7	54·8	55·0	55·6	56·3	56·7	57·0	56·4	55·8	55·6	55·4	55·1	54·9	54·8	55·2	53·8	53·5
17	57·2	54·3	51·8	53·5	54·3	57·2		56·4	56·3	56·2	55·6	57·5	57·8	58·2	57·9	59·3	59·4	57·8	56·3	55·9	55·5	54·6	52·8	53·8	53·2
18	53·6	55·4	55·8	56·1	55·8	55·5		55·1	54·9	55·3	55·8	57·0	57·2	57·5	56·8	55·9	56·3	56·4	56·7	55·8	54·8	54·3	53·9	54·5	55·2
19	54·4	55·4	55·7	55·8	55·6	55·2		54·8	54·8	55·8	56·8	56·8	57·4	57·3	57·4	56·8	57·3	56·4	56·0	55·9	56·4	55·7	55·8	49·7	44·3
20 **	49·4	50·8	55·3	54·3	55·2	54·9		52·4	52·8	54·2	56·0	56·6	57·3	57·8	57·8	56·8	59·2	61·7	61·1	62·1	58·6	52·4	50·8	50·3	48·8
21	49·2	46·9	46·8	50·1	52·3	57·0		59·7	58·9	58·4	58·4	58·2	57·7	58·7	58·9	58·2	56·8	56·7	56·1	55·8	54·8	54·4	54·1	53·8	54·2
22 *	54·5	54·8	54·8	55·1	54·8	54·6		54·8	54·5	54·8	55·5	56·4	56·8	57·4	57·6	56·8	56·2	55·9	55·8	55·4	55·2	54·9	54·8	54·4	54·4
23	53·5	54·6	55·0	55·0	55·4	55·2		55·0	54·8	54·8	55·6	56·8	57·3	57·5	57·4	56·9	56·9	57·7	58·6	58·1	59·8	57·1	58·9	55·3	56·4
24	54·8	54·3	54·8	55·1	55·5	55·4		55·6	54·8	54·7	55·7	56·1	56·9	58·4	56·7	56·8	56·6	56·0	54·9	54·8	54·3	53·8	54·0	54·4	55·1
25 **	55·2	55·6	55·7	55·9	55·9	55·8		55·4	55·3	55·9	56·4	57·4	59·1	58·6	57·7	56·4	57·4	49·4	48·4	51·6	51·3	55·0	52·9	52·8	53·4
26 **	52·3	55·1	51·1	51·6	52·3	53·0		55·9	56·4	56·3	56·3	56·4	59·1	56·9	57·4	56·8	54·9	53·9	52·2	51·2	49·8	50·0	53·7	52·4	53·5
27 **	52·5	54·1	56·8	56·7	54·9	54·8		55·7	55·9	54·9	55·0	57·2	57·8	57·9	58·5	55·8	57·0	54·8	54·8	43·4	41·4	53·8	53·8	53·3	53·8
28	55·8	58·3	56·3	54·0	54·9	56·2		56·0	55·6	56·0	56·4	58·4	58·2	59·0	55·1	52·3	54·2	57·0	55·7	53·4	51·3	51·9	50·8	52·5	52·5
29	54·4	56·7	55·8	55·2	58·8	55·2		55·8	55·5	55·2	55·4	55·5	56·1	56·5	57·0	56·9	56·7	55·3	54·5	54·1	53·6	54·9	50·9	53·2	53·8
30	57·1	55·5	55·1	56·0	55·3	55·1		55·5	55·8	55·5	55·5	56·2	56·3	56·6	56·2	55·9	55·9	55·8	55·7	54·8	55·6	54·0	54·4	54·8	54·8
31	54·8	54·8	55·1	55·1	56·7	55·8		55·6	55·4	55·9	56·0	57·4	57·4	57·5	58·8	57·4	57·4	56·8	56·3	56·1	55·6	55·2	54·9	54·7	54·8
Mean	53·8	54·5	54·4	54·8	54·9	55·6		55·9	55·9	55·9	56·1	57·1	57·5	58·0	58·1	57·2	57·2	56·6	56·3	55·6	54·9	54·4	53·8	53·4	53·2
Mean *	55·3	55·7	55·8	55·9	55·7	55·5		55·5	55·3	55·6	55·9	56·8	57·6	58·1	57·9	57·3	57·1	56·8	56·5	56·0	55·8	55·5	55·2	55·1	55·2
Mean **	51·0	52·2	50·6	51·3	50·5	54·1		56·7	57·2	56·3	56·3	58·6	58·4	58·6	59·9	57·4	58·0	55·4	54·4	52·8	51·3	53·2	53·1	52·5	52·7

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January	18000 γ + Tabular Quantities (in γ)																								
1	558	560	563	562	565	564	570	575	574	566	554	558	569	567	561	552	562	562	551	552	583	561	555	552	
2	558	562	557	566	571	573	572	575	568	567	565	567	559	557	552	546	552	558	563	559	555	558	563	559	
3	561	559	564	571	572	572	572	572	574	567	551	562	564	566	564	562	568	566	559	568	564	567	568	566	
4	564	566	568	570	574	574	575	575	573	574	576	575	574	574	572	569	564	552	537	517	524	565	552	546	
5	552	552	550	553	560	563	566	568	567	558	561	563	563	561	559	559	563	565	565	564	568	568	566	565	
6	563	563	567	567	573	578	579	582	581	574	562	562	564	563	562	565	565	567	571	571	572	565	564	573	
7	564	563	563	564	573	575	580	581	578	572	571	565	571	572	574	573	572	572	571	572	568	564	571	565	
8	561	563	564	564	572	577	578	576	571	572	568	568	569	572	568	568	568	568	565	565	567	571	569	570	
9	569	568	567	566	568	572	573	570	567	572	574	576	581	579	582	574	578	578	583	578	578	568	548	527	
10 **	528	547	572	562	558	562	558	558	548	542	535	540	522	534	538	550	551	556	558	558	558	562	561	559	
11 *	558	562	561	561	563	564	565	568	564	560	559	559	562	564	564	562	562	563	564	565	562	562	562	564	
12	561	562	566	568	572	574	576	578	574	569	567	567	568	568	562	560	559	563	563	561	562	561	566	568	
13	569	578	564	570	580	587	586	579	574	568	564	565	562	562	567	570	574	574	575	574	574	574	573	574	
14	573	573	574	575	577	577	579	579	577	573	570	568	573	578	578	578	578	578	578	577	574	576	576	578	
15 **	578	576	578	581	577	583	590	568	552	558	538	534	525	556	533	509	499	534	494	521	533	558	545	542	
16	543	569	552	552	550	556	552	558	558	548	544	552	554	558	559	560	563	563	564	560	555	555	555	551	
17 **	548	544	552	553	559	562	564	565	568	560	541	549	559	562	555	559	560	564	562	549	558	556	561	561	
18	562	562	561	562	565	568	569	571	570	566	562	560	558	561	568	570	574	573	568	561	563	572	557	552	
19	554	562	563	569	576	567	569	571	573	576	577	569	563	564	569	564	560	558	558	554	556	564	562	561	
20	564	563	561	563	564	583	587	582	574	563	552	547	550	560	564	564	561	570	567	568	570	568	566	562	
21	567	568	564	563	564	571	571	572	570	564	557	561	563	562	562	558	560	564	567	563	567	565	575	564	
22	563	564	564	564	567	570	573	574	572	566	563	561	559	568	575	574	574	571	570	573	572	574	564	563	
23 *	561	561	563	567	570	572	572	574	570	569	570	568	567	571	572	571	573	574	574	572	568	565	570	568	
24 *	567	564	565	567	568	570	571	573	572	567	568	570	573	574	578	579	579	578	576	575	574	572	571	571	
25 *	571	569	569	568	570	569	568	568	564	557	552	556	563	568	574	575	576	577	577	578	577	577	574	574	
26	571	573	575	577	580	578	579	579	579	578	581	589	594	592	588	582	582	568	552	536	541	555	562	564	
27	564	564	574	574	577	577	576	575	568	562	559	562	570	570	577	577	574	574	574	578	575	577	577	577	
28 **	574	575	576	578	580	583	582	581	573	570	572	575	578	580	582	583	581	573	591	573	547	558	568	560	
29 **	573	547	523	553	552	530	527	538	534	538	530	534	543	551	543	552	538	492	528	531	527	514	529	532	
30	567	548	547	553	564	563	564	564	559	547	542	541	530	534	547	552	538	552	559	560	558	556	559	559	
31 *	558	558	558	562	564	567	568	569	563	555	553	548	549	559	566	567	570	569	568	567	566	560	554	564	
Mean	562	563	563	565	569	570	571	572	568	564	559	560	561	565	565	564	564	564	563	561	562	563	563	561	
Mean *	563	563	563	565	567	568	569	570	567	562	560	560	563	567	571	571	572	572	572	571	569	567	566	568	
Mean **	560	558	560	565	565	564	564	562	555	554	543	546	545	557	550	551	546	544	547	546	545	550	553	551	
February	18000 γ + Tabular Quantities (in γ)																								
1 *	570	563	564	565	567	571	573	574	572	563	558	558	564	573	576	578	575	572	569	572	570	571	569	568	
2	572	568	569	572	578	578	577	584	573	569	561	552	545	541	545	533	551	558	550	553	563	560	560	574	
3	577	560	562	558	568	574	573	572	570	568	562	564	562	559	560	558	564	568	569	572	573	571	567	568	
4	568	567	568	569	568	572	578	577	572	562	554	560	568	576	580	582	581	574	572	570	570	568	569	575	
5 **	578	571	567	571	581	607	595	563	566	537	539	542	548	550	550	556	562	571	571	553	552	566	568	564	
6	586	567	557	562	571	577	582	581	572	547	532	543	565	571	570	568	569	568	561	570	565	569	568	571	
7	565	566	566	568	570	575	576	576	574	560	550	556	558	560	566	566	566	562	560	568	569	568	566	570	
8	565	571	580	569	566	571	575	577	563	551	544	547	544	540	542	560	560	570	572	572	572	567	559	590	
9	576	562	559	562	568	570	560	579	574	558	553	556	540	554	555	561	560	565	561	567	567	563	566	582	
10	569	566	566	570	572	573	576	577	570	549	552	566	566	566	565	566	567	567	566	566	566	568	568	572	
11	586	572	567	573	570	576	579	580	572	560	558	558	560	562	562	559	541	562	570	571	573	572	572	571	
12	570	568	570	567	569	573	573	579	569	555	545	543	547	555	562	565	569	563	571	570	570	570	577	570	
13 *	570	571	570	572	576	577	578	577	571	563	554	557	560	560	565	570	572	573	574	574	573	571	571	574	
14	572	574	575	576	580	585	587	587	580	566	563	567	565	571	580	584	586	585	580	575	566	556	553	566	
15 **	572	597	573	568	562	572	583	580	570	547	552	553	552	579	569	552	553	556	559	542	569	573	560	552	
16 **	554	580	563	557	562	565	567	561	565	560	544	546	555	555	535	543	552	550	561	539	556	559	567	579	
17	565	562	564	569	574	577	576	572	566	564	556	552	556	556	566	570	552	564	561	558	580	562	562	561	
18	570	561	565	564	566	566	575	581	578	570	565	563	562	562	561	559	569	571	572	572	571	569	573	582	
19 *	566	570	569	567	568	570	576	581	576	571	567	567	572	572	570	569	572	574	576	577	575	576	581	576	
20 *	571	566	572	574	577	583	587	592	587	577	575	570	563	569	570	573	563	572	577	579	576	573	571	572	
21 *	572	572	574	575	580	582	589	590	590	582	577	573	572	579	580	577	575	575	575	577	572	569	571	571	
22	574	575	579	576	579	584	590	589	584	576	576	577	572	573	577	576	574	578	577	576	581	578	583	588	
23	577	576	572	576	581	582	586	586	581	576	577	586	586	596	584	572	571	578	583	581	580	582	577	576	
24	573	576	576	580	587	584	591	593	586	573	570	570	572	576	577	575	574	580	575	570	562	574	578	574	
25	592	600	566	572	574	580	586	580	576	561	556	562	566	567	569	565	566	572	574	578	565	573	573	576	
26 **	572	573	576	574	575	581	584	582	576	569	565	565	568	574	580	537	536	532	547	550	572	552	560	570	
27 **	585	569	563	560	566	567	570	572	557	557	562	564	567	560	558	562	565	558	557	586	552	554	565	570	
28	566	566	562	563	565	562	572	570	562	555	554	557	561	566	568	561	554	563	575	567	570	570	572	570	
Mean	573	571	568	569	572	576	579	579	573	562	558	560	561	565	566	564	564	567	568	568	569	568	569	573	
Mean *	570	568	570	571	574	577	581	583	579	571	566	565	566	571	572	573	571	573	574	576	573	572	573	572	
Mean **	572	578	568	566	569	578	580	572	567	554	552	554	558	564	558	550	554	553	559	554	560	561	564	567	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March	18000 γ + Tabular Quantities (in γ)																								
1	571	571	572	571	576	575	580	578	572	565	552	552	561	562	564	566	570	574	575	572	574	573	573	575	
2	574	575	576	576	579	581	583	585	580	568	560	562	562	565	565	564	560	579	582	584	582	583	581	580	
3	585	597	581	574	579	574	581	587	574	557	559	561	554	562	566	567	557	558	558	563	565	571	571	570	
4 *	571	571	573	570	573	574	577	581	579	567	563	564	567	567	571	573	572	575	577	577	574	576	574	590	
5	583	576	569	573	577	578	586	587	581	568	564	563	561	561	573	570	557	534	509	530	538	551	552	565	
6	568	574	563	563	568	574	570	568	569	557	549	542	541	545	555	567	549	551	564	560	572	568	573	576	
7	580	567	565	566	567	571	578	573	561	543	546	548	558	568	577	575	569	562	577	578	581	580	576	577	
8	583	580	576	563	587	584	590	583	566	563	574	557	553	554	565	557	526	566	577	581	581	577	577	576	
9	575	575	573	571	573	575	577	579	576	572	566	560	563	571	571	570	573	562	550	553	557	570	591	572	
10	567	566	570	571	576	578	581	575	569	564	562	567	571	573	577	579	578	581	586	586	587	588	588	581	
11 **	630	553	571	547	566	567	573	567	558	549	528	547	541	540	535	547	541	541	533	556	557	557	557	563	
12 **	571	557	561	551	560	557	564	558	548	541	534	554	568	592	551	541	551	523	529	545	587	518	541	545	
13	540	540	545	549	556	558	557	550	545	540	535	525	536	550	556	557	555	553	557	562	565	565	566	566	
14	564	564	562	565	566	562	566	567	562	550	543	544	552	558	560	559	552	566	567	571	570	573	562	552	
15 **	607	589	521	561	547	560	560	557	569	556	547	548	555	576	565	542	570	540	533	531	540	532	584	556	
16	543	545	560	563	561	544	553	554	546	545	521	529	552	553	546	549	553	549	562	557	562	571	568	576	
17	557	553	561	559	562	567	570	566	567	558	554	560	562	566	566	565	560	562	560	562	565	571	580	586	
18	565	566	566	566	566	570	577	580	575	562	560	559	549	546	561	557	563	559	566	569	580	592	574	586	
19	563	566	567	567	571	575	573	576	570	565	560	556	556	564	566	567	572	578	576	577	580	579	577	575	
20	587	577	561	567	574	580	579	573	567	557	555	547	551	561	566	567	571	566	571	580	547	538	550	552	
21	554	556	555	559	566	573	579	586	580	567	560	565	569	574	578	577	575	579	553	565	571	573	570	572	
22 *	564	562	562	568	575	576	578	576	570	560	559	560	559	560	562	566	571	575	577	580	580	580	580	576	
23 *	573	574	576	576	576	576	578	576	566	556	550	552	555	558	561	565	574	575	579	579	581	581	580	580	
24	579	580	581	582	586	586	581	577	576	556	555	558	563	567	559	573	564	562	576	582	587	582	577	579	
25	580	571	570	572	576	576	578	576	575	567	558	555	556	556	567	580	571	566	580	590	590	590	590	596	
26 **	633	592	552	565	578	584	606	570	526	522	550	571	572	560	523	522	518	560	542	580	555	562	576	612	
27	567	560	557	563	566	576	576	577	575	562	532	543	550	562	565	555	562	567	595	591	573	571	595	590	
28 **	585	586	588	595	601	597	599	587	585	589	586	503	572	511	535	552	556	557	562	562	565	565	562	560	
29	557	561	560	561	569	564	563	561	542	539	520	518	540	562	560	554	566	569	569	567	571	573	562	566	
30 *	565	564	564	570	574	571	572	567	552	540	533	542	552	556	566	566	570	574	575	576	576	574	572	575	
31 *	578	576	576	575	576	578	577	572	561	550	542	546	555	562	570	577	577	575	577	582	582	590	592	581	
Mean	575	569	566	567	572	573	576	573	566	557	551	550	557	560	561	562	561	563	564	569	571	570	573	574	
Mean *	570	567	570	572	575	575	576	574	566	555	549	553	558	561	566	569	573	575	577	579	579	580	580	580	
Mean **	605	575	559	564	570	573	580	568	557	551	549	545	562	556	542	541	547	544	540	555	561	547	564	567	
April	18000 γ + Tabular Quantities (in γ)																								
1 **	577	579	575	571	576	587	572	532	509	490	490	507	509	515	492	495	522	553	560	556	551	552	557	566	
2	562	565	578	556	552	552	562	550	550	541	540	545	530	539	544	555	553	542	569	566	567	566	567	565	
3	564	566	568	567	569	570	572	572	565	552	549	551	559	565	572	571	569	570	572	572	570	572	572	569	
4	570	572	573	575	576	581	581	573	562	551	550	551	557	566	557	552	550	565	576	576	573	573	572	572	
5	574	575	578	580	582	585	585	583	576	570	562	549	550	562	558	560	572	561	543	564	574	532	551	560	
6 **	564	566	569	572	575	573	572	564	555	540	537	546	550	547	562	562	550	580	578	580	582	580	579	597	
7	589	574	575	561	568	563	549	560	565	555	549	541	543	547	552	566	572	574	577	577	577	591	615	571	
8	578	579	565	558	566	573	573	568	554	536	545	542	555	559	553	579	567	584	575	574	575	573	575	576	
9 *	574	571	569	569	566	570	570	567	562	555	549	548	554	558	566	574	575	573	575	580	579	580	579	578	
10	577	576	576	580	578	580	580	573	566	561	556	555	555	550	565	573	580	581	579	581	582	582	581	588	
11 **	587	587	586	590	588	589	585	589	590	568	567	585	541	539	575	539	543	546	545	555	562	568	585	569	
12 **	579	535	551	563	546	566	570	551	539	541	545	550	553	562	565	576	576	568	571	571	610	583	554	576	
13	561	555	557	560	559	571	581	557	547	542	536	534	543	559	562	560	564	571	574	572	580	574	571	580	
14 **	576	568	568	562	566	565	563	554	551	537	547	554	554	554	568	568	570	587	565	568	570	574	573	565	
15	568	577	565	568	564	565	555	568	560	559	547	525	537	544	558	569	569	573	574	574	577	578	568	570	
16	572	569	567	569	569	570	568	557	558	556	554	551	550	560	568	576	581	576	581	574	578	575	575	583	
17 *	579	578	570	574	574	574	578	572	564	559	554	549	553	558	564	571	582	581	580	579	569	579	579	578	
18	579	578	577	579	578	577	578	579	577	562	550	544	549	557	566	573	579	581	583	584	582	577	577	587	
19	577	582	576	577	578	589	594	595	587	582	583	568	557	564	578	578	579	586	592	599	591	578	587	580	
20	583	593	593	583	581	590	589	589	588	576	561	543	540	547	544	562	576	576	579	580	580	576	575	574	
21	581	580	576	576	577	578	577	577	573	567	563	559	560	565	566	571	574	580	583	583	586	587	579	579	
22	570	570	574	574	576	576	574	571	567	563	555	553	557	570	577	574	585	581	577	580	589	578	580	583	
23	583	585	580	584	582	583	580	580	580	575	564	558	569	575	588	596	567	560	574	584	590	585	586	585	
24	584	582	583	584	578	572	568	558	567	569	573	574	583	582	580	582	584	578	587	579	575	578	580	583	
25	581	585	584	575	574	579	579	574	566	569	572	574	578	577	571	575	577	579	577	579	577	575	581	577	
26 *	578	575	574	578	578	579	578	575	572	573	571	577	580	580	584	572	578	580	578	579	580	581	582	584	
27 *	586	582	583	585	576	580	581	579	571	568	567	565	566	569	574	581	581	580	580	584	585	589	585	584	
28 *	581	583	584	585	582	584	580	576	572	565	564	570	575	571	578	583	583	584	584	582	585	587	592	591	
29	591	594	589	586	585	585	589	587	584	579	569	567	566	569	580	566	582	587	594	604	607	599	601	594	
30	591	585	579	581	585	591	589	594	585	588	568	578	581	580	579	584	590	605	569	594	590	591	587	586	
Mean	577	576	575	574	573	577	576	571	565	558	555	554	555	560	565	568	571	575	575	578	580	577	578	578	
Mean *	580	578	576	578	575	577	577	574	568	564	561	562	566	567	573	576	580	580	579	581	582	583	583	583	
Mean **	577	567	570	572	570	576	572	558	549	535	537	548	541	543	552	548	552	567	564	566	575	571	570	575	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	18000 γ + Tabular Quantities (in γ)																								
1	591	591	596	581	571	579	579	576	564	559	556	551	571	571	574	585	588	590	594	592	594	584	583	582	
2 **	584	601	591	589	609	585	575	575	557	554	560	568	574	560	580	587	581	584	586	583	584	582	580	577	
3	582	596	576	576	566	575	577	580	572	559	550	558	566	570	566	581	607	580	585	580	586	589	578	578	
4	579	575	578	580	582	580	576	578	572	579	572	566	561	559	562	575	584	589	586	589	590	586	599	581	
5 *	578	579	577	579	581	583	579	576	570	576	579	580	572	576	580	569	579	588	586	581	581	585	579	579	
6	580	577	574	574	578	580	582	580	578	574	568	568	567	571	583	583	585	581	576	585	583	583	581	583	
7 *	580	579	578	579	580	580	580	579	580	580	578	574	574	579	588	587	588	588	594	595	595	590	580	588	
8 *	591	585	581	584	584	582	578	578	581	582	579	580	583	578	580	583	584	588	590	596	591	590	590	588	
9	586	587	585	584	583	582	579	578	585	588	591	598	604	593	595	605	571	613	602	594	578	600	579	568	
10	568	573	575	575	575	573	574	571	571	568	570	569	584	596	593	594	594	595	594	586	588	618	607	579	
11 **	580	577	577	576	573	581	589	582	573	553	543	540	543	544	549	553	573	567	570	569	580	567	567	569	
12 **	575	583	564	565	564	565	559	555	553	549	553	547	548	552	565	577	583	586	581	571	569	569	563	569	
13	573	575	574	573	571	571	563	563	570	567	569	567	574	571	572	570	582	599	594	585	579	576	581	578	
14	581	573	577	577	578	579	574	570	568	563	557	557	555	562	578	574	586	593	586	586	585	576	577	581	
15 *	577	574	574	575	576	578	573	565	560	560	553	552	557	563	576	578	582	585	584	587	583	584	589	578	
16	580	579	586	585	578	583	578	575	569	564	559	565	572	571	577	587	591	596	587	597	593	587	582	583	
17	580	573	573	579	581	585	588	587	577	568	570	575	574	571	568	580	588	596	603	592	587	588	582	589	
18	606	586	580	586	586	590	593	593	589	581	577	568	563	566	558	579	578	604	609	595	597	598	599	598	
19	579	578	584	589	588	587	583	574	570	568	570	566	570	574	579	577	579	592	597	598	592	591	593	599	
20	583	583	583	584	579	573	573	570	566	559	562	559	564	563	570	580	570	591	596	598	593	593	590	589	
21	587	589	588	588	590	586	577	569	562	560	569	580	587	594	616	589	585	589	588	589	589	589	585	584	
22 *	583	581	583	584	587	584	582	574	563	559	557	568	577	578	587	580	587	589	587	584	585	587	589	587	
23	596	598	598	598	601	589	568	579	576	569	555	563	572	567	569	578	579	583	589	592	597	592	592	588	
24	591	588	592	587	589	594	578	556	547	555	562	568	570	569	574	564	576	579	582	583	581	587	587	589	
25 **	587	587	593	601	591	597	573	566	563	558	550	549	559	573	584	586	591	597	588	599	609	606	592	593	
26	599	592	590	589	592	590	586	574	563	556	554	558	563	569	579	592	588	596	604	597	597	598	593	593	
27	593	586	586	583	578	577	570	563	562	562	564	570	573	572	571	585	613	603	607	613	603	593	592	594	
28	591	588	587	587	583	579	569	561	554	553	551	559	569	581	595	601	605	587	601	603	603	603	599	598	
29	603	603	586	593	593	588	579	572	563	553	561	567	572	583	592	599	599	608	596	591	592	590	591	586	
30 **	594	579	587	585	586	585	583	567	558	555	563	569	569	578	566	578	600	592	592	604	603	599	599	597	
31	587	587	582	581	587	582	573	555	548	556	561	559	572	564	579	584	575	599	594	594	587	586	584	583	
Mean	585	584	582	583	583	582	577	572	567	564	563	565	570	572	578	582	586	591	591	591	589	589	587	585	
Mean *	582	580	579	580	582	581	578	574	571	571	569	571	573	575	582	579	584	588	588	589	587	587	585	584	
Mean **	584	585	582	583	585	583	576	569	561	554	554	555	559	561	569	576	586	585	583	585	589	585	580	581	
June	18000 γ + Tabular Quantities (in γ)																								
1 *	583	583	583	585	586	583	574	569	563	562	565	564	559	569	579	587	590	593	603	603	597	593	589	587	
2 *	585	584	584	588	589	587	579	571	561	552	560	570	575	573	575	584	587	593	594	594	594	593	589	584	
3 *	579	579	578	578	578	589	585	584	577	575	567	562	572	571	571	574	582	584	591	589	588	588	587	587	
4	586	584	583	587	590	590	587	584	579	569	563	566	573	585	584	593	593	593	597	603	599	593	589	588	
5	587	589	585	589	592	590	592	588	582	578	574	576	578	581	584	592	601	607	610	603	607	607	603	606	
6 **	598	599	602	607	613	616	607	586	574	572	539	543	570	577	559	580	568	593	592	592	587	580	583	589	
7 **	602	588	577	566	579	574	566	548	559	554	552	562	561	573	583	590	582	607	606	599	587	591	578	579	
8 **	586	588	596	596	588	567	558	558	566	560	558	554	566	575	583	589	587	586	602	589	595	596	588	597	
9	581	581	575	576	578	572	558	551	555	555	556	556	556	562	563	577	594	591	591	606	588	590	601	588	
10 **	588	577	578	581	583	566	568	568	564	556	544	539	556	558	568	568	575	593	599	593	587	586	598	589	
11	588	584	585	589	586	583	568	557	547	541	539	538	544	556	575	584	596	597	601	600	605	592	588	582	
12	578	577	580	582	585	583	576	566	563	563	559	560	556	562	573	579	588	589	597	594	593	589	588	586	
13	582	581	584	588	586	580	577	574	569	562	555	568	572	572	571	574	583	589	594	588	590	593	590	587	
14	583	583	586	586	589	595	598	599	590	576	562	556	556	559	567	577	583	596	607	613	606	592	589	586	
15	586	583	577	584	588	587	588	583	578	576	572	566	555	566	579	581	585	589	596	598	595	592	587	583	
16	583	582	582	586	588	591	587	588	588	582	581	572	574	575	573	589	596	598	598	592	595	589	586	588	
17	582	588	578	576	584	592	596	598	598	585	573	565	561	564	571	591	562	591	600	502	598	596	595	596	
18	593	588	590	592	594	593	585	578	572	566	568	568	572	578	588	596	592	596	594	596	597	592	592	592	
19	588	581	584	585	585	585	580	571	567	568	570	569	574	578	585	593	593	593	607	610	605	595	587	586	
20	597	588	582	587	591	587	581	578	574	567	556	567	572	575	588	589	587	585	589	593	590	592	589	587	
21	587	583	582	584	584	585	582	578	575	571	577	581	583	581	575	5582	582	585	595	598	596	593	595	590	
22 *	585	584	581	581	586	585	581	579	579	577	577	578	582	587	589	578	581	586	591	592	594	594	594	593	
23	594	595	594	592	594	591	585	584	576	571	577	578	583	583	586	586	587	585	587	594	591	587	590	588	
24	590	589	588	587	586	584	585	586	586	582	579	582	584	578	573	577	581	585	589	595	593	597	596	596	
25	591	580	574	581	584	585	582	580	577	567	562	564	569	575	577	577	580	581	587	592	591	591	591	587	
26	586	591	593	595	591	588	585	585	584	579	575	575	576	578	581	594	597	597	599	603	602	596	596	596	
27	600	597	598	601	605	597	594	595	586	561	570	570	567	562	570	587	587	588	587	590	595	592	591	588	
28	587	586	586	589	591	594	589	588	581	573	571	567	571	575	575	584	573	586	592	595	590	586	587	591	
29 *	588	582	584	589	592	586	584	582	577	569	566	561	557	568	579	581	587	590	593	594	593	591	590	586	
30 **	585	584	584	593	600	600	601	602	596	589	582	574	566	574	591	605	599	564	587	597	600	605	605	598	
Mean	588	585	584	587	589	585	583	579	575	569	565	565	568	572	577	585	586	590	596	597	595	592	591	589	
Mean *	584	582	582	584	587	586	581	577	571	567	567	567	569	574	579	581	585	589	594	594	593	592	590	587	
Mean **	592	587	587	589	593	585	580	572	572	566	555	554	564	571	577	586	582	589	597	594	591	592	590	590	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
July	18000 γ + Tabular Quantities (in γ)																								
1 **	594	585	598	610	613	600	585	555	560	532	519	516	529	565	544	567	590	566	576	583	574	566	560	556
2	565	580	560	569	569	565	564	562	560	556	562	566	564	562	569	585	582	581	582	588	584	579	580	577
3	589	575	570	576	574	578	582	578	569	556	549	556	561	561	566	570	571	574	584	586	584	589	584	586
4 **	584	584	586	596	595	599	589	576	574	570	569	550	551	564	557	596	584	574	591	587	583	588	600	587
5	593	588	577	574	571	580	585	580	563	535	567	571	564	566	570	579	584	581	596	587	586	584	594	596
6 **	598	579	580	582	584	591	590	540	539	529	536	555	541	536	537	560	565	572	580	580	575	570	571	570
7	571	570	570	565	570	570	569	564	556	550	544	546	546	545	562	574	585	589	586	596	597	610	574	577
8	585	585	578	576	579	584	566	559	546	539	537	541	549	569	576	570	596	594	596	600	586	592	580	584
9	582	580	581	579	576	570	564	566	566	566	569	570	568	568	581	586	585	584	591	587	590	590	586	583
10 *	580	579	579	581	580	579	574	570	563	554	550	554	564	584	602	607	599	594	590	591	590	581	582	581
11	586	580	577	581	584	585	581	574	565	558	555	554	562	574	593	603	594	585	589	592	593	594	598	595
12	595	592	594	593	590	589	587	583	573	556	554	546	548	566	579	589	590	591	594	592	594	592	590	588
13	590	591	586	584	586	591	588	584	576	571	569	564	559	564	567	575	577	584	591	591	592	590	593	589
14	586	585	585	589	589	588	589	585	573	559	545	534	546	566	585	593	589	587	594	593	590	592	589	589
15 *	586	587	588	586	587	585	585	581	575	572	563	560	558	559	570	584	589	586	594	593	595	594	590	589
16	588	581	587	587	592	595	593	585	575	569	570	575	574	573	595	587	600	601	606	620	614	595	589	585
17 **	585	590	583	573	580	581	579	572	575	580	581	578	581	583	592	599	605	637	591	602	593	575	575	583
18	583	585	586	586	587	579	578	571	566	558	555	553	550	555	569	581	588	589	586	585	585	582	580	583
19	584	583	584	579	592	592	588	579	571	565	559	557	564	569	574	577	585	589	593	601	606	606	600	586
20 *	583	583	582	582	582	582	580	579	572	558	549	551	553	565	579	586	588	588	588	594	592	593	595	594
21	593	595	592	591	592	588	578	572	564	554	553	561	567	565	574	580	581	587	593	596	595	594	592	594
22 *	594	590	590	589	588	584	583	578	573	570	568	569	572	572	575	583	588	594	594	603	599	589	589	586
23	585	584	584	584	582	581	576	571	566	559	563	565	572	578	593	596	609	608	626	614	621	626	611	601
24	577	581	578	584	584	584	576	565	558	551	545	544	548	560	569	573	583	588	579	580	584	583	579	578
25	578	578	581	579	580	578	570	563	551	540	543	548	559	560	573	583	584	583	588	590	591	593	595	590
26	590	592	590	590	590	588	589	580	574	558	543	553	565	562	570	571	583	585	594	592	594	592	588	587
27 *	585	581	584	585	585	580	577	569	565	565	563	563	565	563	565	563	573	585	595	595	593	593	592	590
28	589	593	601	599	600	604	593	578	569	559	559	565	562	567	586	580	585	594	593	595	599	603	602	598
29	592	587	599	591	592	590	584	575	570	569	573	578	581	584	590	592	584	595	593	599	605	608	603	596
30 **	594	594	578	575	570	584	575	569	558	550	551	558	549	555	570	579	586	585	584	587	589	591	592	582
31	573	559	557	565	569	568	568	561	555	554	556	560	564	565	568	569	571	578	583	583	584	583	579	583
Mean	586	584	583	583	584	584	580	572	565	557	555	557	559	565	574	582	586	588	591	593	592	591	588	586
Mean *	586	584	585	585	584	582	580	575	570	564	559	559	562	569	578	585	587	589	592	595	594	590	590	588
Mean **	591	586	585	587	588	591	584	562	561	552	551	551	550	561	560	580	586	587	584	588	583	578	580	576
August	18000 γ + Tabular Quantities (in γ)																								
1	579	575	575	575	578	576	573	570	569	570	566	562	560	564	570	584	588	591	605	605	595	599	596	596
2 **	600	595	579	573	575	569	565	560	554	553	555	560	572	579	569	573	577	575	590	583	583	593	600	584
3	573	580	579	580	581	577	571	563	558	558	557	563	569	570	577	577	579	583	580	584	588	585	583	583
4	579	583	579	577	577	573	571	563	554	551	551	555	563	569	576	580	582	583	580	581	584	590	595	586
5	577	579	582	580	582	573	575	570	573	562	565	565	567	570	570	591	575	574	585	581	582	581	581	582
6	582	581	587	594	590	579	579	576	572	561	573	578	573	573	575	570	584	589	586	589	588	586	591	585
7	583	584	581	581	583	584	582	573	558	542	536	555	564	570	571	574	581	585	583	591	590	601	585	599
8	585	583	582	582	584	583	579	570	563	567	571	570	567	573	584	597	590	582	578	584	590	594	589	583
9	581	580	580	579	580	578	574	564	558	553	546	546	556	572	582	582	586	590	593	595	594	592	589	588
10 *	585	584	585	585	584	581	576	566	554	541	543	550	564	573	578	584	589	599	601	596	596	597	594	593
11	598	605	589	585	589	589	588	579	570	564	565	570	575	579	583	581	584	594	604	608	610	602	606	593
12	589	589	583	591	589	588	582	573	559	552	556	565	568	570	572	569	584	594	602	601	601	598	593	594
13 **	594	592	590	587	592	591	581	578	552	543	548	548	558	549	554	556	566	581	592	592	590	588	584	586
14 **	587	583	584	582	568	593	579	567	552	538	549	571	571	563	554	549	556	584	589	584	584	583	583	588
15	586	578	577	578	578	574	578	576	561	560	557	572	574	572	572	579	593	581	586	592	594	582	609	590
16	598	564	565	571	573	570	562	553	552	555	559	564	572	577	572	564	568	577	582	589	590	588	590	588
17	580	578	578	580	582	582	583	577	568	561	552	558	559	567	559	572	574	571	589	588	593	585	582	582
18 *	580	579	578	580	579	579	582	579	568	557	548	549	555	572	587	588	588	588	583	586	587	588	584	584
19 *	583	583	584	583	581	578	538	559	557	559	565	568	575	578	578	582	585	589	592	592	594	592	593	589
20 *	585	584	585	584	585	580	576	573	569	572	578	586	588	589	588	589	593	593	594	595	596	595	594	592
21	592	589	587	585	582	579	574	572	569	574	596	588	597	588	584	593	599	588	588	591	591	589	589	588
22	584	584	584	582	575	572	573	570	568	574	578	585	592	592	593	598	585	575	571	544	569	577	586	594
23 **	581	577	586	565	577	576	573	571	560	546	551	562	567	571	572	571	574	577	580	581	583	577	577	578
24 *	577	577	576	573	579	575	568	559	549	551	551	552	558	566	576	579	583	587	585	583	585	585	583	586
25	583	583	585	583	581	577	571	567	566	563	553	560	565	565	567	571	579	583	586	587	588	587	585	586
26	584	586	586	585	586	586	587	580	569	560	559	560	564	568	572	577	587	593	594	599	601	599	595	592
27	595	592	597	586	589	591	587	581	570	560	555	556	562	576	580	597	594	583	594	597	595	601	605	610
28 **	602	603	662	599	546	546	536	526	516	508	511	517	535	552	559	560	567	568	566	571	586	573	573	576
29	586	570	571	572	569	571	567	560	564	552	549	550	555	561	562	566	564	573	573	576	576	574	576	580
30	571	570	571	571	575	573	569	561	552	550	556	565	570	576	578	578	579	573	580	585	588	585	585	585
31	576	573	575	576	575	571	571	567	566	561	562	569	572	572	576	581	588	589	592	585	580	582	594	592
Mean	585	583	584	581	579	578	574	568	560	555	557	562	567	571	574	578	581	584	587	588	589	589	589	588
Mean *	582	581	582	581	582	579	574	567	559	556	557	561	568	576	581	584	588	591	591	590	592	591	590	589
Mean **	593	590	600	581	572	575	567	560	547	538	543	552	561	563	562	562	568	577	583	582	585	583	583	582

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September	18000 γ + Tabular Quantities (in γ)																								
1	579	577	577	578	577	576	575	571	561	554	550	556	565	573	582	590	591	588	597	590	592	590	592	582	
2	582	577	576	586	589	585	582	576	566	571	565	565	566	565	560	563	573	578	585	584	586	587	588	584	
3	582	580	578	579	583	581	573	566	562	561	570	573	581	589	585	586	586	590	590	590	592	590	595	599	
4 **	601	602	595	577	582	579	575	538	537	558	561	541	551	570	563	562	566	566	572	592	586	573	578	577	
5	585	578	572	572	572	565	560	560	559	554	558	571	575	579	579	556	573	580	586	584	585	580	583	584	
6	586	582	576	576	573	569	570	565	562	556	557	561	561	561	577	582	581	581	581	588	590	591	586	582	
7	582	582	580	581	585	587	586	572	566	558	552	553	565	570	582	584	582	582	584	582	582	589	590	586	
8	585	584	585	582	582	577	572	564	557	556	553	557	562	570	578	582	583	585	585	588	592	606	592	594	
9	594	590	590	588	588	584	577	576	573	567	563	565	572	578	572	576	584	590	590	591	590	589	586	592	
10 *	587	586	587	587	587	586	583	577	570	561	562	567	568	576	585	590	588	590	587	588	587	583	583	582	
11	586	585	582	585	587	590	592	587	576	564	565	562	569	572	583	588	598	589	571	567	584	603	574	572	
12 **	578	606	578	577	564	572	575	563	558	559	552	565	564	561	582	588	586	581	580	587	586	587	584	586	
13	580	583	581	582	586	590	587	586	585	569	560	557	562	566	566	578	587	591	575	576	582	586	583	580	
14 *	578	581	582	584	580	583	582	579	575	568	567	567	573	578	580	578	581	584	587	588	586	582	582	582	
15 *	583	582	584	585	586	586	582	576	570	565	567	576	582	586	582	580	580	583	587	589	586	587	588	590	
16	586	585	582	582	586	585	584	585	582	582	585	596	594	590	589	590	586	582	576	579	576	576	586	587	
17 **	601	610	597	600	591	556	571	576	561	502	513	550	562	572	566	550	562	552	553	558	565	588	586	568	
18 **	579	570	573	582	590	576	575	566	537	552	539	525	552	557	566	542	548	532	550	540	557	572	551	553	
19	536	574	563	563	566	565	565	562	553	552	546	551	560	561	561	561	566	571	569	563	565	556	562	563	
20	562	570	570	572	571	582	572	571	560	549	540	557	566	570	575	576	574	579	577	575	581	582	581	581	
21	579	576	576	577	580	580	578	574	567	562	564	566	563	566	561	558	566	571	580	576	586	585	571	581	
22	578	573	572	572	578	578	577	572	561	553	551	550	557	562	572	573	574	578	578	580	581	580	578	577	
23 *	579	582	578	578	581	582	581	569	556	550	550	558	568	573	576	577	580	582	584	586	588	587	586	586	
24 *	587	587	587	590	591	591	589	581	571	560	552	559	571	582	585	586	587	584	588	591	595	599	602	600	
25	596	593	593	598	605	609	605	598	589	581	562	557	567	581	582	577	584	588	583	584	586	586	582	590	
26	578	578	581	582	583	585	585	582	572	557	550	559	568	575	579	580	582	577	586	595	592	592	593	593	
27	591	590	586	576	578	582	583	581	573	567	554	527	525	548	563	569	571	575	583	591	590	589	583	584	
28	587	581	581	586	585	579	587	588	578	565	548	547	547	556	561	572	581	582	584	586	587	587	587	583	
29	581	580	580	582	587	593	598	583	571	563	561	564	573	576	583	586	579	571	575	586	595	592	593	589	
30 **	583	579	587	583	582	593	596	571	561	562	554	537	561	561	570	581	581	583	565	572	573	583	582	581	
Mean	582	583	581	581	583	582	581	574	566	559	556	558	565	571	575	575	579	579	580	582	584	586	584	583	
Mean *	583	584	584	585	585	586	583	576	568	561	560	565	572	579	582	582	583	585	587	588	588	588	588	588	
Mean **	588	593	586	584	582	575	578	563	551	547	544	544	558	564	569	565	569	563	564	570	573	581	576	573	
October	18000 γ + Tabular Quantities (in γ)																								
1	574	582	571	571	577	579	578	568	560	550	545	554	563	567	571	573	571	568	577	574	578	575	578	583	
2	582	581	579	582	586	587	587	579	568	551	550	549	557	572	558	569	578	581	579	581	582	583	583	582	
3 *	581	586	582	581	583	584	582	575	567	560	553	553	552	562	572	576	576	585	586	586	585	587	587	587	
4 *	584	581	583	586	586	589	588	581	571	561	557	561	566	572	578	586	587	591	591	591	592	588	586	584	
5	588	581	579	586	590	591	587	574	566	553	543	550	553	557	561	564	569	567	541	550	563	567	578	580	
6	580	582	582	583	585	586	585	579	569	557	547	544	553	563	571	573	580	582	586	586	580	591	580	583	
7	581	579	581	579	581	581	581	579	573	562	554	554	567	576	582	584	583	586	587	594	605	583	573	567	
8	562	567	563	569	573	577	580	573	571	567	559	559	546	553	551	568	559	580	582	583	582	581	583	582	
9	582	582	579	580	583	591	587	573	574	562	557	560	561	560	562	563	570	580	582	582	581	581	580	580	
10 *	580	578	581	583	583	585	583	576	563	552	548	552	556	568	579	580	584	587	587	586	585	586	586	584	
11 *	583	582	583	583	583	586	586	582	575	564	555	553	559	569	579	587	590	594	595	593	593	592	594	593	
12 **	592	588	591	593	596	596	595	599	601	596	588	553	538	541	539	551	553	542	540	547	573	570	567	568	
13	574	559	560	565	568	567	570	567	539	552	551	550	548	558	560	559	558	566	572	582	576	570	571	570	
14	574	570	571	572	572	576	570	572	571	565	559	556	555	547	557	564	559	571	568	569	567	582	582	570	
15	565	571	572	576	577	576	577	574	566	561	555	554	554	561	565	562	559	559	576	581	582	581	572	574	
16 **	575	572	572	578	579	571	576	581	567	561	559	559	551	540	541	539	540	552	551	570	572	577	577	575	
17	576	572	572	574	576	585	582	572	559	545	529	536	543	547	553	551	546	565	573	566	576	579	579	586	
18	586	572	572	571	576	579	573	575	571	562	554	552	559	555	560	565	570	571	566	556	564	571	575	572	
19	570	576	576	578	579	582	582	577	569	562	561	558	555	562	567	570	566	567	570	577	586	601	570	576	
20	583	566	570	565	570	570	568	566	563	562	564	565	575	575	577	577	578	582	580	582	588	576	570	569	
21	575	576	579	579	580	581	580	576	568	561	562	563	570	576	577	580	572	580	580	583	580	587	586	586	
22	581	582	585	585	586	586	582	578	572	566	566	560	564	561	557	544	545	556	580	582	580	577	572	565	
23	574	572	572	573	574	575	576	575	570	562	560	562	566	575	580	584	584	585	587	586	584	582	581	585	
24 **	587	583	585	601	581	591	581	576	549	547	538	493	513	557	564	550	562	596	557	512	550	549	530	533	
25 **	550	577	556	560	577	561	560	562	545	496	507	510	506	522	540	532	529	530	546	541	552	562	564	563	
26 *	563	562	559	566	566	567	566	562	552	544	536	538	542	551	560	564	567	571	571	572	571	571	570	567	
27	565	565	567	572	574	577	577	574	572	567	556	554	557	565	560	562	556	558	556	547	542	536	536	542	
28 **	492	508	519	528	546	561	554	556	556	556	550	540	550	553	552	550	562	541	567	549	585	546	548	566	
29	571	564	565	560	565	568	569	566	561	556	542	543	548	556	558	566	566	570	571	568	576	581	576	573	
30	566	562	561	563	566	571	571	573	570	563	559	557	553	546	562	566	570	580	573	571	576	580	576	573	
31	576	571	570	567	572	576	576	575	571	567	565	561	566	571	571	576	576	577	575	577	581	586	596	583	
Mean	573	573	572	574	577	579	578	574	566	558	553	550	553	559	563	566	567	572	573	572	577	577	574	574	
Mean *	578	578	578	580	580	582	581	575	566	556	550	551	555	564	574	579	581	586	586	586	585	585	585	583	
Mean **	559	566	565	572	576	576	573	575	564	551	548	531	532	543	547	544	549	552	552	544	566	561	557	561	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November	18000 γ + Tabular Quantities (in γ)																								
1 *	578	573	570	573	575	576	577	581	581	578	573	575	575	575	574	576	577	583	580	582	580	578	580	580	
2 *	576	575	572	575	576	580	578	577	574	570	565	569	570	570	571	572	575	576	579	580	577	582	582	582	
3	582	581	581	580	580	580	580	580	579	573	569	569	569	567	572	579	580	583	581	583	582	582	586	590	
4	592	587	586	583	586	586	586	586	584	580	580	578	578	594	589	585	588	591	597	594	587	575	583	575	
5	588	570	590	579	574	572	577	576	570	562	549	539	542	552	552	564	573	575	577	578	580	581	580	580	
6 *	579	578	579	581	585	586	590	590	582	571	560	556	561	566	570	574	579	585	586	585	583	582	582	582	
7	582	582	581	584	586	590	590	593	588	579	571	571	572	579	581	586	585	587	585	588	587	589	589	588	
8	586	585	587	587	589	592	593	593	586	575	570	576	586	586	592	582	573	542	528	539	556	562	562	565	
9 **	565	562	563	582	571	577	552	561	551	506	490	509	531	543	541	535	522	533	536	556	562	559	560	572	
10	571	564	559	566	572	572	558	571	566	551	545	550	556	560	562	566	568	570	573	573	571	567	576	576	
11 **	572	574	580	596	590	572	572	562	562	546	536	530	532	539	540	547	552	550	548	554	566	575	573	571	
12 **	570	570	573	571	582	580	585	586	577	560	549	562	563	563	562	556	562	571	576	575	582	563	572	572	
13	567	569	570	575	574	566	582	582	574	571	565	553	550	548	551	557	550	559	575	573	572	569	566	581	
14	576	569	567	569	573	579	580	579	571	560	545	539	549	555	555	556	557	554	555	562	572	572	576	576	
15	576	570	568	571	575	579	576	580	582	579	570	561	567	572	577	585	590	578	559	569	580	577	581	575	
16 **	570	570	578	575	576	582	586	582	579	575	573	562	561	556	567	576	569	560	566	566	575	582	620	581	
17	566	560	563	566	568	573	576	576	578	567	566	557	560	572	570	572	572	576	579	580	582	581	581	582	
18	581	580	576	576	576	579	580	581	576	574	572	568	572	577	577	576	578	582	584	583	586	581	580	580	
19	582	583	585	588	587	587	585	586	586	583	583	581	580	576	577	579	582	585	586	582	580	578	580	580	
20	582	581	581	580	577	580	582	584	580	577	576	577	576	580	578	581	582	583	582	583	583	582	582	582	
21	581	580	582	583	586	588	585	585	582	576	580	584	590	592	590	586	584	585	589	588	586	586	583	577	
22	576	576	576	586	586	590	589	588	586	581	576	578	578	576	578	581	586	589	588	586	583	582	582	584	
23	583	583	584	586	587	588	587	585	581	577	572	572	576	579	582	585	577	572	572	577	582	585	584	581	
24 *	581	580	581	585	587	591	590	590	587	582	578	575	575	574	577	578	580	584	585	585	584	581	583	582	
25	586	585	585	588	590	591	590	590	589	586	587	586	588	586	580	578	575	576	578	580	570	577	581	579	
26 *	580	579	581	583	585	586	586	587	585	580	577	579	582	582	585	586	586	588	588	588	587	582	580	578	
27	577	577	580	582	583	587	592	592	594	593	589	585	586	589	589	591	592	594	595	590	595	595	592	591	
28	587	582	584	585	586	591	596	597	599	593	586	586	587	591	593	593	591	593	593	587	585	580	578	582	
29 **	581	579	578	581	586	586	592	594	588	581	582	581	578	570	565	572	580	577	568	562	566	564	570	576	
30	573	576	572	575	580	584	583	581	580	575	570	570	571	576	578	579	581	582	582	580	581	580	580	580	
Mean	578	576	577	580	581	582	583	583	580	572	567	566	569	572	573	574	575	575	576	577	579	578	580	579	
Mean *	579	577	577	579	582	584	584	585	582	576	571	571	573	573	575	577	579	583	584	584	582	581	581	581	
Mean **	572	571	574	581	581	579	577	577	571	554	546	549	553	554	555	557	557	558	559	563	570	569	579	574	
December	18000 γ + Tabular Quantities (in γ)																								
1 *	580	580	580	580	582	586	586	586	586	582	579	580	582	584	585	585	582	584	585	583	585	583	583	586	
2	586	584	584	585	586	587	590	590	592	592	593	594	596	595	590	587	585	586	588	586	586	585	574	577	
3 *	579	582	585	584	585	585	583	584	586	587	586	590	591	588	584	583	581	583	582	583	581	581	579	578	
4 *	576	578	581	583	585	585	584	584	585	582	578	576	580	581	584	587	588	590	590	589	589	589	589	587	
5	587	589	590	590	591	590	588	587	587	586	586	586	587	588	589	589	595	600	602	589	575	574	573	566	
6	577	575	577	585	590	589	589	588	587	581	573	569	564	549	542	547	556	558	557	568	566	570	570	572	
7	582	580	576	575	580	586	586	585	581	585	578	580	577	577	580	578	576	580	580	584	586	580	565	565	
8	562	565	572	580	582	592	601	590	586	580	572	562	562	555	554	569	572	572	569	566	575	582	580	572	
9	575	571	585	579	581	580	582	582	572	570	571	572	570	566	572	549	563	571	578	576	577	575	576	588	
10	581	579	580	580	586	586	586	591	591	589	581	580	580	580	579	579	579	583	586	586	586	583	581	580	
11 *	580	583	580	580	585	588	591	593	586	585	578	572	573	572	572	575	580	580	581	582	580	580	581	580	
12	578	578	580	582	585	590	591	590	590	586	577	573	572	580	581	582	582	586	588	583	582	579	582	579	
13	577	576	580	582	586	592	593	594	596	593	590	588	591	581	589	596	596	580	561	552	536	516	518	496	
14 **	403	499	512	534	593	591	563	501	525	489	477	486	474	486	498	524	540	545	546	544	545	541	541	538	
15	538	536	536	542	550	556	551	562	562	555	552	550	547	559	558	556	550	557	548	552	556	552	541	552	
16	556	555	557	556	557	561	561	562	564	562	560	557	560	566	569	567	567	568	570	575	576	572	562	562	
17	568	572	568	571	576	581	582	586	582	567	566	564	560	547	539	532	544	554	562	560	557	559	564	565	
18	570	564	566	567	568	571	570	570	572	576	576	575	576	570	569	568	562	561	562	565	566	573	571	572	
19	568	570	573	571	571	573	576	576	574	580	576	575	570	570	567	566	563	579	592	588	592	592	588	576	
20 **	537	545	552	552	550	552	560	576	576	579	579	577	580	581	578	576	564	566	562	547	530	529	529	550	
21	536	541	546	566	587	580	578	565	561	566	560	555	555	557	562	568	571	574	574	571	574	571	571	565	
22 *	561	563	565	566	569	571	571	571	571	569	569	571	575	579	580	581	579	582	581	583	581	581	579	572	
23	574	574	576	579	580	579	582	585	586	585	584	585	587	589	587	588	598	585	588	578	565	559	549	565	
24	560	558	564	566	570	575	577	575	576	587	581	574	561	547	561	582	581	581	578	575	576	576	576	575	
25 **	573	573	575	577	579	581	581	584	597	588	582	571	579	591	580	569	516	534	528	552	575	559	575	565	
26 **	557	569	565	561	568	568	564	580	574	558	551	541	541	562	569	564	556	550	558	564	580	568	578	570	
27 **	570	562	564	575	575	570	570	581	575	576	576	565	531	548	570	574	557	562	552	585	562	561	573	580	
28	570	581	571	571	570	581	575	581	570	570	561	554	563	544	528	525	564	565	575	572	569	575	586	558	
29	567	565	565	568	580	578	579	576	574	573	560	562	566	561	564	569	560	571	583	581	579	569	569	571	
30	575	571	571	569	575	581	581	585	581	575	572	571	575	570	572	573	574	574	577	573	575	579	576	575	
31	578	579	579	583	584	586	587	583	589	585	584	578	580	574	569	578	582	584	586	588	588	589	588	581	
Mean	567	568	570	572	578	580	579	579	579	575	571	569	568	568	568	570	570	572	573	574	573	570	570	568	
Mean *	575	577	578	579	581	583	583	584	583	581	578	578	580	581	581	582	582	584	584	584	583	583	582	581	
Mean **	546	550	554	560	573	572	568	564	569	558	553	548	541	554	559	561	547	551	549	558	558	552	559	561	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January	43000 γ + Tabular Quantities (in γ)																								
1	205	206	205	204	205	205	207	206	202	200	198	199	202	207	208	210	210	211	213	214	210	205	202	203	
2	196	195	198	201	202	202	202	205	201	195	191	191	195	203	207	212	215	214	212	211	211	210	207	205	
3	204	205	205	204	205	205	204	205	203	202	201	198	199	206	208	208	208	211	211	211	207	205	204	204	
4	202	202	202	202	206	204	205	205	201	199	200	199	198	202	201	202	202	208	213	219	222	212	205	206	
5	206	205	206	205	208	207	208	208	207	205	204	202	201	204	206	206	207	208	208	208	207	205	205	202	
6	202	203	198	201	203	201	202	203	202	203	203	201	202	203	203	202	202	204	204	205	202	204	203	202	
7	201	201	201	201	200	201	202	202	200	198	199	198	197	201	202	202	201	203	204	203	203	205	202	199	
8	202	201	199	199	201	198	200	202	201	202	201	202	203	206	206	204	205	204	204	207	206	206	203	202	
9	202	201	200	199	201	200	201	203	202	201	201	198	198	199	198	199	198	200	201	201	201	202	203	201	
10 **	193	185	180	187	191	197	198	198	199	204	207	207	207	216	215	217	214	214	214	211	210	209	207	205	
11 *	203	204	203	203	204	203	204	205	204	203	202	198	199	204	204	206	205	207	206	207	205	206	204	203	
12	200	202	202	200	202	202	203	204	204	203	203	202	199	207	209	208	207	207	206	207	209	207	203	203	
13	201	194	198	196	198	195	196	198	199	198	193	192	193	197	203	204	204	203	203	203	201	201	199	201	
14	201	202	202	202	200	200	200	201	199	197	193	193	193	197	199	199	199	201	201	199	199	199	195	198	
15 **	201	200	198	197	197	197	194	197	198	201	202	203	205	215	218	233	250	252	251	246	228	220	212	209	
16	212	202	199	201	204	204	204	205	206	205	209	208	205	209	211	214	212	211	211	209	209	209	201	200	
17 **	197	197	196	194	200	203	204	204	203	203	202	203	203	206	209	212	212	213	212	213	213	210	207	207	
18	204	204	206	206	208	206	207	207	203	202	202	199	197	203	209	208	207	207	208	211	213	211	207	209	
19	208	207	205	203	202	202	205	206	202	200	200	197	197	202	205	206	210	212	212	215	214	213	209	210	
20	208	206	205	205	207	204	200	200	199	200	203	204	205	213	212	211	210	210	209	209	208	208	208	206	
21	203	201	201	203	203	204	205	207	207	207	206	204	203	204	205	205	204	208	209	209	210	212	208	207	
22	207	204	204	203	204	204	206	207	207	206	203	201	202	207	207	203	203	204	205	205	205	207	205	205	
23 *	204	204	204	203	203	203	203	206	205	204	204	202	203	201	200	201	201	203	204	204	204	206	208	207	
24 *	204	203	204	203	205	203	203	204	204	202	203	204	203	206	207	204	202	201	202	202	203	203	203	204	
25 *	202	203	202	202	202	202	203	206	205	204	203	203	202	205	206	204	202	203	203	202	201	203	202	202	
26	202	201	200	200	200	199	198	202	199	295	295	294	194	193	198	199	198	200	206	214	218	214	209	206	
27	204	203	202	198	200	200	201	204	204	202	204	199	200	201	204	205	201	201	201	202	200	200	199	199	
28 **	200	200	200	199	198	198	198	199	198	198	198	195	197	201	202	200	199	200	200	199	208	213	204	198	
29 **	185	184	185	177	158	178	198	199	193	193	197	199	201	208	216	220	223	233	239	231	223	221	217	210	
30	198	199	204	206	205	194	199	202	199	197	200	199	202	209	211	215	216	220	215	213	210	208	207	207	
31 *	206	206	207	207	211	210	209	209	205	203	203	203	204	209	209	210	209	210	208	209	209	209	209	209	
Mean	202	201	201	200	201	201	202	204	202	201	201	200	200	205	206	207	208	209	210	210	209	208	205	204	
Mean *	204	204	204	204	205	204	204	206	205	203	203	202	202	205	205	205	204	205	205	205	204	205	205	205	
Mean **	195	193	192	191	189	195	198	199	198	200	201	201	203	209	212	216	220	222	223	220	216	215	209	206	
February	43000 γ + Tabular Quantities (in γ)																								
1 *	204	204	204	205	206	205	207	207	205	205	205	202	197	201	203	206	206	209	209	209	208	207	205	206	
2	204	203	203	204	207	205	206	206	205	204	202	201	200	205	211	217	216	214	216	219	216	214	210	208	
3	200	199	201	202	205	205	206	207	202	200	200	201	204	205	205	207	209	211	211	210	209	207	203	205	
4	205	205	205	204	204	205	206	207	205	206	204	201	201	204	207	208	205	206	206	205	206	207	205	204	
5 **	201	199	199	200	204	193	185	194	199	203	207	209	207	206	210	215	212	211	209	210	215	213	209	209	
6	199	192	197	200	202	201	204	205	201	202	205	206	204	207	209	212	211	211	211	211	210	210	207	205	
7	204	203	204	203	205	204	206	206	206	201	201	201	198	198	204	207	206	209	209	211	209	209	206	206	
8	205	204	199	191	198	201	203	206	203	202	202	199	200	204	209	213	214	215	210	207	208	209	209	203	
9	190	190	195	199	202	199	202	203	199	198	201	204	201	205	209	216	214	211	209	211	211	209	206	205	
10	200	201	201	201	202	202	205	205	203	199	199	195	195	199	205	208	206	207	207	207	207	207	206	205	
11	200	198	201	201	199	198	200	201	201	201	199	199	199	201	204	211	215	215	210	208	207	205	204	205	
12	206	205	204	200	204	201	203	203	205	202	194	192	196	199	203	209	209	209	209	207	205	206	205	203	
13 *	203	204	204	204	206	205	205	205	204	201	201	200	199	202	205	211	211	209	207	204	203	202	201	202	
14	202	203	204	203	205	204	204	202	201	199	194	194	191	194	197	201	204	205	205	206	209	215	216	214	
15 **	209	193	186	191	199	201	201	201	199	197	193	191	195	204	206	211	214	218	221	223	226	214	207	206	
16 **	200	191	194	199	205	205	206	206	201	197	194	196	197	201	206	219	221	222	226	224	221	217	214	209	
17	204	205	205	205	205	204	204	205	206	206	201	199	200	201	202	211	213	218	215	215	216	211	209	208	
18	202	203	204	205	205	206	207	205	205	205	199	197	198	199	201	211	211	210	208	208	208	208	206	204	
19 *	201	201	199	199	202	204	205	206	207	208	203	198	197	199	203	206	209	209	209	207	207	208	205	209	
20 *	201	200	200	200	203	202	202	204	203	204	199	195	195	195	199	205	206	209	208	208	206	207	206	205	
21 *	202	201	200	200	202	201	201	201	199	199	195	192	190	191	196	203	201	202	202	206	203	205	205	203	
22	200	200	199	199	200	200	200	201	202	200	197	196	195	192	197	201	200	201	202	203	203	205	201	200	
23	197	196	197	198	200	200	200	200	202	201	196	186	183	185	186	192	196	197	200	200	200	200	201	201	
24	201	200	200	201	201	197	197	199	200	199	197	197	197	193	197	201	202	203	202	204	207	207	203	206	
25	198	189	191	195	196	195	197	198	201	204	201	196	191	189	196	203	205	205	203	204	207	204	201	201	
26 **	203	202	201	201	201	197	197	199	199	203	200	200	197	198	203	218	233	226	233	221	218	204	204	202	
27 **	194	193	198	202	206	203	203	202	199	198	197	197	197	201	207	217	216	216	214	210	203	210	207	205	
28	204	203	203	203	207	207	208	207	205	203	201	200	200	200	204	211	213	213	212	208	206	205	203	203	
Mean	201	200	200	201	203	202	203	203	202	202	200	198	197	199	203	209	210	210	210	210	209	208	206	205	
Mean *	202	202	201	202	204	203	204	205	204	203	201	197	196	198	201	206	207	208	207	207	205	206	204	205	
Mean **	201	196	196	199	203	200	198	200	199	200	198	199	199	202	206	216	219	219	221	218	217	212	208	206	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March	43000 γ + Tabular Quantities (in γ)																								
1	203	203	204	203	206	203	205	204	203	198	193	193	193	195	199	206	206	207	205	205	203	204	203	202	
2	201	202	202	202	206	203	202	203	200	196	188	187	187	191	195	204	210	209	206	203	202	201	199	202	
3	200	195	192	192	195	196	199	202	200	196	192	190	190	190	195	206	210	212	213	212	210	207	206	205	
4 *	204	204	205	203	203	203	204	205	204	201	196	186	186	185	190	200	202	205	204	205	206	205	204	202	
5	196	195	196	198	201	201	201	205	206	205	196	189	187	189	196	209	221	231	249	240	231	225	215	207	
6	205	199	201	203	206	205	207	208	209	204	195	188	187	195	205	211	218	224	221	218	212	210	205	204	
7	197	195	199	202	205	204	204	204	205	205	198	188	188	190	197	205	208	207	209	207	205	204	202	203	
8	201	198	198	199	191	191	196	198	200	202	195	188	193	202	205	210	219	220	213	210	208	206	206	205	
9	204	204	204	203	204	204	203	203	204	202	195	192	190	196	202	205	208	208	211	217	215	212	203	194	
10	198	200	201	201	204	203	206	207	204	198	194	189	188	191	193	198	200	201	200	201	200	202	198	200	
11 **	188	175	174	176	180	190	197	198	200	198	200	200	196	202	220	233	228	238	242	228	220	215	214	215	
12 **	211	207	206	205	208	204	203	203	202	199	196	192	194	198	211	245	254	263	254	245	217	199	203	190	
13	199	207	211	212	215	212	211	213	212	209	207	208	210	214	218	219	219	217	215	214	212	211	209	210	
14	209	209	209	208	211	210	209	209	206	201	195	195	195	197	204	210	216	214	211	210	209	213	205	207	
15 **	190	150	139	164	178	190	187	191	190	189	185	190	191	199	201	215	219	225	239	233	221	211	178	176	
16	178	185	196	195	198	201	206	208	207	204	199	202	202	208	222	235	232	241	232	222	220	216	212	197	
17	201	206	203	206	211	211	212	214	209	205	200	196	200	206	210	214	216	218	217	219	216	210	205	200	
18	199	203	205	206	207	206	208	210	206	202	195	193	195	198	205	210	216	218	219	216	214	207	202	200	
19	199	201	201	203	206	206	210	210	207	204	195	191	192	200	205	210	211	211	210	209	209	208	206	207	
20	202	197	200	202	206	206	210	212	208	202	196	193	196	200	203	210	214	214	215	217	212	217	214	211	
21	212	211	210	210	212	210	210	208	202	198	196	192	192	194	200	206	210	214	220	222	215	211	208	209	
22 *	207	208	207	206	207	207	209	212	210	205	199	197	196	198	203	206	206	206	205	208	207	207	206	207	
23 *	206	206	205	203	206	206	208	207	203	197	191	192	190	197	204	209	209	208	206	206	206	207	206	207	
24	205	205	205	204	206	203	205	205	200	191	187	185	189	196	201	210	210	210	212	212	210	210	210	210	
25	203	202	203	205	205	205	206	207	206	198	190	185	183	188	197	206	213	219	213	211	209	207	208	207	
26 **	179	170	180	190	195	185	187	185	185	190	189	191	190	199	212	235	242	238	232	233	219	217	214	190	
27	186	196	200	201	205	208	207	206	201	194	191	191	189	197	203	218	221	217	219	212	206	205	200	189	
28 **	193	199	198	198	197	197	198	193	187	186	176	174	192	199	216	213	213	210	208	208	206	209	208	209	
29	209	211	210	210	213	211	208	206	201	196	190	194	200	208	214	222	223	218	213	211	211	211	206	205	
30 *	203	206	207	208	210	209	212	211	203	197	194	194	197	206	211	217	217	216	210	210	209	208	207	207	
31 *	207	207	208	208	211	208	213	214	208	201	196	194	197	202	207	215	216	214	211	210	208	207	202	201	
Mean	200	199	199	201	203	203	205	205	203	199	194	192	193	198	205	213	216	218	217	215	211	209	205	203	
Mean *	205	206	206	206	207	207	209	210	206	200	195	193	193	198	203	209	210	210	207	208	207	207	205	205	
Mean **	192	180	179	187	192	193	194	194	193	192	189	189	193	199	212	228	231	235	235	229	217	210	203	196	
April	43000 γ + Tabular Quantities (in γ)																								
1 **	201	200	200	203	204	203	200	202	197	193	192	191	197	224	234	240	237	237	227	226	225	212	209	211	
2	210	203	184	195	204	209	213	211	211	201	193	191	194	203	213	220	226	228	231	223	219	216	213	212	
3	212	212	213	213	211	213	217	214	208	205	203	199	199	203	211	213	213	213	213	213	213	212	210	210	
4	208	209	208	210	208	212	214	216	211	201	192	186	190	200	219	222	221	220	217	215	213	210	210	209	
5	209	208	207	209	207	208	209	210	210	207	202	196	199	205	209	212	219	222	225	227	217	210	215	212	
6 **	211	211	210	208	205	209	213	212	213	206	201	197	197	198	207	218	222	236	227	219	215	211	212	204	
7	191	192	194	196	194	198	201	204	203	196	192	184	184	192	199	204	209	211	213	212	213	212	198	190	
8	190	179	179	188	195	203	206	206	204	202	198	194	199	209	217	225	225	225	215	213	211	210	210	209	
9 *	207	205	204	205	204	209	210	209	204	196	192	187	192	198	205	210	213	212	210	209	209	209	209	209	
10	208	208	207	206	205	209	210	208	202	195	189	185	191	199	209	212	213	210	209	209	209	210	210	210	
11 **	208	209	208	209	208	208	207	203	194	181	177	178	185	203	217	228	234	230	228	225	223	218	195	198	
12 **	189	178	184	188	195	197	197	198	200	200	192	186	192	202	209	220	231	228	222	219	216	194	200	199	
13	194	200	207	212	209	204	208	204	200	198	199	198	202	204	212	219	220	221	222	223	220	218	213	212	
14 **	203	201	199	192	202	209	212	210	205	199	196	189	189	200	211	215	222	233	235	230	221	216	201	198	
15	205	200	201	202	206	210	207	202	201	192	187	183	192	197	203	212	215	218	218	218	217	213	212	211	
16	210	209	208	212	211	213	214	212	209	201	193	186	187	192	201	209	216	218	218	214	216	213	211	209	
17 *	202	202	205	208	209	211	212	211	208	201	192	187	190	195	203	206	210	211	213	212	214	211	210	207	
18	207	207	206	207	206	209	210	208	205	200	194	186	186	193	200	202	207	210	211	210	211	211	211	206	
19	203	204	202	206	206	205	202	200	198	191	186	180	182	186	193	200	206	210	210	208	210	213	212	205	
20	202	200	187	190	196	201	202	201	197	192	189	186	193	203	212	216	216	215	212	211	211	210	209	208	
21	207	206	203	206	206	209	211	210	208	204	197	189	188	192	201	206	207	210	210	206	206	207	206	207	
22	206	205	206	206	208	210	212	210	208	205	198	192	187	189	197	200	208	210	214	217	215	210	211	209	
23	206	206	205	206	203	206	206	206	200	193	185	184	188	194	201	205	202	210	213	211	210	210	207	205	
24	200	200	190	192	195	199	198	198	197	192	182	174	182	192	202	203	208	212	219	212	211	209	209	206	
25	204	200	200	198	202	205	203	204	202	197	192	186	186	192	200	206	210	211	207	206	207	206	206	206	
26 *	206	206	206	209	207	209	209	207	200	193	187	185	187	195	208	208	210	210	208	206	207	205	206	205	
27 *	205	205	205	206	206	208	209	208	202	196	190	184	182	186	196	198	205	207	207	206	205	205	204	203	
28 *	203	204	204	207	207	209	209	205	205	199	190	186	184	191	201	202	205	206	207	205	204	201	201	200	
29	202	201	201	201	203	204	206	201	201	192	184	180	178	181	193	199	206	207	205	203	202	199	201	201	
30	204	201	201	205	204	205	204	201	198	190	182	181	181	184	189	196	201	213	215	216	211	207	204	203	
Mean	204	202	201	203	204	207	208	206	203	197	192	187	189	197	206	211	215	217	216	214	213	210	208	206	
Mean *	205	204	205	207	207	209	210	208	204	197	190	186	187	193	203	205	209	209	209	208	208	206	206	205	
Mean **	202	200	200	200	203	205	206	205	202	196	192	188	192	205	216	224	229	233	228	224	220	210	203	202	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	43000 γ + Tabular Quantities (in γ)																								
1	202	190	182	189	198	202	201	202	203	194	181	176	177	186	196	205	207	209	211	214	211	204	203	203	
2 **	201	198	194	187	182	184	191	191	190	188	185	179	182	188	195	202	207	208	209	207	206	205	205	203	
3	204	194	189	196	198	201	203	200	198	193	189	185	188	194	200	204	214	215	213	212	210	204	205	200	
4	201	201	201	206	202	206	205	201	196	190	187	184	186	191	198	202	205	209	208	208	208	205	204	199	
5 *	201	201	202	205	204	207	209	209	206	199	194	189	194	202	210	209	211	209	209	207	206	206	205	204	
6	205	204	203	205	206	209	207	206	209	206	201	193	192	195	204	209	217	221	219	213	209	205	206	206	
7 *	205	204	203	206	206	207	205	202	198	195	191	190	192	192	197	199	201	203	205	206	206	206	206	204	
8 *	200	197	197	198	196	199	197	195	190	186	185	182	182	185	187	192	197	200	203	204	204	204	203	203	
9	203	203	202	202	203	202	201	197	190	183	178	178	178	183	188	196	200	207	209	216	214	211	201	201	
10	203	203	202	201	203	203	201	201	201	199	192	187	188	194	198	203	208	212	221	225	222	213	198	196	
11 **	201	202	203	208	207	206	196	193	192	183	180	180	189	201	215	225	238	238	231	228	221	214	211	210	
12 **	209	204	197	197	195	197	198	198	198	200	198	196	201	207	213	219	225	227	231	229	225	219	213	212	
13	210	209	208	207	208	208	207	207	205	201	197	191	188	193	203	207	217	224	226	222	217	213	211	211	
14	203	205	206	208	206	206	207	203	202	193	183	178	178	189	205	213	226	228	223	218	216	211	211	206	
15 *	202	205	207	211	211	212	213	211	207	197	185	183	187	195	203	210	216	217	216	212	211	210	208	206	
16	207	205	205	203	208	210	211	210	206	197	191	187	191	193	200	203	208	213	211	212	211	209	210	208	
17	203	203	205	206	207	204	204	206	203	193	186	186	188	195	202	209	214	220	224	220	216	212	211	209	
18	201	198	200	204	207	206	203	198	197	196	193	187	194	197	201	209	217	223	217	213	211	208	208	200	
19	201	204	206	207	208	211	210	207	204	200	194	184	187	192	201	206	213	218	222	221	218	213	209	204	
20	198	203	203	204	205	205	204	203	201	196	193	191	186	186	195	203	213	217	217	214	210	207	207	207	
21	207	206	204	207	207	208	207	207	204	201	193	187	186	191	205	210	217	219	218	213	210	208	208	207	
22 *	207	207	207	211	211	211	207	207	206	202	196	186	182	191	201	203	211	214	213	211	210	207	207	207	
23	205	203	203	206	207	208	210	206	201	190	175	170	170	174	186	196	203	211	214	211	210	207	207	205	
24	206	204	200	203	204	199	202	204	203	201	197	188	191	199	207	208	213	216	216	213	211	208	208	208	
25 **	207	207	207	203	197	204	204	208	204	198	192	191	193	199	205	211	216	217	218	217	217	211	209	208	
26	207	207	207	211	212	212	213	210	206	200	196	191	193	201	207	207	210	210	211	208	209	208	207	208	
27	209	208	207	208	210	212	212	212	210	203	200	193	192	195	201	208	213	213	211	207	203	205	207	207	
28	206	206	205	208	207	209	208	204	200	193	187	184	183	186	194	198	207	209	211	210	208	207	206	205	
29	207	197	200	207	208	209	207	211	207	202	197	191	194	199	204	211	218	222	222	215	210	207	207	205	
30 **	202	202	203	206	209	213	211	207	202	189	181	178	177	184	193	198	206	213	216	217	213	211	203	200	
31	193	194	202	207	208	211	213	212	208	202	197	191	192	194	202	207	209	214	211	208	207	203	204	203	
Mean	204	202	202	204	205	206	205	204	202	196	190	186	187	193	201	206	212	215	216	214	212	208	207	205	
Mean *	203	203	203	206	206	207	206	205	201	196	190	186	187	193	200	203	207	209	209	208	207	207	206	205	
Mean **	204	203	201	200	198	201	200	199	197	192	187	185	188	196	204	211	218	221	221	220	216	212	208	207	
June	43000 γ + Tabular Quantities (in γ)																								
1 *	203	203	203	207	207	208	205	198	197	191	189	181	180	189	193	197	203	208	212	211	208	206	203	203	
2 *	202	203	203	206	207	210	206	202	198	192	188	184	183	189	196	201	204	206	212	208	208	206	203	203	
3 *	204	204	204	202	202	204	204	208	207	202	196	193	190	192	197	199	204	208	210	209	207	204	207	205	
4	204	203	203	207	204	208	206	206	210	204	195	182	185	193	198	202	207	205	204	207	207	205	206	204	
5	202	202	202	206	205	208	207	206	199	193	188	185	189	191	194	198	205	208	208	208	208	204	204	203	
6 **	203	203	202	203	201	202	199	195	197	193	188	184	188	195	208	218	224	230	230	223	220	214	213	209	
7 **	196	193	194	200	199	200	198	201	201	198	195	187	186	193	198	203	212	214	217	221	216	211	208	208	
8 **	206	198	189	186	182	186	188	194	194	188	184	184	189	193	203	212	215	214	214	212	213	208	205	200	
9	198	199	202	204	203	204	202	199	199	192	187	185	190	196	205	212	217	216	217	217	213	208	202	197	
10 **	197	194	194	192	185	191	197	200	202	197	190	186	189	194	204	207	213	218	222	221	216	210	204	201	
11	204	197	194	201	199	203	204	203	198	193	192	191	192	194	201	206	210	214	217	221	214	208	205	204	
12	204	204	207	209	208	207	207	208	206	195	184	180	184	190	197	201	204	207	211	209	209	206	204	202	
13	202	202	203	206	206	208	204	202	203	197	191	182	183	188	197	203	210	214	217	214	213	208	207	204	
14	203	205	204	206	206	207	208	209	210	206	199	190	191	196	201	204	209	212	214	215	212	209	208	207	
15	206	205	205	210	207	209	207	210	208	204	195	187	181	185	192	197	204	209	210	212	210	207	207	205	
16	205	203	201	205	206	207	206	203	200	192	186	181	185	186	191	198	205	210	213	214	211	209	207	205	
17	204	199	199	201	203	200	201	199	201	199	190	183	185	191	199	205	205	209	209	209	206	205	205	205	
18	203	202	203	205	205	207	207	205	205	203	194	196	203	202	203	203	205	208	208	208	209	205	205	204	
19	203	203	203	205	208	210	208	201	198	191	190	188	190	194	197	198	199	203	205	207	208	208	207	205	
20	199	198	199	203	201	204	201	200	199	194	194	193	194	197	204	205	206	208	208	209	209	208	207	206	
21	204	204	204	206	205	207	206	201	199	196	188	184	285	192	200	205	210	212	210	209	207	205	205	203	
22 *	203	203	202	206	206	206	204	204	202	197	185	180	186	191	198	202	199	205	206	206	206	205	203	201	
23	202	202	201	205	205	204	203	198	195	194	191	186	188	194	200	206	208	208	207	204	202	202	204	204	
24	204	204	204	204	204	205	202	198	199	194	192	187	189	194	202	203	208	210	209	208	205	204	203	204	
25	200	200	200	199	197	200	200	197	194	191	193	190	189	192	197	201	207	206	204	204	204	202	202	202	
26	204	204	204	206	205	206	202	201	201	199	191	185	188	195	200	204	207	207	206	205	204	200	200	200	
27	200	201	201	199	195	196	195	192	191	191	192	197	196	197	207	211	219	220	219	215	213	209	206	205	
28	204	205	205	205	206	207	206	200	200	196	188	185	188	194	201	209	214	216	215	210	204	201	201	200	
29 *	199	200	201	204	199	201	201	200	196	194	188	180	181	188	194	200	204	206	205	203	204	201	200	199	
30 **	200	200	201	203	202	202	200	199	200	199	191	186	188	189	196	205	210	216	220	217	211	206	204	200	
Mean	202	201	201	203	202	204	203	201	200	196	190	186	188	192	199	204	208	211	212	211	209	206	205	203	
Mean *	202	203	203	205	204	206	204	202	200	195	189	184	184	190	196	200	203	207	209	207	207	204	203	202	
Mean **	200	198	196	197	194	196	196	198	199	195	190	185	188	193	202	209	215	218	221	219	215	210	207	204	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
July	43000 γ + Tabular Quantities (in γ)																								
1 **	197	200	187	170	159	156	163	172	182	177	182	189	198	212	211	215	225	236	242	235	227	218	211	212	
2	203	191	195	205	206	208	207	204	201	199	192	187	189	197	203	206	212	215	216	214	212	209	208	207	
3	199	195	198	205	204	204	202	201	198	197	193	186	183	191	201	199	202	207	210	208	209	209	207	206	
4 **	206	205	203	205	204	206	202	203	198	193	189	182	189	200	206	213	209	209	212	212	212	212	208	202	
5	194	192	192	197	198	195	194	194	194	195	202	198	193	190	197	204	208	212	214	212	211	208	208	204	
6 **	194	197	201	203	204	202	187	178	183	189	202	213	209	209	217	227	232	232	224	219	216	215	215	214	
7	212	211	210	211	210	212	214	210	207	202	199	199	198	201	207	205	212	218	219	216	215	207	203	207	
8	204	199	202	201	191	190	194	198	194	193	194	192	193	201	211	214	223	222	218	216	212	212	209	208	
9	203	204	205	209	209	209	204	202	198	191	189	192	195	201	209	212	217	219	217	212	211	208	207	207	
10 *	207	208	208	210	209	209	207	204	205	206	198	191	188	190	199	207	212	218	217	211	209	208	207	207	
11	204	203	205	209	209	210	208	208	206	204	195	184	189	195	200	203	208	214	212	210	208	207	206	204	
12	204	205	205	208	208	207	202	202	201	196	192	184	185	192	204	206	211	217	218	212	211	208	207	205	
13	204	204	205	208	209	212	209	206	204	199	196	194	194	195	202	204	209	213	211	209	210	208	206	204	
14	202	203	204	208	208	208	208	205	202	198	193	182	179	184	193	201	205	208	209	208	208	207	207	205	
15 *	204	204	205	208	208	211	208	208	202	201	194	196	193	192	194	199	201	208	208	208	206	204	204	204	
16	204	202	202	202	208	208	208	205	203	202	198	183	179	184	198	201	205	208	209	208	208	211	212	209	
17 **	205	205	204	207	213	211	213	212	206	200	195	192	191	197	199	206	209	218	222	228	231	222	218	215	
18	209	206	205	204	212	213	214	210	206	207	204	199	196	201	209	214	220	221	222	221	220	218	214	212	
19	209	209	205	203	207	204	205	205	204	203	200	195	193	194	198	205	208	211	213	214	214	212	207	206	
20 *	204	206	206	207	211	211	210	204	201	199	194	187	180	182	197	204	208	209	210	211	204	204	206	206	
21	206	203	201	202	207	207	207	206	202	201	187	181	183	189	198	207	209	213	214	211	206	206	207	207	
22 *	207	206	206	206	206	207	206	204	196	189	176	174	174	180	186	197	201	203	203	207	206	206	204	206	
23	207	207	207	207	209	207	206	205	202	199	191	191	192	194	203	206	209	205	207	203	203	202	199	198	
24	201	203	203	203	204	202	200	201	198	197	194	187	190	191	198	207	211	212	216	216	211	207	205	207	
25	206	205	203	201	206	207	207	202	198	196	187	183	186	191	199	208	210	212	212	211	210	208	205	205	
26	204	206	206	207	211	210	209	207	207	203	197	191	194	198	207	213	217	218	217	213	211	208	207	207	
27 *	203	206	207	207	211	211	216	212	208	201	193	189	189	194	200	206	210	212	213	209	207	207	206	204	
28	204	205	205	204	207	207	207	204	194	198	196	195	186	184	193	200	205	207	207	207	205	205	203	202	
29	203	203	197	200	202	203	204	202	197	190	184	187	193	191	197	206	211	215	211	210	208	208	207	201	
30 **	198	191	183	187	187	183	193	201	197	197	197	191	191	197	203	211	215	218	216	213	211	212	211	207	
31	201	198	198	204	208	211	213	213	213	212	206	196	193	198	204	207	210	211	212	211	210	209	209	208	
Mean	203	203	202	203	205	205	204	203	200	198	194	190	190	194	201	207	211	214	215	213	211	209	208	206	
Mean *	205	206	206	208	209	210	209	206	202	199	191	187	185	188	195	203	206	210	210	209	206	206	205	205	
Mean **	200	200	196	194	193	192	192	193	193	191	193	193	196	203	207	214	218	223	223	221	219	216	213	210	
August	43000 γ + Tabular Quantities (in γ)																								
1	206	204	206	207	209	210	211	209	206	203	197	189	188	194	195	197	201	207	211	211	211	207	206	203	
2 **	200	179	171	166	172	181	189	189	187	191	191	185	184	189	196	206	212	216	223	219	214	210	203	200	
3	202	204	203	201	203	202	206	207	201	194	186	181	183	192	201	207	207	208	209	209	210	208	207	207	
4	207	206	203	203	206	205	204	205	201	198	195	191	189	193	201	208	212	214	212	211	209	210	209	207	
5	206	208	208	207	209	208	207	206	198	197	189	186	187	195	203	212	215	222	217	212	211	208	209	210	
6	211	211	208	203	198	196	201	207	201	197	197	187	181	189	202	213	217	217	213	211	210	209	207	205	
7	203	204	205	206	208	207	207	207	206	205	198	189	186	191	201	211	217	221	218	213	208	206	202	206	
8	199	202	203	204	208	207	209	209	201	193	190	187	183	188	195	207	214	221	221	216	213	211	205	207	
9	206	207	207	206	211	209	214	213	207	201	198	196	197	201	209	216	217	218	218	213	210	208	206	207	
10 *	205	206	207	207	210	211	209	207	201	185	178	179	178	181	191	203	206	209	209	208	207	206	203	204	
11	203	197	197	201	208	206	204	205	201	196	186	183	186	191	197	211	213	213	211	208	207	206	206	201	
12	203	203	203	202	205	207	210	208	203	200	193	183	183	191	197	205	211	214	213	211	209	208	205	204	
13 **	206	204	206	208	213	213	213	210	203	201	198	200	203	209	215	218	224	226	223	216	213	213	210	206	
14 **	202	201	202	203	208	205	205	203	198	195	192	187	190	200	204	214	219	228	232	226	215	212	211	210	
15	207	203	205	208	212	212	213	212	204	199	197	198	198	203	209	214	219	222	218	215	214	214	209	201	
16	194	193	201	204	211	210	209	211	208	202	195	189	189	194	198	202	206	212	212	213	212	210	209	207	
17	205	207	208	208	208	208	211	209	206	201	193	189	187	192	195	204	212	215	217	214	213	210	209	209	
18 *	208	208	207	207	208	209	211	208	204	202	196	190	186	192	198	202	207	211	214	213	212	211	209	209	
19 *	209	208	208	209	209	210	212	210	206	202	196	191	194	199	201	205	208	208	205	206	205	206	204	205	
20 *	205	208	207	206	207	204	205	204	203	200	193	186	186	194	201	205	206	205	204	203	203	204	204	204	
21	204	203	204	203	205	202	203	205	201	191	189	180	184	193	196	201	204	205	208	206	207	208	206	206	
22	204	205	206	205	207	205	204	203	200	193	185	178	178	186	195	203	209	219	233	236	229	223	217	211	
23 **	209	208	195	197	196	201	204	205	203	201	201	197	199	208	214	220	220	218	213	210	209	211	211	211	
24 *	209	209	210	210	211	210	210	210	206	199	189	185	191	200	209	212	214	212	211	208	208	208	208	209	
25	207	209	209	209	210	209	207	210	206	200	189	185	191	202	210	216	216	215	212	211	210	209	209	209	
26	207	209	208	209	210	210	210	209	204	199	189	182	184	192	201	208	211	212	210	206	206	205	204	205	
27	206	204	204	205	209	206	208	207	203	199	196	189	185	190	196	204	210	210	211	212	212	209	206	204	
28 **	203	203	177	132	162	191	202	206	205	201	195	194	199	206	213	221	227	225	224	220	220	214	211	211	
29	206	205	209	207	211	212	214	214	210	205	200	191	191	200	206	211	214	216	214	213	213	214	210	210	
30	207	209	209	210	212	211	212	211	205	199	191	196	204	204	204	208	209	209	210	210	210	210	210	210	
31	207	208	207	206	210	209	210	209	206	204	201	200	199	202	208	213	212	210	210	211	213	214	213	206	
Mean	205	204	203	202	205	206	208	207	203	199	193	188	189	196	202	209	213	215	215	213	211	210	208	207	
Mean *	207	208	208	208	209	209	209	208	204	198	190	186	187	193	200	205	208	209	209	208	207	207	206	206	
Mean **	204	199	190	181	190	198	203	203	199	198	195	193	195	202	208	216	220	223	223	218	214	212	209	208	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September											43000 γ + Tabular Quantities (in γ)														
1	206	206	207	207	210	210	209	207	201	196	194	193	194	196	200	206	206	207	206	207	209	210	210	212	
2	210	207	207	206	205	205	209	208	204	206	200	197	199	206	209	210	208	210	212	211	211	211	212	210	
3	208	206	206	206	206	207	210	211	206	203	197	195	195	200	201	204	205	205	205	206	206	208	208	207	
4 **	206	200	194	198	204	203	203	203	203	199	196	195	202	206	205	211	213	217	219	215	214	212	210	210	
5	207	204	205	207	210	209	210	206	203	197	195	194	196	205	211	218	223	220	218	214	214	214	213	210	
6	210	209	210	209	213	211	210	208	205	203	202	204	205	209	213	216	216	216	216	214	213	212	210	209	
7	210	210	210	209	211	210	210	207	204	200	196	199	200	203	210	213	216	215	214	213	212	211	208	208	
8	207	207	209	209	211	211	210	209	205	200	194	194	196	201	209	214	213	213	211	211	210	208	206	206	
9	206	206	206	206	206	207	209	209	201	191	182	184	192	198	202	206	208	209	209	209	206	206	206	205	
10 *	204	206	207	207	209	206	207	206	200	193	185	181	184	189	195	201	204	208	210	209	207	209	206	205	
11	205	205	206	205	207	206	209	207	204	201	192	193	194	196	198	201	206	211	221	224	219	205	199	204	
12 **	206	194	183	193	199	203	204	205	201	199	196	197	196	204	209	210	211	214	214	214	212	211	209	206	
13	206	207	207	206	208	208	209	209	205	200	196	190	192	195	198	203	207	214	219	221	216	213	210	209	
14 *	208	206	204	203	205	206	208	209	206	204	202	196	196	198	199	200	203	206	210	210	211	211	210	210	
15 *	208	206	206	204	206	206	208	209	204	200	196	194	196	201	204	206	208	206	209	209	209	209	208	206	
16	205	205	205	205	205	206	206	206	205	206	200	192	190	190	186	194	201	207	210	214	213	214	210	210	
17 **	210	184	182	180	179	180	189	196	198	199	201	201	200	218	231	238	253	249	239	230	229	218	201	202	
18 **	199	202	200	192	200	200	206	206	209	210	208	210	215	220	231	256	290	287	255	243	236	216	196	194	
19	194	184	200	210	214	216	223	224	200	219	216	215	217	220	224	225	225	223	223	224	222	223	220	219	
20	218	216	215	214	214	210	215	216	212	210	206	204	207	214	217	219	215	214	214	214	214	214	213	215	
21	213	212	212	212	212	210	212	212	207	203	200	199	197	204	214	222	221	222	221	220	218	214	214	215	
22	211	211	211	211	213	212	214	214	210	207	204	204	203	207	209	211	214	212	214	216	214	213	214	214	
23 *	213	211	210	211	211	211	214	212	205	202	198	195	198	200	205	211	213	213	212	212	210	209	205	206	
24 *	209	210	210	209	211	209	211	211	208	205	195	186	183	194	201	208	209	209	211	210	209	208	203	200	
25	203	204	205	205	208	206	209	208	202	194	188	183	187	196	201	205	210	212	214	215	212	210	209	209	
26	206	207	208	207	208	209	213	214	212	207	201	194	194	198	201	206	211	214	215	212	212	210	208	207	
27	206	206	206	207	206	207	209	209	206	199	193	194	198	198	199	204	209	211	213	213	212	212	208	207	
28	206	203	203	201	200	203	208	208	205	203	200	196	197	197	199	207	210	210	212	213	213	212	210	208	
29	208	208	208	208	209	208	212	213	209	204	198	195	196	198	202	208	212	215	219	218	214	212	210	208	
30 **	208	208	204	201	204	207	209	211	210	207	201	194	199	206	213	217	217	218	219	224	225	222	215	211	
Mean	207	205	205	205	207	207	209	209	205	202	198	196	197	202	207	212	215	216	216	216	214	212	209	208	
Mean *	208	208	207	207	208	208	210	209	205	201	195	190	191	196	201	205	207	208	210	210	209	209	206	205	
Mean **	206	198	193	193	197	199	202	204	204	203	200	199	202	211	218	226	237	237	229	225	223	216	206	205	
October											43000 γ + Tabular Quantities (in γ)														
1	212	208	208	211	213	212	216	218	217	211	209	207	208	211	213	217	216	214	217	217	217	214	213	213	
2	210	210	211	208	209	208	212	211	210	208	204	201	199	205	210	217	214	214	214	213	212	212	212	211	
3 *	211	208	208	208	209	209	212	214	213	209	206	203	203	207	210	214	215	214	212	210	210	210	210	212	
4 *	210	210	209	208	210	206	211	215	216	212	208	204	203	207	211	213	210	208	208	208	208	209	209	210	
5	209	208	209	209	208	207	210	213	212	205	203	204	207	211	215	221	224	228	233	237	233	232	226	222	
6	219	217	216	215	215	214	214	214	209	202	193	188	193	199	209	215	217	212	213	213	213	213	212	213	
7	211	212	212	212	212	212	212	214	211	201	195	193	199	204	209	213	217	213	212	212	212	209	195	203	
8	210	214	215	216	215	215	213	215	211	205	203	201	202	208	218	228	224	222	219	215	214	213	212	210	
9	214	212	213	214	215	215	211	215	212	207	201	199	198	201	208	214	219	219	216	215	214	213	213	213	
10 *	213	212	212	212	212	214	214	219	217	210	202	200	200	203	209	212	214	214	215	214	214	213	212	211	
11 *	213	212	213	213	213	215	215	217	215	206	197	196	201	205	210	214	215	215	215	215	214	213	213	211	
12 **	212	210	211	210	210	212	211	212	206	195	184	190	198	211	238	229	230	236	241	235	225	217	216	205	
13	197	205	208	210	212	215	214	215	211	207	202	203	207	211	215	221	223	222	221	221	217	216	213	207	
14	205	207	210	211	212	213	213	216	216	208	203	200	200	201	210	214	221	225	222	221	221	219	210	206	
15	208	211	211	211	211	215	216	217	217	212	204	201	203	208	215	220	223	223	222	221	220	218	217	217	
16 **	215	214	213	213	211	212	212	213	211	207	205	207	208	216	226	233	235	235	235	231	225	222	220	216	
17	216	215	215	214	214	216	216	219	217	210	208	207	211	215	220	225	231	228	226	225	225	220	217	215	
18	207	205	208	209	210	211	211	216	211	208	208	213	217	220	225	225	222	221	223	225	226	226	222	221	
19	220	217	217	216	215	217	216	218	215	206	205	207	211	216	221	224	225	225	226	226	225	211	207	205	
20	197	197	206	210	212	215	215	217	215	204	201	202	209	211	215	218	217	216	215	215	217	215	217	218	
21	219	218	218	217	217	215	213	213	215	210	207	206	209	213	217	220	217	215	216	215	215	217	209	211	
22	212	213	214	214	214	214	210	211	210	201	194	191	194	201	212	220	226	230	227	221	220	217	219	220	
23	219	218	216	216	216	217	214	215	212	209	202	203	205	209	215	218	219	220	219	217	215	214	214	214	
24 **	213	212	214	205	203	205	207	209	206	195	191	197	205	215	217	220	223	224	226	250	238	224	217	207	
25 **	185	170	169	173	184	196	204	210	210	207	201	200	206	220	241	253	256	263	246	244	244	236	229	224	
26 *	222	222	221	220	219	223	221	222	220	217	211	210	213	215	223	224	223	223	224	224	222	220	217	216	
27	217	218	217	218	218	219	219	223	224	216	211	208	210	214	219	225	226	225	228	233	235	232	223	189	
28 **	189	173	197	206	210	213	215	217	219	215	209	205	215	220	223	225	229	229	235	234	232	223	226	224	
29	220	220	220	218	219	221	219	220	219	214	208	213	217	219	223	223	224	225	223	225	226	221	218	218	
30	218	217	218	218	218	220	217	218	216	212	206	209	215	222	228	227	225	226	225	223	223	223	222	219	
31	219	218	216	218	217	219	218	219	215	209	203	210	216	214	219	219	219	219	220	220	219	219	215	214	
Mean	211	210	211	211	212	213	214	216	214	208	203	203	206	211	218	221	223	223	222	222	221	218	215	213	
Mean *	214	213	213	212	213	214	215	217	216	211	205	203	204	207	213	215	215	215	215	214	214	213	212	212	
Mean **	203	196	201	201	204	208	210	212	210	204	198	200	206	216	229	232	235	237	237	239	233	224	222	215	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November	43000 γ + Tabular Quantities (in γ)																								
1 *	218	217	217	217	216	218	215	218	216	210	207	208	209	213	215	215	216	218	217	215	216	216	218	218	
2 *	218	216	216	215	215	216	214	215	215	212	205	205	210	215	218	217	218	218	218	219	217	217	216	215	
3	217	217	216	215	214	215	214	213	213	209	206	207	209	213	215	218	218	218	214	215	214	215	215	212	
4	213	211	211	211	212	210	209	209	211	205	200	202	206	211	212	212	212	212	213	212	214	216	219	215	
5	212	214	208	206	208	213	213	214	215	213	210	215	215	218	223	224	223	222	220	219	219	217	216	215	
6 *	214	215	215	215	214	215	213	214	214	212	208	207	208	212	218	219	219	219	218	216	215	214	214	213	
7	213	213	213	213	213	215	213	214	213	209	203	205	209	213	217	217	216	216	216	215	215	213	212	210	
8	209	211	211	212	211	213	210	211	209	205	202	199	199	201	208	210	216	223	236	243	231	218	215	212	
9 **	213	212	206	198	205	209	206	204	205	208	215	225	228	231	235	238	245	244	244	239	229	224	223	213	
10	205	209	210	209	209	214	215	217	218	213	210	211	217	223	226	226	226	225	223	222	221	221	219	215	
11 **	215	217	216	209	205	207	209	210	215	217	215	219	225	230	233	238	234	230	230	229	225	220	219	215	
12 **	215	210	204	208	211	209	203	208	210	209	212	215	212	213	219	220	225	225	223	224	221	220	219	216	
13	215	212	212	213	214	215	213	213	217	218	214	213	216	219	223	225	228	230	229	228	224	225	222	219	
14	213	213	214	215	215	218	215	217	218	214	208	206	209	213	218	219	224	226	229	230	229	225	223	220	
15	220	216	216	216	216	218	215	217	217	215	211	212	212	213	215	210	213	216	223	227	226	226	224	223	
16 **	223	220	217	216	215	216	214	212	213	213	207	208	212	215	221	220	220	225	229	227	226	224	215	200	
17	207	209	211	214	215	217	214	214	215	211	211	213	221	221	222	221	220	219	217	216	216	216	215	215	
18	216	216	216	216	215	214	213	211	215	213	212	214	216	219	220	220	220	217	217	216	215	214	215	214	
19	216	216	216	216	215	215	212	210	210	209	209	210	211	215	217	217	217	217	215	216	216	216	216	215	
20	215	216	216	215	216	216	213	211	211	210	209	211	212	216	220	219	220	219	217	216	215	214	214	214	
21	216	214	214	214	214	216	213	212	210	207	204	204	207	208	211	213	215	216	215	214	214	212	212	212	
22	214	213	215	212	212	215	213	212	211	207	205	205	208	212	215	215	218	216	215	215	215	214	214	212	
23	213	212	212	212	212	216	213	213	211	207	204	205	210	212	215	215	215	216	218	218	216	214	212	211	
24 *	212	212	213	213	212	214	212	212	210	205	206	206	210	212	214	215	216	216	215	215	215	214	210	210	
25	212	212	211	211	212	212	210	210	208	204	201	203	207	210	212	213	215	216	218	217	219	219	216	213	
26 *	211	213	214	214	214	214	210	210	211	207	203	201	205	206	211	213	215	216	215	216	216	215	215	214	
27	213	212	212	211	211	213	212	211	209	207	206	206	205	207	211	211	211	213	212	213	213	211	210	211	
28	210	209	209	209	209	210	208	208	208	209	204	206	206	207	210	209	211	214	213	213	214	214	214	213	
29 **	213	213	211	210	209	210	210	211	206	206	208	211	214	214	219	219	219	219	220	224	225	221	220	218	
30	216	214	214	214	213	215	214	214	212	210	210	212	215	216	219	218	217	218	216	216	215	214	214	214	
Mean	214	213	213	212	212	214	212	212	212	210	208	209	211	214	218	218	219	220	220	220	219	217	216	214	
Mean *	215	215	215	215	214	215	213	214	213	209	206	205	208	212	215	216	217	217	217	216	216	215	215	214	
Mean **	216	214	211	208	209	210	208	209	210	211	211	216	218	221	225	227	229	229	229	229	225	222	219	212	
December	43000 γ + Tabular Quantities (in γ)																								
1 *	214	212	212	211	213	213	211	212	211	209	205	206	211	216	216	216	214	214	214	214	214	214	214	213	
2	213	212	211	211	211	210	209	206	207	204	205	204	206	206	206	206	209	210	212	212	213	212	214	216	
3 *	214	214	214	214	213	213	209	210	207	205	204	208	210	210	213	213	214	215	215	214	214	213	213	215	
4 *	214	214	214	214	212	214	212	212	211	208	209	210	210	211	214	214	213	213	212	210	210	210	210	210	
5	210	210	210	210	209	211	209	210	207	205	204	203	205	208	210	210	211	210	210	210	216	217	215	214	
6	211	209	210	211	210	213	210	210	207	205	207	208	210	214	219	224	228	228	226	225	222	220	217	215	
7	211	209	210	210	210	212	210	210	208	206	203	202	204	207	212	213	216	217	216	215	213	211	212	214	
8	216	214	214	213	211	209	203	201	201	199	200	204	209	215	225	224	221	221	222	224	223	218	216	213	
9	214	215	210	210	210	211	211	210	210	210	209	207	209	214	216	220	225	222	220	217	218	216	215	213	
10	210	210	212	213	211	212	210	210	209	206	205	204	205	210	213	214	216	219	218	216	215	214	213	212	
11 *	211	209	210	210	211	214	213	213	211	207	204	206	207	209	214	215	217	219	218	216	216	216	214	211	
12	212	211	211	211	211	214	213	213	210	207	206	208	207	210	211	212	214	215	216	214	216	217	216	214	
13	213	211	210	210	210	213	212	210	210	210	208	208	206	205	208	209	212	219	230	245	250	249	258	256	
14 **	246	226	217	220	199	179	170	171	184	199	210	219	230	250	273	259	246	243	239	236	236	235	235	232	
15	232	231	230	229	227	229	226	226	229	226	229	230	230	231	234	232	232	231	231	232	234	231	234	232	
16	231	228	226	226	225	224	223	222	225	223	225	224	223	223	225	226	226	224	224	224	222	220	222	221	
17	220	210	210	216	216	216	213	213	210	210	214	220	224	226	233	236	240	239	234	230	230	230	230	225	
18	226	224	223	221	220	222	220	221	219	217	220	221	224	225	228	229	231	230	229	229	227	225	223	223	
19	224	223	222	222	220	223	221	220	220	217	219	215	216	222	226	226	229	228	226	223	223	220	223	219	
20 **	231	232	229	227	226	228	226	224	219	217	216	219	220	221	225	226	227	234	240	246	250	249	249	243	
21	240	236	230	222	211	213	210	212	214	213	214	216	218	220	227	228	227	226	226	226	225	224	222	220	
22 *	220	222	223	224	223	225	221	220	220	218	220	219	220	220	221	224	226	224	224	224	223	220	220	219	
23	220	219	220	219	219	218	219	217	214	210	213	214	213	213	216	216	219	217	220	225	235	246	247	239	
24	230	226	226	226	224	224	221	224	224	220	216	215	217	226	232	231	230	230	227	226	225	224	222	220	
25 **	219	217	218	219	220	220	220	219	215	213	214	211	211	214	215	220	230	245	257	252	237	227	223	216	
26 **	213	209	202	209	213	210	211	216	219	216	222	224	224	230	229	230	233	235	239	237	231	226	224	221	
27 **	220	220	218	213	214	216	217	220	218	216	214	216	218	226	231	225	228	230	231	239	231	228	226	218	
28	219	214	213	213	214	215	214	216	217	220	221	219	219	224	240	245	235	230	230	228	227	226	215	217	
29	220	220	220	220	214	216	218	219	220	218	220	220	220	220	222	225	228	228	226	224	223	224	225	223	
30	220	216	219	220	219	219	219	219	219	214	218	220	216	216	220	222	222	223	223	224	226	224	223	222	
31	220	217	216	216	215	215	215	216	215	214	210	209	209	212	216	217	219	219	218	218	218	217	217	216	
Mean	220	217	216	216	215	215	213	214	213	212	212	213	215	218	222	223	224	224	225	225	225	223	223	221	
Mean *	215	214	215	215	214	216	213	213	212	209	208	210	212	213	216	216	217	217	217	216	215	215	214	213	
Mean **	226	221	217	218	214	211	209	210	211	212	215	218	221	228	235	232	233	237	241	242	237	233	231	226	

* International Quiet Day. ** International Disturbed Day.

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
January	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	62·7	12 32	65·3	52·1	20 6	13·2	562	20 15	608	544	18 20	64	206	20 12	215	195	10 42	20
2	63·1	13 4	65·9	57·2	2 3	8·7	562	7 40	579	540	15 45	39	203	16 30	216	190	9 50	26
3	63·4	11 35	67·4	51·5	19 6	15·9	566	19 10	584	545	10 36	39	205	19 10	214	195	12 3	19
4	62·6	12 52	65·8	52·3	21 18	13·5	563	12 52	582	507	19 40	75	205	20 10	225	196	12 10	29
5	63·2	12 59	67·0	59·8	1 2	7·2	562	21 10	571	543	0 0	28	206	{7 40 18 0	209	200	12 20	9
6	63·7	12 30	68·1	60·6	23 2	7·5	569	7 13	585	512	11 16	73	202	13 45	207	197	2 25	10
7	63·3	12 25	66·3	58·4	22 15	7·9	571	6 53	583	558	2 55	25	201	21 39	208	195	12 3	13
8	63·9	12 30	66·4	61·5	0 5	4·9	569	6 55	580	556	0 6	24	203	14 0	209	196	5 30	13
9	62·9	15 45	67·2	43·4	22 36	23·8	571	16 17	591	499	23 55	92	200	22 57	210	194	16 25	16
10 **	63·0	6 54	75·6	54·3	0 3	21·3	551	2 5	601	500	0 5	101	204	15 5	219	177	2 30	42
11 *	63·1	12 40	66·0	61·1	18 55	4·9	563	19 10	569	555	0 30	14	204	17 45	208	195	11 45	13
12	63·2	16 30	66·4	56·8	20 2	9·6	566	7 45	580	551	16 35	29	204	14 00	210	197	12 10	13
13	63·8	4 6	68·2	59·2	1 29	9·0	572	4 45	591	554	3 55	37	199	15 20	206	190	10 55	16
14	63·3	12 50	66·3	60·7	8 48	5·6	576	13 44	586	564	11 36	22	199	5 57	204	188	11 0	16
15 **	62·7	12 20	70·7	46·9	16 54	23·8	548	5 49	602	452	18 47	150	214	16 50	282	191	5 50	91
16	62·6	1 10	67·1	53·8	23 17	13·3	555	1 5	595	533	0 22	62	207	15 20	216	192	22 42	24
17 **	62·7	16 15	67·3	51·4	19 45	15·9	557	17 58	573	524	10 46	49	205	19 58	217	193	3 39	24
18	63·7	17 40	67·5	56·9	22 20	10·6	565	21 16	586	544	22 38	42	206	21 12	215	197	12 5	18
19	63·2	13 19	66·9	56·1	19 37	10·8	565	4 14	583	541	19 30	42	206	19 45	219	195	12 4	24
20	63·3	12 13	68·2	60·3	1 40	7·9	566	5 42	593	542	12 40	51	206	13 30	216	197	7 55	19
21	63·4	12 33	67·1	60·8	22 22	6·3	565	22 32	590	553	22 6	37	206	21 30	214	200	2 10	14
22	63·0	12 36	66·3	60·2	1 50	6·1	568	14 50	579	556	12 30	23	205	7 20	210	198	11 40	12
23 *	63·1	12 45	66·6	61·0	5 20	5·6	569	7 15	577	558	1 21	19	204	8 0	209	199	16 5	10
24 *	63·1	13 0	65·6	61·8	7 50	3·8	572	16 0	582	563	1 35	19	203	14 0	208	199	17 10	9
25 *	63·2	12 30	67·2	60·8	8 38	6·4	570	17 48	580	549	10 45	31	203	{7 50 14 20	208	200	20 40	8
26	63·3	12 25	68·6	58·8	20 50	9·8	573	12 30	596	529	19 20	67	201	20 30	221	190	13 3	31
27	63·6	12 32	67·5	61·2	7 21	6·3	572	19 8	584	557	9 59	27	201	15 20	208	198	3 40	10
28 **	63·2	13 40	67·5	51·4	24 00	16·1	575	18 30	599	532	23 51	67	200	21 26	215	188	23 50	27
29 **	59·1	14 18	69·1	42·0	1 48	27·1	536	0 26	602	464	17 32	138	204	17 51	245	144	4 25	101
30	63·3	4 36	71·7	59·1	0 42	12·6	553	0 1	585	523	16 49	62	206	17 25	222	191	5 30	31
31 *	63·0	13 43	67·2	58·8	21 38	8·4	562	16 48	574	545	11 40	29	208	15 20	213	201	9 4	12
Mean	63·1	-	67·5	56·5	-	11·1	564	-	586	535	-	50·9	204	-	216	193	-	23·2
Mean *	63·1	-	66·5	60·7	-	5·8	567	-	576	554	-	22·4	204	-	209	199	-	10·4
Mean **	62·1	-	70·0	49·2	-	20·8	553	-	595	494	-	101·0	205	-	236	179	-	57·0
February	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T.	γ
1 *	62·9	13 4	65·6	61·3	8 16	4·3	569	15 26	580	554	10 40	26	205	17 50	212	197	12 4	15
2	63·5	14 50	70·8	57·9	24 0	12·9	562	7 30	586	520	15 13	66	208	19 32	222	198	12 35	24
3	63·2	14 3	67·0	57·9	0 0	9·1	567	0 8	592	554	3 40	38	205	17 25	212	197	0 50	15
4	63·0	13 30	67·1	60·6	7 53	6·5	571	23 57	587	551	10 41	36	205	15 20	211	200	12 42	11
5 **	63·1	5 22	71·1	58·8	20 0	12·3	564	5 26	616	531	9 35	85	205	15 16	217	184	6 10	33
6	63·2	11 18	68·3	58·2	1 19	10·1	566	0 22	603	528	10 33	75	205	15 20	215	189	0 47	26
7	62·6	14 3	66·3	57·5	18 46	8·8	566	7 25	579	544	10 5	35	206	18 50	212	194	13 0	18
8	62·9	14 0	69·5	55·8	17 18	13·7	564	23 19	600	532	13 50	68	205	16 48	220	190	3 15	30
9	61·9	12 10	66·9	54·6	0 11	12·3	563	23 37	601	532	12 23	69	204	15 20	218	188	0 45	30
10	62·5	3 15	66·3	59·8	19 42	6·5	567	23 58	584	534	9 47	50	203	15 16	211	192	12 0	19
11	62·4	6 40	66·3	59·1	9 35	7·2	568	0 16	590	532	16 30	58	203	17 10	217	195	5 35	22
12	62·4	13 45	66·3	58·1	9 20	8·2	565	22 14	589	541	11 20	48	203	17 45	212	189	11 0	23
13 *	62·6	14 10	67·1	59·7	8 50	7·4	570	6 20	580	549	10 41	31	204	15 20	213	197	10 1	16
14	63·3	13 19	68·3	58·1	22 52	10·2	574	16 43	591	544	21 50	47	203	22 0	220	189	13 0	31
15 **	62·2	14 10	69·2	50·8	21 30	18·4	564	1 2	607	518	19 45	89	204	20 6	232	182	2 5	50
16 **	62·4	14 28	69·5	47·7	18 18	21·8	557	18 30	605	518	18 7	87	207	18 30	236	189	1 33	47
17	62·3	15 20	67·1	48·6	20 6	18·5	564	20 15	599	541	11 0	58	207	20 11	223	196	13 0	27
18	62·6	14 50	68·2	57·2	23 54	11·0	569	22 47	599	553	14 43	46	205	16 30	213	194	11 55	19
19 *	62·3	13 15	67·8	57·0	0 30	10·8	572	23 5	587	561	0 40	26	204	17 40	210	195	12 20	15
20 *	62·8	14 42	67·5	60·2	9 40	7·3	575	7 50	595	561	16 45	34	203	17 25	210	191	12 0	19
21 *	62·9	14 1	66·2	60·7	21 50	5·5	577	8 3	593	565	21 30	28	200	15 20	207	189	12 40	18
22	62·9	14 27	69·0	56·2	22 19	12·8	579	22 4	604	567	{14 17 16 19	37	200	21 52	206	191	13 5	15
23	63·0	14 8	69·5	58·9	0 0	10·6	580	13 20	600	563	16 20	37	196	9 15	206	181	12 55	25
24	63·0	13 28	67·3	58·8	20 32	8·5	577	7 30	597	557	19 55	40	200	21 5	211	190	13 5	21
25	61·6	14 50	66·5	47·0	20 33	19·5	573	1 15	626	540	20 24	86	199	20 50	213	184	1 40	29
26 **	61·2	14 4	69·5	43·1	18 20	26·4	565	20 42	605	506	17 50	99	207	16 10	238	194	5 33	44
27 **	61·6	14 41	68·5	46·9	19 58	21·6	564	19 24	650	535	14 49	115	204	19 25	223	190	1 22	33
28	62·2	14 32	67·2	53·6	18 32	13·6	565	18 43	593	542	16 24	51	205	16 35	216	195	13 10	21
Mean	62·6	-	67·9	55·9	-	12·0	568	-	598	542	-	55·9	204	-	216	191	-	24·9
Mean *	62·7	-	66·8	59·8	-	7·1	573	-	587	558	-	29·0	203	-	210	194	-	16·6
Mean **	62·1	-	69·6	49·5	-	20·1	563	-	617	522	-	95·0	205	-	229	188	-	41·4

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
March	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
11**	62·4	14 45	66·2	59·3	8 37	6·9	570	6 40	581	543	10 45	38	202	7 20	206	191	11 0	15
2	62·9	13 30	68·8	59·6	9 0	9·2	574	7 20	588	544	16 0	44	200	16 35	214	183	11 10	31
3	61·9	13 35	67·0	55·8	2 10	11·2	570	1 25	607	549	12 16	58	200	18 25	216	187	13 5	29
4 *	62·1	13 52	66·3	57·6	23 31	8·7	573	23 48	594	558	10 45	36	201	20 30	207	183	12 45	24
5	61·3	17 0	70·6	42·9	21 1	27·7	563	7 4	592	478	18 23	114	208	18 40	255	185	11 53	70
6	61·5	14 12	70·2	49·8	19 50	20·4	562	20 15	605	528	16 18	77	206	17 50	227	184	12 40	43
7	62·7	12 52	68·2	56·3	0 0	11·9	568	20 2	587	535	9 37	52	201	18 0	211	186	12 5	25
8	63·3	12 7	70·5	59·5	3 3	11·0	571	0 40	599	507	16 33	92	202	16 46	227	187	11 35	40
9	61·5	12 50	66·8	56·0	19 55	10·8	570	22 42	613	538	18 53	75	203	19 30	218	189	12 3	29
10	62·3	13 10	66·4	56·9	23 50	9·5	576	22 53	590	561	10 20	29	199	6 40	208	188	13 0	20
11 **	61·8	14 14	71·6	51·4	1 1	20·2	555	0 15	661	508	17 55	153	205	18 6	249	168	1 1	81
12 **	59·8	14 9	73·4	33·1	22 27	40·3	552	20 41	633	485	22 8	148	213	17 30	268	185	23 30	83
13	62·8	11 52	67·9	55·6	0 10	12·3	551	20 50	571	516	11 41	55	212	16 28	222	192	0 0	30
14	61·0	14 12	66·3	51·3	22 45	15·0	561	23 50	591	536	11 24	55	207	16 20	219	192	12 7	27
15 **	59·6	22 4	73·8	40·3	2 6	33·5	556	22 22	656	461	17 38	195	194	18 15	246	131	2 5	115
16	60·9	13 4	69·7	50·8	17 34	18·9	553	22 53	600	500	10 40	100	209	17 43	250	176	0 35	74
17	61·6	13 36	68·4	56·2	20 36	12·2	563	22 59	609	548	1 43	61	209	18 0	220	195	23 50	25
18	61·2	13 3	69·8	57·0	22 10	12·8	567	21 20	603	535	13 18	68	206	17 55	220	191	10 50	29
19	62·0	14 16	67·4	56·8	0 22	10·6	570	17 59	585	550	12 20	35	205	15 25	211	188	11 55	23
20	61·2	12 26	68·1	39·8	21 2	28·5	564	20 13	592	512	20 46	80	207	20 12	221	193	11 35	28
21	61·9	12 26	68·4	46·8	18 55	21·6	569	18 58	593	532	18 20	61	207	18 56	230	190	12 0	40
22 *	62·2	13 5	66·9	58·7	8 35	8·2	570	20 57	584	555	10 22	29	205	7 35	213	194	12 15	19
23 *	62·4	12 45	68·0	58·5	8 15	9·5	571	21 10	587	547	10 40	40	204	15 22	211	189	12 10	22
24	63·2	13 34	70·4	57·9	9 8	12·5	574	19 56	600	547	9 50	53	203	18 20	215	183	11 20	32
25	62·5	23 52	72·2	57·9	8 20	14·3	574	23 58	642	540	16 53	102	203	17 30	223	180	12 3	43
26 **	61·5	15 32	72·5	43·5	19 13	29·0	563	0 10	649	491	16 22	158	202	16 30	248	168	1 50	80
27	61·1	23 0	71·0	47·7	19 19	23·3	568	22 51	629	522	10 40	107	203	15 57	226	180	0 0	46
28 **	62·9	13 37	77·6	56·2	7 30	21·4	569	7 32	624	452	11 17	172	199	15 16	221	160	11 13	61
29	62·0	11 50	69·3	55·3	21 22	14·0	557	21 46	583	510	11 16	73	208	16 25	225	189	10 40	36
30 *	61·8	12 31	68·7	56·2	8 8	12·5	564	4 10	580	531	10 14	49	207	16 43	219	192	10 50	27
31 *	61·4	13 59	68·4	55·4	23 28	13·0	572	21 10	600	540	10 34	60	207	16 25	218	192	11 55	26
Mean	61·8	-	69·4	52·9	-	16·5	566	-	604	524	-	79·6	204	-	225	184	-	41·1
Mean *	62·0	-	67·7	57·3	-	10·4	570	-	589	546	-	42·8	205	-	214	190	-	23·6
Mean **	61·1	-	73·8	44·9	-	28·9	559	-	645	479	-	165·2	203	-	246	162	-	84·0
April	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 **	62·4	10 38	77·6	50·3	20 32	27·3	541	6 10	599	449	10 57	150	211	14 53	247	181	11 56	66
2	60·9	1 43	71·2	55·1	17 55	16·1	555	2 30	584	524	12 42	60	209	18 15	235	182	2 13	53
3	61·5	13 3	67·0	56·9	8 18	10·1	567	6 44	576	546	10 22	30	210	6 44	220	194	12 4	26
4	61·6	13 41	69·7	55·6	7 46	14·1	567	6 0	584	543	14 10	41	209	15 30	227	183	11 40	44
5	60·8	17 31	65·9	46·7	20 16	19·2	566	20 20	635	502	20 49	133	211	20 19	236	193	20 50	43
6 **	61·7	12 47	69·6	47·6	17 28	22·0	566	17 33	621	525	9 35	96	211	17 33	246	192	11 58	54
7	61·5	12 58	67·9	52·9	23 20	15·0	567	22 29	641	534	6 27	107	199	20 5	215	178	12 0	37
8	61·5	13 27	71·5	53·4	0 54	18·1	566	{0 38 / 17 28}	590	526	9 20	64	205	17 20	231	174	1 50	57
9 *	61·1	13 11	66·9	55·1	8 15	11·8	568	19 40	582	546	10 45	36	205	16 40	215	185	11 38	30
10	61·6	13 2	68·7	55·2	8 30	13·5	573	23 35	592	542	13 30	50	205	16 20	214	183	11 25	31
11 **	60·9	12 50	76·4	52·0	23 35	24·4	570	22 16	621	498	13 1	123	207	16 25	240	172	11 6	68
12 **	60·0	13 2	67·6	52·2	23 25	15·4	563	20 48	646	522	1 30	124	202	16 25	239	175	1 22	64
13	61·4	13 40	66·9	55·5	21 20	11·4	561	23 55	596	526	11 35	70	209	18 18	225	192	0 20	33
14 **	60·3	2 42	72·4	51·3	19 58	21·1	564	20 3	602	532	9 25	70	208	18 43	238	184	12 4	54
15	61·3	13 29	69·8	55·5	8 23	14·3	563	21 12	585	510	11 38	75	205	17 20	220	181	11 2	39
16	61·4	13 43	68·5	55·9	7 42	12·6	568	23 50	587	546	11 45	41	208	18 0	218	183	11 45	35
17 *	61·0	13 10	66·0	56·6	8 35	9·4	571	16 45	586	546	11 36	40	205	{8 50 / 20 50}	215	185	11 35	30
18	61·3	14 5	67·3	56·8	8 3	10·5	573	23 8	594	538	11 21	56	204	22 0	212	182	12 10	30
19	59·8	12 58	67·6	51·1	22 41	16·5	582	19 50	611	547	12 30	64	201	22 20	215	177	12 0	38
20	61·5	13 55	69·6	56·7	4 40	12·9	574	2 0	609	526	14 45	83	202	15 30	220	184	10 59	36
21	60·8	13 40	66·2	56·5	8 33	9·7	575	21 20	591	556	11 36	35	204	6 50	212	185	12 0	27
22	59·9	12 50	68·0	47·6	20 28	20·4	573	20 40	604	548	11 16	56	206	19 50	220	186	13 2	34
23	61·3	12 50	69·2	52·3	22 58	16·9	579	15 30	612	532	17 20	80	203	18 18	215	181	11 32	34
24	60·5	1 34	67·5	50·2	18 35	17·3	578	18 52	620	552	7 50	68	199	18 50	226	171	11 25	55
25	61·0	12 35	66·4	57·6	7 10	8·8	576	1 12	594	563	8 40	31	202	17 10	212	182	12 0	30
26 *	60·8	13 10	67·2	56·1	8 17	11·1	578	14 10	588	568	15 33	20	203	16 50	212	183	11 10	29
27 *	60·9	13 42	67·5	56·2	9 1	11·3	578	21 12	591	564	11 10	27	201	7 3	211	180	12 0	31
28 *	61·0	12 30	67·3	56·1	8 20	11·2	580	22 45	594	561	10 28	33	201	6 40	211	179	12 6	32
29	61·8	14 15	69·1	56·1	8 22	13·0	586	20 5	615	560	13 26	55	198	16 19	210	176	13 0	34
30	61·4	14 10	67·1	56·3	22 22	10·8	585	17 10	631	553	{10 40 / 18 20}	78	200	18 52	224	179	11 50	45
Mean	61·1	-	68·8	53·9	-	14·9	570	-	603	536	-	66·5	205	-	223	182	-	40·6
Mean *	61·0	-	67·0	56·0	-	11·0	575	-	588	557	-	31·2	203	-	203	182	-	30·4
Mean **	61·1	-	72·7	50·7	-	22·0	561	-	618	505	-	112·6	208	-	242	181	-	61·2

* International Quiet Day. ** International Disturbed Day.

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	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
11	61·5	13 2	69·2	54·6	20 15	14·6	579	2 4	613	547	11 35	66	198	19 52	216	172	12 2	44
2 **	61·2	12 34	66·6	56·1	7 33	10·5	579	1 12	615	544	9 16	71	195	16 56	212	178	12 1	34
3	60·7	1 0	67·7	56·0	2 28	11·7	576	16 50	626	538	10 20	88	200	16 50	226	183	11 40	43
4	60·4	14 30	64·5	56·2	6 20	8·3	578	22 37	612	556	13 30	56	200	17 30	209	183	11 55	26
5 *	61·0	14 8	66·5	57·2	8 21	9·3	579	18 3	596	561	12 23	35	204	14 30	212	187	11 25	25
6	60·9	12 45	65·3	57·2	6 52	8·1	578	17 53	604	561	12 28	43	206	17 48	227	190	12 0	37
7 *	60·6	14 56	64·8	56·9	22 41	7·9	583	20 5	602	570	12 21	32	201	5 10	212	189	11 48	23
8 *	60·4	12 34	65·8	55·2	4 5	10·6	584	19 4	602	573	6 53	29	195	19 4	206	180	11 47	26
9	60·8	12 53	68·4	48·0	21 19	20·4	589	17 45	628	551	16 14	77	198	19 20	219	175	12 58	44
10	60·4	13 42	69·5	46·9	21 56	22·6	583	21 38	638	565	8 36	73	203	20 4	229	184	11 51	45
11																		
11 **	60·9	14 31	72·3	51·8	20 37	20·5	566	6 31	602	529	14 5	73	207	16 43	242	176	10 59	66
12 **	59·4	13 20	68·0	48·9	21 1	19·1	565	17 28	593	542	9 14	51	209	18 20	232	193	11 53	39
13	59·9	12 46	68·2	54·6	7 30	13·6	575	17 56	616	558	15 20	58	208	18 0	231	188	12 45	43
14	61·3	14 40	70·6	56·7	8 20	13·9	575	16 32	600	548	12 44	52	205	16 30	229	176	11 58	53
15 *	60·2	13 30	66·4	55·7	8 15	10·7	573	22 15	595	550	11 0	45	206	17 0	217	181	10 55	36
16	60·4	13 25	67·0	54·2	8 20	12·8	580	17 8	612	556	10 10	56	205	17 10	214	186	11 43	28
17	60·9	13 40	68·6	55·1	1 13	13·5	581	23 58	611	560	13 0	51	205	18 20	226	182	11 3	44
18	61·1	13 0	69·6	52·9	22 55	16·7	587	22 59	624	549	14 7	75	204	17 12	224	185	11 17	39
19	60·3	14 50	66·3	55·3	7 45	11·0	582	18 3	615	563	11 15	52	206	18 5	225	183	11 58	42
20	61·2	13 47	67·3	57·4	3 37	9·9	578	19 31	603	554	16 15	49	203	17 20	219	182	12 53	37
21	61·2	14 32	71·2	54·1	7 55	17·1	585	14 32	631	557	9 17	74	205	16 26	223	183	12 5	40
22 *	60·7	13 6	68·7	56·0	8 48	12·7	580	17 43	595	553	10 14	42	205	17 10	218	178	12 6	40
23	61·1	13 2	67·8	54·9	5 58	12·9	583	4 50	606	549	11 8	57	199	18 30	218	168	12 2	50
24	61·3	13 23	70·8	53·0	7 0	17·8	577	4 55	604	542	8 15	62	205	17 25	218	185	11 50	33
25 **	61·1	3 30	72·2	51·6	7 17	20·6	583	20 0	623	543	10 41	80	206	17 50	221	188	11 25	33
26	60·4	13 24	67·3	53·3	6 35	14·0	584	18 41	629	548	10 32	81	206	4 10	215	185	12 2	30
27	61·0	13 52	69·0	54·0	6 21	15·0	584	17 0	630	557	8 52	73	206	17 0	217	190	13 3	27
28	61·2	13 15	67·9	56·0	5 45	11·9	584	16 29	622	544	10 43	78	202	20 1	215	181	12 10	34
29	59·8	13 50	66·8	53·4	2 20	13·4	586	1 2	621	550	9 23	71	207	18 33	225	188	11 40	37
30 **	60·2	14 16	69·6	49·8	21 42	19·8	583	17 34	637	548	14 30	89	201	17 31	224	174	11 40	50
31	61·0	15 43	67·3	56·2	7 6	11·1	577	17 40	607	540	7 57	67	204	17 24	216	188	11 40	28
Mean	60·7	-	68·1	54·2	-	13·9	580	-	613	552	-	61·5	203	-	221	183	-	37·9
Mean *	60·6	-	66·4	56·2	-	10·2	580	-	598	561	-	36·6	202	-	213	183	-	30·0
Mean **	60·6	-	69·7	51·6	-	18·1	575	-	614	541	-	72·8	204	-	226	182	-	44·4
June	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	60·3	12 10	64·8	56·0	7 40	8·8	581	18 31	611	555	12 37	56	200	18 35	215	176	12 3	39
2 *	60·5	13 2	64·3	56·0	6 0	8·3	581	18 30	604	550	9 12	54	201	18 30	215	180	12 5	35
3 *	60·3	12 45	65·5	55·0	8 40	10·5	580	18 50	594	560	11 18	34	203	18 20	212	188	12 8	24
4	60·5	13 10	67·5	55·8	6 20	11·7	586	19 50	605	562	10 40	43	202	8 13	211	179	11 50	32
5	60·2	13 40	65·0	54·3	8 36	10·7	592	21 1	615	571	10 21	44	201	5 30	210	182	11 20	28
6 **	60·6	13 30	71·3	49·2	7 47	22·1	584	5 58	625	520	11 9	105	206	17 53	232	180	12 0	52
7 **	59·5	11 53	66·2	54·0	6 44	12·2	578	19 37	621	537	7 30	84	202	19 40	224	183	12 2	41
8 **	59·8	13 7	67·3	53·1	4 36	14·2	580	23 18	615	545	10 55	70	198	16 21	219	181	4 58	38
9	60·2	13 0	66·6	56·0	4 46	10·6	575	19 4	623	545	7 20	78	203	19 0	222	182	10 47	40
10 **	59·9	14 24	66·7	52·5	8 41	14·2	574	18 7	606	531	11 13	75	201	18 50	222	182	11 12	40
11	60·2	14 38	67·9	54·0	7 45	13·9	576	19 59	618	536	10 40	82	203	19 30	225	189	11 20	36
12	59·3	14 35	65·1	54·2	8 50	10·9	578	18 48	601	554	10 40	47	202	18 39	212	179	11 25	33
13	59·6	15 15	65·6	53·8	7 43	11·8	580	21 12	600	552	10 39	48	203	18 20	217	178	12 3	39
14	59·7	13 40	64·3	54·3	8 0	10·0	585	19 32	616	554	11 26	62	205	19 10	215	188	12 1	27
15	59·8	14 40	65·5	55·4	5 56	10·1	582	19 10	602	547	12 36	55	203	20 15	213	179	12 35	34
16	60·1	15 16	66·2	54·5	6 34	11·7	586	18 11	605	566	14 15	39	201	18 30	215	180	11 20	35
17	59·9	15 38	68·6	53·1	8 0	15·5	585	15 38	608	548	16 12	60	201	18 25	211	180	11 50	31
18	59·7	14 52	64·5	54·2	9 4	10·3	586	19 34	606	562	9 40	44	204	17 30	211	190	10 35	21
19	59·9	14 9	65·1	53·1	7 20	12·0	585	19 50	619	565	9 19	54	201	5 25	212	186	11 34	26
20	59·9	12 45	65·4	54·2	6 23	11·2	583	0 10	600	551	10 29	49	202	19 30	210	189	12 5	21
21	60·4	13 10	66·2	55·3	7 6	10·9	584	19 10	602	567	9 14	35	202	16 52	214	183	11 20	31
22 *	60·4	14 10	66·6	55·1	6 23	11·5	585	19 53	597	569	15 38	28	200	19 25	208	178	11 0	30
23	60·0	13 7	65·1	53·5	8 0	11·6	587	3 1	597	565	9 30	32	201	16 15	211	183	11 58	28
24	60·1	13 32	65·5	54·0	7 5	11·5	586	21 23	603	571	14 35	32	202	17 36	213	183	11 50	30
25	59·4	14 50	66·6	54·2	5 40	12·4	580	19 26	603	558	10 40	45	199	16 47	211	188	12 0	23
26	59·9	13 40	65·5	54·8	7 43	10·7	589	20 10	610	572	12 46	38	201	16 48	211	183	11 41	28
27	60·6	13 40	67·6	53·9	7 49	13·7	587	4 19	609	549	9 21	60	203	17 10	223	186	9 10	37
28	59·7	13 25	67·0	54·1	8 42	12·9	584	23 40	599	561	11 26	38	203	17 25	219	187	11 30	36
29 *	59·3	14 45	64·5	52·9	8 3	11·6	582	20 4	596	551	12 30	45	198	17 29	209	177	11 50	32
30 **	60·8	16 22	67·6	54·7	8 16	12·9	591	16 20	643	546	17 12	97	202	18 20	222	181	12 12	41
Mean	60·0	-	66·2	54·2	-	12·0	583	-	608	554	-	54·4	202	-	215	183	-	32·9
Mean *	60·2	-	65·1	55·0	-	10·1	582	-	600	557	-	43·4	200	-	212	180	-	32·0
Mean **	60·1	-	67·8	52·7	-	15·1	581	-	622	536	-	86·2	202	-	224	181	-	42·4

* International Quiet Day. ** International Disturbed Day.

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	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 **	60·3	13 50	71·7	46·6	0 45	25·1	568	4 0	632	508	11 43	124	199	18 28	248	153	5 18	95
2	58·5	14 33	65·9	46·9	1 47	19·0	571	1 16	600	551	9 22	49	204	18 30	216	183	11 40	33
3	59·4	13 30	65·3	53·4	1 46	11·9	574	0 9	595	544	10 23	51	201	18 30	213	183	12 38	30
4 **	59·6	15 7	67·4	53·6	6 28	13·8	581	{15 59 / 22 22}	614	533	11 39	81	203	15 41	217	179	11 32	38
5	60·0	12 28	66·4	55·0	3 21	11·4	578	18 19	606	525	9 19	81	200	18 18	218	188	0 43	30
6 **	59·1	6 11	64·3	50·2	5 30	14·1	565	0 11	617	512	7 39	105	208	17 26	237	170	7 32	67
7	59·3	13 24	66·9	53·1	5 40	13·8	570	21 10	634	531	12 58	103	209	18 25	222	193	12 55	29
8	59·6	14 10	67·7	50·8	5 55	16·9	574	21 11	606	529	10 54	77	204	16 25	224	185	4 32	39
9	59·0	13 19	64·8	53·4	5 22	11·4	578	18 0	598	557	13 35	41	205	17 30	220	187	10 0	33
10 *	59·7	13 43	68·7	54·0	5 55	14·7	580	15 15	609	547	10 27	62	206	17 55	220	186	12 55	34
11	59·3	14 11	66·4	52·5	6 15	13·9	581	15 18	607	551	11 38	56	204	17 40	215	181	11 40	34
12	60·3	13 14	68·6	54·2	5 14	14·4	582	19 3	598	539	12 11	59	204	18 25	218	182	12 0	36
13	59·6	13 10	67·6	52·6	7 58	15·0	581	22 15	596	550	12 38	46	205	17 20	214	189	12 48	25
14	59·7	14 6	65·5	54·5	7 46	11·0	580	19 0	594	528	11 45	66	201	18 25	211	174	12 5	37
15 *	59·7	14 2	64·9	53·9	6 4	11·0	582	18 29	604	553	12 42	51	203	18 20	212	189	12 46	23
16	59·1	14 43	66·9	52·9	7 3	14·0	589	19 54	630	563	9 29	67	203	18 40	216	177	12 33	39
17 **	58·6	14 15	66·2	49·8	20 16	16·4	586	17 35	659	553	18 5	106	209	20 25	238	187	12 40	51
18	58·9	13 59	63·4	54·5	8 42	8·9	576	24 0	594	544	12 38	50	211	18 0	226	194	12 35	32
19	59·5	13 33	65·3	52·4	7 1	12·9	583	21 44	612	550	11 20	62	205	19 53	215	190	12 39	25
20 *	59·0	13 25	65·7	53·3	8 45	12·4	579	22 0	599	544	10 18	55	203	19 20	214	177	12 40	37
21	59·7	12 45	66·4	54·6	7 22	11·8	581	{1 40 / 18 56}	599	550	10 0	49	203	18 30	216	177	11 52	39
22 *	59·4	14 8	66·3	53·3	6 13	13·0	584	19 50	610	563	11 35	47	198	{8 48 / 18 28}	208	171	11 4	37
23	59·3	14 59	66·0	46·9	22 29	19·1	590	22 12	647	544	23 56	103	202	16 27	214	184	10 33	30
24	59·6	12 8	66·5	49·9	0 0	16·6	572	16 58	594	536	11 42	58	203	19 3	218	184	11 26	34
25	58·5	13 6	64·4	51·2	8 6	13·2	574	22 10	600	536	9 39	64	202	17 42	215	178	11 30	37
26	59·6	14 10	66·8	53·9	8 6	12·9	580	20 50	597	540	11 0	57	207	17 40	223	189	11 55	34
27 *	59·5	14 10	65·2	55·3	8 40	9·9	578	19 20	598	559	15 15	39	205	6 24	218	186	11 43	32
28	59·6	12 48	68·5	51·5	6 50	17·0	586	22 32	620	540	11 7	80	201	5 5	211	178	13 11	33
29	59·5	15 1	66·4	48·7	22 23	17·7	589	20 52	618	566	9 40	52	201	17 22	220	182	10 20	38
30 **	58·1	13 30	66·3	47·3	2 40	19·0	575	1 50	611	528	12 53	83	200	17 26	221	179	2 28	42
31	58·5	13 25	63·8	51·8	1 20	12·0	569	23 25	590	550	9 33	40	206	18 15	216	191	11 57	25
Mean	59·3	-	66·3	52·0	-	14·3	579	-	609	543	-	66·6	204	-	219	182	-	37·0
Mean *	59·5	-	66·2	53·6	-	12·2	581	-	604	553	-	50·8	203	-	214	182	-	32·6
Mean **	59·1	-	67·2	49·5	-	17·7	575	-	627	527	-	99·8	204	-	232	174	-	58·6
August	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	59·1	14 4	63·3	54·7	8 24	8·6	580	18 50	624	553	12 0	71	204	{8 43 / 18 18}	213	187	12 0	26
2 **	58·4	14 12	67·5	48·9	2 27	18·6	576	0 29	622	539	3 43	83	195	18 16	227	160	3 34	67
3	59·2	13 0	66·5	52·5	7 24	14·0	575	20 34	593	552	8 59	41	202	16 46	213	178	11 50	35
4	59·2	13 3	64·9	55·4	24 0	9·5	574	22 45	612	543	10 40	69	204	17 22	217	184	12 2	33
5	58·8	13 6	66·4	53·0	6 40	13·4	576	18 56	605	555	9 41	50	205	17 28	226	183	11 50	43
6	59·5	13 32	67·2	53·8	3 52	13·4	581	22 46	600	555	9 15	45	204	17 31	221	178	12 45	43
7	58·7	14 4	68·0	52·7	7 36	15·3	577	21 15	616	529	10 32	87	205	17 40	222	184	12 50	38
8	58·0	14 14	66·3	53·4	7 0	12·9	580	15 40	608	560	12 29	48	204	18 0	227	181	12 30	46
9	59·0	14 30	65·5	54·6	6 44	10·9	577	20 12	600	543	11 20	57	208	17 45	222	192	11 28	30
10 *	58·8	13 35	67·3	51·3	8 48	16·0	579	17 55	605	538	9 30	67	200	17 55	213	175	10 0	38
11	59·0	13 55	67·3	53·4	7 30	13·9	588	18 57	621	562	9 58	59	202	17 27	217	181	11 5	36
12	59·4	14 27	66·5	52·7	7 51	13·8	582	18 19	610	549	9 36	61	203	18 20	219	179	12 4	40
13 **	59·0	12 55	66·4	49·8	23 50	16·6	575	24 0	607	538	13 36	69	210	17 45	226	196	10 35	30
14 **	60·0	12 59	69·3	51·1	18 55	18·2	573	0 2	610	533	9 18	77	207	18 53	237	183	11 50	54
15	58·3	12 25	62·2	52·1	23 37	10·1	579	22 20	619	546	10 15	73	209	17 25	225	193	10 5	32
16	57·2	12 51	64·9	46·8	1 0	18·1	573	0 3	605	549	8 20	56	204	18 30	215	188	12 0	27
17	58·5	14 2	65·0	53·3	8 40	11·7	575	20 32	598	549	10 20	49	205	18 6	221	184	12 10	37
18 *	58·7	12 45	66·3	52·6	7 53	13·7	577	15 6	595	544	11 15	51	205	19 20	215	183	12 28	32
19 *	58·3	13 5	63·4	53·9	6 26	9·5	579	18 48	601	555	8 7	46	205	6 26	215	189	11 40	26
20 *	58·7	13 23	63·2	55·2	5 12	8·0	586	19 0	601	567	8 50	34	202	4 50	209	183	11 50	26
21	59·2	12 57	67·8	52·7	6 38	15·1	586	16 43	610	568	8 22	42	201	18 0	212	179	11 40	33
22	60·0	12 38	69·6	54·0	7 0	15·6	579	16 49	606	531	19 16	75	206	19 29	242	175	12 1	67
23 **	58·7	12 46	66·4	52·2	2 10	14·2	572	1 52	615	540	9 39	75	207	15 29	226	190	2 9	36
24 *	58·8	13 8	65·6	54·4	6 37	11·2	573	21 13	588	544	8 30	44	206	16 30	216	184	11 8	32
25	59·4	13 3	67·7	54·7	8 25	13·0	576	21 7	592	549	10 30	43	207	16 35	220	184	11 20	36
26	59·2	12 45	67·0	55·2	8 25	11·8	582	20 40	603	554	9 58	49	204	17 30	214	180	11 10	34
27	59·2	13 20	67·6	53·9	20 21	13·7	586	23 36	622	551	10 25	71	204	20 24	215	183	12 3	32
28 **	55·7	13 33	66·0	35·7	3 58	30·3	561	2 13	689	503	9 9	186	203	16 44	233	119	3 51	114
29	57·9	14 8	64·7	52·6	7 44	12·1	567	23 20	591	542	9 52	49	208	17 20	221	189	11 40	32
30	58·6	12 5	64·2	55·0	6 40	9·2	573	20 0	591	547	9 36	44	207	4 50	215	189	10 22	26
31	58·6	11 36	62·9	55·3	6 20	7·6	577	22 57	605	558	10 19	47	208	15 20	217	197	12 5	20
Mean	58·8	-	66·0	52·5	-	13·5	577	-	609	547	-	61·9	205	-	220	182	-	38·7
Mean *	58·7	-	65·2	53·5	-	11·7	579	-	598	550	-	48·4	204	-	214	183	-	30·8
Mean **	58·4	-	67·1	47·5	-	19·6	571	-	629	531	-	98·0	204	-	230	170	-	60·2

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
September	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	58·1	12 55	65·0	52·8	8 0	12·2	578	18 40	608	545	11 0	63	205	5 0	212	189	12 20	23
2	57·7	12 36	64·2	52·8	1 4	11·4	577	3 50	594	556	11 20	38	207	17 40	215	191	11 48	24
3	58·2	11 59	63·8	53·5	7 10	10·3	582	23 32	605	559	9 0	46	205	7 2	213	194	11 0	19
4 **	57·6	12 0	66·1	50·2	20 0	15·9	571	1 50	618	516	8 0	102	206	18 36	222	193	{7 18 / 11 40}	29
5	58·4	13 2	66·4	52·9	7 0	13·5	573	18 8	598	540	15 40	58	208	17 58	225	192	11 59	33
6	57·4	12 31	65·0	53·1	7 43	11·9	575	21 48	603	550	10 20	53	210	15 20	219	201	9 32	18
7	58·0	13 26	65·0	52·6	7 58	12·4	578	22 10	597	545	11 39	52	208	16 40	218	193	10 12	25
8	58·1	13 3	65·0	52·4	7 22	12·6	578	20 58	625	550	10 10	75	207	15 35	217	191	11 3	26
9	58·0	13 2	65·3	52·7	7 30	12·6	582	0 30	603	559	10 45	44	203	19 30	212	181	10 10	31
10 *	58·2	12 26	64·1	53·8	7 36	10·3	581	15 50	596	557	9 20	39	202	18 35	211	179	11 35	32
11	57·5	12 58	64·3	47·3	21 57	17·0	580	21 9	634	548	18 48	86	205	19 30	227	190	10 45	37
12 **	58·5	12 53	66·5	52·9	3 36	13·6	576	1 30	628	541	13 10	87	204	17 56	220	177	2 0	43
13	58·1	15 7	65·9	51·1	19 18	14·8	578	17 21	599	555	11 45	44	206	19 24	226	188	11 40	38
14 *	58·2	12 54	62·5	54·8	7 5	7·7	579	19 0	594	562	9 50	32	205	21 42	213	194	12 0	19
15 *	58·3	13 20	64·0	55·3	6 40	8·7	582	23 5	594	560	9 40	34	205	6 49	211	191	11 10	20
16	57·8	12 59	62·9	52·1	24 0	10·8	585	24 0	612	568	20 54	44	204	19 25	214	185	14 9	29
17 **	57·9	14 43	70·2	47·6	2 3	22·6	567	21 58	635	480	9 35	155	209	16 37	263	174	4 56	89
18 **	56·4	14 16	69·5	42·8	21 50	26·7	558	21 34	616	490	15 55	126	220	17 20	298	189	{3 20 / 23 54}	109
19	56·2	1 3	63·7	47·5	0 7	16·2	561	1 10	582	523	0 34	59	216	7 35	230	180	1 18	50
20	58·3	11 59	64·5	52·2	7 50	12·3	571	21 2	587	523	10 32	64	213	15 9	221	202	11 10	19
21	57·7	14 10	65·9	51·0	22 20	14·9	573	20 38	596	548	15 20	48	212	17 45	225	196	11 40	29
22	57·4	12 52	63·2	53·1	0 6	10·1	571	20 2	586	544	10 53	42	211	16 33	217	200	12 0	17
23 *	57·9	12 50	64·3	52·6	8 12	11·7	576	20 10	591	547	9 40	44	208	17 20	216	194	11 33	22
24 *	58·0	13 6	65·6	52·5	8 50	13·1	584	22 0	608	547	10 20	61	205	7 0	213	180	12 10	33
25	57·4	12 18	64·9	51·3	8 45	13·6	587	5 40	613	548	11 16	65	204	19 32	218	182	11 15	36
26	57·4	13 20	63·2	53·2	8 32	10·0	579	20 15	600	544	10 30	56	207	17 42	219	192	11 50	27
27	57·6	14 56	63·5	52·3	7 18	11·2	573	20 32	600	510	12 0	90	206	18 30	215	192	10 10	23
28	57·3	13 33	63·6	53·0	8 20	10·6	576	0 28	598	542	11 23	56	205	19 20	214	193	12 0	21
29	57·9	13 8	64·1	53·2	8 18	10·9	581	6 29	605	559	10 30	46	208	18 28	222	193	11 2	29
30 **	58·0	12 44	67·4	50·0	23 21	17·4	574	5 54	603	527	11 20	76	210	20 30	228	190	11 10	38
Mean	57·8	-	65·0	51·8	-	13·2	576	-	604	541	-	62·8	207	-	222	190	-	32·9
Mean *	58·1	-	64·1	53·8	-	10·3	580	-	597	555	-	42·0	205	-	213	188	-	25·2
Mean **	57·7	-	67·9	48·7	-	19·2	569	-	620	511	-	109·2	210	-	246	185	-	61·6
October	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	56·5	13 3	62·4	47·6	20 28	14·8	570	20 50	591	541	10 20	50	213	7 46	220	204	12 3	16
2	58·4	13 47	66·6	53·8	8 24	12·8	574	6 5	591	543	10 50	48	210	15 22	220	196	11 52	24
3 *	57·8	12 23	63·8	52·9	8 40	10·9	576	18 55	589	547	12 46	42	210	16 42	219	201	12 2	18
4 *	57·7	13 33	63·4	52·3	8 57	11·1	581	20 15	595	553	10 25	42	209	8 0	219	202	12 36	17
5	58·0	14 10	67·6	52·1	8 43	15·5	568	4 2	596	530	18 36	66	216	19 20	239	201	9 50	38
6	57·4	13 46	65·1	52·0	8 48	13·1	575	21 10	601	540	11 20	61	210	0 0	221	186	11 32	35
7	56·8	13 20	63·4	45·5	23 15	17·9	578	19 40	629	544	21 42	85	208	21 45	220	190	22 26	30
8	58·0	15 56	66·3	51·0	0 9	15·3	570	22 57	588	541	12 18	47	213	15 43	230	197	11 42	33
9	58·0	14 1	63·4	54·8	8 45	8·6	575	5 58	595	552	10 16	43	211	16 40	221	195	12 2	26
10 *	58·0	12 30	64·0	53·3	8 15	10·7	576	17 45	591	545	10 16	46	211	8 0	219	198	11 2	21
11 *	57·8	13 8	63·6	53·3	8 24	10·3	581	22 3	601	550	10 56	51	211	7 35	219	192	10 54	27
12 **	57·8	13 36	71·1	45·9	18 15	25·2	572	10 18	618	497	18 1	121	214	{14 30 / 18 12}	246	178	10 40	68
13	57·3	11 50	63·3	51·3	23 51	12·0	563	{19 56 / 23 07}	588	528	8 31	60	212	16 20	225	195	0 9	30
14	56·8	14 11	63·4	46·7	21 49	16·7	567	21 52	610	539	13 31	71	212	17 29	226	198	12 38	28
15	57·5	12 20	64·7	53·6	8 22	11·1	569	21 15	587	543	11 10	44	214	17 47	226	195	11 2	31
16 **	58·3	14 35	68·8	52·3	18 38	16·5	564	7 19	587	525	14 42	62	218	16 43	237	205	10 20	32
17	57·9	13 12	65·4	48·6	19 52	16·8	564	23 57	594	525	10 0	69	218	16 20	233	204	10 55	29
18	57·7	12 37	63·4	53·5	7 57	9·9	568	0 11	594	543	10 40	51	216	20 22	228	204	9 30	24
19	57·2	12 18	64·9	46·7	21 40	18·2	572	21 5	647	547	22 9	100	216	19 20	228	198	24 0	30
20	56·1	12 26	63·4	48·2	1 9	15·2	573	20 43	603	558	1 35	45	211	15 12	220	188	1 7	32
21	56·9	12 41	60·8	51·4	22 39	9·4	577	21 49	614	556	11 37	58	214	15 40	222	203	{11 4 / 22 18}	19
22	57·9	14 36	66·6	53·2	22 58	13·4	571	18 35	589	539	15 39	50	213	17 17	234	188	11 2	46
23	57·2	13 5	62·3	53·5	8 4	8·8	576	23 44	600	552	10 53	48	214	17 54	223	199	10 55	24
24 **	56·4	12 5	68·9	41·3	22 57	27·6	558	17 21	642	482	11 40	160	213	19 41	261	184	10 56	77
25 **	55·8	14 13	70·8	31·0	1 33	39·8	544	1 0	598	479	9 40	119	215	17 30	268	161	1 53	107
26 *	56·7	11 59	60·4	53·3	0 48	7·1	561	19 59	577	533	10 30	44	220	1 1	225	205	11 3	20
27	55·4	12 8	61·6	30·3	24 0	31·3	560	5 45	581	494	24 0	87	219	20 25	238	172	23 55	66
28 **	54·2	13 2	63·7	29·5	0 10	34·2	547	20 20	626	487	1 53	139	216	18 20	240	156	1 28	84
29	56·8	12 45	62·6	51·7	21 58	10·9	564	21 16	595	534	10 38	61	220	17 30	230	204	10 40	26
30	56·5	12 34	62·9	53·1	17 6	9·8	567	17 18	583	524	13 9	59	219	13 53	229	205	10 41	24
31	56·9	12 50	61·5	53·8	23 29	7·7	574	22 1	605	557	11 20	48	216	19 35	220	200	10 30	20
Mean	57·2	-	64·5	49·0	-	15·5	569	-	600	533	-	67·0	214	-	229	194	-	35·5
Mean *	57·6	-	63·0	53·0	-	10·0	575	-	591	546	-	45·0	212	-	220	200	-	20·6
Mean **	56·5	-	68·7	40·0	-	28·7	557	-	614	494	-	120·2	215	-	250	177	-	73·6

* International Quiet Day. ** International Disturbed Day.

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
November	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	56·8	12 40	60·8	54·3	8 20	6·5	577	22 59	588	568	2 11	20	215	22 52	220	205	10 30	15
2 *	56·7	12 10	61·3	54·1	{15 8	7·2	575	19 12	587	518	10 40	69	215	17 50	221	200	10 57	21
3	57·1	12 52	61·3	54·3	9 40	7·0	579	22 59	602	563	13 11	39	214	14 38	220	200	10 58	20
4	57·3	13 10	63·2	52·5	21 22	10·7	585	13 8	604	569	12 24	35	211	22 45	221	198	10 41	23
5	56·1	13 44	61·9	49·1	3 2	12·8	570	2 40	595	535	11 18	60	216	14 50	225	201	3 0	24
6 *	56·6	13 33	59·7	53·4	9 8	6·3	578	7 1	595	550	11 21	45	214	17 30	223	203	12 1	20
7	56·7	12 32	59·6	53·7	9 43	5·9	584	7 42	597	568	11 23	29	213	14 46	218	200	11 1	18
8	55·7	12 50	62·4	41·3	20 53	21·1	575	14 29	599	516	18 45	83	213	19 22	246	195	12 0	51
9 **	56·9	7 17	76·7	43·3	19 25	33·4	548	7 41	599	471	9 50	128	221	16 50	255	193	3 22	62
10	56·4	3 3	60·8	50·0	0 57	10·8	565	22 37	585	538	10 30	47	217	14 36	229	201	0 45	28
11 **	56·9	6 27	63·8	45·5	18 53	18·3	560	3 36	599	522	12 27	77	220	15 35	240	203	4 30	37
12 **	56·1	1 28	60·6	43·0	19 48	17·6	570	20 2	613	541	9 53	72	215	19 54	229	199	6 36	30
13	55·9	6 32	59·6	52·2	18 12	7·4	567	23 45	596	543	13 23	53	219	17 30	233	209	10 58	24
14	56·7	12 32	61·3	53·9	0 3	7·4	564	0 0	587	536	11 36	51	218	18 48	233	203	11 1	30
15	57·3	17 48	61·7	53·6	1 28	8·1	575	17 2	597	553	11 36	44	217	19 30	229	207	10 55	22
16 **	56·1	13 24	62·9	50·0	18 7	12·9	574	22 21	648	550	13 51	98	217	18 27	230	196	22 55	34
17	56·4	11 32	61·7	49·8	0 18	11·9	572	23 10	587	534	12 5	53	215	12 41	225	205	0 0	20
18	56·6	12 40	59·8	54·8	5 55	5·0	578	20 8	590	566	11 24	24	216	16 13	221	209	7 30	12
19	56·7	12 31	59·8	54·6	22 42	5·2	583	3 50	589	573	13 28	16	214	16 40	220	206	10 10	14
20	56·4	11 57	59·2	54·4	23 35	4·8	580	7 59	589	573	11 0	16	215	16 42	223	204	10 5	19
21	56·6	11 32	59·0	52·6	23 32	6·4	585	13 18	596	568	23 44	28	212	17 50	219	198	11 0	21
22	56·6	12 39	60·0	53·3	0 31	6·7	583	17 56	592	570	2 30	22	213	16 40	219	203	10 52	16
23	56·9	12 55	61·0	55·3	5 42	5·7	581	15 3	590	565	17 50	25	213	18 20	219	201	10 55	18
24 *	56·8	12 16	60·2	54·5	23 20	5·7	582	6 10	594	571	13 40	23	212	17 30	219	201	11 0	18
25	56·7	16 20	59·3	52·5	20 50	6·8	583	0 3	591	559	20 46	32	212	21 0	221	198	10 30	23
26 *	56·8	12 32	60·1	54·5	21 40	5·6	583	17 30	591	573	10 24	18	212	17 30	217	197	10 44	20
27	56·8	12 50	60·1	54·4	0 17	5·7	589	21 43	602	574	0 40	28	210	17 40	216	199	12 4	17
28	56·4	12 10	59·0	54·0	23 10	5·0	589	8 50	600	571	21 27	29	210	17 30	218	202	11 2	16
29 **	56·0	10 32	60·0	43·4	19 50	16·6	577	6 40	601	549	19 42	52	215	20 0	227	201	10 0	26
30	56·3	12 13	59·6	54·5	21 1	5·1	578	5 30	586	564	10 47	22	215	{0 20 14 20	219	207	10 50	12
Mean	56·6	-	61·2	51·6	-	9·7	576	-	596	552	-	44·6	215	-	225	201	-	23·7
Mean *	56·7	-	60·4	54·2	-	6·3	579	-	591	556	-	35·0	214	-	220	201	-	18·8
Mean **	56·4	-	64·8	45·0	-	19·8	566	-	612	527	-	85·4	217	-	236	198	-	37·8
December	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	56·5	12 52	59·0	54·6	7 38	4·4	583	7 42	588	574	10 48	14	212	0 10	217	201	10 55	16
2	56·3	12 2	58·6	49·5	23 20	9·1	587	12 40	597	564	22 54	33	209	22 45	217	201	9 50	16
3 *	56·2	11 1	58·7	54·1	{9 10 23 18	4·6	584	12 27	594	573	22 50	21	212	17 40	217	201	10 55	16
4 *	56·4	12 37	58·8	54·6	0 0	4·2	584	20 9	593	574	11 40	19	212	16 20	217	205	9 25	12
5	56·1	13 18	58·8	50·1	20 59	8·7	587	18 32	606	560	23 26	46	210	21 7	219	199	10 59	20
6	56·0	13 20	61·8	47·0	21 6	14·8	571	4 36	594	535	14 53	59	215	17 30	231	203	9 25	28
7	55·6	11 49	59·2	47·5	24 0	11·7	579	0 48	593	553	23 5	40	210	17 35	221	201	11 1	20
8	56·0	5 12	60·6	47·6	0 0	13·0	574	5 59	607	554	13 50	53	213	14 33	230	194	9 45	36
9	55·7	11 41	60·0	49·8	0 55	10·2	574	23 36	599	541	15 30	58	214	16 1	227	206	2 46	21
10	56·4	3 58	60·0	53·4	0 10	6·6	583	7 52	593	574	0 45	19	212	17 45	222	202	10 52	20
11 *	56·2	12 45	58·3	54·5	21 0	3·8	581	7 30	595	568	13 34	27	212	17 40	221	203	10 25	18
12	56·2	13 48	58·7	53·3	20 18	5·4	582	6 41	594	565	12 40	29	212	20 47	219	204	11 8	15
13	56·1	18 15	67·0	38·1	23 15	28·9	573	12 44	613	484	23 23	129	220	22 36	266	203	13 5	63
14 **	54·8	13 59	73·5	29·0	2 34	44·5	524	4 42	621	425	12 40	196	223	14 10	284	155	7 13	129
15	55·0	13 33	57·8	45·3	22 30	12·5	551	7 50	566	530	0 4	36	230	22 50	238	223	7 30	15
16	55·1	13 26	57·5	52·7	23 30	4·8	563	19 50	590	550	0 23	40	224	0 10	232	217	23 45	15
17	56·0	0 35	60·7	50·9	2 36	9·8	564	5 15	592	523	15 9	69	223	16 20	241	207	1 50	34
18	55·7	10 28	58·1	52·9	0 5	5·2	569	12 12	580	557	17 25	23	224	16 48	233	214	9 25	19
19	55·3	11 35	58·8	40·0	23 2	18·8	576	23 10	661	509	23 46	152	222	22 55	234	206	23 32	28
20 **	55·3	18 38	64·4	44·9	0 0	19·5	559	13 7	587	501	21 3	86	230	20 21	256	214	11 5	42
21	55·3	6 3	60·4	45·2	2 1	15·2	565	3 53	599	526	0 30	73	222	0 13	240	205	6 57	35
22 *	55·4	12 58	58·4	53·8	22 24	4·6	574	19 9	586	559	0 30	27	222	16 25	227	214	9 51	13
23	56·4	21 35	64·9	51·6	20 50	13·3	579	16 19	611	525	20 44	86	221	21 51	248	208	9 25	40
24	55·4	12 2	59·9	53·5	2 53	6·4	572	9 50	594	539	13 31	55	224	{0 0 15 8	236	207	11 7	29
25 **	54·9	11 58	62·4	39·4	16 50	23·0	570	8 11	608	482	16 29	126	223	18 42	260	204	11 4	56
26 **	54·1	1 40	61·0	46·6	20 9	14·4	563	20 14	591	526	12 10	65	222	18 35	241	198	2 0	43
27 **	54·4	13 48	60·7	34·0	19 4	26·7	567	23 18	604	512	14 1	92	222	19 22	245	209	10 30	36
28	55·1	1 10	61·8	45·2	21 48	16·6	566	21 58	636	508	15 21	128	222	15 40	251	210	22 48	41
29	55·3	4 20	60·3	48·1	21 35	12·2	570	18 33	590	547	16 22	43	221	16 40	232	211	4 51	21
30	55·6	0 36	58·2	52·9	20 37	5·3	575	7 18	588	564	13 40	24	220	20 29	229	213	1 2	16
31	56·1	13 2	59·9	53·8	1 40	6·1	583	21 58	599	562	14 15	37	216	0 7	224	208	10 52	16
Mean	55·6	-	60·6	48·2	-	12·4	572	-	599	538	-	61·4	219	-	235	205	-	30·0
Mean *	56·1	-	58·6	54·3	-	4·3	581	-	591	570	-	21·6	214	-	220	205	-	15·0
Mean **	54·7	-	64·4	38·8	-	25·6	557	-	602	489	-	113·0	224	-	257	196	-	61·2

* International Quiet Day. ** International Disturbed Day.

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1945.* (SEE INTRODUCTION PAGE xii).

Date	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	2222 3243	20	2201 2101	9	1112 1100	7	2455 5544	34	4322 2231	19	0101 2121	8
2	4221 3322	19	0122 3433	18	0011 3311	10	5331 2331	21	3333 3321	21	0113 2122	12
3	1112 1241	13	3301 1201	11	3233 1321	18	1210 1110	7	4233 3433	25	1221 2110	10
4	0110 2344	15	0212 2112	11	1111 1123	11	1120 3311	12	1222 1223	15	0111 3111	9
5	2111 2120	10	3443 2231	22	2122 3455	24	0013 2364	19	1111 3322	14	0111 1322	11
6	3111 1023	12	4223 2121	17	3222 3443	23	2333 3533	25	1122 3331	16	2344 4434	28
7	1212 2112	12	1112 1131	11	3132 2321	17	4343 1215	23	0122 2113	12	3333 3343	25
8	1110 2211	9	3333 3414	24	3433 3411	22	3333 3312	21	1131 2121	12	3333 3433	25
9	1111 1325	15	3233 3334	24	0012 1334	14	1110 0010	4	1121 3544	21	2122 2443	20
10	5443 3330	25	2323 0121	14	2211 1113	12	1111 3101	9	1121 3234	17	3333 2433	24
11	1000 0011	3	3332 1321	18	6434 4442	31	0124 5435	24	1333 3443	24	3221 4331	19
12	0011 2232	11	2231 1213	15	3325 5565	34	4433 2454	29	3321 2244	21	0121 3221	12
13	3321 1100	11	1101 1001	5	3223 3211	17	3232 3233	21	1121 2443	18	1133 2311	15
14	1111 2112	10	0121 2133	13	0121 2344	17	5313 3344	26	2101 2413	14	2213 1221	14
15	1443 4553	29	4333 4354	29	6443 4646	37	3234 3223	22	1111 1112	9	2212 3111	13
16	4333 2234	24	5323 4353	28	4334 3544	30	1011 2222	11	3311 2333	19	1112 2222	13
17	3213 2342	20	2223 2453	23	3111 1234	16	2112 1300	10	3222 3333	21	2324 3411	20
18	1011 1134	12	3232 2113	17	2222 3333	20	0112 1112	9	3112 3434	21	1221 2231	14
19	2322 1342	19	2222 1012	12	3221 1111	12	3223 3234	22	3212 3434	22	1111 1232	12
20	2322 3211	16	1122 2211	12	3212 2155	21	3334 3320	21	3332 1310	16	2222 2211	14
21	1111 1113	10	1111 0111	7	1222 1251	16	1001 1113	8	1213 3421	17	1211 2201	10
22	1111 2212	11	1112 3223	15	1211 1001	7	2012 2344	18	1112 2321	13	0010 1310	6
23	1111 1012	8	2113 3322	17	1111 0111	7	1223 3534	23	1332 2321	17	0012 2210	8
24	0011 0100	3	2222 2232	17	0112 3332	15	4233 2342	23	2332 3330	19	1211 3021	11
25	0001 1000	2	4323 1153	22	3110 2424	17	3222 2202	15	2433 3343	25	3311 1131	14
26	0012 2332	13	1211 2555	22	5454 5555	38	0010 2110	5	2121 2342	17	1110 1122	9
27	2112 2120	11	3231 4363	25	3323 3445	27	2211 1111	10	2112 3443	20	2333 3321	20
28	3111 1344	18	2211 1341	15	3356 6432	32	0100 1101	4	0112 3432	16	1112 2312	13
29	5532 3555	33			1333 3313	20	1012 3332	15	4122 2332	19	1111 2100	7
30	3422 3312	20			1222 2200	11	2233 2443	23	3223 4544	27	0222 4533	21
31	1111 2013	10			1010 0223	9			3233 3420	20		

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

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1945.* (SEE INTRODUCTION PAGE xii).

Date	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	5443 5543	33	1112 1332	14	1011 3233	14	3111 1143	15	1021 2212	11	0110 1111	6
2	4212 3323	20	4422 3333	24	2223 3212	17	0132 3310	13	1111 1120	8	1110 2113	10
3	4312 2111	15	3211 3221	15	1021 1102	8	1111 2100	7	0011 1103	7	1011 2011	7
4	1334 4433	25	1111 2013	10	4244 4342	27	0011 1111	6	2011 3133	14	1001 0000	2
5	3344 2233	24	2222 3430	18	3233 2432	22	2222 1333	18	3312 2210	14	0101 0233	10
6	4354 3322	26	2332 3322	20	2112 2223	15	1011 2123	11	0022 1100	6	2112 3343	19
7	1211 3345	20	1133 1123	15	1122 3112	13	2111 2145	17	0011 1111	6	3212 0023	13
8	3422 3333	23	2111 3322	15	1111 2143	14	3113 2311	15	0011 2454	17	3333 3222	21
9	3122 3321	17	1121 3211	12	2121 2212	13	1222 1200	10	4454 3543	32	4122 2323	19
10	1111 3321	13	0121 2221	11	2012 2121	11	0021 3110	8	4332 2113	19	1222 1101	10
11	1110 3321	12	3111 1233	15	1122 2355	21	0011 2101	6	2332 3341	21	1011 1110	6
12	1213 3211	14	2221 1312	14	4323 3222	21	1135 4554	28	4333 1353	25	0101 2121	8
13	1212 2201	11	2132 3314	19	1122 3342	18	3132 1133	17	1232 1233	17	0111 4454	20
14	0113 4210	12	3333 3442	25	2111 1110	8	2121 3444	21	2122 1231	14	5665 5411	33
15	1212 2210	11	2122 2334	19	1111 1111	8	2212 2212	14	2132 2332	18	1232 3224	19
16	1211 4333	18	4122 3312	18	1112 3323	16	1231 4431	19	2112 3335	20	1111 1032	10
17	2123 2553	23	1111 3311	12	5434 4545	34	0223 1342	17	3223 4111	17	4312 4312	20
18	3221 3223	18	0012 3211	10	5444 4545	35	3122 2132	16	1111 1110	7	2011 2222	12
19	3322 1123	17	0121 1111	8	4121 1232	17	2111 2245	18	0100 1110	4	1011 1346	17
20	0011 3111	8	0121 2000	6	3223 1221	16	3211 3133	17	0111 1011	6	4343 1354	27
21	1013 2311	12	1113 3321	15	0011 3333	14	1012 1234	14	0001 2023	8	3433 2212	20
22	1111 2130	10	0221 2443	18	2211 2111	11	1011 3333	15	3100 1111	8	1101 1111	7
23	1111 3345	19	4422 2201	17	1131 1000	7	2011 2113	11	0000 1321	7	1011 1354	16
24	4222 3220	17	0321 2100	9	0011 1112	7	3344 5555	34	0101 1111	6	3233 3411	20
25	2222 2211	14	0111 1211	8	1213 3223	17	6534 4431	30	1000 2132	9	1033 4554	25
26	1112 2221	12	0021 2212	10	2012 2321	13	2011 2101	8	0111 1101	6	4333 4343	27
27	1011 2300	8	2121 2333	17	1224 4122	18	1111 2335	17	1110 1012	7	3333 5454	30
28	2234 4333	24	5532 3343	28	3222 2221	16	5423 3454	30	0111 1122	9	4333 4535	30
29	3112 2334	19	3122 2212	15	1231 1331	15	2112 2333	17	2231 3243	20	1313 2333	19
30	4423 4323	25	1121 2111	10	3343 2243	24	2111 3311	13	1101 1111	7	2211 2121	12
31	3111 1102	10	1121 1133	13			2101 1113	10			2221 3113	15

* Corresponding figures for the years 1929-1939 are given in an Appendix to the Magnetic and Meteorological Results, 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, 1945.	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.	-149	-122	-104	-072	-062	-026	+006	+015	-015	+037	+083	+185	***+296***	+257	+182	+119	+090	+026	+033	-084	-133	-180	-184	***-189***
Feb.	-149	-139	-082	-052	-045	-011	-018	-056	-118	-123	-016	+175	+307	+380	***+387***	+220	+140	+085	-051	-085	-189	-191	***-196***	-172
Mar.	-128	-167	-132	-087	-116	-089	-107	-165	-239	-178	+050	+326	+505	***+565***	+491	+346	+209	+024	-127	-160	-210	***-240***	-203	-179
April	-110	-033	-053	-127	-183	-187	-260	-354	***-377***	-246	+016	+311	+566	***+601***	+503	+371	+187	+027	-043	-042	-125	-120	-175	-157
May	-105	-151	-186	-185	-217	-316	-375	***-413***	-368	-208	+046	+334	+538	***+613***	+574	+458	+290	+147	+035	-034	-090	-136	-137	-104
June	-080	-095	-086	-123	-229	-350	-418	***-473***	-452	-307	-071	+213	+404	***+513***	+506	+441	+322	+215	+111	+045	-012	-021	-033	-027
July	-103	-173	-172	-234	-284	-388	-435	***-438***	-386	-239	-012	+260	+492	***+589***	+560	+437	+320	+203	+110	+087	+030	-012	-120	-102
Aug.	-136	-159	-191	-206	-246	-355	***-411***	-407	-368	-179	+080	+363	+578	***+625***	+532	+382	+226	+105	+023	-005	-026	-025	-063	-127
Sept.	-161	-129	-135	-124	-134	-168	-257	***-337***	-332	-227	+025	+335	+558	***+574***	+513	+374	+208	+087	+011	-038	-109	-140	-180	-226
Oct.	-222	-242	-168	-139	-090	-113	-120	-215	***-302***	-188	+118	+409	***+574***	+569	+480	+337	+187	+103	+008	-053	-179	-254	-253	-256
Nov.	***-162***	-116	-070	-063	-068	-061	-012	+003	-091	-092	+066	+211	***+302***	+298	+201	+161	+098	+065	+007	-103	-152	-150	-140	-136
Dec.	-179	-114	-126	-085	-069	-006	+027	+030	+023	+046	+147	+189	+237	***+248***	+153	+155	+102	+064	-003	-069	-126	-178	-225	***-246***
Year	-140	-137	-125	-125	-145	-173	-198	-234	***-252***	-159	+044	+276	+446	***+486***	+424	+317	+198	+096	+010	-048	-110	-137	-159	-160
Winter	-160	-123	-096	-068	-061	-026	+001	-002	-050	-033	+070	+190	+286	***+296***	+231	+164	+108	+060	-004	-085	-150	-175	***-186***	-186
Equinox	-155	-143	-122	-119	-131	-139	-186	-268	***-313***	-210	+052	+345	+551	***+577***	+497	+357	+198	+060	-038	-073	-156	-189	-203	-205
Summer	-106	-145	-159	-187	-244	-352	-410	***-433***	-394	-233	+011	+293	+503	***+585***	+543	+430	+290	+168	+070	+023	-025	-049	-088	-090

INCLINATION (unit 0′·01)

Jan.	+008	+001	000	-017	-037	-051	***-053***	-050	-032	-006	+024	+014	+008	-001	+002	+011	+013	+018	+024	***+035***	+030	+016	+013	+023
Feb.	-035	-029	-010	-012	-026	-057	***-074***	-072	-036	+035	***+059***	+042	+030	+010	+016	+044	+046	+028	+019	+020	+013	+015	+004	-024
Mar.	***-073***	-039	-013	-018	-043	-050	-068	-047	-005	+047	***+070***	+068	+028	+020	+031	+052	+065	+062	+048	+009	-013	-014	-047	-062
April	-049	-041	-040	-030	-023	-036	-028	+002	+030	+059	***+068***	+061	+058	+049	+040	+033	+024	+006	+001	-022	-042	-031	-044	***-050***
May	-035	-030	-021	-017	-015	-007	+025	+053	+080	***+084***	+074	+048	+022	+025	+007	-005	-016	-041	-040	-041	-041	***-047***	-034	-028
June	-030	-016	-010	-020	-038	-020	+006	+029	+051	+080	***+089***	+076	+061	+045	+031	-005	000	-022	-056	***-066***	-058	-050	-045	-037
July	-049	-037	-033	-033	-035	-036	-010	+043	+080	***+129***	+126	+107	+090	+061	+023	-013	-030	-033	-052	***-071***	-070	-067	-053	-041
Aug.	-051	-037	-048	-032	-012	-001	+029	+071	+110	***+129***	+104	+057	+022	+012	+015	+009	-005	-013	-038	-047	-063	-062	***-072***	-067
Sept.	-043	***-056***	-040	-043	-045	-038	-025	+020	+064	+098	***+109***	+088	+046	+021	+006	+017	+006	+007	+001	-013	-035	-053	-046	-044
Oct.	-039	-036	-031	-046	-061	***-071***	-060	-030	+018	+057	+077	***+092***	+082	+055	+047	+043	+039	+007	-001	+005	-034	-040	-034	-040
Nov.	-015	-001	-010	-029	-037	-042	-050	***-053***	-031	+015	+044	***+054***	+042	+031	+035	+024	+023	+022	+020	+012	-003	-001	-021	-022
Dec.	***+040***	+027	+011	-007	-047	-061	***-063***	-059	-058	-042	-012	+007	+016	+028	+036	+027	+030	+015	+011	+010	+015	+025	+027	+032
Year	-031	-025	-020	-025	-035	***-039***	-031	-008	+023	+057	***+069***	+060	+042	+030	+024	+020	+016	+005	-005	-014	-025	-026	-029	-030
Winter	-002	-001	-002	-016	-037	-053	***-060***	-059	-039	+001	***+029***	+029	+024	+017	+022	+027	+028	+021	+019	+019	+014	+014	+006	+002
Equinox	***-051***	-043	-031	-034	-043	-049	-045	-014	+027	+065	***+081***	+077	+054	+036	+031	+036	+034	+021	+012	-005	-031	-035	-043	-049
Summer	-041	-030	-028	-026	-025	-016	+013	+049	+080	***+106***	+098	+072	+049	+036	+019	-004	-013	-027	-047	-056	***-058***	-057	-051	-043

HORIZONTAL INTENSITY (unit 0·1γ)

Jan.	- 21	- 15	- 15	+ 11	+ 43	+ 62	+ 71	***+ 73***	+ 38	- 04	***- 49***	- 38	- 29	+ 05	+ 08	- 02	- 04	- 05	- 12	- 29	- 24	- 07	- 15	- 32
Feb.	+ 41	+ 25	- 01	+ 04	+ 36	+ 77	***+106***	+105	+ 48	- 61	***-106***	- 87	- 72	- 34	- 27	- 43	- 42	- 13	- 01	- 05	+ 04	- 05	+ 03	+ 41
Mar.	+ 89	+ 33	- 03	+ 12	+ 59	+ 70	***+103***	+ 73	00	- 93	-150	***-156***	- 93	- 58	- 45	- 38	- 45	- 34	- 16	+ 34	+ 49	+ 42	+ 74	+ 85
April	+ 68	+ 51	+ 43	+ 37	+ 31	+ 62	+ 53	+ 04	- 50	-121	-158	***-166***	-153	-107	- 55	- 22	+ 06	+ 43	+ 46	+ 73	***+ 97***	+ 67	+ 78	+ 79
May	+ 54	+ 40	+ 25	+ 29	+ 27	+ 21	- 28	- 76	-127	-158	***-166***	-148	-103	- 84	- 23	+ 20	+ 63	+113	***+113***	+107	+ 96	+ 93	+ 66	+ 49
June	+ 46	+ 23	+ 14	+ 37	+ 60	+ 38	- 04	- 44	- 82	-144	***-180***	-180	-150	-107	- 58	+ 16	+ 29	+ 73	+128	***+139***	+119	+ 94	+ 80	+ 63
July	+ 71	+ 51	+ 41	+ 47	+ 57	+ 57	+ 16	- 69	-134	-218	***-231***	-218	-194	-133	- 44	+ 32	+ 76	+ 94	+124	***+144***	+136	+123	+ 95	+ 73
Aug.	+ 78	+ 55	+ 67	+ 36	+ 23	+ 07	- 30	- 94	-169	***-218***	-204	-153	- 99	- 57	- 33	+ 06	+ 41	+ 64	+100	+104	***+122***	+114	+121	+109
Sept.	+ 63	+ 73	+ 49	+ 53	+ 64	+ 54	+ 45	- 23	-105	-168	***-204***	-181	-111	- 53	- 13	- 07	+ 26	+ 27	+ 35	+ 54	+ 80	***+ 98***	+ 75	+ 68
Oct.	+ 44	+ 36	+ 33	+ 56	+ 82	***+102***	+ 88	+ 51	- 28	-112	-164	***-188***	-158	- 96	- 55	- 33	- 23	+ 27	+ 37	+ 28	+ 81	+ 78	+ 55	+ 53
Nov.	+ 19	- 03	+ 08	+ 34	+ 46	+ 60	+ 62	***+ 69***	+ 36	- 43	- 95	***-104***	- 76	- 48	- 38	- 19	- 14	- 09	- 06	+ 06	+ 24	+ 13	+ 38	+ 30
Dec.	***- 53***	- 45	- 26	+ 01	+ 55	***+ 76***	+ 72	+ 67	+ 64	+ 33	- 09	- 33	- 42	- 45	- 37	- 22	- 23	+ 03	+ 11	+ 14	+ 05	- 17	- 22	- 38
Year	+ 42	+ 27	+ 20	+ 30	+ 49	+ 57	+ 46	+ 11	- 43	-109	***-143***	-138	-107	- 68	- 35	- 10	+ 08	+ 32	+ 47	+ 56	***+ 66***	+ 58	+ 54	+ 48
Winter	- 04	- 10	- 09	+ 13	+ 45	+ 69	+ 78	***+ 79***	+ 47	- 19	- 65	***- 66***	- 55	- 31	- 24	- 22	- 21	- 06	- 02	- 04	+ 02	- 04	+ 01	+ 00
Equinox	+ 66	+ 48	+ 31	+ 40	+ 59	+ 72	+ 72	+ 26	- 46	-124	-169	***-173***	-129	- 79	- 42	- 25	- 09	+ 16	+ 26	+ 47	***+ 77***	+ 71	+ 71	+ 71
Summer	+ 62	+ 42	+ 37	+ 37	+ 42	+ 31	- 12	- 71	-128	-185	***-195***	-175	-137	- 95	- 40	+ 19	+ 52	+ 86	+116	***+124***	+118	+106	+ 91	+ 74

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

"All" Days.

NORTH COMPONENT (Unit 0·1γ)

Month and Season, 1945.	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.	- 07	- 03	- 05	+ 18	+ 48	+ 64	+ 69	+ ***71***	+ 39	- 07	- 55	- 55	- ***56***	- 19	- 09	- 13	- 12	- 07	- 15	- 21	- 11	+ 10	+ 02	- 14
Feb.	+ 54	+ 38	+ 07	+ 09	+ 40	+ 77	+106	+***109***	+ 58	- 49	-***103***	-102	-100	- 69	- 63	- 63	- 55	- 21	+ 04	+ 03	+ 22	+ 13	+ 21	+ 57
Mar.	+100	+ 48	+ 10	+ 20	+ 69	+ 77	+***112***	+ 87	+ 22	- 75	-153	-***184***	-139	-110	- 90	- 70	- 64	- 36	- 04	+ 49	+ 68	+ 64	+ 92	+101
April	+ 77	+ 53	+ 47	+ 48	+ 48	+ 79	+ 77	+ 37	- 14	- 96	-157	-193	-***204***	-162	-101	- 56	- 12	+ 40	+ 49	+ 76	+***107***	+ 77	+ 93	+ 93
May	+ 63	+ 54	+ 42	+ 46	+ 47	+ 50	+ 08	- 36	- 91	-136	-168	-***177***	-152	-140	- 76	- 23	+ 35	+ 98	+108	+***109***	+103	+104	+ 78	+ 58
June	+ 53	+ 32	+ 22	+ 48	+ 81	+ 70	+ 35	+ 01	- 39	-113	-171	-***197***	-186	-153	-105	- 26	- 02	+ 52	+116	+***133***	+118	+ 95	+ 82	+ 65
July	+ 80	+ 66	+ 57	+ 68	+ 83	+ 92	+ 57	- 27	- 96	-192	-226	-***239***	-237	-186	- 96	- 09	+ 45	+ 74	+112	+***134***	+131	+122	+105	+ 81
Aug.	+ 90	+ 69	+ 84	+ 55	+ 46	+ 40	+ 09	- 55	-132	-198	-***208***	-185	-152	-115	- 82	- 30	+ 19	+ 53	+ 96	+103	+123	+115	+***125***	+119
Sept.	+ 77	+ 84	+ 61	+ 64	+ 76	+ 69	+ 68	+ 09	- 72	-144	-203	-***210***	-162	-106	- 61	- 42	+ 06	+ 19	+ 34	+ 57	+ 89	+***110***	+ 91	+ 88
Oct.	+ 64	+ 58	+ 48	+ 68	+ 89	+***111***	+ 98	+ 70	+ 01	- 93	-173	-***224***	-210	-148	- 99	- 64	- 40	+ 17	+ 36	+ 33	+ 97	+101	+ 78	+ 76
Nov.	+ 34	+ 08	+ 15	+ 39	+ 52	+ 65	+ 62	+ ***68***	+ 44	- 34	-100	-***122***	-103	- 75	- 56	- 34	- 23	- 15	- 07	+ 16	+ 38	+ 27	+ 51	+ 42
Dec.	- 35	- 34	- 14	+ 09	+ 61	+ ***76***	+ 68	+ 63	+ 61	+ 28	- 23	- 50	- 64	- ***68***	- 51	- 36	- 32	- 03	+ 11	+ 20	+ 17	00	- 01	- 14
Year	+ 54	+ 39	+ 31	+ 41	+ 62	+ 73	+ 64	+ 33	- 18	- 92	-145	-***162***	-147	-113	- 74	- 39	- 11	+ 23	+ 45	+ 59	+ ***75***	+ 70	+ 68	+ 63
Winter	+ 12	+ 02	+ 01	+ 19	+ 50	+ 71	+ 76	+ ***78***	+ 51	- 16	- 70	- ***82***	- 81	- 58	- 45	- 37	- 31	- 12	- 02	+ 05	+ 17	+ 13	+ 18	+ 18
Equinox	+ 80	+ 61	+ 42	+ 50	+ 71	+ 84	+ 89	+ 51	- 16	-102	-172	-***203***	-179	-132	- 88	- 58	- 28	+ 10	+ 29	+ 54	+ 90	+ 88	+ 89	+ ***90***
Summer	+ 72	+ 55	+ 51	+ 54	+ 64	+ 63	+ 27	- 29	- 90	-160	-193	-***200***	-182	-149	- 90	- 22	+ 24	+ 69	+108	+***120***	+119	+109	+ 98	+ 81

WEST COMPONENT (Unit 0·1γ)

Jan.	- 83	- 68	- 58	- 36	- 26	- 03	+ 16	+ 21	- 01	+ 19	+ 36	+ 92	+***153***	+138	+ 98	+ 63	+ 47	+ 13	+ 16	- 50	- 75	- 97	-101	-***106***
Feb.	- 72	- 70	- 44	- 27	- 18	+ 07	+ 09	- 12	- 55	- 76	- 27	+ 78	+151	+196	+***201***	+110	+ 67	+ 43	- 27	- 46	-100	-103	-***104***	- 85
Mar.	- 53	- 83	- 71	- 44	- 52	- 35	- 39	- 75	-***127***	-111	+ 01	+147	+253	+***291***	+254	+178	+104	+ 07	- 70	- 79	-103	-121	- 95	- 81
April	- 47	- 09	- 21	- 61	- 92	- 89	-129	-188	-***209***	-152	- 19	+137	+275	+***302***	+258	+194	+101	+ 22	- 15	- 10	- 50	- 52	- 80	- 70
May	- 47	- 74	- 95	- 94	-111	-165	-205	-***233***	-218	-138	- 04	+152	+269	+***312***	+302	+247	+165	+ 98	+ 38	+ 00	- 31	- 56	- 62	- 47
June	- 35	- 47	- 43	- 59	-112	-180	-223	-***259***	-255	-188	- 69	+ 82	+189	+255	+***259***	+238	+176	+127	+ 81	+ 48	+ 14	+ 05	- 04	- 04
July	- 43	- 83	- 85	-117	-141	-197	-229	-***245***	-229	-165	- 46	+101	+228	+***291***	+291	+238	+184	+124	+ 80	+ 71	+ 40	+ 15	- 48	- 42
Aug.	- 59	- 75	- 90	-104	-127	-188	-224	-***233***	-225	-133	+ 07	+167	+291	+***323***	+278	+204	+127	+ 67	+ 30	+ 15	+ 07	+ 06	- 13	- 49
Sept.	- 75	- 56	- 63	- 57	- 60	- 80	-129	-183	-***195***	-150	- 22	+147	+278	+***296***	+271	+198	+115	+ 51	+ 12	- 11	- 44	- 58	- 83	-109
Oct.	-111	-123	- 84	- 64	- 34	- 43	- 49	-106	-***166***	-120	+ 34	+185	+278	+***286***	+246	+174	+ 96	+ 60	+ 11	- 23	- 81	-122	-135	-127
Nov.	- ***83***	- 62	- 36	- 28	- 28	- 22	+ 04	+ 14	- 42	- 56	+ 19	+ 94	+148	+***150***	+100	+ 82	+ 50	+ 33	+ 03	- 54	- 77	- 78	- 68	- 67
Dec.	-105	- 69	- 72	- 45	- 27	+ 10	+ 27	+ 28	+ 23	+ 30	+ 77	+ 95	+119	+***124***	+ 75	+ 79	+ 50	+ 35	+ 00	- 34	- 66	- 98	-124	-***138***
Year	- 68	- 68	- 64	- 61	- 69	- 82	- 98	-123	-***142***	-103	- 01	+123	+219	+***247***	+219	+167	+107	+ 57	+ 13	- 14	- 47	- 63	- 76	- 77
Winter	- 86	- 67	- 53	- 34	- 25	- 02	+ 14	+ 13	- 19	- 21	+ 26	+ 90	+143	+***152***	+119	+ 84	+ 54	+ 31	- 02	- 46	- 80	- 94	- ***99***	- 99
Equinox	- 72	- 68	- 60	- 57	- 60	- 62	- 87	-138	-***174***	-133	- 02	+154	+271	+***294***	+257	+186	+104	+ 35	- 16	- 31	- 70	- 88	- 98	- 97
Summer	- 46	- 70	- 78	- 94	-123	-183	-220	-***243***	-232	-156	- 28	+126	+244	+***295***	+283	+232	+163	+104	+ 57	+ 34	+ 08	- 08	- 32	- 36

VERTICAL COMPONENT (Unit 0·1γ)

Jan.	- 20	- 30	- 33	- 36	- 29	- 30	- 18	- 05	- 20	- 30	- 30	- ***41***	- 37	+ 06	+ 24	+ 34	+ 36	+ 51	+ 55	+ ***56***	+ 47	+ 38	+ 11	+ 02
Feb.	- 23	- 42	- 38	- 32	- 08	- 19	- 12	- 04	- 13	- 20	- 42	- 57	- ***64***	- 45	- 07	+ 52	+ 62	+ ***67***	+ 64	+ 58	+ 54	+ 43	+ 22	+ 14
Mar.	- 46	- 58	- 51	- 36	- 09	- 12	+ 02	+ 08	- 16	- 53	-106	-***128***	-117	- 67	+ 02	+ 89	+120	+***134***	+128	+109	+ 68	+ 47	+ 09	- 19
April	- 10	- 24	- 37	- 16	- 06	+ 20	+ 29	+ 16	- 14	- 75	-133	-***178***	-154	- 81	+ 09	+ 61	+ 98	+***120***	+112	+ 93	+ 79	+ 48	+ 27	+ 10
May	+ 04	- 09	- 14	+ 08	+ 12	+ 25	+ 21	+ 08	- 18	- 75	-132	-***176***	-162	-107	- 28	+ 26	+ 89	+121	+***124***	+106	+ 83	+ 51	+ 34	+ 17
June	+ 06	- 03	- 05	+ 17	+ 06	+ 22	+ 11	- 04	- 14	- 59	-112	-***156***	-139	- 92	- 26	+ 21	+ 65	+ 92	+***103***	+ 95	+ 75	+ 44	+ 31	+ 16
July	- 02	- 11	- 17	- 02	+ 10	+ 08	+ 04	- 09	- 35	- 58	- 99	-135	-***139***	- 97	- 23	+ 32	+ 74	+105	+***108***	+ 90	+ 73	+ 55	+ 38	+ 26
Aug.	+ 05	- 01	- 12	- 26	+ 09	+ 15	+ 30	+ 29	- 15	- 60	-115	-***160***	-154	- 90	- 25	+ 44	+ 80	+***103***	+102	+ 81	+ 66	+ 52	+ 32	+ 21
Sept.	- 02	- 24	- 25	- 25	- 06	- 07	+ 18	+ 17	- 24	- 52	- 97	-***118***	-101	- 52	- 09	+ 43	+ 78	+ ***88***	+ 87	+ 81	+ 67	+ 45	+ 13	+ 07
Oct.	- 31	- 43	- 30	- 27	- 21	- 06	- 05	+ 15	- 03	- 64	-114	-***116***	- 82	- 34	+ 34	+ 72	+ 84	+ ***86***	+ 83	+ 83	+ 69	+ 40	+ 12	- 14
Nov.	- 06	- 10	- 16	- 22	- 21	- 06	- 26	- 23	- 23	- 47	- ***70***	- 57	- 31	- 02	+ 32	+ 37	+ 49	+ 55	+ ***57***	+ ***57***	+ 44	+ 28	+ 17	- 06
Dec.	+ 13	- 11	- 20	- 20	- 36	- 33	- 51	- 49	- 53	- ***68***	- 61	- 53	- 40	- 06	+ 38	+ 43	+ 53	+ 60	+ 64	+ ***65***	+ 61	+ 48	+ 43	+ 22
Year	- 09	- 22	- 25	- 18	- 08	- 02	+ 00	- 00	- 21	- 55	- 93	-***115***	-102	- 56	+ 02	+ 46	+ 74	+ 90	+ ***91***	+ 81	+ 66	+ 45	+ 24	+ 08
Winter	- 09	- 23	- 27	- 28	- 24	- 22	- 27	- 20	- 27	- 41	- 51	- ***52***	- 43	- 12	+ 22	+ 42	+ 50	+ 58	+ ***60***	+ 59	+ 52	+ 39	+ 23	+ 08
Equinox	- 22	- 37	- 36	- 26	- 11	- 01	+ 11	+ 14	- 14	- 61	-113	-***135***	-114	- 59	+ 09	+ 66	+ 95	+***107***	+103	+ 92	+ 71	+ 45	+ 15	- 04
Summer	+ 03	- 06	- 12	- 01	+ 09	+ 18	+ 17	+ 06	- 21	- 63	-115	-***157***	-149	- 97	- 26	+ 31	+ 77	+105	+***109***	+ 93	+ 74	+ 51	+ 34	+ 20

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, 1945.	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.	-064	-066	-060	-056	-070	-094	-086	-112	***-124***	-056	+044	+154	***+282***	+258	+156	+072	+074	+056	+034	-022	-058	-100	-102	-062
Feb.	-171	-111	-067	-039	-043	-025	-041	-081	-167	***-181***	-113	+073	+241	***+319***	***+319***	+203	+119	+079	+035	-005	-013	-101	-119	-117
Mar.	-061	-069	-051	-055	-103	-099	-119	-299	***-363***	-269	-011	+273	+471	***+493***	+423	+239	+085	+013	+013	-003	-051	-065	-109	-201
April	+030	-030	+028	-028	-140	-176	-288	-414	***-452***	-322	-064	+208	+446	***+504***	+396	+250	+114	+006	-040	-018	-010	-002	-002	+012
May	-076	-112	-110	-138	-206	-296	-338	***-356***	-316	-174	+032	+294	+452	***+500***	+440	+316	+184	+082	+008	-022	+002	-014	-080	-072
June	-056	-102	-106	-118	-194	-316	-386	***-428***	-414	-272	-038	+266	+400	***+416***	+392	+340	+226	+152	+082	+058	+042	+044	+022	-012
July	-050	-120	-124	-182	-270	-420	***-460***	-454	-434	-280	-034	+248	+488	***+598***	+590	+468	+292	+158	+082	+040	-038	-026	-026	-044
Aug.	-097	-121	-145	-127	-183	-287	-367	***-411***	-387	-249	-007	+295	+525	***+577***	+483	+321	+153	+055	+031	+015	+019	-011	-029	-061
Sept.	-157	-081	-067	-109	-123	-157	-239	-343	***-363***	-263	-053	+275	+527	***+533***	+437	+295	+181	+121	+039	-015	-097	-083	-103	-153
Oct.	-129	-143	-109	-099	-101	-105	-159	-291	***-403***	-315	-037	+287	+449	***+475***	+397	+251	+133	+117	+067	+009	-037	-077	-073	-103
Nov.	-112	-086	-076	-074	-068	-102	-086	-094	***-154***	***-154***	+018	+212	***+324***	+278	+178	+116	+092	+064	+022	-028	-044	-064	-076	-092
Dec.	-084	-044	-036	-020	-044	-066	-060	-080	-058	-026	+070	+150	***+200***	+180	+118	+094	+062	+034	-010	-036	-062	-092	***-100***	-094
Year	-086	-090	-077	-087	-129	-179	-226	-280	***-303***	-213	-016	+228	+400	***+428***	+361	+247	+143	+078	+030	-002	-029	-049	-066	-083
Winter	-108	-077	-060	-047	-056	-071	-068	-092	***-126***	-104	+005	+147	***+262***	+259	+193	+121	+087	+058	+020	-023	-044	-089	-099	-091
Equinox	-079	-081	-050	-073	-117	-134	-221	-337	***-395***	-292	-041	+261	+473	***+501***	+413	+259	+128	+064	+020	-007	-049	-057	-072	-111
Summer	-070	-114	-121	-141	-213	-330	-388	***-412***	-388	-244	-012	+276	+466	***+523***	+476	+361	+214	+112	+051	+023	+006	-002	-028	-047

INCLINATION (Unit 0′·01)

Jan.	+026	+027	+025	+011	+002	-009	-012	-018	+004	+033	***+040***	+039	+022	+001	-023	-024	***-035***	-034	-031	-029	-016	+002	+008	-006
Feb.	+015	+025	+013	+008	-005	-027	-052	***-065***	-044	+010	***+034***	+033	+020	-003	-004	+003	+017	+008	000	-012	+001	+011	+002	+007
Mar.	+001	+021	+004	-010	-024	-029	-030	-015	+033	+090	***+111***	+081	+050	+042	+022	+018	-004	-017	-040	-050	-051	-063	-064	***-070***
April	-026	-015	-001	-010	+009	+002	+004	+023	+048	***+057***	***+057***	+039	+017	+024	+011	-002	-016	-013	-012	-025	-031	-045	***-048***	***-048***
May	-010	+005	+012	+011	-001	+005	+023	+046	***+060***	+040	+038	+015	+007	+008	-023	+005	-013	-033	-035	***-041***	-032	-035	-026	-019
June	-010	+003	+006	-002	-027	-012	+019	+038	+069	***+084***	+067	+051	+039	+025	+008	+006	-017	-032	-060	***-064***	-059	-055	-046	-033
July	-028	-015	-018	-018	-008	+010	+024	+044	+072	+101	***+113***	+097	+070	+036	-007	-029	-036	-039	-058	***-081***	-079	-056	-054	-043
Aug.	-012	-005	-007	-003	-004	+016	+048	+090	+131	***+135***	+108	+069	+025	-008	-028	-033	-046	-068	-068	-067	***-076***	-075	-068	-060
Sept.	-006	-014	-015	-025	-021	-027	-006	+040	+080	***+120***	+112	+059	+015	-016	-020	-011	-012	-018	-026	-039	-042	-036	-048	***-053***
Oct.	-015	-015	-015	-031	-033	-042	-032	+015	+077	+124	***+150***	+132	+112	+059	+012	-014	-029	-062	***-065***	-064	-063	-063	-063	-053
Nov.	+006	+018	+021	+002	-014	-026	-036	***-038***	-018	+007	***+035***	+032	+029	+033	+031	+019	+008	-016	-021	-024	-014	-007	-012	-010
Dec.	***+042***	+027	+021	+019	000	-008	-015	***-019***	-017	-012	+005	+010	-001	000	+006	000	+002	-009	-010	-014	-010	-009	-006	+002
Year	-001	+005	+004	-004	-011	-012	-005	+012	+041	+066	***+073***	+055	+034	+017	-001	-005	-015	-028	-035	***-043***	-039	-036	-035	-032
Winter	+022	+024	+020	+010	-004	-017	-029	***-035***	-019	+009	***+029***	***+029***	+017	+008	+003	-001	-002	-013	-015	-020	-010	-001	-002	-002
Equinox	-011	-006	-007	-019	-017	-024	-016	+016	+059	+098	***+107***	+078	+049	+027	+006	-002	-015	-027	-036	-045	-047	-052	***-056***	-055
Summer	-015	-003	-002	-003	-010	+005	+029	+055	+083	***+090***	+082	+058	+035	+015	-013	-013	-028	-043	-055	***-063***	-062	-055	-049	-039

HORIZONTAL INTENSITY (Unit 0·1γ)

Jan.	- 40	- 42	- 38	- 20	00	+ 14	+ 18	+ 34	- 04	- 54	- 66	***- 68***	- 42	+ 02	+ 38	+ 38	+ 50	***+ 52***	+ 48	+ 44	+ 24	+ 02	- 08	+ 12
Feb.	- 27	- 41	- 27	- 19	+ 11	+ 41	+ 81	***+103***	+ 67	- 13	- 63	***- 75***	- 63	- 19	- 03	+ 09	- 11	+ 07	+ 17	+ 33	+ 07	- 05	+ 01	- 03
Mar.	+ 02	- 26	+ 02	+ 18	+ 48	+ 50	+ 64	+ 44	- 44	-154	***-206***	-172	-124	- 94	- 40	- 06	+ 28	+ 48	+ 70	+ 88	+ 86	+102	+ 96	***+104***
April	+ 45	+ 27	+ 09	+ 31	+ 01	+ 23	+ 23	- 13	- 69	-111	***-141***	-133	- 95	- 79	- 19	+ 11	+ 47	+ 45	+ 43	+ 57	+ 65	+ 81	***+ 83***	+ 79
May	+ 18	- 04	- 14	+ 02	+ 16	+ 14	- 16	- 56	- 92	- 86	***-108***	- 92	- 74	- 52	+ 22	- 06	+ 40	+ 76	+ 82	***+ 86***	+ 70	+ 72	+ 54	+ 40
June	+ 22	+ 06	+ 02	+ 24	+ 56	+ 42	- 12	- 48	-104	***-148***	***-148***	***-148***	-128	- 82	- 32	- 10	+ 36	+ 74	***+126***	***+126***	+114	+100	+ 80	+ 56
July	+ 51	+ 35	+ 41	+ 47	+ 39	+ 15	- 07	- 51	-109	-167	***-219***	-211	-181	-119	- 23	+ 41	+ 69	+ 89	+117	***+147***	+133	+ 95	+ 91	+ 75
Aug.	+ 32	+ 26	+ 28	+ 22	+ 28	- 02	- 48	-116	-194	***-228***	-218	-178	-108	- 32	+ 26	+ 56	+ 88	+124	+122	+116	***+128***	+126	+108	+100
Sept.	+ 24	+ 32	+ 32	+ 44	+ 46	+ 52	+ 30	- 40	-120	-196	***-208***	-150	- 80	- 14	+ 12	+ 18	+ 28	+ 42	+ 62	***+ 80***	***+ 80***	+ 72	+ 78	+ 76
Oct.	+ 30	+ 26	+ 24	+ 46	+ 50	+ 70	+ 58	00	- 96	-190	***-254***	-238	-202	-108	- 16	+ 34	+ 56	+104	***+108***	+104	+100	+ 96	+ 94	+ 78
Nov.	- 04	- 22	- 26	+ 02	+ 24	+ 46	+ 50	***+ 58***	+ 26	- 30	***- 86***	- 84	- 66	- 58	- 38	- 20	+ 02	+ 40	+ 44	+ 48	+ 30	+ 18	+ 22	+ 16
Dec.	***- 59***	- 39	- 29	- 25	+ 01	+ 19	+ 19	+ 25	+ 17	- 01	- 31	- 33	- 09	- 03	- 01	+ 11	+ 09	+ 27	+ 27	***+ 29***	+ 21	+ 17	+ 11	- 05
Year	+ 08	- 02	00	+ 14	+ 27	+ 32	+ 22	- 05	- 60	-115	***-146***	-132	- 98	- 55	- 06	+ 15	+ 37	+ 61	+ 72	***+ 80***	+ 71	+ 65	+ 59	+ 52
Winter	- 33	- 36	- 30	- 15	+ 09	+ 30	+ 42	***+ 55***	+ 27	- 25	- 61	***- 65***	- 45	- 19	- 01	+ 09	+ 13	+ 31	+ 34	+ 39	+ 21	+ 08	+ 07	+ 05
Equinox	+ 25	+ 15	+ 17	+ 35	+ 36	+ 49	+ 44	- 02	- 82	-163	***-202***	-173	-126	- 74	- 16	+ 14	+ 40	+ 60	+ 71	+ 82	+ 83	***+ 88***	***+ 88***	+ 84
Summer	+ 31	+ 16	+ 14	+ 24	+ 35	+ 17	- 21	- 68	-125	-157	***-173***	-157	-123	- 71	- 02	+ 20	+ 58	+ 91	+112	***+119***	+111	+ 98	+ 83	+ 68

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

International Quiet Days.

NORTH COMPONENT (Unit 0·1γ)

Month and Season, 1945.	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.	- 33	- 35	- 32	- 15	+ 07	+ 23	+ 26	+ 44	+ 08	- 48	- 69	***- 81***	- 68	- 22	+ 23	+ 31	+ 42	***+ 46***	+ 44	+ 45	+ 29	+ 11	+ 02	+ 18
Feb.	- 11	- 30	- 20	- 15	+ 15	+ 43	+ 84	***+109***	+ 82	+ 04	- 52	- 81	***- 85***	- 49	- 33	- 10	- 22	- 01	+ 13	+ 33	+ 08	+ 05	+ 12	+ 08
Mar.	+ 08	- 19	+ 07	+ 23	+ 57	+ 59	+ 82	+ 71	- 09	-127	***-202***	-195	-166	-139	- 79	- 28	+ 20	+ 46	+ 68	+ 87	+ 90	+107	+105	***+121***
April	+ 42	+ 29	+ 06	+ 33	+ 14	+ 39	+ 50	+ 26	- 26	- 79	-133	***-151***	-135	-125	- 56	- 13	+ 36	+ 44	+ 46	+ 58	+ 65	+ 80	***+ 82***	+ 77
May	+ 25	+ 07	- 04	+ 15	+ 35	+ 42	+ 16	- 22	- 61	- 68	-109	***-118***	-115	- 98	- 20	- 36	+ 22	+ 67	+ 80	***+ 87***	+ 69	+ 72	+ 61	+ 46
June	+ 27	+ 15	+ 12	+ 35	+ 73	+ 71	+ 24	- 07	- 64	-120	-142	***-171***	-164	-120	- 68	- 42	+ 14	+ 59	+116	***+119***	+108	+ 94	+ 77	+ 56
July	+ 55	+ 46	+ 52	+ 63	+ 64	+ 54	+ 36	- 08	- 67	-138	-213	***-231***	-224	-173	- 78	- 03	+ 41	+ 73	+108	***+141***	+135	+ 96	+ 92	+ 78
Aug.	+ 41	+ 37	+ 41	+ 34	+ 45	+ 25	- 13	- 76	-155	-201	***-214***	-203	-156	- 86	- 20	+ 25	+ 72	+117	+117	+113	+124	***+125***	+109	+104
Sept.	+ 38	+ 39	+ 38	+ 54	+ 57	+ 66	+ 52	- 07	- 84	-169	***-200***	-174	-128	- 64	- 29	- 10	+ 11	+ 30	+ 57	+ 80	+ 88	+ 79	+ 86	***+ 89***
Oct.	+ 42	+ 39	+ 34	+ 55	+ 59	+ 79	+ 72	+ 27	- 57	-158	-247	***-261***	-241	-151	- 53	+ 10	+ 43	+ 91	+100	+102	***+102***	+102	+ 99	+ 86
Nov.	+ 07	- 14	- 19	+ 09	+ 30	+ 55	+ 57	***+ 66***	+ 40	- 15	- 86	***-103***	- 95	- 83	- 54	- 31	- 07	+ 33	+ 41	+ 50	+ 34	+ 24	+ 29	+ 24
Dec.	***- 50***	- 34	- 25	- 23	+ 05	+ 25	+ 24	***+ 32***	+ 22	+ 01	- 37	- 47	- 28	- 20	- 12	+ 02	+ 03	+ 23	+ 27	+ 32	+ 27	+ 25	+ 20	+ 04
Year	+ 16	+ 07	+ 07	+ 22	+ 38	+ 48	+ 43	+ 21	- 31	- 93	-142	***-151***	-134	- 94	- 40	- 09	+ 23	+ 52	+ 68	***+ 79***	+ 73	+ 68	+ 65	+ 59
Winter	- 22	- 28	- 24	- 11	+ 14	+ 37	+ 48	***+ 63***	+ 38	- 15	- 61	***- 78***	- 69	- 43	- 19	- 02	+ 04	+ 25	+ 31	+ 40	+ 25	+ 16	+ 16	+ 13
Equinox	+ 33	+ 22	+ 21	+ 41	+ 47	+ 61	+ 64	+ 29	- 44	-133	***-195***	-195	-167	-120	- 54	- 10	+ 27	+ 53	+ 68	+ 82	+ 86	+ 92	+ 93	***+ 93***
Summer	+ 37	+ 26	+ 25	+ 37	+ 54	+ 48	+ 16	- 28	- 87	-132	-170	***-181***	-165	-119	- 47	- 14	+ 37	+ 79	+105	***+115***	+109	+ 97	+ 85	+ 71

WEST COMPONENT (Unit 0·1γ)

Jan.	- 41	- 42	- 39	- 33	- 37	- 48	- 43	- 54	***- 67***	- 39	+ 12	+ 70	***+143***	+138	+ 90	+ 45	+ 48	+ 39	+ 26	- 04	- 27	- 53	- 56	- 31
Feb.	- 96	- 66	- 40	- 24	- 21	- 06	- 08	- 25	- 77	***- 99***	- 71	+ 26	+117	+167	***+169***	+110	+ 62	+ 43	+ 22	+ 03	- 06	- 55	- 63	- 63
Mar.	- 32	- 41	- 27	- 26	- 47	- 44	- 95	-152	***-201***	-170	- 42	+116	+229	***+246***	+218	+126	+ 50	+ 15	+ 19	+ 14	- 12	- 17	- 41	- 89
April	+ 24	- 11	+ 17	- 10	- 74	- 90	-149	-223	***-253***	-191	- 59	+ 88	+221	***+255***	+208	+135	+ 69	+ 11	- 14	+ 00	+ 06	+ 13	+ 13	+ 20
May	- 37	- 60	- 61	- 73	-107	-155	-183	***-199***	-184	-108	- 02	+141	+228	***+257***	+238	+167	+105	+ 57	+ 19	+ 03	+ 13	+ 05	- 33	- 31
June	- 26	- 53	- 56	- 59	- 94	-161	-208	-236	***-238***	-170	- 46	+116	+191	***+207***	+203	+179	+127	+ 94	+ 66	+ 53	+ 42	+ 41	+ 26	+ 03
July	- 18	- 58	- 59	- 89	-137	-221	-246	***-251***	-250	-178	- 56	+ 96	+229	+298	***+310***	+256	+167	+100	+ 64	+ 47	+ 03	+ 03	+ 02	- 10
Aug.	- 46	- 60	- 72	- 64	- 93	-153	-204	-239	***-240***	-172	- 41	+126	+261	***+302***	+262	+181	+ 97	+ 51	+ 38	+ 28	+ 32	+ 08	+ 03	- 15
Sept.	- 79	- 38	- 30	- 50	- 58	- 75	-122	-190	***-214***	-174	- 64	+120	+267	***+281***	+235	+160	+101	+ 72	+ 32	+ 06	- 38	- 32	- 41	- 68
Oct.	- 63	- 72	- 54	- 45	- 45	- 44	- 75	-155	***-231***	-201	- 64	+112	+204	***+234***	+209	+139	+ 81	+ 80	+ 54	+ 23	- 02	- 24	- 23	- 41
Nov.	- 60	- 50	- 45	- 39	- 32	- 46	- 37	- 40	- 77	***- 87***	- 05	+ 98	***+161***	+138	+ 88	+ 58	+ 49	+ 41	+ 19	- 07	- 18	- 31	- 37	- 46
Dec.	***- 55***	- 30	- 24	- 15	- 23	- 32	- 29	- 38	- 28	- 14	+ 32	+ 74	***+105***	+ 95	+ 63	+ 52	+ 35	+ 23	- 01	- 14	- 29	- 46	- 51	- 51
Year	- 44	- 48	- 41	- 44	- 64	- 90	-117	-150	***-172***	-134	- 34	+ 99	+196	***+218***	+191	+134	+ 83	+ 52	+ 29	+ 13	- 03	- 16	- 25	- 35
Winter	***- 63***	- 47	- 37	- 28	- 28	- 33	- 29	- 39	- 62	- 60	- 08	+ 67	+131	***+135***	+103	+ 66	+ 49	+ 37	+ 17	- 05	- 20	- 46	- 52	- 48
Equinox	- 37	- 41	- 23	- 33	- 56	- 63	-110	-180	***-225***	-184	- 57	+109	+230	***+254***	+217	+140	+ 75	+ 45	+ 23	+ 11	- 11	- 15	- 23	- 45
Summer	- 32	- 58	- 62	- 71	-108	-173	-210	***-231***	-228	-157	- 36	+120	+227	***+266***	+253	+196	+124	+ 76	+ 47	+ 33	+ 23	+ 14	- 01	- 13

VERTICAL COMPONENT (Unit 0·1γ)

Jan.	- 05	- 03	- 03	- 07	+ 07	- 01	+ 01	***+ 17***	+ 03	- 11	- 13	***- 23***	- 21	+ 07	+ 09	+ 07	- 05	+ 05	+ 03	+ 05	+ 01	+ 11	+ 09	+ 07
Feb.	- 10	- 12	- 18	- 16	+ 06	+ 02	+ 08	+ 14	+ 04	+ 02	- 26	- 58	***- 76***	- 56	- 20	+ 30	+ 34	***+ 44***	+ 38	+ 36	+ 22	+ 26	+ 12	+ 18
Mar.	+ 07	+ 15	+ 17	+ 09	+ 27	+ 19	+ 45	+ 51	+ 09	- 45	- 95	***-121***	-115	- 71	- 17	+ 47	***+ 53***	+ 51	+ 25	+ 31	+ 25	+ 21	+ 03	+ 01
April	+ 14	+ 12	+ 16	+ 38	+ 34	+ 60	***+ 66***	+ 48	+ 06	- 62	-130	***-174***	-162	-102	- 06	+ 16	+ 54	+ 60	+ 58	+ 44	+ 46	+ 30	+ 28	+ 16
May	+ 08	+ 06	+ 10	+ 40	+ 34	+ 50	+ 40	+ 26	- 08	- 64	-120	***-162***	-148	- 92	- 26	+ 04	+ 50	+ 64	***+ 70***	+ 58	+ 52	+ 44	+ 36	+ 26
June	+ 19	+ 23	+ 23	+ 47	+ 39	+ 55	+ 37	+ 21	- 03	- 51	-111	***-167***	-163	-105	- 47	- 05	+ 25	+ 63	***+ 87***	+ 71	+ 63	+ 41	+ 29	+ 19
July	+ 21	+ 31	+ 35	+ 47	+ 61	+ 69	+ 65	+ 35	- 05	- 37	-119	-155	***-181***	-153	- 77	- 03	+ 35	+ 71	***+ 73***	+ 63	+ 35	+ 29	+ 25	+ 25
Aug.	+ 35	+ 41	+ 41	+ 41	+ 53	+ 51	***+ 57***	+ 41	+ 03	- 61	-133	***-175***	-167	-105	- 37	+ 17	+ 45	+ 53	+ 49	+ 39	+ 33	+ 33	+ 19	+ 25
Sept.	+ 35	+ 29	+ 25	+ 19	+ 35	+ 27	+ 47	+ 45	- 03	- 41	- 97	***-145***	-135	- 85	- 41	+ 03	+ 25	+ 35	***+ 55***	+ 51	+ 43	+ 43	+ 15	+ 05
Oct.	+ 16	+ 06	+ 04	00	+ 04	+ 16	+ 24	***+ 52***	+ 40	- 14	- 74	***- 96***	- 82	- 48	+ 04	+ 32	+ 32	+ 26	+ 26	+ 20	+ 14	+ 08	00	- 02
Nov.	+ 10	+ 10	+ 14	+ 12	+ 06	+ 18	- 08	+ 02	- 04	- 44	- 78	***- 82***	- 52	- 20	+ 16	+ 22	+ 32	***+ 38***	+ 30	+ 26	+ 22	+ 16	+ 10	+ 04
Dec.	+ 06	+ 02	+ 06	+ 06	+ 04	+ 18	- 08	- 06	- 20	- 46	***- 56***	- 42	- 24	- 08	+ 16	+ 24	+ 28	***+ 30***	+ 26	+ 16	+ 14	+ 06	+ 02	- 04
Year	+ 13	+ 13	+ 14	+ 19	+ 26	+ 32	+ 31	+ 29	+ 02	- 39	- 88	***-117***	-111	- 70	- 19	+ 16	+ 34	***+ 45***	***+ 45***	+ 38	+ 31	+ 26	+ 16	+ 12
Winter	00	- 01	00	- 01	+ 06	+ 09	- 02	+ 07	- 04	- 25	- 43	***- 51***	- 43	- 19	+ 05	+ 21	+ 22	***+ 29***	+ 24	+ 21	+ 15	+ 15	+ 08	+ 06
Equinox	+ 18	+ 15	+ 15	+ 17	+ 25	+ 31	+ 45	***+ 49***	+ 13	- 45	- 99	***-134***	-123	- 77	- 15	+ 25	+ 41	+ 43	+ 41	+ 37	+ 32	+ 25	+ 11	+ 05
Summer	+ 21	+ 25	+ 27	+ 44	+ 47	+ 56	+ 50	+ 31	- 03	- 53	-121	***-165***	***-165***	-114	- 47	+ 03	+ 39	+ 63	***+ 70***	+ 58	+ 46	+ 37	+ 27	+ 24

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, 1945.	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.	**-446**	-378	-312	-196	-208	+006	+106	+218	+168	+198	+212	+346	**+452**	+432	+372	+258	+098	-268	-062	-236	-192	-276	-088	-194
Feb.	+013	-003	-187	-165	-109	+099	-013	-065	-089	-063	+095	+283	+419	+497	**+547**	+275	+275	+201	-321	-231	**-483**	-465	-321	-201
Mar.	-244	**-478**	-382	-118	-220	-062	-040	+032	-086	+028	+172	+452	+564	**+784**	+634	+510	+462	+150	-388	-380	-388	-264	-356	-374
April	-207	-135	+049	-141	-231	-127	-209	**-415**	-357	-157	+185	+437	**+855**	+743	+661	+539	+159	-213	-131	-111	-301	-175	-319	-399
May	-154	-178	-194	+028	-100	-258	-390	**-512**	-446	-268	+050	+370	+626	**+726**	+712	+560	+382	+198	+026	-072	-326	-392	-240	-144
June	-148	-148	-086	-130	-234	-396	-510	**-538**	-492	-352	-060	+290	+480	**+624**	+598	+514	+402	+258	+154	+064	-082	-118	-056	-032
July	-223	-259	-329	-395	-303	**-407**	-359	-339	-213	-083	+095	+251	+421	+575	**+597**	+443	+403	+301	+123	+167	-025	-059	-167	-211
Aug.	-124	-146	-424	-408	-352	-462	**-488**	-376	-306	-094	+170	+468	+700	**+732**	+614	+462	+262	+146	-088	-050	-096	+012	-034	-120
Sept.	-208	-060	-156	-192	-150	-172	-260	-268	-172	-138	+210	+468	**+722**	+686	+700	+526	+106	-122	-054	-096	-346	-344	**-348**	-334
Oct.	-581	**-711**	-461	-425	-111	-145	-063	-081	-155	+051	+417	+669	**+827**	+813	+727	+583	+321	+121	-215	-197	-375	-437	-345	-233
Nov.	-240	-154	-106	-064	-046	+068	+264	+368	+084	+056	+290	+264	+330	**+374**	+162	+126	-048	-044	-160	**-504**	-440	-244	-180	-156
Dec.	-371	-249	-405	-341	**-421**	-055	+197	+247	+165	+161	+391	+367	+389	**+517**	+269	+329	+072	-029	-187	-337	-147	-157	-215	-201
Year	-244	-242	-249	-212	-207	-159	-147	-144	-158	-055	+186	+389	+565	**+625**	+549	+427	+241	+058	-109	-165	**-267**	-243	-222	-217
Winter	-261	-196	-253	-191	-196	+029	+139	+192	+082	+088	+247	+315	+397	**+455**	+337	+247	+099	-035	-183	**-327**	-315	-285	-201	-188
Equinox	-310	-346	-237	-219	-178	-127	-143	-183	-193	-054	+246	+507	+742	**+757**	+681	+539	+262	-016	-197	-196	**-353**	-305	-342	-335
Summer	-162	-183	-258	-226	-247	-381	-437	**-441**	-364	-199	+064	+345	+557	**+664**	+630	+495	+362	+226	+054	+027	-132	-139	-124	-127

INCLINATION (Unit 0′·01)

Jan.	-075	-065	-085	-123	**-126**	-102	-093	-075	-031	-017	+057	+036	+046	-010	+042	+051	+093	**+115**	+098	+090	+091	+053	+016	+019
Feb.	-074	-129	-064	-040	-049	-119	**-133**	-072	-043	+043	+050	+040	+014	-014	+034	**+118**	+103	+103	+071	+095	+051	+033	+001	-025
Mar.	**-339**	-174	-063	-078	-107	-120	-166	-083	-016	+022	+030	+060	-045	+013	+144	+198	+163	+194	**+223**	+107	+029	+105	-030	-073
April	**-122**	-065	-083	-095	-078	-110	-084	+010	+063	**+137**	+111	+027	+085	+109	+079	+133	+119	+032	+037	+011	-060	-065	-072	-109
May	-057	-070	-055	-062	**-078**	-056	-014	+031	+079	**+110**	+097	+085	+069	+071	+045	+016	-027	-017	-004	-020	-054	-038	-019	-030
June	-073	-050	-057	-062	**-098**	-037	-006	+049	+056	+083	**+143**	+135	+079	+042	+032	-012	+033	000	-052	-035	-026	-045	-046	-055
July	-118	-088	-091	-107	-119	**-143**	-093	+054	+062	+117	+129	+129	**+143**	+094	+111	-004	-032	-025	-006	-034	-007	+015	-005	+015
Aug.	-146	-141	**-235**	-133	-043	-043	+025	+068	+150	**+208**	+166	+098	+044	+051	+077	+097	+069	+014	-028	-034	-065	-055	-068	-065
Sept.	-141	-198	-163	-148	-121	-073	-084	+026	+107	+131	**+143**	+141	+054	+036	+021	+078	+081	+121	+090	+040	+010	-059	-058	-041
Oct.	-053	-116	-094	-143	**-162**	-152	-126	-131	-061	+004	+005	+128	+143	+098	+104	+131	+106	+094	+092	**+154**	-015	-001	+015	-029
Nov.	-043	-043	-076	**-128**	-125	-112	-103	-099	-059	+063	**+117**	+110	+089	+088	+096	+086	+092	+084	+082	+054	-006	-005	-083	-071
Dec.	+078	+039	+001	-038	-136	**-143**	-116	-091	-122	-041	000	+042	**+097**	+034	+016	-007	+094	+075	+101	+042	+027	+062	+006	-020
Year	-097	-092	-089	-096	**-103**	-101	-083	-026	+015	+072	**+087**	+086	+068	+051	+067	+074	+075	+066	+059	+039	-002	000	-029	-040
Winter	-029	-049	-056	-082	-109	**-119**	-111	-084	-064	+012	+056	+057	+061	+025	+047	+062	**+095**	+094	+088	+070	+041	+036	-015	-024
Equinox	**-164**	-138	-101	-116	-117	-114	-115	-045	+023	+073	+072	+089	+059	+064	+087	**+135**	+117	+110	+111	+078	-009	-005	-036	-063
Summer	-099	-087	**-110**	-091	-085	-070	-022	+051	+087	+130	**+134**	+112	+084	+065	+066	+024	+011	-007	-023	-031	-038	-031	-035	-034

HORIZONTAL INTENSITY (Unit 0·1γ)

Jan.	+ 68	+ 44	+ 68	**+120**	+118	+106	+108	+ 86	+ 16	+ 02	**-102**	- 70	- 80	+ 32	- 32	- 28	- 76	- 96	- 68	- 70	- 88	- 38	- 06	- 26
Feb.	+ 92	+150	+ 54	+ 30	+ 62	+154	**+168**	+ 86	+ 38	- 90	-106	- 90	- 50	+ 06	- 46	**-130**	- 94	- 96	- 40	- 90	- 28	- 22	+ 10	+ 40
Mar.	**+460**	+162	- 06	+ 46	+112	+138	+212	+ 86	- 20	- 78	-102	-146	+ 24	- 34	-174	-184	-120	-150	**-194**	- 44	+ 16	-124	+ 48	+ 80
April	**+159**	+ 63	+ 91	+109	+ 95	+153	+117	- 27	-119	**-255**	-235	-123	-193	-173	- 83	-127	- 85	+ 61	+ 31	+ 53	+143	+107	+ 89	+139
May	+ 86	+100	+ 70	+ 78	+ 92	+ 72	+ 04	- 64	-146	**-216**	**-216**	-208	-168	-140	- 66	+ 08	+102	+ 98	+ 80	+ 98	**+136**	+ 92	+ 48	+ 56
June	+103	+ 57	+ 59	+ 71	+111	+ 31	- 15	- 91	- 97	-153	-265	**-271**	-177	-101	- 47	+ 49	+ 07	+ 71	**+157**	+125	+ 97	+101	+ 89	+ 89
July	**+159**	+113	+ 99	+119	+133	**+159**	+ 85	-127	-139	-229	-239	-237	**-249**	-145	-151	+ 51	+109	+117	+ 93	+127	+ 77	+ 29	+ 45	+ 05
Aug.	+216	+188	**+290**	+100	+ 04	+ 38	- 44	-108	-244	**-336**	-284	-196	-106	- 84	- 96	- 94	- 32	+ 58	+122	+110	+140	+116	+122	+112
Sept.	+193	**+243**	+169	+147	+127	+ 61	+ 93	- 63	-183	-225	-253	**-255**	-111	- 49	+ 03	- 45	- 05	- 63	- 51	+ 07	+ 43	+115	+ 71	+ 39
Oct.	+ 24	+ 88	+ 78	+152	+190	**+192**	+164	+180	+ 68	- 56	- 84	**-258**	-252	-142	- 96	-124	- 76	- 46	- 46	-130	+ 96	+ 40	+ 04	+ 42
Nov.	+ 57	+ 51	+ 85	**+151**	**+151**	+135	+115	+111	+ 55	-123	**-199**	-171	-129	-117	-109	- 87	- 89	- 77	- 71	- 33	+ 43	+ 27	+131	+ 85
Dec.	-109	- 73	- 33	+ 29	**+161**	+155	+107	+ 75	+125	+ 11	- 39	- 89	**-159**	- 33	+ 21	+ 45	-103	- 55	- 77	+ 15	+ 15	- 53	+ 23	+ 37
Year	**+126**	+ 99	+ 85	+ 96	+113	+116	+ 93	+ 12	- 54	-146	**-177**	-176	-137	- 82	- 73	- 55	- 39	- 15	- 05	+ 14	+ 57	+ 33	+ 56	+ 58
Winter	+ 27	+ 43	+ 43	+ 83	+123	**+137**	+125	+ 89	+ 59	- 50	**-111**	-105	-105	- 28	- 42	- 50	- 91	- 81	- 64	- 45	- 15	- 21	+ 39	+ 34
Equinox	**+209**	+139	+ 83	+113	+131	+136	+147	+ 44	- 63	-153	-169	**-195**	-133	- 99	- 87	-120	- 71	- 49	- 65	- 29	+ 75	+ 35	+ 53	+ 75
Summer	**+141**	+115	+130	+ 92	+ 85	+ 75	+ 08	- 98	-157	-234	**-251**	-228	-175	-118	- 90	+ 04	+ 47	+ 86	+113	+115	+113	+ 85	+ 76	+ 66

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

International Disturbed Days.

NORTH COMPONENT (Unit 0·1γ)

Month and Season, 1945.	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.	+109	+ 79	+ 96	***+137***	+136	+104	+ 97	+ 64	+ 00	- 17	***-120***	-101	-121	- 09	- 66	- 52	- 84	- 70	- 61	- 47	- 69	- 12	+ 02	- 07
Feb.	+ 89	+148	+ 71	+ 45	+ 71	+142	***+167***	+ 91	+ 46	- 83	-113	-115	- 89	- 41	- 97	***-154***	-118	-113	- 09	- 67	+ 18	+ 22	+ 40	+ 58
Mar.	***+476***	+204	+ 30	+ 56	+131	+142	+213	+ 82	- 12	- 79	-117	-186	- 29	-107	***-231***	-229	-161	-162	-155	- 08	+ 52	- 97	+ 81	+114
April	***+176***	+ 75	+ 85	+121	+115	+163	+135	+ 12	- 84	-237	-249	-162	***-270***	-240	-144	-176	- 99	+ 80	+ 43	+ 63	+169	+122	+118	+174
May	+ 99	+115	+ 87	+ 74	+100	+ 95	+ 40	- 15	-102	-188	-218	***-240***	-224	-206	-132	- 45	+ 65	+ 78	+ 76	+103	***+165***	+127	+ 70	+ 69
June	+115	+ 70	+ 66	+ 82	+131	+ 68	+ 33	- 39	- 49	-118	-255	***-294***	-219	-158	-102	+ 00	- 31	+ 46	***+140***	+117	+103	+111	+ 93	+ 91
July	+178	+136	+128	+154	+159	***+195***	+117	- 93	-117	-218	-244	-257	***-285***	-197	-205	+ 09	+ 70	+ 87	+ 80	+110	+ 78	+ 34	+ 60	+ 25
Aug.	+224	+199	***+325***	+137	+ 37	+ 81	+ 02	- 71	-212	***-322***	-296	-237	-170	-151	-152	-136	- 56	+ 43	+128	+113	+147	+113	+123	+122
Sept.	+210	***+245***	+181	+163	+139	+ 76	+116	- 37	-164	-209	-269	***-295***	-177	-113	- 63	- 94	- 15	- 51	- 45	+ 16	+ 75	+146	+103	+ 70
Oct.	+ 78	+153	+120	+189	+198	+203	+167	+185	+ 81	- 60	-122	-317	***-326***	-216	-163	-177	-105	- 57	- 25	-110	+130	+ 80	+ 36	+ 63
Nov.	+ 79	+ 65	+ 94	***+155***	+153	+127	+ 89	+ 75	+ 46	-126	***-223***	-193	-158	-150	-123	- 97	- 83	- 72	- 55	+ 15	+ 84	+ 49	+146	+ 98
Dec.	- 73	- 49	+ 05	+ 61	***+198***	+158	+ 87	+ 51	+108	- 04	- 75	-122	***-193***	- 81	- 05	+ 13	-108	- 51	- 58	+ 46	+ 29	- 37	+ 43	+ 55
Year	***+147***	+120	+107	+115	+131	+129	+105	+ 25	- 38	-138	-192	***-210***	-188	-139	-124	- 95	- 60	- 20	+ 05	+ 29	+ 82	+ 55	+ 76	+ 78
Winter	+ 51	+ 61	+ 67	+ 99	***+139***	+133	+110	+ 70	+ 50	- 57	-133	-133	***-140***	- 70	- 73	- 73	- 98	- 77	- 46	- 13	+ 15	+ 05	+ 58	+ 51
Equinox	***+235***	+169	+104	+132	+146	+146	+158	+ 61	- 45	-146	-189	***-240***	-201	-169	-150	-169	- 95	- 47	- 45	- 10	+106	+ 63	+ 85	+105
Summer	***+154***	+130	+152	+111	+107	+110	+ 48	- 55	-120	-212	-253	***-257***	-225	-178	-148	- 43	+ 12	+ 64	+106	+111	+123	+ 96	+ 87	+ 77

WEST COMPONENT (Unit 0·1γ)

Jan.	***-226***	-194	-154	- 84	- 90	+ 22	+ 75	+131	+ 92	+106	+ 95	+172	+227	***+236***	+193	+133	+ 39	-159	- 45	-138	-117	-154	- 48	-108
Feb.	+ 23	+ 24	- 90	- 83	- 47	+ 79	+ 22	- 20	- 41	- 49	+ 32	+135	+214	+266	***+283***	+124	+130	+ 90	-178	-139	***-262***	-251	-169	-100
Mar.	- 50	-227	-204	- 55	- 98	- 09	+ 15	+ 32	- 49	+ 01	+ 74	+215	+305	***+412***	+307	+240	+225	+ 54	***-240***	-210	-204	-162	-181	-185
April	- 83	- 61	+ 42	- 56	-107	- 41	- 91	***-226***	-210	-128	+ 58	+211	***+422***	+366	+338	+265	+ 70	-103	- 64	- 50	-136	- 75	-154	-188
May	- 67	- 78	- 91	+ 28	- 37	-125	-207	***-284***	-263	-180	- 11	+161	+304	+362	***+368***	+300	+221	+122	+ 28	- 21	-150	-193	-120	- 67
June	- 61	- 69	- 36	- 57	-105	-205	-274	***-302***	-279	-214	- 78	+108	+225	***+315***	+310	+282	+215	+150	+109	+ 56	- 27	- 45	- 14	- 02
July	- 91	-118	-158	-190	-138	-189	-176	***-203***	-137	- 84	+ 09	+ 93	+181	+281	***+292***	+245	+234	+181	+ 82	+111	00	- 26	- 81	-111
Aug.	- 29	- 45	-176	-200	-187	-239	***-267***	-219	-205	-108	+ 41	+215	+354	***+375***	+310	+230	+134	+ 88	- 26	- 08	- 27	+ 27	+ 03	- 45
Sept.	- 77	+ 10	- 54	- 77	- 58	- 81	-122	-154	-123	-112	+ 68	+205	+365	+357	***+373***	+272	+ 56	- 76	- 38	- 50	***-177***	-163	-173	-171
Oct.	-305	***-363***	-232	-200	- 26	- 44	- 05	- 12	- 71	+ 17	+207	+312	+397	***+408***	+371	+289	+158	+ 56	-123	-127	-183	-226	-183	-117
Nov.	-118	- 73	- 42	- 08	+ 02	+ 60	+161	***+215***	+ 54	+ 09	+120	+111	+153	+179	+ 67	+ 52	- 41	- 37	- 97	***-274***	-227	-125	- 73	- 68
Dec.	-216	-145	***-221***	-177	-196	- 03	+123	+145	+109	+ 88	+201	+180	+180	***+270***	+147	+183	+ 21	- 25	-113	-177	- 76	- 93	-111	-101
Year	-108	-112	-118	- 97	- 91	- 65	- 62	- 75	- 94	- 55	+ 68	+177	+277	***+319***	+280	+218	+122	+ 28	- 59	- 86	***-132***	-124	-109	-105
Winter	-134	- 97	-127	- 88	- 83	+ 39	+ 95	+118	+ 53	+ 39	+112	+149	+193	***+238***	+173	+123	+ 37	- 33	-108	***-182***	-171	-156	-100	- 94
Equinox	-129	-160	-112	- 97	- 72	- 44	- 51	- 90	-113	- 55	+102	+236	+372	***+386***	+347	+267	+127	- 17	-116	-109	***-175***	-157	-173	-165
Summer	- 62	- 78	-115	-105	-117	-190	-231	***-252***	-221	-147	- 10	+144	+266	***+333***	+320	+264	+201	+135	+ 48	+ 35	- 51	- 59	- 53	- 56

VERTICAL COMPONENT (Unit 0·1γ)

Jan.	-100	-120	-134	-144	***-164***	-106	- 68	- 58	- 70	- 54	- 40	- 38	- 26	+ 40	+ 68	+112	+144	+172	***+180***	+148	+112	+ 94	+ 42	+ 06
Feb.	- 40	***- 98***	***- 98***	- 68	- 24	- 56	- 70	- 50	- 60	- 58	- 72	- 68	- 68	- 34	+ 10	+106	+138	+132	***+152***	+122	+112	+ 62	+ 28	+ 08
Mar.	-105	-225	***-233***	-161	-111	- 95	- 83	- 87	- 99	-104	-135	-133	-101	- 33	+ 93	+255	+285	+321	***+323***	+267	+139	+ 75	+ 07	- 67
April	- 53	- 79	- 75	- 77	- 49	- 25	- 19	- 27	- 59	-119	-161	***-195***	-157	- 23	+ 79	+165	+215	***+251***	+201	+161	+123	+ 25	- 43	- 57
May	+ 03	- 11	- 29	- 35	- 57	- 29	- 37	- 43	- 65	-121	-165	***-189***	-153	- 78	+ 05	+ 73	+147	+169	***+173***	+159	+127	+ 83	+ 45	+ 29
June	- 14	- 42	- 58	- 50	- 80	- 56	- 54	- 40	- 30	- 68	-122	***-164***	-138	- 90	00	+ 72	+130	+166	***+188***	+170	+134	+ 80	+ 50	+ 18
July	- 39	- 43	- 83	- 95	-105	-123	-123	-107	-107	***-127***	-109	-105	- 83	- 09	+ 33	+105	+141	+187	***+193***	+175	+155	+119	+ 87	+ 61
Aug.	- 02	- 52	-140	***-230***	-140	- 60	- 16	- 16	- 50	- 64	- 88	-116	- 92	- 18	+ 42	+116	+162	+184	***+188***	+140	+100	+ 78	+ 50	+ 34
Sept.	- 39	-121	***-171***	-169	-125	-111	- 75	- 55	- 55	- 69	- 93	-103	- 73	+ 11	+ 81	+167	+271	***+273***	+195	+155	+135	+ 61	- 35	- 51
Oct.	-127	***-197***	-147	-141	-119	- 79	- 57	- 33	- 51	-117	-175	-157	- 91	+ 09	+135	+165	+191	+219	+211	***+233***	+173	+ 89	+ 61	- 03
Nov.	- 16	- 30	- 66	***- 92***	- 84	- 72	- 90	- 84	- 76	- 68	- 60	- 18	+ 08	+ 32	+ 80	+ 96	+112	+112	***+118***	+112	+ 78	+ 44	+ 18	- 50
Dec.	+ 17	- 33	- 73	- 65	- 97	-135	***-153***	-141	-131	-119	- 89	- 63	- 35	+ 41	+105	+ 79	+ 87	+133	+171	***+179***	+129	+ 89	+ 73	+ 19
Year	- 43	- 88	-109	-111	- 96	- 79	- 70	- 62	- 71	- 91	-109	***-112***	- 84	- 13	+ 61	+126	+169	***+193***	+191	+168	+126	+ 75	+ 32	- 04
Winter	- 35	- 70	- 93	- 92	- 92	- 92	***- 95***	- 83	- 84	- 75	- 65	- 47	- 30	+ 20	+ 66	+ 98	+120	+137	***+155***	+140	+108	+ 72	+ 40	- 04
Equinox	- 81	-155	***-157***	-137	-101	- 77	- 59	- 51	- 66	-102	-141	-147	-105	- 09	+ 97	+188	+241	***+266***	+233	+204	+143	+ 63	- 03	- 45
Summer	- 13	- 37	- 78	-103	- 96	- 67	- 58	- 52	- 63	- 95	-121	***-144***	-117	- 49	+ 20	+ 92	+145	+177	***+186***	+161	+129	+ 90	+ 58	+ 36

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 a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	WEST COMPONENT a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	VERTICAL COMPONENT a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
													"All" Days											
1945.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+ 1·2	+2·8	-3·0	-0·2	+1·3	-1·8	-0·3	+0·4	- 9·4	- 0·8	+0·2	+ 3·0	- 1·1	-0·9	+1·3	+1·2	+0·6	- 4·0	- 1·9	-0·7	+0·5	-0·5	-0·4	+0·4
Feb.	+ 5·4	+3·9	-3·6	-1·8	+2·6	-1·9	+1·0	+2·2	- 9·0	- 2·8	+0·5	+ 7·1	- 0·7	-3·5	+1·4	+1·7	+1·5	- 4·1	- 3·3	-1·2	+1·2	-0·1	-0·5	-0·9
Mar.	+10·0	+3·0	-4·0	-2·5	+2·8	-3·3	+0·6	+1·9	-11·8	- 5·5	+4·7	+ 9·7	- 1·6	-5·0	+2·0	+1·2	+2·4	- 6·6	- 7·5	-0·6	+2·2	+0·1	-0·8	-0·4
April	+11·9	+0·4	-6·0	-1·9	+2·3	-1·1	+0·0	+0·5	- 9·0	-10·3	+6·7	+10·8	- 3·8	-3·6	+1·3	+2·1	+4·9	- 5·3	- 7·7	-0·3	+3·1	-0·8	-0·8	+0·3
May	+11·4	-3·9	-6·0	+0·3	+0·3	-0·2	+0·6	-0·1	-10·7	-15·2	+6·8	+10·4	- 2·8	-2·8	+1·3	+0·2	+6·4	- 4·6	- 7·8	-0·6	+2·3	+0·2	-0·4	+0·0
June	+11·7	-2·1	-7·3	-1·6	+0·4	-0·9	+0·1	+0·3	- 5·2	-17·2	+5·3	+10·2	- 2·7	-2·3	+0·5	-0·1	+5·8	- 3·8	- 6·3	-0·5	+1·8	+0·3	-0·7	+0·1
July	+15·1	-3·3	-8·5	+0·6	+1·2	-1·7	+0·3	-0·1	- 7·5	-18·3	+5·5	+ 8·9	- 3·0	-2·7	+0·3	+1·1	+5·5	- 4·6	- 6·0	-0·7	+1·8	+0·3	-0·4	-0·7
Aug.	+14·1	-4·2	-4·3	+1·3	+0·0	-1·8	+1·0	+0·5	- 9·8	-15·6	+8·5	+ 8·3	- 4·3	-3·5	+0·7	+0·5	+5·5	- 4·0	- 6·8	-0·7	+3·1	-0·1	-0·5	+0·1
Sept.	+12·4	-0·6	-5·0	+1·0	+1·5	-2·9	-0·2	+1·0	-10·3	-10·8	+4·9	+10·5	- 4·4	-3·9	+1·4	+1·3	+3·5	- 4·4	- 5·4	-0·6	+2·0	-0·4	-0·4	+0·4
Oct.	+12·0	+2·4	-6·8	-1·5	+2·2	-2·4	-0·7	+0·7	-13·4	- 7·7	+2·9	+ 9·2	- 4·5	-3·7	+3·1	+1·0	+2·2	- 5·3	- 5·5	+0·0	+1·9	-1·1	-1·3	+0·8
Nov.	+ 5·6	+2·5	-3·7	-1·3	+1·9	-1·8	-0·6	+0·6	- 7·9	- 2·1	+0·9	+ 4·3	- 1·1	-1·9	+1·8	+0·9	+1·5	- 4·1	- 2·3	+0·5	+0·5	-0·6	-0·4	+0·6
Dec.	+ 1·2	+3·1	-4·1	-2·5	+0·2	-0·6	-0·2	-0·3	-10·2	- 0·4	-1·0	+ 2·1	- 1·0	-0·1	+0·8	+0·8	+2·6	- 5·7	- 1·3	+0·5	+0·5	-0·6	-0·3	+0·1
Year	+ 9·3	+0·4	-5·2	-0·9	+1·4	-1·7	+0·1	+0·6	- 9·5	- 8·9	+3·8	+ 7·9	- 2·6	-2·8	+1·3	+1·0	+3·5	- 4·7	- 5·2	+0·4	+1·8	-0·3	-0·6	+0·1
Winter	+ 3·4	+3·1	-3·6	-1·5	+1·5	-1·6	-0·0	+0·7	- 9·1	- 1·5	+0·2	+ 4·1	- 0·9	-1·6	+1·4	+1·1	+1·5	- 4·5	- 2·2	-0·2	+0·7	-0·4	-0·4	+0·0
Equinox	+11·6	+1·3	-5·5	-1·2	+2·2	-2·4	-0·1	+1·0	-11·7	- 8·6	+4·8	+10·0	- 3·6	-4·1	+1·9	+1·4	+3·3	- 5·4	- 6·6	-0·4	+2·3	-0·5	-0·8	+0·3
Summer	+13·1	-3·4	-6·5	+0·1	+0·5	-1·2	+0·5	+0·1	- 8·5	-16·6	+6·5	+ 9·5	- 3·2	-2·8	+0·7	+0·4	+5·9	- 4·3	- 6·8	-0·7	+2·2	+0·1	-0·3	-0·1
													INTERNATIONAL QUIET DAYS											
Year	+ 7·7	-0·9	-5·5	-0·1	+1·4	-1·4	+0·0	+0·6	- 5·8	- 9·5	+4·3	+ 7·3	- 3·4	-2·9	+1·3	+1·0	+4·4	- 1·1	- 4·6	-0·0	+2·0	-0·4	-0·7	+0·1
Winter	+ 1·9	+0·9	-4·0	-1·3	+1·6	-1·0	-0·2	+0·8	- 5·6	- 3·1	+1·1	+ 4·2	- 1·9	-1·4	+1·2	+1·3	+1·6	- 1·5	- 1·9	+0·2	+0·9	-0·4	-0·4	+0·0
Equinox	+10·5	-0·4	-6·5	+0·5	+2·2	-2·2	+0·1	+0·8	- 5·5	-10·4	+4·8	+ 9·1	- 4·7	-4·5	+2·1	+1·3	+4·5	- 1·1	- 5·2	-0·1	+2·7	-0·7	-1·0	+0·5
Summer	+10·7	-3·2	-6·2	+0·6	+0·5	-1·0	+0·2	+0·1	- 6·2	-14·8	+7·0	+ 8·6	- 3·6	-2·8	+0·5	+0·6	+7·1	- 1·7	- 6·6	-0·1	+2·3	+0·0	-0·7	0·0
													INTERNATIONAL DISTURBED DAYS											
Year	+14·3	+2·3	-5·1	+0·2	+0·9	-2·5	+0·6	+0·9	-15·9	- 6·6	+5·1	+ 8·6	- 0·9	-4·2	+1·5	+0·6	+1·4	-13·4	- 6·3	-0·8	+2·0	-0·1	-0·1	+0·1
Winter	+ 8·2	+6·9	-3·7	+0·2	+0·9	-3·1	-0·6	+1·0	-15·9	+ 4·3	+2·5	+ 4·2	+ 2·5	-4·2	+1·9	+1·3	+0·4	-11·9	- 2·8	-0·7	+0·2	-0·1	-0·1	+0·1
Equinox	+17·1	+3·7	-4·1	-1·3	+1·7	-3·6	+1·6	+1·3	-20·5	- 6·1	+6·4	+11·1	- 2·6	-5·9	-1·2	-0·9	-0·5	-16·6	-10·0	-0·6	+3·0	-0·6	-0·3	-0·1
Summer	+17·9	-3·5	-7·3	+1·8	+0·2	-0·9	+0·9	+0·5	-11·3	-17·8	+6·4	+10·6	- 2·5	-2·6	+1·2	-0·2	+4·3	-11·5	- 5·9	-1·3	+2·8	+0·5	+0·1	+0·5

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 α, 2α, 3α, 4α, 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 c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	WEST COMPONENT c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	VERTICAL COMPONENT c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
													"All" Days											
1945.	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
Jan.	3·1	24	3·0	267	2·2	146	0·5	324	9·4	266	3·0	5	1·4	231	1·8	49	4·1	172	2·0	249	0·7	134	0·6	312
Feb.	6·7	55	4·0	244	4·2	128	2·4	27	9·4	253	7·1	4	3·6	192	2·3	41	4·3	160	3·5	251	1·2	96	1·1	209
Mar.	10·4	74	4·7	239	4·3	141	1·9	18	13·0	246	10·8	26	5·3	198	2·3	59	7·0	160	7·6	266	2·2	90	0·9	244
April	11·9	89	6·3	253	2·5	117	0·5	6	13·6	221	12·7	33	5·3	228	2·5	33	7·2	137	7·7	269	3·2	105	0·8	290
May	12·0	109	6·0	274	0·4	127	0·6	101	18·6	216	12·5	34	3·9	226	1·3	82	7·9	126	7·8	267	2·4	86	0·4	273
June	11·9	101	7·4	259	1·0	154	0·3	12	18·0	197	11·5	28	3·5	231	0·5	102	6·9	123	6·4	266	1·8	81	0·7	280
July	15·4	103	8·5	275	2·0	146	0·3	116	19·8	203	10·4	32	4·0	230	1·1	14	7·1	130	6·1	264	1·8	81	0·8	209
Aug.	14·7	107	4·4	287	1·8	180	1·1	67	18·4	213	11·8	46	5·5	233	0·8	56	6·7	127	6·8	265	3·1	94	0·5	288
Sept.	12·4	93	5·2	282	3·2	154	1·0	352	15·0	224	11·6	26	5·9	230	1·9	49	5·6	142	5·4	265	2·0	102	0·5	320
Oct.	12·2	79	6·9	258	3·3	139	1·0	317	15·4	241	9·6	18	5·8	232	3·2	73	5·7	158	5·5	271	2·2	121	1·5	303
Nov.	6·1	66	3·9	251	2·7	135	0·8	315	8·1	256	4·4	13	2·1	211	2·0	65	4·4	161	2·3	284	0·8	138	0·7	328
Dec.	3·4	22	4·8	240	0·7	164	0·3	215	10·2	268	2·3	336	1·0	264	1·1	49	6·3	156	1·3	292	0·7	142	0·4	280
Year	9·3	88	5·3	262	2·2	142	0·6	15	13·0	227	8·7	27	3·8	224	1·6	55	5·9	143	5·2	266	1·8	100	0·6	276
Winter	4·6	48	3·9	249	2·1	138	0·7	0	9·2	261	4·1	3	1·9	212	1·8	51	4·8	162	2·2	265	0·8	123	0·4	276
Equinox	11·7	84	5·6	259	3·2	139	1·0	356	14·1	233	11·1	26	5·4	222	2·4	55	6·3	149	6·6	268	2·4	104	0·8	290
Summer	13·5	105	6·5	272	1·3	157	0·5	77	18·7	207	11·5	35	4·2	230	0·8	59	7·3	127	6·8	265	2·2	88	0·6	264
													INTERNATIONAL QUIET DAYS											
Year	7·7	97	5·5	270	2·0	136	0·6	5	11·1	212	8·5	31	4·5	231	1·6	53	4·5	104	4·6	271	2·0	102	0·7	283
Winter	2·1	65	4·2	253	1·8	123	0·8	350	6·4	241	4·3	15	2·3	235	1·8	44	2·2	134	1·9	276	1·0	116	0·4	274
Equinox	10·5	93	6·5	275	3·1	137	0·8	7	11·8	208	10·3	29	6·5	228	2·5	59	4·6	105	5·2	270	2·7	115	1·1	297
Summer	11·1	107	6·3	276	1·1	155	0·2	55	16·1	203	11·1	40	4·6	233	0·8	43	7·3	104	6·6	270	2·3	90	0·7	272
													INTERNATIONAL DISTURBED DAYS											
Year	14·5	81	5·1	273	2·7	161	1·1	34	17·2	248	10·1	32	4·3	193	1·6	71	13·4	175	6·3	263	2·0	94	0·2	323
Winter	10·7	50	3·7	274	3·2	166	1·2	330	16·4	286	4·9	32	4·8	151	2·3	57	11·9	178	2·9	258	0·2	118	0·1	303
Equinox	17·4	78	4·3	253	4·0	156	2·0	64	21·3	254	12·8	31	6·4	205	1·5	234	16·6	182	10·0	267	3·0	103	0·3	254
Summer	18·2	101	7·5	284	0·9	167	1·0	61	21·1	213	12·4	32	3·6	225	1·2	100	12·3	160	6·0	258	2·8	81	0·5	7

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1945.

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
	′	′	γ	′	′	γ	′	′	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
January	4·85	0·88	12·2	4·06	0·75	12·0	8·98	2·41	22·2	12·7	25·9	9·7	12·7	21·0	4·0	25·7	46·2	34·4
February	5·83	1·33	21·2	5·00	0·99	17·8	10·30	2·51	29·8	21·2	30·5	13·1	19·4	26·8	12·0	32·1	54·5	25·0
March	8·05	1·43	25·9	8·56	1·81	31·0	12·62	5·62	65·4	29·6	41·8	26·2	32·3	44·7	17·4	70·7	65·2	55·6
April	9·78	1·18	26·3	9·56	1·05	22·4	12·70	2·59	41·4	31·1	51·1	29·8	23·3	50·8	24·0	44·6	64·8	44·6
May	10·26	1·31	27·9	8·56	1·01	19·4	12·38	1·88	35·2	28·6	54·5	30·0	20·5	45·6	23·2	40·5	65·2	36·2
June	9·86	1·55	31·9	8·44	1·48	27·4	11·62	2·41	42·8	33·0	51·8	25·9	29·0	44·5	25·4	43·4	61·7	35·2
July	10·27	2·00	37·5	10·58	1·94	36·6	10·04	2·86	40·8	37·3	53·6	24·7	37·2	56·1	25·4	48·0	49·5	32·0
August	10·36	2·01	34·0	9·88	2·11	35·6	12·20	4·43	62·6	33·3	55·6	26·3	33·9	54·2	23·2	64·7	64·2	41·8
September	9·11	1·65	30·2	8·96	1·70	28·8	10·70	3·41	49·8	32·0	49·1	20·6	28·9	49·5	20·0	54·0	55·0	44·4
October	8·76	1·63	29·0	8·78	2·15	36·2	15·38	3·16	45·0	33·5	45·2	20·2	36·3	46·5	14·8	52·9	77·1	43·0
November	4·64	1·07	17·3	4·78	0·73	14·4	8·78	2·45	35·0	19·0	23·3	12·7	16·9	24·8	12·0	37·8	48·9	21·0
December	4·94	1·03	12·9	3·00	0·61	8·8	9·38	2·40	32·0	14·4	26·2	13·3	8·2	16·0	8·6	39·1	49·1	33·2
Means																		
Year	8·06	1·42	25·5	7·51	1·36	24·2	11·26	3·01	41·8	27·1	42·4	21·0	24·9	40·0	17·5	46·1	58·5	37·2
Winter	5·07	1·08	15·9	4·21	0·77	13·3	9·36	2·44	29·8	16·8	26·5	12·2	14·3	22·2	9·2	33·7	49·7	28·4
Equinox	8·93	1·47	27·9	8·97	1·68	29·6	12·85	3·70	50·4	31·6	46·8	24·2	30·2	47·9	19·1	55·6	65·5	46·9
Summer	10·19	1·72	32·8	9·37	1·64	29·8	11·56	2·90	45·4	33·1	53·9	26·7	30·2	50·1	24·3	49·2	60·2	36·3

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

Month 1945	'All' Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
	′	γ	γ	′	γ	γ	′	γ	γ
January	+0·05	+0·3	+0·0	+0·34	+4·6	−1·0	+1·62	− 3·6	+5·8
February	−0·03	+0·1	−0·1	+0·88	+1·0	−0·8	−0·30	− 1·0	−0·2
March	−0·14	+0·3	−0·1	−0·98	+8·2	−2·2	−0·76	−29·4	−1·6
April	+0·14	+0·3	+0·1	−0·04	+2·8	−0·6	−0·78	− 2·8	−4·4
May	−0·05	−0·2	0·0	−0·26	+2·6	+0·8	+0·24	− 0·4	+1·4
June	−0·09	+0·4	−0·1	−0·02	+1·2	+0·2	−0·26	− 0·4	+0·2
July	+0·04	−0·5	+0·3	+0·10	+3·0	−0·4	−0·34	−15·0	+4·8
August	−0·07	+0·2	−0·0	+0·38	+5·4	−1·8	−0·30	−12·2	+1·6
September	−0·13	−0·3	+0·2	+0·06	+4·6	−3·0	−0·82	−13·6	−1·8
October	+0·07	+0·1	+0·1	+0·04	+4·0	−1·6	+3·34	+ 1·6	+6·2
November	+0·04	−0·0	−0·1	+0·22	+0·8	−0·2	−0·06	− 0·6	−3·6
December	−0·05	−0·0	+0·1	+0·34	+4·8	−1·2	+2·42	+ 6·0	−0·6
Mean	...	...	...	+0·09	+3·6	−1·0	+0·33	− 5·9	+0·7

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

Month, 1945.	Declination West	Inclination	Intensity				
			Horizontal	North	West	Vertical	Total
	° ′	° ′	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	10 3·1	66 44·9	·18564	·18279	·03240	·43204	·47023
February	2·6	44·6	·18568	·18284	·03238	·43204	·47025
March	1·8	44·7	·18566	·18282	·03234	·43204	·47024
April	1·1	44·5	·18570	·18287	·03231	·43205	·47027
May	0·7	43·7	·18580	·18297	·03230	·43203	·47029
June	10 0·0	43·5	·18583	·18302	·03227	·43202	·47029
July	9 59·3	43·9	·18579	·18297	·03222	·43204	·47029
August	58·8	44·0	·18577	·18296	·03219	·43205	·47029
September	57·8	44·1	·18576	·18296	·03214	·43207	·47031
October	57·2	44·8	·18569	·18289	·03210	·43214	·47035
November	56·6	44·4	·18576	·18297	·03203	·43215	·47038
December	55·6	44·8	·18572	·18294	·03202	·43219	·47040
Year 1945.	9 59·5	66 44·3	·18573	·18292	·03223	·43207	·47040

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9 49·7	9 49·6	9 49·4	9 49·4	9 49·8	9 49·6	9 49·4	9 49·8	9 49·4	9 49·7	9 49·7	9 49·8
2	49·7	49·6	49·4	49·5	49·9	49·5	49·4	49·8	49·4	49·6	49·7	49·8
3	49·7	49·6	49·5	49·5	49·8	49·6	49·4	49·7	49·4	49·6	49·7	49·9
4	49·7	49·6	49·6	49·5	49·8	49·6	49·3	49·7	49·4	49·6	49·7	49·9
5	49·7	49·5	49·6	49·4	49·9	49·5	49·4	49·6	49·4	49·6	49·7	49·8
6	49·7	49·7	49·6	49·4	49·8	49·5	49·4	49·7	49·5	49·7	49·7	49·8
7	49·7	49·6	49·6	49·3	49·7	49·4	49·4	49·7	49·5	49·7	49·7	49·8
8	49·7	49·6	49·7	49·3	49·7	49·4	49·4	49·7	49·5	49·6	49·7	49·9
9	49·7	49·6	49·7	49·4	49·7	49·5	49·4	49·8	49·5	49·6	49·8	49·9
10	49·7	49·6	49·7	49·4	49·6	49·4	49·4	49·7	49·3	49·5	49·7	49·8
11	49·8	49·7	49·7	49·4	49·6	49·4	49·4	49·7	49·2	49·6	49·7	49·8
12	49·7	49·6	49·7	49·4	49·6	49·5	49·4	49·6	49·3	49·5	49·8	49·8
13	49·7	49·6	49·7	49·4	49·6	49·4	49·3	49·7	49·3	49·5	49·7	49·9
14	49·8	49·6	49·6	49·3	49·5	49·5	49·2	49·7	49·2	49·5	49·7	49·8
15	49·8	49·6	49·6	49·3	49·6	49·4	49·3	49·6	49·3	49·4	49·7	49·9
16	49·8	49·6	49·6	49·3	49·6	49·6	49·2	49·7	49·4	49·5	49·7	49·8
17	49·8	49·6	49·6	49·4	49·6	49·6	49·3	49·7	49·4	49·5	49·7	49·9
18	49·7	49·6	49·7	49·5	49·6	49·6	49·5	49·6	49·3	49·6	49·7	49·8
19	49·8	49·6	49·7	49·5	49·6	49·6	49·7	49·6	49·4	49·6	49·7	49·8
20	49·8	49·5	49·7	49·6	49·6	49·6	49·6	49·6	49·3	49·6	49·8	49·8
21	49·7	49·5	49·6	49·6	49·6	49·6	49·7	49·6	49·3	49·5	49·8	49·8
22	49·7	49·4	49·7	49·6	49·7	49·6	49·7	49·6	49·4	49·6	49·8	49·8
23	49·8	49·5	49·7	49·7	49·6	49·6	49·8	49·6	49·4	49·5	49·8	49·8
24	49·8	49·5	49·7	49·6	49·7	49·6	49·7	49·6	49·4	49·5	49·8	49·8
25	49·8	49·4	49·7	49·6	49·6	49·6	49·7	49·6	49·4	49·5	49·8	49·8
26	49·7	49·4	49·7	49·7	49·7	49·6	49·7	49·5	49·5	49·6	49·7	49·8
27	49·7	49·4	49·6	49·8	49·6	49·6	49·7	49·5	49·5	49·6	49·8	49·8
28	49·8	49·4	49·5	49·8	49·7	49·5	49·8	49·5	49·6	49·7	49·8	49·8
29	49·8	-	49·4	49·8	49·6	49·5	49·8	49·5	49·6	49·7	49·8	49·8
30	49·7	-	49·4	49·8	49·7	49·4	49·7	49·4	49·6	49·6	49·8	49·8
31	49·7	-	49·6	-	49·6	-	49·8	49·5	-	49·7	-	49·8

April 16. Recording Room Temperature raised from 11°·0 C to 16°·0 C.

July 14. Recording Room Temperature raised from 16°·0 C to 21°·0 C.

November 13. Recording Room Temperature lowered from 21°·0 C to 16°·0 C.

TABLE XIV. - RESULTS OF THE DETERMINATIONS OF THE ABSOLUTE VALUE OF HORIZONTAL INTENSITY FROM OBSERVATIONS MADE WITH THE SCHUSTER-SMITH COIL MAGNETOMETER IN THE MAGNETIC PAVILION AT ABINGER, WITH THE DEDUCED VALUES OF THE BASE-LINE OF THE HORIZONTAL INTENSITY MAGNETOGRAMS.

	Universal Time			Nos. of Obs.	Observed Horizontal Intensity	Deduced Value of Base Line
	h m		h m		γ	γ
Jan. 1	9 46	-	9 55	8	18563	18368
2	9 52	-	9 58	8	18568	18368
4	9 48	-	9 56	8	18575	18368
5	10 23	-	10 34	8	18561	18368
6	9 43	-	9 51	8	18572	18367
8	9 51	-	10 0	8	18571	18368
9	8 54	-	9 6	8	18567	18368
10	9 22	-	9 36	8	18541	18368
11	8 38	-	8 51	8	18564	18369
12	9 9	-	9 20	8	18571	18368
13	8 57	-	9 9	8	18574	18368
15	8 52	-	9 4	8	18555	18368
16	9 38	-	9 48	8	18546	18369
17	9 37	-	9 47	8	18558	18367
18	9 31	-	9 41	8	18564	18368
19	8 54	-	9 5	8	18576	18369
20	9 48	-	9 57	8	18559	18367
22	9 49	-	9 57	8	18565	18368
23	9 47	-	9 54	8	18569	18368
24	10 1	-	10 12	8	18566	18368
25	9 41	-	9 48	8	18555	18368
26	10 31	-	10 44	8	18582	18370
27	9 55	-	10 6	8	18559	18370
29	9 46	-	9 55	8	18532	18367
30	11 27	-	11 38	8	18541	18368
31	10 25	-	10 36	8	18551	18368
Feb. 1	9 44	-	9 52	8	18561	18367
2	9 43	-	9 56	8	18565	18368
3	9 52	-	9 59	8	18566	18368
5	10 6	-	10 16	8	18534	18368
6	9 43	-	9 50	8	18532	18367
7	9 43	-	9 51	8	18550	18365
8	9 43	-	9 51	8	18541	18366
9	9 3	-	9 13	8	18571	18366
10	9 50	-	9 58	8	18539	18367
12	9 44	-	9 52	8	18551	18367
13	8 59	-	9 9	8	18570	18366
14	9 40	-	9 48	8	18563	18366
15	9 48	-	9 56	8	18539	18366
16	8 51	-	9 4	8	18566	18367
17	9 57	-	10 9	8	18562	18367
19	9 53	-	10 6	8	18568	18366
20	9 41	-	9 49	8	18578	18366
21	9 9	-	9 20	8	18586	18367
22	9 7	-	9 17	8	18579	18367
23	9 1	-	9 11	8	18579	18367
24	9 53	-	10 7	8	18573	18367
26	9 5	-	9 16	8	18570	18366
27	9 2	-	9 11	8	18556	18366
28	10 37	-	10 47	8	18554	18366
Mar. 1	9 1	-	9 11	8	18569	18367
2	8 57	-	9 7	8	18573	18366
3	9 41	-	9 49	8	18553	18367
5	9 49	-	9 56	8	18566	18367
6	9 34	-	9 42	8	18555	18367
7	9 55	-	10 10	8	18543	18367
8	9 37	-	9 45	8	18563	18367
9	9 5	-	9 17	8	18571	18368
10	9 54	-	10 9	8	18559	18367
Mar. 12	9 45	-	9 54	8	18518	18367
13	9 30	-	9 40	8	18537	18366
14	9 43	-	9 51	8	18547	18365
15	9 39	-	9 49	8	18554	18366
16	9 29	-	9 38	8	18546	18366
17	9 44	-	9 54	8	18556	18366
19	9 34	-	9 46	8	18563	18365
20	9 37	-	9 45	8	18555	18367
21	9 50	-	9 57	8	18560	18366
22	9 27	-	9 34	8	18559	18367
23	9 2	-	9 13	8	18560	18368
24	9 53	-	10 5	8	18548	18366
26	9 50	-	9 58	8	18529	18366
27	9 41	-	9 50	8	18559	18366
28	9 41	-	9 49	8	18598	18366
29	9 17	-	9 25	8	18539	18365
30	9 36	-	9 45	8	18536	18365
Apr. 3	8 42	-	8 50	8	18559	18365
4	8 6	-	8 19	8	18565	18366
5	8 39	-	8 47	8	18572	18365
6	8 31	-	8 39	8	18550	18366
7	8 40	-	8 49	8	18565	18365
9	8 50	-	8 59	8	18560	18366
10	8 38	-	8 46	8	18563	18365
11	9 27	-	9 38	8	18569	18366
12	9 26	-	9 38	8	18540	18365
13	8 38	-	8 46	8	18547	18364
14	8 48	-	8 56	8	18552	18364
17	8 55	-	9 8	8	18562	18364
18	8 40	-	8 49	8	18575	18363
19	8 53	-	9 8	8	18584	18363
20	9 21	-	9 32	8	18577	18363
21	9 23	-	9 34	8	18569	18364
23	8 37	-	8 46	8	18580	18365
24	8 16	-	8 25	8	18570	18364
25	8 50	-	8 59	8	18564	18363
26	8 52	-	8 59	8	18573	18364
27	8 38	-	8 46	8	18568	18365
28	8 38	-	8 46	8	18569	18365
30	8 36	-	8 45	8	18583	18365
May 1	8 0	-	8 11	8	18567	18365
2	8 37	-	8 46	8	18550	18363
3	8 52	-	8 59	8	18569	18365
4	8 8	-	8 19	8	18569	18364
5	8 43	-	8 51	8	18572	18365
7	8 19	-	8 33	8	18579	18364
10	8 53	-	9 6	8	18566	18364
11	8 1	-	8 12	8	18577	18363
12	8 41	-	8 49	8	18553	18362
14	9 14	-	9 23	8	18564	18363
15	7 53	-	8 4	8	18561	18363
16	8 53	-	9 6	8	18566	18363
17	8 51	-	8 59	8	18568	18362
18	8 40	-	8 48	8	18589	18362
22	8 45	-	8 53	8	18558	18362
23	7 44	-	7 54	8	18584	18363
24	8 53	-	9 0	8	18552	18363
25	8 12	-	8 21	8	18564	18364
26	8 26	-	8 36	8	18563	18363
May 28	8 47	-	8 55	8	18552	18363
29	7 43	-	7 54	8	18571	18363
30	9 4	-	9 15	8	18554	18362
31	8 52	-	9 0	8	18551	18363
June 1	8 3	-	8 14	8	18565	18362
4	8 49	-	8 57	8	18575	18362
5	7 17	-	7 27	8	18587	18363
6	9 21	-	9 31	8	18575	18363
7	9 24	-	9 35	8	18552	18362
8	9 38	-	9 47	8	18561	18362
9	8 57	-	9 11	8	18554	18362
11	8 46	-	8 55	8	18548	18363
12	7 27	-	7 36	8	18564	18361
13	8 41	-	8 49	8	18566	18362
14	8 50	-	8 58	8	18587	18363
15	7 59	-	8 10	8	18581	18363
16	8 33	-	8 41	8	18590	18363
18	8 40	-	8 49	8	18570	18361
19	7 34	-	7 44	8	18572	18362
20	8 51	-	8 58	8	18570	18362
21	8 58	-	9 14	8	18573	18362
22	7 52	-	8 4	8	18581	18362
23	8 40	-	8 47	8	18574	18362
25	8 35	-	8 46	8	18576	18362
27	9 45	-	10 1	8	18574	18361
28	10 27	-	10 39	8	18569	18361
29	10 47	-	10 58	8	18565	18360
30	9 46	-	9 59	8	18588	18360
July 2	8 44	-	8 52	8	18558	18360
3	8 41	-	8 50	8	18566	18360
4	8 52	-	8 59	8	18576	18360
5	8 18	-	8 26	8	18566	18360
6	8 17	-	8 25	8	18535	18360
7	8 46	-	8 57	8	18554	18359
9	8 44	-	8 52	8	18564	18359
10	7 38	-	7 49	8	18569	18360
11	8 45	-	8 53	8	18561	18360
12	8 44	-	8 52	8	18566	18360
13	7 57	-	8 8	8	18580	18359
16	9 37	-	9 45	8	18566	18358
17	10 21	-	10 33	8	18562	18360
18	7 40	-	7 53	8	18569	18359
19	9 45	-	9 52	8	18566	18359
20	9 41	-	9 48	8	18552	18359
21	9 40	-	9 49	8	18553	18359
23	9 4	-	9 14	8	18564	18360
24	8 49	-	9 0	8	18553	18358
25	9 38	-	9 46	8	18535	18357
26	9 21	-	9 32	8	18557	18359
27	8 48	-	9 0	8	18567	18359
28	9 25	-	9 37	8	18560	18360
30	9 41	-	9 51	8	18549	18358
31	9 27	-	9 40	8	18554	18360
Aug. 1	9 45	-	9 57	8	18570	18359
2	9 7	-	9 20	8	18554	18359
3	9 50	-	9 59	8	18559	18358
4	9 9	-	9 20	8	18551	18359

April 16. Recording Room Temperature raised from 11°·0 C to 16°·0 C.
July 14. Recording Room Temperature raised from 16°·0 C to 21°·0 C.

TABLE XIV. - RESULTS OF THE DETERMINATIONS OF THE ABSOLUTE VALUE OF HORIZONTAL INTENSITY FROM OBSERVATIONS MADE WITH THE SCHUSTER-SMITH COIL MAGNETOMETER IN THE MAGNETIC PAVILION AT ABINGER, WITH THE DEDUCED VALUES OF THE BASE-LINE OF THE HORIZONTAL INTENSITY MAGNETOGRAMS.

Universal Time				Nos. of Obs.	Observed Horizontal Intensity	Deduced Value of Base Line
	h m	h m			γ	γ
Aug. 7	9 39	9 51	8		18539	18358
8	9 53	10 7	8		18571	18359
9	9 16	9 29	8		18554	18359
10	9 0	9 11	8		18546	18359
11	9 47	9 55	8		18563	18358
13	9 53	9 59	8		18544	18358
14	10 31	10 41	8		18549	18358
17	8 56	9 7	8		18566	18360
18	8 56	9 14	8		18564	18359
20	9 40	9 48	8		18572	18359
21	9 31	9 41	8		18572	18358
22	9 47	9 55	8		18574	18357
23	9 49	9 57	8		18544	18356
24	8 57	9 8	8		18550	18357
25	9 33	9 46	8		18564	18358
27	9 39	9 47	8		18557	18355
28	9 33	9 45	8		18511	18357
29	9 54	10 9	8		18548	18357
30	9 48	9 56	8		18551	18355
31	10 32	10 43	8		18561	18355
Sept. 1	10 44	10 56	8		18549	18355
3	10 28	10 39	8		18571	18356
4	10 20	10 31	8		18563	18356
5	10 21	10 33	8		18556	18356
6	10 27	10 38	8		18558	18356
7	10 16	10 28	8		18554	18356
8	10 25	10 36	8		18552	18355
10	9 41	9 49	9		18559	18355
11	10 14	10 25	8		18562	18356
12	9 38	9 46	8		18561	18357
14	11 48	11 59	8		18568	18356
15	9 49	9 57	8		18564	18357
17	9 44	9 56	8		18508	18357
19	9 56	10 15	8		18545	18356
20	9 52	9 59	8		18549	18356
21	8 43	8 59	8		18567	18356
24	8 42	8 54	8		18568	18356
25	9 14	9 23	8		18585	18357
26	9 37	9 49	8		18554	18356
27	8 22	8 33	8		18573	18356
Sept. 28	8 24	8 39	8		18579	18358
29	9 12	9 20	8		18565	18357
Oct. 1	9 26	9 34	8		18550	18356
2	8 30	8 41	8		18570	18358
3	9 39	9 50	8		18557	18357
4	9 28	9 38	8		18559	18357
5	9 17	9 28	8		18554	18357
6	9 25	9 35	8		18558	18356
8	9 49	10 0	8		18563	18356
9	10 34	10 45	8		18557	18356
10	10 4	10 18	8		18547	18357
11	10 7	10 20	8		18558	18356
12	9 57	10 7	8		18591	18357
13	10 34	10 43	8		18549	18355
15	10 44	10 52	8		18553	18356
16	9 55	10 6	8		18564	18357
17	10 43	10 50	8		18530	18356
18	10 44	10 52	8		18548	18355
19	9 50	9 59	8		18564	18356
20	10 28	10 35	8		18563	18356
22	10 40	10 49	8		18567	18357
23	10 23	10 36	8		18561	18356
24	10 0	10 13	8		18539	18355
25	10 40	10 49	8		18510	18356
26	9 55	10 6	8		18538	18357
27	10 54	11 1	8		18555	18356
29	10 47	10 57	8		18542	18357
30	10 17	10 30	8		18559	18357
31	10 53	11 7	8		18560	18355
Nov. 1	11 25	11 33	8		18574	18356
3	9 39	9 52	8		18573	18356
5	10 51	10 59	8		18541	18356
6	10 6	10 18	8		18561	18356
7	10 43	10 56	8		18571	18356
8	10 41	10 50	8		18569	18356
9	10 45	10 58	8		18487	18356
10	10 51	10 59	8		18549	18356
Oct. 12	10 41	10 49	8		18549	18355
14	10 54	11 15	8		18541	18357
15	10 50	10 58	8		18564	18357
16	10 40	10 48	8		18573	18355
17	10 45	10 52	8		18561	18356
19	10 42	10 50	8		18583	18355
20	10 47	10 58	8		18575	18355
21	10 49	10 57	8		18580	18355
22	10 46	10 54	8		18576	18355
23	10 4	10 12	8		18576	18355
24	11 31	11 43	8		18574	18355
26	10 41	10 49	8		18575	18356
27	10 34	10 45	8		18586	18356
28	10 45	10 53	8		18584	18356
29	10 40	10 47	8		18581	18356
30	9 49	9 59	8		18572	18358
Dec. 1	10 32	10 44	8		18579	18357
3	10 37	10 45	8		18585	18355
4	10 43	10 52	8		18577	18356
5	11 42	11 56	8		18586	18355
6	9 54	10 4	8		18577	18356
7	10 33	10 42	8		18577	18357
8	9 51	10 3	8		18579	18357
10	10 46	10 54	8		18581	18356
11	10 49	10 56	8		18577	18356
12	10 52	10 59	8		18574	18357
13	10 57	11 12	8		18590	18356
14	9 59	10 9	8		18447	18355
15	9 54	10 6	8		18551	18356
17	10 47	10 55	8		18563	18355
18	10 38	10 45	8		18574	18355
20	11 5	11 17	8		18578	18355
21	10 38	10 45	8		18559	18355
22	9 48	9 59	8		18571	18357
24	9 58	10 9	8		18581	18355
27	10 37	10 50	8		18572	18355
28	10 24	10 37	8		18559	18355
29	10 48	10 55	8		18561	18356
31	10 22	10 29	8		18586	18355

November 13. Recording Room Temperature lowered from 21°·0 C to 16°·0 C.

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

Universal Time				Observed Horizontal Intensity	Deduced Value of Base Line
		h m	h m	γ	γ
May	15	8 41	9 55	18558	18362
	23	8 24	9 40	18576	18366
	29	8 29	9 43	18559	18365
June	5	8 23	9 36	18582	18364
	12	8 21	9 31	18567	18365
	19	8 30	9 43	18573	18366
July	10	8 31	9 50	18562	18364
	18	9 17	10 34	18556	18358
	24	9 29	10 36	18550	18362
Aug.	21	9 33	10 47	18588	18358
	28	9 35	10 49	18516	18360
Sept.	11	9 29	10 44	18563	18355
Oct.	9	10 18	11 28	18561	18360
	16	10 19	11 20	18561	18357
	23	10 15	11 17	18562	18359
	30	10 12	11 13	18559	18357
Nov.	6	10 14	11 13	18559	18358
	27	10 25	11 26	18592	18362

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		Nos. of Obs.	Observed Vertical Intensity	Deduced Value of Base Line
	h m	h m		γ	γ
Jan. 1	9 21 -	9 40	8	43202	43013
2	9 37 -	9 49	8	43193	43011
4	9 30 -	9 44	8	43201	43012
5	11 54 -	12 16	8	43200	43011
6	9 13 -	9 37	8	43204	43012
8	9 28 -	9 47	8	43202	43012
9	8 22 -	8 45	8	43202	43012
10	8 31 -	9 1	8	43199	43013
11	8 2 -	8 30	8	43204	43012
12	8 41 -	9 2	8	43203	43013
13	8 24 -	8 49	8	43199	43015
15	8 21 -	8 43	8	43196	43011
16	8 48 -	9 27	8	43204	43013
17	8 54 -	9 29	8	43203	43014
18	8 50 -	9 23	8	43200	43011
19	9 14 -	9 33	8	43200	43015
20	9 19 -	9 43	8	43199	43011
22	9 26 -	9 45	8	43205	43014
23	9 27 -	9 43	8	43203	43014
24	9 39 -	9 55	8	43202	43014
25	9 18 -	9 36	8	43204	43014
26	9 30 -	9 50	8	43197	43016
27	9 26 -	9 51	8	43204	43016
29	9 21 -	9 39	8	43194	43015
30	9 45 -	10 25	8	43196	43012
31	9 23 -	9 45	8	43202	43014
Feb. 1	9 20 -	9 39	8	43205	43015
2	9 13 -	9 32	8	43206	43015
3	9 23 -	9 47	8	43201	43014
5	9 30 -	9 58	8	43205	43015
6	9 15 -	9 38	8	43203	43014
7	9 22 -	9 40	8	43202	43015
8	9 18 -	9 39	8	43203	43015
9	9 19 -	9 37	8	43199	43016
10	9 20 -	9 46	8	43200	43017
12	9 20 -	9 39	8	43203	43015
13	9 17 -	9 40	8	43199	43014
14	9 18 -	9 34	8	43200	43016
15	9 22 -	9 43	8	43196	43014
16	9 14 -	9 31	8	43198	43014
17	9 31 -	9 54	8	43203	43013
19	9 28 -	9 49	8	43207	43015
20	9 12 -	9 34	8	43208	43018
21	9 33 -	9 55	8	43199	43017
22	9 29 -	9 53	8	43200	43017
23	9 20 -	9 44	8	43202	43016
24	9 22 -	9 47	8	43201	43019
26	9 25 -	9 47	8	43201	43016
27	9 27 -	9 47	8	43198	43018
28	9 35 -	9 53	8	43201	43016
Mar. 1	9 23 -	9 49	8	43199	43018
2	9 17 -	9 37	8	43198	43019
3	9 11 -	9 35	8	43196	43016
5	9 23 -	9 44	8	43204	43015
6	9 12 -	9 28	8	43205	43014
7	9 22 -	9 52	8	43203	43014
8	9 8 -	9 31	8	43204	43014
9	9 25 -	9 43	8	43203	43016
10	9 27 -	9 50	8	43198	43014
Mar. 12	9 17 -	9 41	8	43202	43015
13	9 5 -	9 25	8	43208	43014
14	9 17 -	9 37	8	43202	43016
15	9 13 -	9 35	8	43191	43017
16	9 5 -	9 22	8	43206	43016
17	9 13 -	9 38	8	43203	43014
19	9 9 -	9 27	8	43203	43014
20	9 18 -	9 33	8	43203	43016
21	9 21 -	9 46	8	43198	43015
22	9 7 -	9 22	8	43208	43016
23	9 20 -	9 39	8	43197	43016
24	9 29 -	9 50	8	43191	43016
26	9 23 -	9 44	8	43189	43014
27	9 16 -	9 34	8	43197	43017
28	9 18 -	9 37	8	43186	43016
29	8 51 -	9 10	8	43199	43018
30	9 16 -	9 31	8	43200	43018
Apr. 3	8 6 -	8 38	8	43208	43017
4	8 26 -	8 44	8	43207	43015
5	8 11 -	8 35	8	43209	43015
6	8 4 -	8 26	8	43215	43017
7	8 21 -	8 36	8	43205	43020
9	8 18 -	8 45	8	43203	43019
10	8 16 -	8 33	8	43204	43019
11	8 36 -	8 53	8	43186	43015
12	8 36 -	8 58	8	43201	43018
13	8 10 -	8 34	8	43200	43015
14	8 20 -	8 42	8	43204	43017
17	8 25 -	8 52	8	43203	43014
18	8 19 -	8 35	8	43205	43016
19	8 23 -	8 49	8	43197	43015
20	8 34 -	8 54	8	43194	43015
21	8 37 -	8 59	8	43207	43016
23	8 9 -	8 31	8	43201	43015
24	8 33 -	8 50	8	43197	43017
25	8 30 -	8 45	8	43200	43014
26	8 21 -	8 47	8	43197	43014
27	8 16 -	8 33	8	43202	43016
28	8 14 -	8 33	8	43206	43015
30	8 13 -	8 30	8	43197	43013
May 1	8 18 -	8 37	8	43204	43015
2	8 14 -	8 33	8	43191	43015
3	8 25 -	8 48	8	43199	43016
4	8 28 -	8 42	8	43196	43015
5	8 16 -	8 38	8	43205	43014
10	8 15 -	8 50	8	43200	43017
11	8 24 -	8 45	8	43192	43017
12	8 19 -	8 37	8	43201	43019
14	8 28 -	8 55	8	43202	43018
15	8 16 -	8 45	8	43209	43019
16	8 29 -	8 48	8	43202	43015
17	8 25 -	8 46	8	43202	43017
18	8 17 -	8 34	8	43199	43017
22	8 18 -	8 39	8	43206	43017
23	8 3 -	8 28	8	43205	43018
24	8 26 -	8 49	8	43205	43018
25	8 28 -	8 48	8	43202	43015
26	7 54 -	8 19	8	43207	43017
28	8 15 -	8 42	8	43203	43018
May 29	8 7 -	8 34	8	43207	43016
30	8 12 -	8 57	8	43202	43017
31	8 22 -	8 47	8	43207	43018
June 1	8 22 -	8 43	8	43197	43017
4	8 19 -	8 44	8	43208	43016
5	7 45 -	8 18	8	43205	43020
6	8 31 -	8 59	8	43200	43020
7	8 27 -	9 0	8	43199	43018
8	8 41 -	9 24	8	43192	43018
9	8 26 -	8 53	8	43199	43017
11	8 24 -	8 41	8	43198	43019
12	7 51 -	8 11	8	43209	43018
13	8 21 -	8 36	8	43204	43017
14	8 20 -	8 45	8	43206	43014
15	8 22 -	8 35	8	43209	43016
16	8 6 -	8 27	8	43200	43014
18	8 18 -	8 35	8	43206	43014
19	7 53 -	8 11	8	43198	43013
20	8 27 -	8 46	8	43195	43011
21	8 24 -	8 52	8	43200	43015
22	8 16 -	8 38	8	43204	43015
23	8 19 -	8 35	8	43195	43014
25	8 4 -	8 29	8	43199	43016
26	10 17 -	10 49	8	43191	43014
27	8 42 -	9 25	8	43189	43014
28	9 42 -	10 15	8	43192	43014
29	8 34 -	9 2	8	43195	43015
30	8 44 -	9 20	8	43201	43018
July 2	8 20 -	8 37	8	43200	43017
3	8 10 -	8 35	8	43200	43017
4	8 33 -	8 48	8	43197	43018
5	7 58 -	8 13	8	43196	43019
6	7 58 -	8 11	8	43183	43018
7	8 10 -	8 35	8	43207	43017
9	8 17 -	8 39	8	43199	43018
10	8 2 -	8 31	8	43204	43018
11	8 17 -	8 39	8	43207	43018
12	8 20 -	8 39	8	43199	43017
13	8 24 -	8 52	8	43204	43019
16	9 10 -	9 31	8	43203	43018
17	9 31 -	9 56	8	43197	43016
18	8 3 -	8 34	8	43205	43017
19	9 23 -	9 41	8	43202	43017
20	9 8 -	9 36	8	43198	43016
21	9 15 -	9 36	8	43203	43018
23	9 27 -	9 45	8	43198	43017
24	9 31 -	9 54	8	43198	43018
25	9 16 -	9 33	8	43198	43017
26	8 47 -	9 12	8	43208	43018
27	8 9 -	8 38	8	43207	43016
28	8 46 -	9 15	8	43192	43016
30	9 6 -	9 34	8	43196	43017
31	8 49 -	9 19	8	43209	43015
Aug. 1	8 51 -	9 37	8	43204	43017
2	8 23 -	8 58	8	43188	43018
3	9 0 -	9 33	8	43196	43017
4	8 27 -	9 1	8	43200	43016

April 16. Recording Room Temperature raised from 11°·0 C to 16°·0 C.
July 14. Recording Room Temperature raised from 16°·0 C to 21°·0 C.

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			Nos. of Obs.	Observed Vertical Intensity	Deduced Value of Base Line
	h m	h m		γ	γ
Aug. 7	9 0	9 30	8	43206	43017
8	9 15	9 42	8	43195	43018
9	8 40	9 8	8	43206	43018
10	9 27	9 46	8	43181	43017
11	9 22	9 42	8	43195	43016
13	9 27	9 49	8	43200	43017
14	9 24	9 57	8	43195	43018
17	9 22	10 25	8	43200	43019
18	9 36	9 57	8	43199	43016
20	9 18	9 33	8	43199	43017
21	8 39	9 17	8	43199	43020
22	9 19	9 42	8	43193	43018
23	9 16	9 45	8	43202	43021
24	8 27	8 48	8	43207	43020
25	8 49	9 23	8	43203	43019
27	9 10	9 35	8	43201	43020
28	8 48	9 22	8	43204	43021
29	9 33	9 50	8	43202	43018
30	9 24	9 43	8	43196	43018
31	9 24	9 58	8	43206	43021
Sept. 1	9 19	10 26	8	43197	43021
3	9 27	9 54	8	43200	43019
4	9 23	9 55	8	43198	43021
5	9 35	9 55	8	43192	43017
6	9 35	10 0	8	43202	43019
7	9 20	9 48	8	43199	43020
8	9 25	9 50	8	43197	43017
10	9 17	9 36	8	43196	43021
11	8 39	9 6	8	43200	43019
12	9 16	9 32	8	43200	43021
14	10 59	11 31	8	43198	43021
15	9 15	9 42	8	43201	43020
19	9 27	9 49	8	43214	43017
20	9 14	9 47	8	43209	43020
21	9 13	9 44	8	43207	43023
22	9 23	9 30	2	43207	43020
24	9 11	9 30	8	43208	43019
25	8 36	9 8	8	43198	43019
Sept. 26	8 53	9 27	8	43209	43017
27	8 47	9 6	8	43202	43017
28	8 50	9 23	8	43202	43017
29	8 49	9 6	8	43205	43017
Oct. 1	8 56	9 21	8	43214	43018
2	8 50	9 12	8	43206	43016
3	9 8	9 31	8	43208	43015
4	8 52	9 22	8	43215	43018
5	8 48	9 12	8	43210	43019
6	8 53	9 18	8	43202	43017
8	10 12	10 47	8	43205	43021
11	11 3	11 28	8	43186	43013
13	10 9	10 26	8	43204	43022
15	10 8	10 38	8	43206	43022
16	9 25	9 46	8	43207	43021
17	10 11	10 38	8	43209	43022
18	10 18	10 37	8	43207	43021
19	10 9	10 25	8	43202	43019
20	10 1	10 23	8	43198	43018
22	10 11	10 33	8	43195	43020
23	9 54	10 16	8	43204	43020
24	10 22	10 42	8	43192	43021
25	10 17	10 36	8	43201	43019
26	10 17	10 33	8	43211	43020
27	10 19	10 48	8	43211	43019
29	10 16	10 39	8	43208	43019
30	9 41	10 7	8	43208	43019
31	10 27	10 48	8	43202	43019
Nov. 3	12 10	12 28	8	43208	43019
5	10 24	10 48	8	43212	43020
6	9 35	9 57	8	43212	43020
7	10 11	10 33	8	43202	43018
8	10 12	10 36	8	43201	43018
9	10 9	10 34	8	43214	43020
10	10 24	10 46	8	43211	43020
12	10 14	10 35	8	43211	43019
14	10 26	10 48	8	43208	43020
Nov. 15	10 20	10 45	8	43209	43019
16	10 6	10 28	8	43209	43020
17	10 22	10 39	8	43211	43020
19	10 20	10 38	8	43207	43018
20	10 19	10 40	8	43208	43020
21	10 21	10 44	8	43204	43020
22	10 22	10 41	8	43205	43019
23	10 20	10 38	8	43202	43019
24	10 28	10 50	8	43206	43019
26	10 17	10 38	8	43203	43021
27	9 58	10 24	8	43208	43022
28	10 12	10 35	8	43205	43021
29	10 14	10 35	8	43207	43020
30	10 5	10 22	8	43211	43021
Dec. 1	10 3	10 25	8	43208	43022
3	10 11	10 30	8	43205	43020
4	10 10	10 35	8	43210	43021
5	10 40	11 18	8	43202	43020
6	10 19	10 46	8	43207	43019
7	10 2	10 29	8	43202	43019
8	10 23	10 50	8	43201	43021
10	10 20	10 40	8	43205	43020
11	10 20	10 44	8	43205	43021
12	10 25	10 50	8	43207	43020
13	10 25	10 53	8	43207	43020
14	10 17	10 39	8	43210	43020
15	10 20	10 44	8	43231	43020
17	10 21	10 41	8	43213	43019
18	10 7	10 34	8	43216	43018
19	10 16	10 31	8	43218	43020
20	10 30	10 53	8	43216	43020
21	10 14	10 31	8	43214	43020
22	10 10	10 33	8	43220	43021
24	10 27	10 41	8	43217	43020
27	9 47	10 28	8	43216	43020
28	9 38	10 14	8	43223	43021
29	10 23	10 43	8	43222	43021
31	10 0	10 16	8	43213	43021

November 13. Recording Room Temperature lowered from 21°·0 C to 16°·0 C.

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	43014	43019	43019	-	43024	43034	-	43015	43019	43024	43029	43022
2	14	-	26	-	18	-	43018	18	-	22	-	-
3	-	20	12	43019	19	-	16	22	24	23	26	21
4	17	-	-	20	18	28	19	20	21	20	-	22
5	16	21	17	20	22	29	20	-	20	21	24	20
6	18	21	15	21	-	25	20	-	21	23	26	20
7	-	26	23	24	22	30	18	24	19	-	25	21
8	17	20	23	-	-	30	-	18	17	25	20	24
9	18	13	17	18	-	27	19	19	-	25	20	-
10	16	13	17	24	22	-	17	20	18	25	21	20
11	18	-	-	21	22	25	20	18	17	26	-	29
12	16	13	-	21	24	26	17	-	18	22	26	20
13	14	14	14	20	-	26	23	15	-	-	-	20
14	-	13	19	22	22	24	-	16	20	-	22	24
15	13	16	18	-	16	23	-	-	20	24	21	22
16	13	14	20	-	26	21	20	-	-	23	21	-
17	14	13	17	21	20	-	16	16	-	24	20	26
18	21	-	-	17	23	25	16	16	-	22	-	25
19	18	14	17	18	-	20	14	-	21	26	25	26
20	14	18	15	16	-	19	17	17	25	23	25	23
21	-	20	16	20	-	20	13	19	23	-	26	29
22	18	18	16	-	21	23	-	26	-	22	21	23
23	17	17	17	18	21	20	19	22	-	-	25	-
24	16	18	19	17	18	-	24	-	18	21	23	23
25	13	-	-	20	21	24	22	19	17	24	-	-
26	17	21	16	21	21	-	18	-	18	27	23	-
27	16	17	19	21	-	22	20	21	20	-	24	24
28	-	21	22	20	23	14	-	23	23	-	24	25
29	15		21	-	23	20	-	22	24	24	22	25
30	17		20	16	20	16	16	23	-	19	23	-
31	22		-		24		16	24		25		23

April 16. Recording Room Temperature raised from 11°·0 C to 16°·0 C.
July 14. Recording Room Temperature raised from 16°·0 C to 21°·0 C.
November 13. Recording Room Temperature lowered from 21°·0 C to 16°·0 C.

Inductor bearings tightened - February 8 and June 28.

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
					1906	16 3·6	0·1854	0·4353	66 55·6
1861		0·1759		68 15·8	1907	15 59·8	0·1855	0·4357	66 56·2
1862	20 52·6	0·1763	0·4403	68 9·6	1908	15 53·5	0·1854	0·4356	66 56·3
1863	20 45·9	0·1764	0·4396	68 7·0	1909	15 47·6	0·1854	0·4348	66 54·1
1864	..	0·1767	0·4393	68 4·1	1910	15 41·2	0·1855	0·4345	66 52·8
1865	20 33·9	0·1767	0·4388	68 2·7	1911	15 33·0	0·1855	0·4342	66 52·1
1866	20 28·0	0·1773	0·4397	68 1·3	1912	15 24·3	0·1855	0·4340	66 51·8
1867	20 20·5	0·1777	0·4392	67 57·2	1913	15 15·2	0·1853	0·4333	66 50·5
1868	20 13·1	0·1779	0·4395	67 56·5					
1869	20 4·1	0·1782	0·4396	67 54·8	1914	15 6·3	0·1853	0·4333	66 50·8
1870	19 53·0	0·1784	0·4392	67 52·5	1915	14 56·5	0·1851	0·4331	66 51·6
1871	19 41·9	0·1786	0·4389	67 50·3	1916	14 46·9	0·1848	0·4326	66 52·2
1872	19 36·8	0·1789	0·4383	67 47·8	1917	14 37·1	0·1848	0·4330*	66 53·0
1873	19 33·4	0·1793	0·4386	67 45·8	1918	14 27·8	0·1846	0·4325	66 52·8
1874	19 28·9	0·1797	0·4387	67 43·6	1919	14 18·2	0·1845	0·4324	66 53·3
1875	19 21·2	0·1797	0·4383	67 42·4	1920	14 8·6	0·1845	0·4325	66 53·6
1876	19 8·3	0·1799	0·4383	67 41·0	1921	13 57·6	0·1845	0·4322	66 53·0
1877	18 57·2	0·1800	0·4381	67 39·7	1922	13 46·7	0·1844	0·4318	66 52·3
1878	18 49·3	0·1802	0·4382	67 38·2	1923	13 35·1	0·1843	0·4314	66 51·9
1879	18 40·5	0·1805	0·4382	67 37·0	1924	13 22·8	0·1843	0·4311	66 51·6
1880	18 32·6	0·1805	0·4380	67 35·7	1925	13 9·9	0·1841	0·4308	66 51·4
1881	18 27·1	0·1807	0·4379	67 34·7					

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

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

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

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

TABLE XVI (B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS DETERMINED AT THE ABINGER MAGNETIC STATION, FOR THE YEARS 1925-1945.

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
1942	10	24·8	0·18554	0·43146	66	43·9
1943	10	16·2	0·18556	0·43172	66	44·5
1944	10	7·8	0·18566	0·43189	66	44·3
1945	9	59·5	0·18573	0·43207	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 Coil-magnetometers.

* Discontinuites of - 1·7γ in H and - 3·9γ in Z were introduced in 1938. See Introduction pp. x and xi.

January – A short disturbance on 1^d began at 18^h and had as its chief movement a wave in H (+60γ) at $20\frac{1}{4}^h$, with a similar wave in D (-10′). From 2^d 3^h to 9^d 16^h slight general unsteadiness was the prevailing condition, but a rather prominent wave in D (-10′) occurred at 3^d 19^h and a short disturbance extended from 4^d 16^h to 5^d 3^h, comprising a range of 75γ in H and two waves in D (-12′) at 4^d 20^h and $21\frac{1}{4}^h$ respectively. The first considerable disturbance of the month began at 9^d $21\frac{3}{4}^h$ with a rapid decrease in D (21′). This recovered between $22\frac{1}{2}^h$ and $0\frac{1}{2}^h$ on 10^d. The movements in all traces were then oscillatory in character, growing smaller after 10^d 3^h and ultimately ceasing rather abruptly at 10^d 20^h. A nearly quiet period followed, which ended at 12^d 16^h when a series of irregular movements of no great amplitude were recorded between 12^d 16^h and 13^h 6^h, the largest being a wave in D (+7′). A further quiet period came to an end at 14^d 21^h. Erratic movements in H then began and these developed rapidly after 15^d 4^h into a brisk disturbance lasting until 16^d 2^h. The principal features were:– a decrease in D (21′) between $15\frac{3}{4}^h$ and 17^h followed by a fluctuating recovery; an increase in Z (75γ) between 13^h and 17^h followed by a slow decrease; several sharp movements in H approximating to 100γ, the last of which, accompanied by less prominent movements in D and Z, marked the end of the disturbance (Plate I). On the next four days considerable irregularities were shown by the traces for about six hours during the night, a prominent wave in D (-14′) at 17^d $19\frac{3}{4}^h$ and a second (-9′) at 19^d $19\frac{1}{2}^h$ being the most noticeable features. From 22^d 0^h to 24^d 0^h only slight unsteadiness was shown and even this practically ceased between 24^d 0^h and 26^d 6^h. Irregularities then became numerous until 28^d 16^h when the largest disturbance of the month began to develop. Activity was greatest between 28^d 23^h and 29^d 6^h during which period the range in H was 120γ, in D 25′ and in Z 70γ. Movements were renewed but with much less frequency, (though still nearly as large) at 29^d 14^h, but finally ceased at about 30^d 6^h. (Plate II).

The range in declination during the month was from 9° 42′·0 on 29th to 10° 15′·6 on 10th; in horizontal intensity, from ·18452 on 15th to ·18608 on 1st; in vertical intensity, from ·43144 on 29th to ·43282 on 15th.

February – The first day was nearly quiet, but large irregularities began to appear in the traces from 2^d 12^h and considerable unsteadiness remained as the prevailing character of the field until the end of 11th. Notable periods were 5^d 4^h to 10^h (a range of 85γ in H and 9′ in D) and 8^d 12^h to 10^d 12^h. The period from 13^d 0^h to 14^d 16^h was quiet. At about 14^d 18^h a spell of moderate activity began which lasted, with only short intermissions, until 18^d 6^h. The principal movements occurred at 15^d 1^h, at 15^d 19^h to 16^d 2^h (a range of 80γ in H, 50γ in Z and 15′ in D) at 16^d $18\frac{1}{4}^h$ (a steep wave in H, +90γ, accompanied by a similar wave in D, -19′), and at 17^d 20^h. From 18^d 6^h to 22^d 21^h conditions were nearly quiet, although occasional slight unsteadiness was recorded. The character then reverted to continuous general unsteadiness. A prominent peak in H (+60γ) occurred at 25^d 1^h and in D (-15′) at 25^d $20\frac{1}{2}^h$. The most active disturbance of the month began abruptly at 26^d 14^h 50^m. H decreased 70γ in half an hour and within the first four hours there was a range of 24′ in D. Other relatively large movements were: a wave in H (+80γ) at 26^d $20\frac{1}{2}^h$; a steep wave in H (+100γ) at 27^d $19\frac{1}{2}^h$. In both cases there was a corresponding wave in D, -12′ at 26^d $20\frac{1}{2}^h$ and +15′ at 27^d $19\frac{1}{2}^h$. Apart from these movements the disturbance presented no noteworthy features and had virtually ended by 28^d 0^h.

The range in declination during the month was from 9° 43′·1 on 26th to 10° 11′·1 on 5th; in horizontal intensity, from ·18506 on 26th to ·18650 on 27th; in vertical intensity, from ·43181 on 23rd to ·43238 on 26th.

March – At the beginning of the month conditions were rather unsteady, particularly on 3rd. The unsteadiness increased on 5th and by 15^h had reached the dimensions of a mild disturbance. Between 5^d 17^h and 21^h D decreased 15′ while H showed a marked tendency to oscillate in a semi-regular manner, and there was a much increased diurnal range in Z (70γ). Generally

disturbed conditions prevailed until $8^d\ 18^h$ and then a short quiet period ensued until $9^d\ 18^h$, followed by further irregularity. Quiet was temporarily re-established from $10^d\ 0^h$ to 23^h, after which a period of considerable activity set in. The first movement was a prominent wave in H at $11^d\ 0^h$ (+100γ), accompanied by a rapid decrease in Z (50γ) and followed by a series of three oscillations in D, the last having an amplitude of 15′. From $11^d\ 5^h$ to 20^h the traces showed numerous irregularities, though few movements exceeded 30γ; unsteadiness then notably decreased until $12^d\ 9^h\ 46^m$ when an abrupt change occurred in all elements, the first indication of the onset of a brisk disturbance. The earlier movements were remarkable for the rapidity of their succession rather than their extent. As the storm progressed, however, several waves in H exceeded 100γ, each being accompanied by a 20′ wave in D. A temporary increase in Z (80γ) preceded the climax. The latter occurred at about $12^d\ 21^h$, after which hour activity rapidly subsided, quiet conditions being established by $13^d\ 2^h$ (Plate III). A second and more prolonged disturbance began at $14^d\ 20^h$. The major part was comprised within the period $15^d\ 0^h$ to $16^d\ 0^h$ and is illustrated in Plate IV. Isolated movements with much general unsteadiness continued to appear on the six following days, among the largest being a wave in D (-15′) at $16^d\ 17\frac{1}{2}^h$, another (-20′) at $20^d\ 21^h$ and a third (-16′) at $21^d\ 19^h$. From $21^d\ 21^h$ to $24^d\ 8^h$ conditions were quiet. Considerable unsteadiness then set in, which subsided temporarily, from $25^d\ 3^h$ to 16^h, but afterwards rapidly increased until the dimensions of a moderate disturbance were reached at about $25^d\ 23\frac{1}{2}^h$. The disturbance continued, with little intermission, until $29^d\ 15^h$ after which it declined quickly and had virtually ceased by $29^d\ 21^h$. The principal movements were:- in D, a decrease of 24′ between $26^d\ 0^h$ and 2^h and a prominent bay (-20′) between $26^d\ 18^h$ and 20^h; in H, a broad wave (+80γ) from $26^d\ 0^h$ to 2^h, a rapid decrease (100γ) between $26^d\ 6\frac{1}{2}^h$ and 9^h, other prominent peaks approaching 100γ at $26^d\ 17\frac{1}{2}^h$, $19\frac{1}{2}^h$, 23^h and two specially noticeable bays reaching -150γ at $28^d\ 10\frac{1}{2}^h$ to 12^h and 13^h to $14\frac{1}{2}^h$ respectively; in Z, a temporary decrease (40γ) between $26^d\ 0^h$ and 3^h, a rapid increase (50γ) from $26^d\ 14^h$ to 16^h, a fluctuating decrease (35γ) between $26^d\ 23^h$ and 24^h slowly recovering, and pronounced unsteadiness between $27^d\ 20\frac{1}{2}^h$ and $28^h\ 3^h$ and again between $28^d\ 11^h$ and 14^h (Plate V). The period from $30^d\ 0^h$ to the end of the month was practically quiet.

The range in declination during the month was from 9° 39′·6 on 20th to 10° 17′·6 on 28th; in horizontal intensity, from ·18452 on 28th to ·18661 on 11th; in vertical intensity, from ·43131 on 15th to ·43268 on 12th.

April – A brisk disturbance began abruptly at $1^d\ 4^h\ 59^m$. The individual movements were seldom greater than about 30γ but were very numerous, agitation being specially noticeable between $1^d\ 10\frac{1}{2}^h$ and 13^h. In particular there was a decrease of 110γ in H in the three minutes $10^h\ 37^m$ – 40^m with several comparable changes before and after this movement. The disturbance ended at $2^d\ 3^h$, the last prominent movement being a wave in D (+15′) at $1\frac{3}{4}^h$. Apart from a few isolated irregularities conditions were quiet from $3^d\ 0^h$ to $5^d\ 16^h$. A disturbed period then began which lasted until $9^d\ 0^h$. The principal features were: a steep wave in all traces at $5^d\ 20^h$ – 21^h (+120γ in H, -17′ in D, -30γ in Z); similar, though rather smaller movements at $6^d\ 17^h$ – 18^h; a detached period of activity, specially involving Z, between $7^d\ 22^h$ and $8^d\ 4^h$. From $9^d\ 0^h$ to $11^d\ 7^h$ there was a further nearly quiet interval. This was terminated by an abrupt movement in all traces at $7^h\ 28^m$. A state of brisk activity developed within the next two hours, characterised at first by numerous small oscillations which continued afterwards, superposed on the main movements, until about $11^d\ 18^h$. The disturbance lasted, with short intermissions, until $15^d\ 4^h$ by which time activity had decreased to little more than marked unsteadiness. Among its principal features were: in H, a temporary decrease (100γ) at $11^d\ 12^h$ – 14^h and a prominent wave (+90γ) at $12^d\ 20\frac{1}{2}^h$ – 22^h; in D, a wave (+14′) at $14^d\ 2\frac{3}{4}^h$; in Z, an oscillatory increase (60γ) between $11^d\ 12^h$ and $16\frac{1}{2}^h$, a similar decrease (40γ) between $11^d\ 21\frac{3}{4}^h$ and $12^d\ 1\frac{1}{2}^h$ and enlarged diurnal ranges generally. Unsteadiness prevailed during succeeding days, though the period $17^d\ 3^h$ to $18^d\ 23^h$ was nearly quiet. There was a prominent isolated wave in D (-12′) at $22^d\ 20\frac{1}{2}^h$ and irregularity was specially great between $19^d\ 12^h$ and $20^d\ 16^h$, as also between $23^d\ 12^h$ and $25^d\ 0^h$. Thereafter a return to nearly quiet conditions was apparent which lasted until $29^d\ 13^h$. Unsteadiness set in again and increased rapidly during 30th, chiefly in H.

The range in declination during the month was from 9° 46′·7 on 5th to 10° 17′·6 on 1st; in horizontal intensity, from ·18498 on 11th to ·18646 on 12th; in vertical intensity, from ·43171 on 24th to ·43247 on 1st.

May – On each of the first seven days the traces were very irregular, the movements being occasionally large enough to indicate a state of mild disturbance. Such was the case between $2^d\ 0^h$ and 6^h and again between $3^d\ 13^h$ and 21^h. Conditions were almost quiet from $8^d\ 4^h$ to $9^d\ 12^h$. A period of considerable activity then set in, beginning abruptly at $9^d\ 12^h\ 50^m$. The principal movements were at $9^d\ 16^h - 18^h$ (a wave in H, −70γ) and at $10^d\ 21^h - 23^h$ (a wave in D, −14′, and in H, +50γ). Oscillations were numerous on 11th, but from $12^d\ 0^h$ there was a definite diminution of the amplitude until $18^d\ 12^h$ when there was a return to the conditions prevailing on 10th. Each succeeding day saw at least one short spell of activity, with the exception of 22nd (which was nearly quiet), the most notable case being on 30th. Between $30^d\ 14^h$ and $31^d\ 1^h$ several movements in H exceeded 50γ, while from $30^d\ 20\frac{1}{2}^h$ to $21\frac{3}{4}^h$ D decreased 10′.

The range in declination during the month was from 9° 46′·9 on 10th to 10° 12′·3 on 11th; in horizontal intensity, from ·18529 on 11th to ·18638 on 10th; in vertical intensity, from ·43168 on 23rd to ·43242 on 11th.

June – During the first five days only a few irregularities appeared on the traces and these were small. Towards the end of 5^d, however, they became very numerous and from $6^d\ 6^h$ to $11^d\ 6^h$ a state of mild disturbance existed. The movements seldom exceeded 30γ in H, and from 8^d steadily declined in range, though not in frequency. From $12^d\ 0^h$ continuous general unsteadiness characterised the traces until the end of the month, but there were some nearly quiet spells, among which may be mentioned $14^d\ 3^h$ to 18^h, $15^d\ 18^h$ to $16^d\ 14^h$, $22^d\ 0^h$ to 14^h and $23^d\ 19^h$ to $24^d\ 19^h$. At $30^d\ 3^h\ 28^m$ there was a small abrupt movement in all traces, probably the sign of an approaching disturbance. The disturbance began to develop at $30^d\ 12^h$ and before the month ended there was one movement of 100γ in H, ($30^d\ 16\frac{1}{3}^h$ to 17^h) but the disturbance properly belongs to July.

The range in declination during the month was from 9° 49′·2 to 10° 11′·3 both on 6th; in horizontal intensity, from ·18520 on 6th to ·18643 on 30th; in vertical intensity, from ·43176 on 1st to ·43232 on 6th.

July – The disturbance which was in progress at the beginning of the month was only of moderate intensity and ended at about $2^d\ 4^h$. The principal movements were in H, and of these none exceeded 100γ, but there was a prominent wave in D (−15′) at $1^d\ 0\frac{3}{4}^h$, while between $1^d\ 2^h$ and 8^h a decrease of 30γ in Z was recorded. Conditions remained very unsteady for several days, particularly during the periods $4^d\ 8^h$ to $5^d\ 3^h$ and $6^d\ 5^h$ to 18^h. Between $6^d\ 6^h\ 20^m$ and $7^h\ 40^m$ H decreased 100γ. Prominent movements in D occurred at $6^d\ 5\frac{1}{2}^h$ (+13′) and at $8^d\ 4^h - 5\frac{1}{2}^h$ (−14′). From 9^d the unsteadiness diminished to a great extent, and after $10^d\ 4^h$ only slight irregularities were shown on the traces. This period of relative quiet ended at $16^d\ 12^h$. Brisk activity then commenced which culminated in a double wave in H (±60γ) between $17^d\ 16\frac{3}{4}^h$ and $18\frac{1}{2}^h$. Quiet conditions were re-established at $19^d\ 8^h$, lasting, with only slight interruptions, until $23^d\ 12^h$. A further short period of activity followed, in which the principal features were a temporary decrease in D (16′) from $23^d\ 21\frac{1}{4}^h$ to $22\frac{1}{2}^h$, slowly recovering, and a range of 100γ in H between $23^d\ 22\frac{1}{4}^h$ and $24^d\ 0^h$. The interval from $24^d\ 20^h$ to $28^d\ 1\frac{1}{2}^h$ was nearly quiet. Activity was then renewed and became very pronounced towards the end of 29^d, and there were movements of 50γ in H and 10′ in D. After $30^d\ 15^h$, however, it rapidly declined, ceasing altogether at $31^d\ 6^h$.

The range in declination during the month was from 9° 46′·6 to 10° 11′·7, both on 1st; in horizontal intensity, from ·18508 on 1st to ·18659 on 17th; in vertical intensity, from ·43153 to ·43248 both on 1st.

August – There was slight activity on 1st and 2nd, the principal movements being a wave in H (-60γ) at $2^d\ 3\frac{3}{4}^h$, a decrease in D (12′) between $2^d\ 4^h$ and 5^h and a temporary decrease in Z (40γ) extending from $2^d\ 1^h$ to 6^h. Conditions then became mainly unsteady, (occasionally almost quiet), with no marked features, a character which lasted until the end of 8th. Two quiet days followed, after which the prevailing unsteady conditions were resumed, outstanding periods being $14^d\ 0^h$ to $15^d\ 0^h$ and $15^d\ 16^h$ to $16^d\ 2^h$. Another quiet interval began at $17^d\ 22^h$, lasting until $22^d\ 16^h$, but interrupted between $21^d\ 10^h$ and 19^h by a brief spell of unsteadiness. A period of brisk activity – chiefly in H – began with an abrupt movement at $22^d\ 15^h\ 58^m$. It ended at $23^d\ 5^h$, having no features of particular interest and no ranges exceeding 60γ. A further quiet period set in, which terminated about $27^d\ 0^h$, when small movements began to appear on the traces. At $28^d\ 1^h\ 45^m$ a very prominent movement began in all three elements in the form of a nearly regular wave. The increase in H was 150γ; while in Z. there was a decrease of 100γ. The range in D was 25′. Normal values were regained by $28^d\ 5^h$, but conditions remained rather unsteady for the rest of the month.

The range in declination during the month was from 9° 46′·8 on 16th to 10° 9′·6 on 22nd; in horizontal intensity, from ·18503 to ·18689, both on 28th; in vertical intensity, from ·43119 on 28th to ·43242 on 22nd.

September – At the beginning of the month conditions were rather unsteady, and unsteadiness temporarily increased on 4th, when there was a conspicuous wave in H (-60γ) between $6\frac{3}{4}^h$ and 9^h and a sharp movement in D (-10′) at $19\frac{1}{4}^h$. From $7^d\ 15^h$ to $8^d\ 20^h$ there were few irregularities on the traces, but at $8^d\ 20^h\ 52^m$ a sharp increase in H occurred (35γ) accompanied by minor changes in the other elements. No disturbance followed, however, and apart from the general unsteadiness prevailing, there was no significant activity until $11^d\ 18^h$. Between $11^d\ 18^h$ and $12^d\ 5^h$ prominent waves appeared on each trace, – in H, at 21^h (+70γ) and at $1\frac{1}{2}^h$ (+50γ); in D, at $1\frac{1}{2}^h$ (+10′); in Z, at 2^h (-30γ). The general unsteadiness then returned, but gradually diminished until $16^d\ 23^h$. The next fifty-two hours comprised the only real disturbance of the whole month. Developing gradually, it reached its climax at about $18^d\ 16^h$ and had virtually ceased at $19^d\ 3^h$. The movements were numerous but, on the whole, of moderate range. Changes in D exceeded 10′ at $17^d\ 0\frac{1}{2}^h$ (+12′); at $17^d\ 14\frac{3}{4}^h$ to $17\frac{1}{2}^h$ (-20′) and at $18^d\ 14\frac{1}{4}^h$ to $17\frac{1}{2}^h$ (-25′) the value then remaining below normal until $19^d\ 0\frac{3}{4}^h$. Conspicuous changes in H occurred at $16^d\ 8\frac{3}{4}^h$ to $9\frac{1}{2}^h$ (-80γ) and at $17^d\ 21\frac{1}{2}^h$ (+75γ), while at the climax of the disturbance several movements approached 100γ. The noteworthy feature in Z was the steady increase between $18^d\ 13^h$ and 16^h, (90γ), followed after two hours by a general decrease to the normal value which was reached by $18^d\ 22^h$. During the remainder of the month the prevailing condition was moderate general unsteadiness, but a few intervals were practically quiet. Such were:- $20^d\ 12^h$ to $21^d\ 8^h$ and $23^d\ 6^h$ to $24^d\ 18^h$.

The range in declination during the month was from 9° 42′·8 on 18th to 10° 10′·2 on 17th; in horizontal intensity, from ·18480 to ·18635, both on 17th; in vertical intensity, from ·43174 on 17th to ·43298 on 18th.

October – Irregularities were few and unimportant during the first four days. Signs of increasing activity appeared after $5^d\ 17^h$, but apart from a short spell between $7^d\ 19^h$ and $8^d\ 2^h$ during which oscillatory changes in H and D occurred ranging over 80γ and 15′ respectively, there was

no marked departure from a state of general unsteadiness until 12th. Indeed the interval between $9^d\ 10^h$ and $11^d\ 21^h$ was practically quiet. The first important disturbance of the month began abruptly at $12^d\ 10^h\ 5^m$ and continued about fifteen hours. The general character of the movements was oscillatory, the largest wave in H barely exceeding 70γ; but a prominent increase in Z took place between $12^d\ 13\frac{1}{2}^h$ and $14\frac{1}{2}^h$ (40γ). There was also a prominent wave in D at $18\frac{1}{2}^h$ (-14′). Many irregularities and small isolated waves appeared on the traces during the next ten days, particularly on 16th, while between $19^d\ 20^h$ and $20^d\ 3^h$ there was a brief spell of continuous activity which included a wave in H (+80γ) at $19^d\ 21^h$. It was not, however, until 24th that the next period of marked disturbance occurred. The first indication was a small but abrupt movement in all traces at $23^d\ 23^h\ 40^m$. The disturbance developed slowly, but was fully active by $24^d\ 14^h$, continuing thus until $25^d\ 5^h$, after which it gradually decayed, ceasing finally at about $26^d\ 2^h$ (Plates VI and VII). The ranges were, respectively, in H 165γ, in Z 85γ, in D, 40′. A short nearly quiet period followed, which ended at $27^d\ 14^h$. Between $27^d\ 20^h$ and $29^d\ 2^h$ there was further brisk activity. The principal movements occurred near $28^d\ 0^h$ and comprised two prominent waves in D and in Z. Those in D were -20′ and -17′ respectively; those in Z -30γ and -40γ. The disturbance died away rapidly after a steep wave in H (+80γ) at $28^d\ 20\frac{1}{2}^h$, being succeeded by a condition of moderate unsteadiness.

The range in declination during the month was from 9° 29′·5 on 28th to 10° 11′·1 on 12th; in horizontal intensity, from ·18479 on 25th to ·18647 on 19th; in vertical intensity, from ·43156 on 28th to ·43268 on 25th.

November – Nearly quiet conditions prevailed until $4^d\ 12^h$. At $4^d\ 13^h\ 1^m$ there was a sudden movement in all traces (+23γ in H) but no obvious increase in activity occurred until $4^d\ 21^h$ when a few moderate oscillations were recorded ending at about $5^d\ 5^h$. Practically quiet conditions then returned and lasted until $8^d\ 12^h$. A period of considerable activity followed. Beginning at about $8^d\ 15\frac{1}{2}^h$, disturbance gradually increased to a climax at $9^d\ 6^h$ to 10^h and then declined to relative quiescence, which was established by $10^d\ 6^h$. The salient features of the disturbance were: an oscillatory decrease of D (20′) between $8^d\ 17^h$ and 21^h accompanied by less prominent temporary changes of intensity; a wave in D (+18′) at $9^d\ 6^h$ to 8^h followed by a rapid decrease of H (120γ) from $9^d\ 7\frac{1}{2}^h$ to $9\frac{3}{4}^h$; a wave in D (-15′) at $9^d\ 16\frac{1}{2}^h$. Conditions remained variably unsteady for several days, with occasional isolated waves standing out on the traces – the most notable occurring at $12^d\ 19\frac{3}{4}^h$ and $16^d\ 22\frac{1}{2}^h$ – and then a quiet period set in which lasted from $17^d\ 13^h$ to $21^d\ 20^h$. A short spell of unsteadiness was recorded between $21^d\ 20^h$ and $22^d\ 5^h$, but generally quiet conditions prevailed for some days longer and it was not until $28^d\ 18^h$ that further unsteadiness became apparent. A prominent wave in D (-15′) at $29^d\ 20^h$ was the only notable feature, however, in the remaining period.

The range in declination during the month was from 9° 41′·3 on 8th to 10° 16′·7 on 9th; in horizontal intensity, from ·18471 on 9th to ·18648 on 16th; in vertical intensity, from ·43193 to ·43255 both on 9th.

December – Excepting a small wave in D at $2^d\ 23\frac{1}{4}^h$, conditions were quiet during the first four days. At $5^d\ 18\frac{1}{2}^h$ considerable unsteadiness began and persisted, generally, until $10^d\ 6^h$. The movements were of the order of 10 to 20γ in H, while two or three approached 10′ in D. A second quiet period followed, lasting from $10^d\ 8^h$ to $13^d\ 11^h$, terminated by what proved to be the largest disturbance of the year. This began with a sudden movement in all traces, at $13^d\ 12^h\ 40^m$, but did not develop until some six hours later. The period of greatest activity was from $14^d\ 2^h$ to 10^h and comprised ranges respectively, of 45′ in D, 180γ in H and 130γ in Z. Activity ceased abruptly at $14^d\ 15\frac{3}{4}^h$ (Plate VIII). Relatively quiet conditions prevailed during the next five days, but isolated waves appeared on the declination trace at $15^d\ 22\frac{1}{2}^h$ (-8′) and $17^d\ 0\frac{1}{2}^h$ (+7′) and there was seldom complete steadiness. A brisk though short-lived, disturbance occurred between $19^d\ 18^h$ and $20^d\ 7^h$, the principal features of which were its sudden commencement at $18^h\ 11^m$ and the range in H, 150γ, – the whole of this range being

comprised within thirty six minutes $23^h\ 10^m - 46^m$. It was followed by a period of disturbance having a marked oscillatory character and lasting from $20^d\ 16^h$ to $21^d\ 6^h$. This disturbance may have been a prolongation of the one immediately preceding, though different in appearance. The oscillations, – about one per hour – averaged 40γ in H and some in D reached 10′. The last prominent movement was an increase in H (70γ) between $21^d\ 3\frac{1}{2}^h$ and 4^h. The interval from $21^d\ 8^h$ to $23^d\ 16^h$ was quiet or nearly so. From then onwards to the end of the month, the prevailing condition was one of very considerable activity. The initial movement was of the sudden type and appeared at $23^d\ 16^h\ 18^m$. A short disturbance followed from $23^d\ 20^h$ to $24^d\ 2^h$, including a range of 80γ in H, a temporary increase of 30γ in Z and a range of 13′ in D. Beginning at $25^d\ 7\frac{1}{2}^h$ there was a prolonged period of continuous disturbance, the activity in which had not completely subsided on 31st. The principal movements to be noted were: at $25^d\ 16\frac{1}{2}^h$ a wave in D (-16′) and in H (-90γ) followed by many irregular oscillations; a slow surge in Z (+60γ) between $25^d\ 16^h$ and $26^d\ 1^h$; a wave in D (+13′) at $26^d\ 1\frac{1}{2}^h$; a rapid increase in H (75γ) at $27^d\ 14^h$; a wave in D (-25′) between $27^d\ 17\frac{1}{2}^h$ and $20\frac{1}{2}^h$; a rather steep wave in H (+80γ) at $23^d\ 22^h$.

The range in declination during the month was from 9° 29′·0 to 10° 13′·5, both on 14th; in horizontal intensity, from ·18425 on 14th to ·18661 on 19th; in vertical intensity, from ·43155 to ·43284, both on 14th.

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

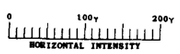
Declination: 10° 17′·6 on March 28 and April 1; 9° 29′·0 on December 14.
Horizontal Intensity: ·18689 on August 28; ·18425 on December 14.
Vertical Intensity: ·43298 on September 18; ·43119 on August 28.

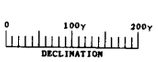
REPRODUCTIONS OF MAGNETOGRAMS

ABINGER

1945

SCALES





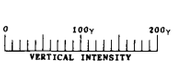
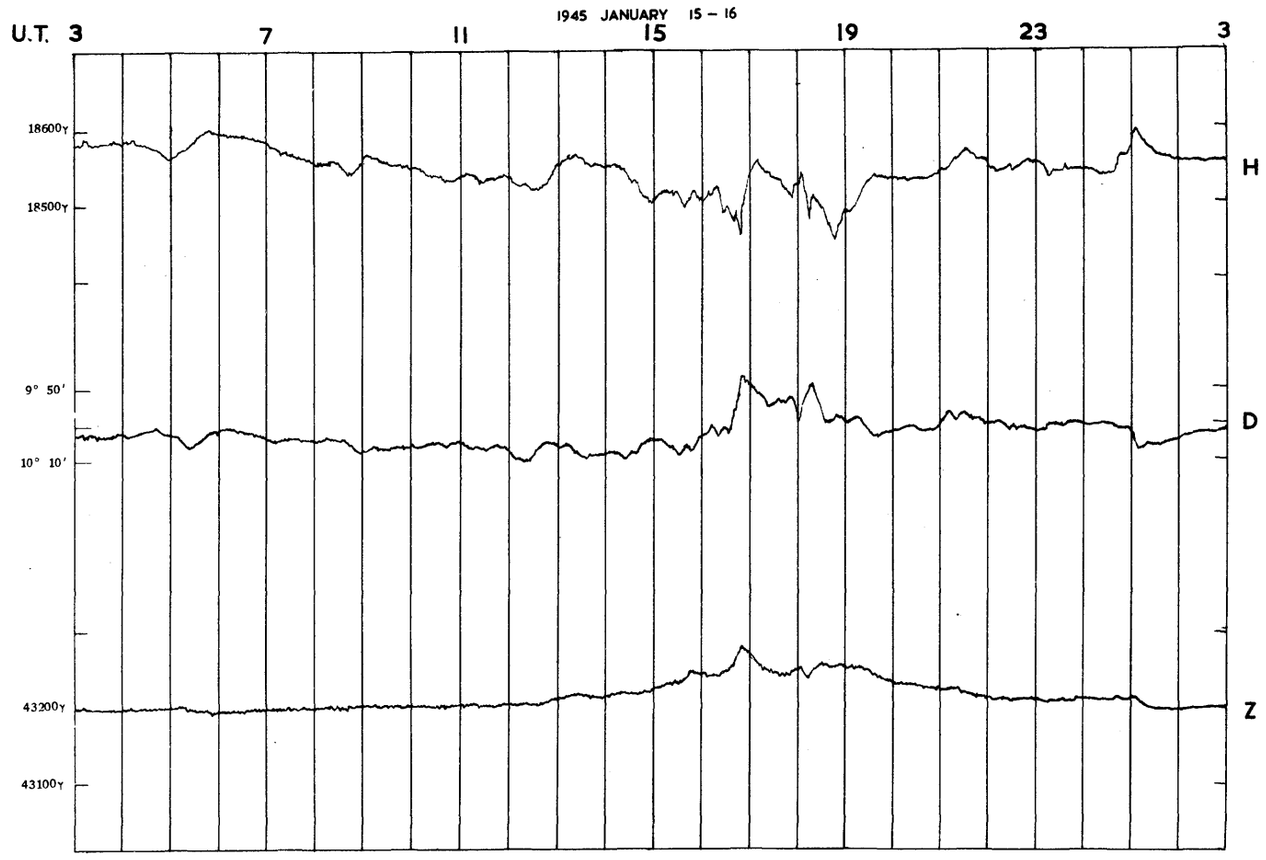


Plate I



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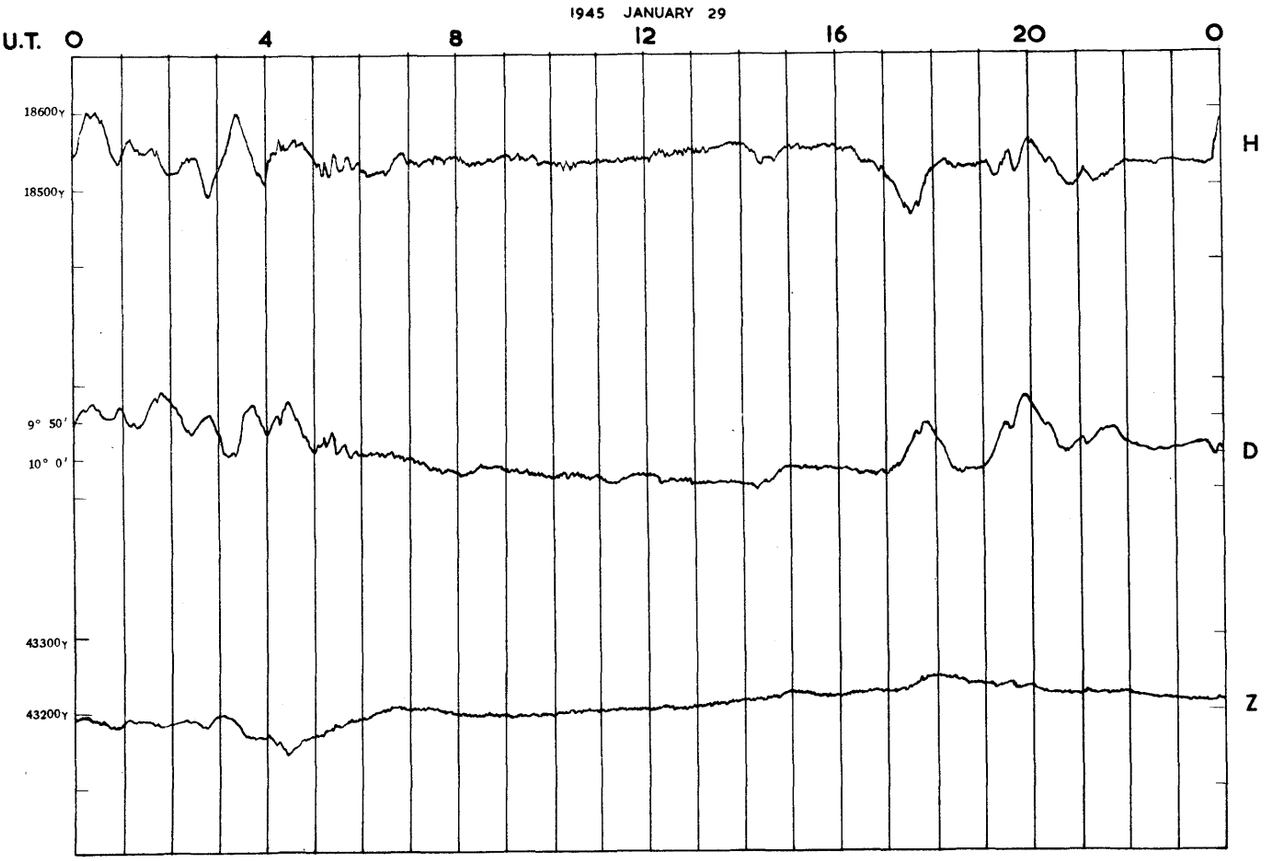

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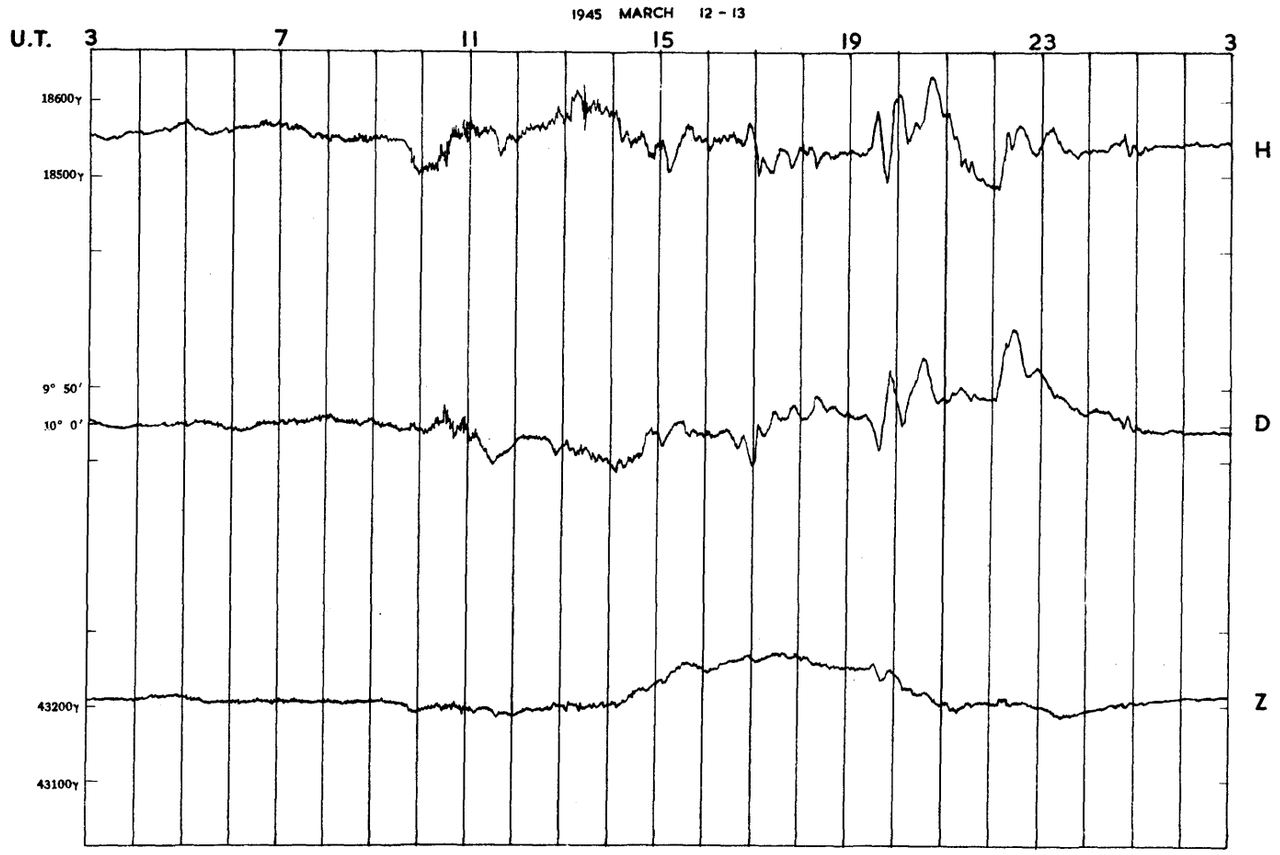


Plate IV

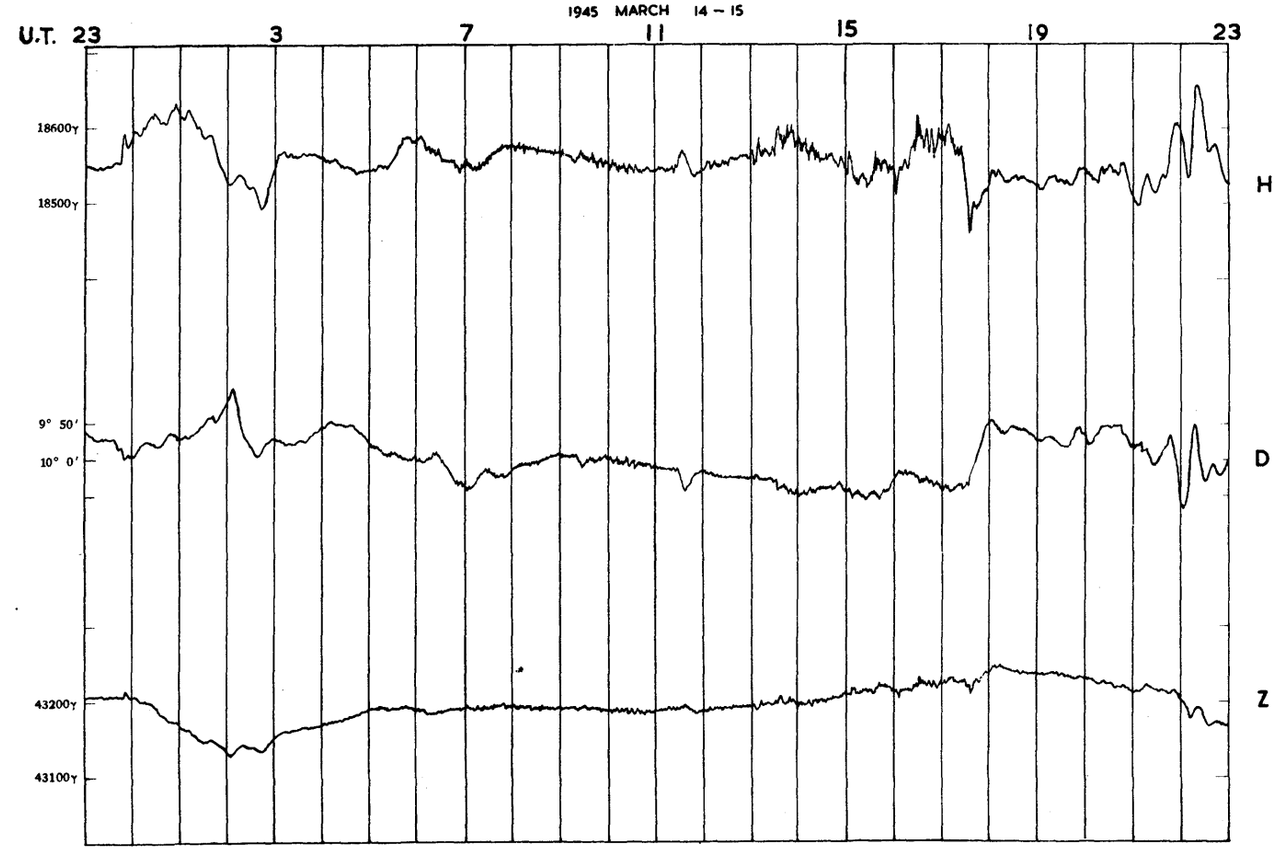


Plate V

1945 MARCH 27 – 28

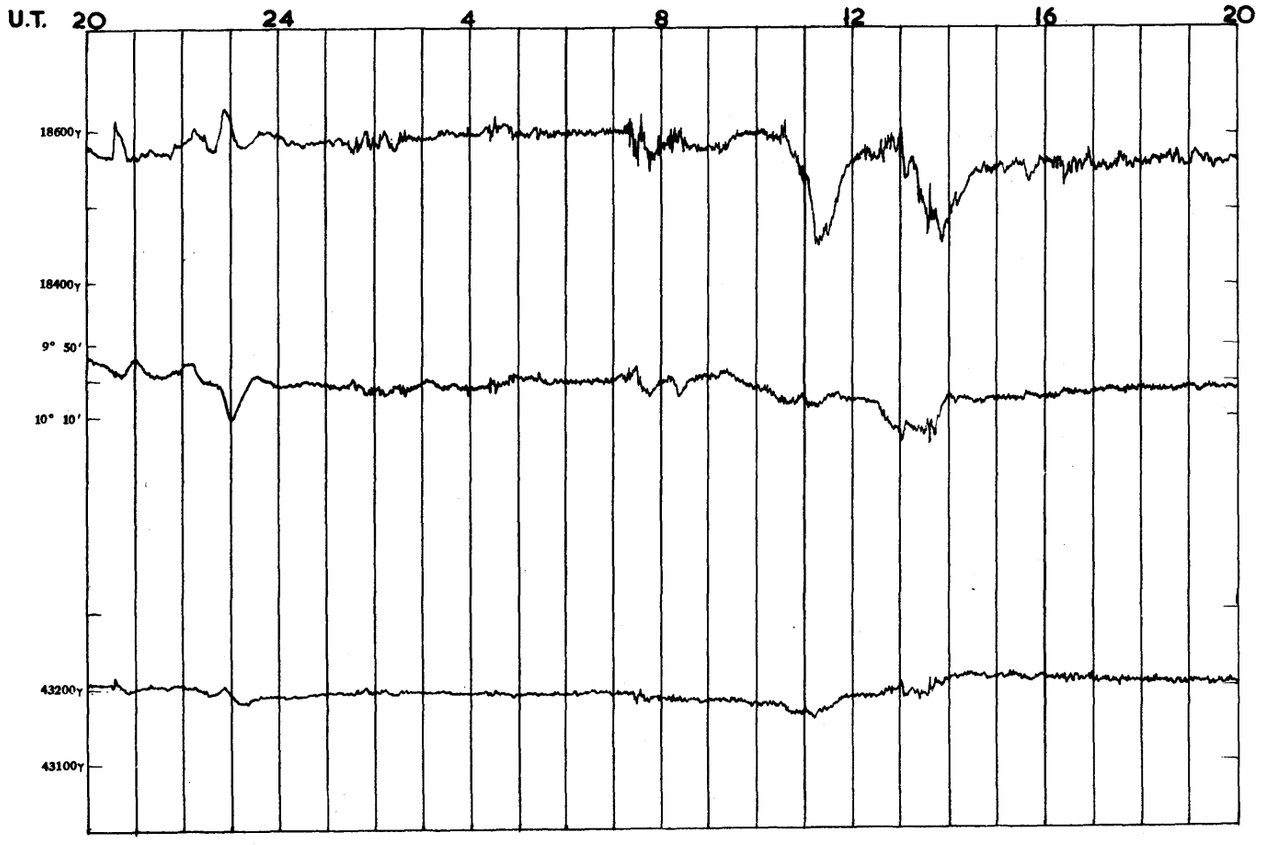
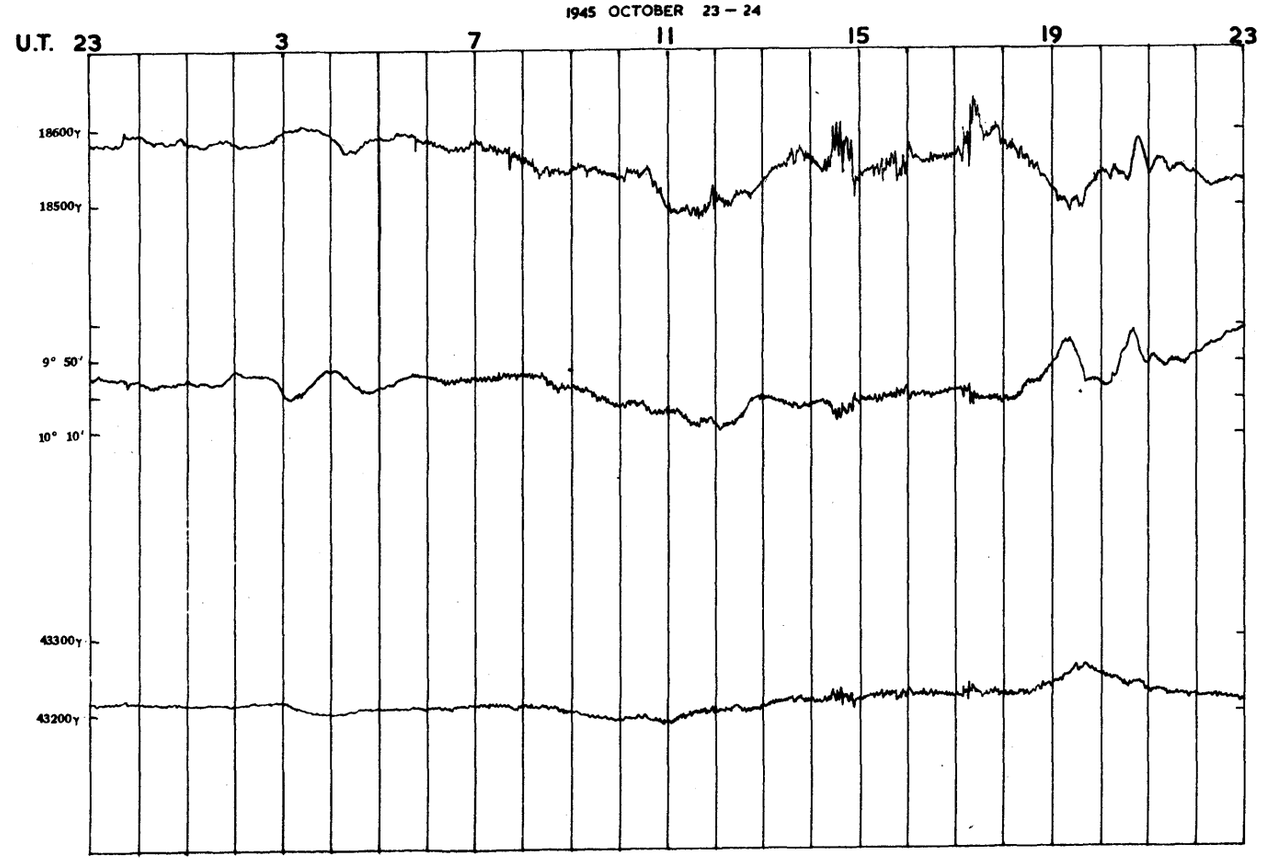


Plate VI

1945 OCTOBER 23 – 24



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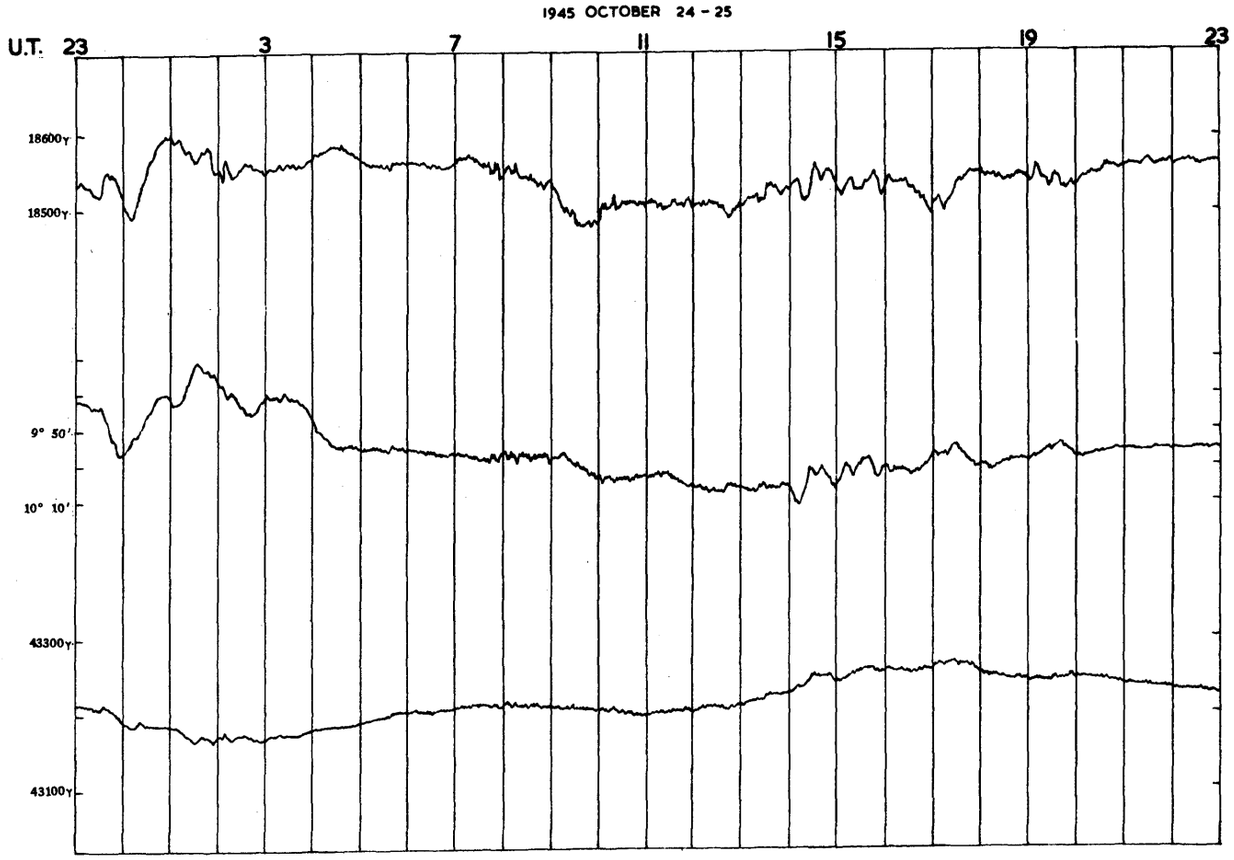
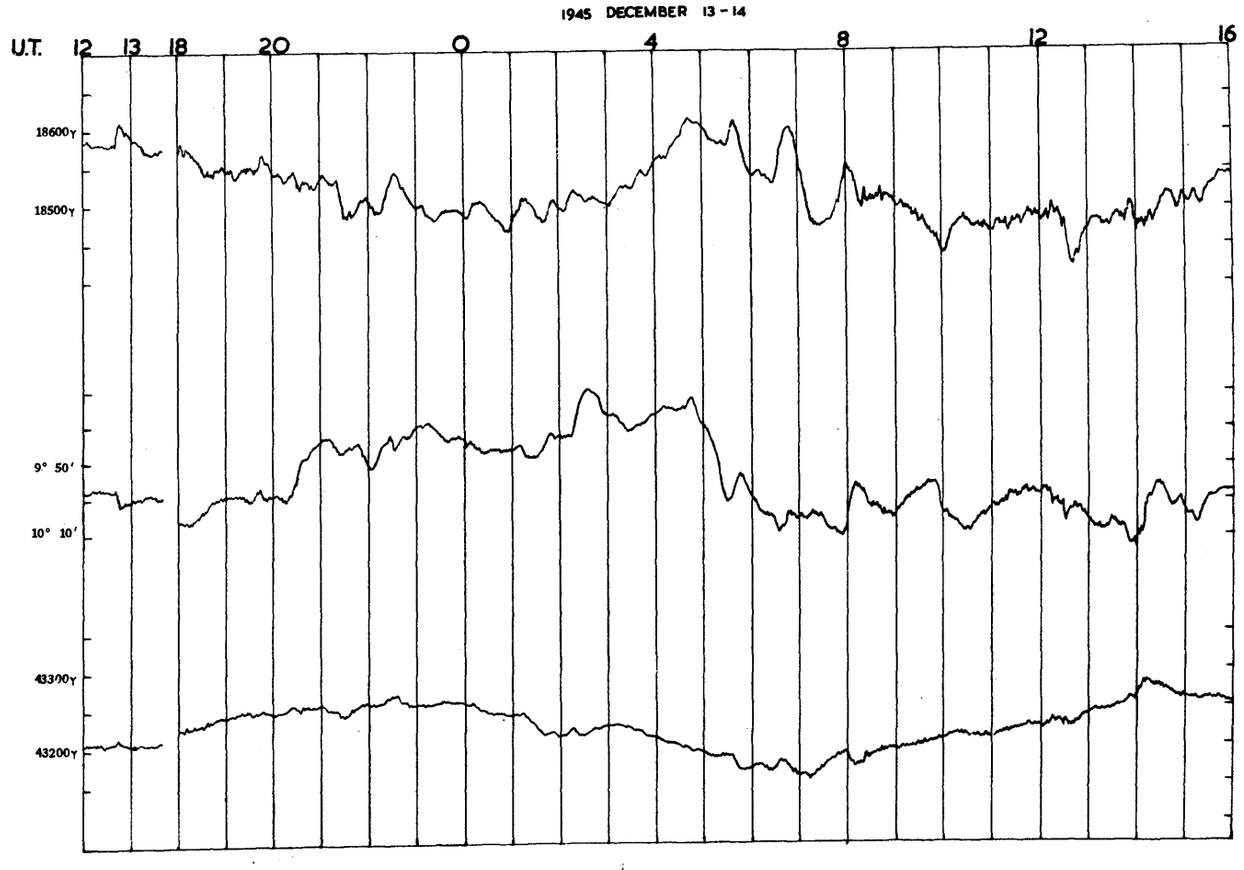


Plate VIII



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ROYAL OBSERVATORY, GREENWICH.

Results of Meteorological Observations

1945

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Jan. 1	30·450	34·4	24·9	9·5	30·4	- 8·2	29·4	27·7	2·7	3·2	0·7	88	31·0	18·3	44·0	0·000	0·0	7·9
2	30·372	43·3	33·2	10·1	38·7	+ 0·3	37·7	36·1	2·6	4·0	0·8	91	49·0	31·2	44·0	0·025	0·0	7·9
3	29·770	46·1	36·0	10·1	41·9	+ 3·6	40·1	37·6	4·3	7·0	1·3	84	53·8	33·2	43·8	0·144	0·0	8·0
4	29·511	36·1	31·4	4·7	34·3	- 4·0	32·2	28·4	5·9	10·3	2·9	78	50·8	28·1	43·8	0·000	3·4	8·0
5	29·810	37·7	28·0	9·7	35·2	- 3·0	33·1	29·5	5·7	9·0	2·6	79	49·8	22·0	43·7	0·000	0·8	8·0
6	29·909	37·2	25·7	11·5	32·7	- 5·4	31·0	28·3	4·4	8·2	1·6	82	43·6	19·6	43·6	0·007	0·0	8·0
7	29·731	38·8	30·4	8·4	34·9	- 3·1	32·9	29·5	5·4	8·2	2·0	79	42·7	26·8	43·4	0·086	0·2	8·1
8	29·500	35·8	30·4	5·4	33·7	- 4·2	32·0	29·1	4·6	9·1	2·2	82	38·8	26·8	43·1	0·002	0·1	8·1
9	29·443	33·6	29·9	3·7	32·6	- 5·3	32·0	30·9	1·7	3·6	0·8	93	38·9	28·6	43·0	0·228	0·0	8·1
10	29·605	35·1	30·4	4·7	32·9	- 5·0	31·5	29·4	3·5	7·4	1·0	85	48·7	29·0	42·9	0·019	2·2	8·1
11	29·762	34·0	28·7	5·3	31·8	- 6·1	30·5	28·3	3·5	6·7	2·2	86	50·5	26·5	42·8	0·038	1·1	8·2
12	29·898	38·3	34·0	4·3	36·6	- 1·3	35·9	34·7	1·9	3·0	1·3	93	39·2	31·0	42·8	0·104	0·0	8·2
13	30·176	38·2	34·2	4·0	36·2	- 1·8	34·7	32·2	4·0	6·8	3·0	85	41·0	30·6	42·7	0·005	0·0	8·2
14	30·228	38·3	32·4	5·9	34·4	- 3·6	32·8	30·1	4·3	6·0	2·0	83	58·8	31·1	42·6	0·000	2·5	8·3
15	30·114	41·2	32·6	8·6	37·1	- 1·0	35·8	33·7	3·4	5·5	1·3	87	51·4	29·2	42·6	0·000	0·0	8·3
16	29·835	40·4	31·1	9·3	35·7	- 2·6	35·0	33·7	2·0	2·7	0·8	93	39·2	27·7	42·6	0·007	0·0	8·4
17	29·608	44·5	37·6	6·9	41·6	+ 3·1	39·3	35·9	5·7	11·7	1·9	80	60·8	28·2	42·6	0·000	0·6	8·4
18	28·992	48·3	32·7	15·6	43·2	+ 4·6	40·9	37·6	5·6	10·4	1·6	80	51·3	28·8	42·8	0·373	0·0	8·5
19	29·143	38·0	29·4	8·6	34·7	- 4·0	31·6	26·5	8·2	18·1	1·6	70	67·3	25·4	42·7	0·000	3·6	8·5
20	29·376	34·5	26·1	8·4	30·3	- 8·5	29·2	27·3	3·0	8·1	0·7	87	68·1	24·9	42·8	0·160	2·7	8·6
21	29·642	34·1	26·8	7·3	30·1	- 8·7	28·9	26·8	3·3	7·2	1·3	86	55·8	22·3	42·6	0·000	1·9	8·6
22	29·783	33·4	26·4	7·0	30·3	- 8·5	29·6	28·4	1·9	3·1	0·6	92	40·0	21·9	42·3	0·004	0·0	8·6
23	29·485	33·0	25·5	7·5	30·2	- 8·7	29·5	28·4	1·8	4·5	0·6	92	43·8	25·0	42·1	0·050	0·0	8·7
24	29·608	31·1	22·1	9·0	26·3	-12·6	26·1	25·6	0·7	2·8	0·0	97	48·7	23·9	42·0	0·000	0·0	8·7
25	29·679	27·5	20·0	7·5	23·5	-15·6	23·2	22·4	1·1	2·8	0·0	95	42·7	23·8	41·8	0·000	0:0	8·8
26	29·698	25·7	19·3	6·4	23·0	-16·3	22·6	21·5	1·5	2·3	0·0	94	36·8	22·9	41·7	0·000	0·0	8·8
27	29·668	29·2	20·3	8·9	26·1	-13·4	25·6	24·5	1·6	3·3	0·0	94	40·0	21·8	41·7	0·050	0·0	8·9
28	29·980	33·6	25·6	8·0	30·5	- 9·1	29·3	27·3	3·2	5·5	1·9	86	63·1	24·5	41·6	0·000	2·5	9·0
29	30·222	33·7	15·1	18·6	26·5	-13·2	25·4	23·1	3·4	4·2	0·0	86	57·0	14·0	41·4	0·075	1·0	9·0
30	29·670	43·0	27·8	15·2	36·2	- 3·5	35·2	33·4	2·8	3·6	0·0	90	49·2	29·4	41·3	0·403	0·0	9·0
31	29·547	49·0	42·6	6·4	43·2	+ 6·5	45·4	44·4	1·8	2·6	0·0	94	54·3	39·6	41·3	0·064	0·0	9·1
Means	29·749	37·0	28·7	8·3	33·5	- 5·1	32·2	30·1	3·4	6·2	1·2	86·8	48·6	26·3	42·6	Sum 1·824	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 29·749 in., being 0·052 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 49°·0 on January 31; the lowest in the month was 15°·1 on January 29; and the range was 33°·9.

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 28°·7, being 5°·5 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 8°·3, being 0°·6 less than the average for the 65 years, 1841-1905.

The mean for the month was 33°·5, being 5°·1 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Jan. 1	0·0	0·00	0·0	0·00	NNE: Calm	Calm: WSW	0·2	0·01	120	b m x	b f x	b c *Stcu* x f	c
2	2·9	0·21	1·7	0·13	WSW: W	WSW	0·4	0·03	176	c r c	c r_o c *Stcu* f	c *Stcu* r_o c f	c f c
3	1·7	0·12	0·7	0·05	WSW	WSW: NW	9·3	0·95	418	c b c	c *Stcu* m_o	c *Nbst* q r	r r_o c
4	2·8	0·21	2·0	0·15	NNE	NNE	4·5	0·43	320	c	b c *Acu Ci*	b c	c bc c
5	12·8	0·93	3·1	0·23	NNE	N: NNW: WSW	4·2	0·32	254	c	c *Nbst* ps c *Cist so-ha*	c *Cist Acu* bc m f	bc f
6	2·3	0·17	2·1	0·15	WSW: W	WSW: W	0·1	0·00	134	bc b x f	c d_o d_o *Ast* f	c *Ast* f	c f
7	9·9	0·72	9·3	0·68	W	NNW: WNW	5·7	0·20	306	c b x f	bc *Ast* f c irs	c *Nbst* g t l s c b	b c b
8	0·0	0·00	0·0	0·00	NW: NNW	NNW: N	6·6	0·67	355	b	b c *Nbst* s_o	c *Nbst* 1 s_o c	c
9	0·6	0·04	0·5	0·04	NW: NNE	NNE	2·0	0·17	270	c s s c	c *Nbst* 1 s_o m	s s c *Acu* m_o	c m_o
10	0·7	0·05	0·6	0·04	NNE	N: NNW	2·0	0·16	287	c 1 s_o m	c s_o b *Acu Ci* m	b c *Acu Ci* m	c s_o s_o c m
11	0·0	0·00	0·0	0·00	ENE	NE: NNE	3·5	0·21	297	c m	c *Nbst* s c	c *Nbst* 1 s_o	1 s_o s s
12	0·3	0·02	0·1	0·01	NE	NE: ENE	5·0	0·75	425	s rs	r 1 d_o m_o	1 d_o d d *Nbst* m_o	1 d_o c
13	0·0	0·00	0·0	0·00	NE	NE: ENE	4·5	0·28	336	c	c *St*	c d_o *Nbst*	c d_o c
14	0·3	0·02	0·0	0·00	ENE: NE	NE	2·1	0·26	339	c	c *Frst Ci*	c *Ci so-ha* c	c
15	4·0	0·30	1·1	0·08	NE	NE: Calm	0·6	0·10	190	c f	c f c *St*	c *Acu*	b c
16	2·8	0·21	2·7	0·21	Calm: WSW	WSW	0·3	0·02	174	c	c *St* d f	c *St* m	c d c m
17	2·9	0·22	1·5	0·12	W	NW: WSW	2·2	0·13	270	c b m	b c *Acu* m	c *Acu* b	c
18	2·4	0·18	1·5	0·12	WSW	WSW	26·0	2·40	640	c	c *Nbst Frst* r_o	r c *Nbst* q	c t s s b c
19	11·1	0·84	10·1	0·76	NNW: NW	NW: W	18·5	2·38	600	c q	b c *Acu* y	c q s_o bc *Frst*	b
20	7·2	0·55	5·0	0·38	WSW: WNW	NW: WNW	9·0	0·41	338	b c	c s_o b c *Nbst*	c *Nbst* s b c q s 1 s_o	c 1 s_o b
21	9·3	0·72	8·9	0·69	WNW: NW	NW: W	1·5	0·25	295	bc c m	c *Acu* m	c *Ast Cist* b	b
22	0·0	0·00	0·0	0·00	WSW: NNW	N: Calm	0·4	0·04	..	c b c m	c *St* 1 s_o m_o	c *St*	c
23	3·2	0·24	2·2	0·17	Calm: ESE	E: NE: N	1·8	0·10	..	c s c	c *Frst* s	s s c *Nbst*	c b c
24	0·0	0·00	0·0	0·00	N: Calm	Calm	0·0	0·00	..	c f	c *Nbst* b f	b f F	F f
25	0·0	0·00	0·0	0·00	Calm: E	Calm; NE: N	0·1	0·00	..	f f x	f f x	f bc c *Ast* f	c f f
26	0·0	0·00	0·0	0·00	NW	W: WSW: Calm	0·0	0·06	..	c f f x	c f f x	c bc c f f x	c f f x
27	4·3	0·35	1·7	0·14	E: NE: N	NW: N	2·0	0·11	..	s s_o c ff x	c f f x	c f b c	c
28	11·8	0·96	11·8	0·96	N: NNE	NNE	3·6	0·48	..	c	c *Frst* s_o bc	bc *Frst* b	b c b
29	0·0	0·00	0·0	0·00	N: Calm	SSW: SW	0·8	0·08	..	b f x	b F x c *Cist prha*	*so-ha* c	c s_o s
30	0·0	0·00	0·0	0·00	SW	W: WSW	3·2	0·40	352	s s rs	rs r c	c m f	c m f
31	0·0	0·00	0·0	0·00	WSW: SW	WSW: SW	6·3	0·45	336	c d d_o m f	c 1 d m	c *Nbst*	c 1 d_o
Means	3·0	0·23	2·1	0·16	..	..	..	0·38	314†				
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 32°·2, being 5°·0 lower than
The mean *Temperature of the Dew Point* for the month was 30°·1, being 5°·0 lower than
The mean *Degree of Humidity* for the month was 86·8, being the same as
The mean *Elastic Force of Vapour* for the month was 0·166 in., being 0·039 in. less than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·087. The maximum daily amount of *Sunshine* was 3·6 hours on January 19.

The highest reading of the *Solar Radiation Thermometer* was 68°·1 on January 20; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·0 on January 29.

The *Proportions of Wind* referred to the cardinal points were N.34, E.14, S.8, W.31, calm or nearly calm conditions 13, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 26·0 lbs. on the square foot on January 18. The mean daily *Horizontal Movement of the Air* for the month was 314 miles; the greatest daily value was 640 miles on January 18 and the least daily value was 120 miles on January 1.

Rain (0·005 in. or over) fell on 17 days in the month, amounting to 1·824 in., as measured by gauge No. 6 partly sunk below the ground; being 0·057 in. less than the average fall for the years, 1841-1905.

† Mean of 23 days only: instrument frozen.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Feb. 1	29·464	51·7	44·8	6·9	48·4	+ 8·8	45·8	42·8	5·6	11·3	1·6	80	86·3	42·3	41·3	0·084	4·7	9·1
2	29·398	50·6	43·0	7·6	46·9	+ 7·4	44·7	42·1	4·8	10·7	2·4	83	58·8	37·0	41·3	0·050	1·0	9·2
3	29·913	44·0	36·1	7·9	40·3	+ 0·8	37·9	34·1	6·2	10·4	2·0	78	64·5	29·8	41·5	0·110	3·9	9·3
4	29·789	54·4	40·6	13·8	48·2	+ 8·7	46·0	43·5	4·7	10·9	1·4	83	88·5	36·5	41·7	0·182	3·8	9·3
5	29·823	54·5	44·0	10·5	49·7	+10·1	48·0	46·1	3·6	9·0	1·4	87	69·1	37·5	42·0	0·009	0·3	9·4
6	29·894	50·0	42·8	7·2	45·3	+ 5·7	44·1	42·6	2·7	3·8	1·6	91	54·7	36·3	42·1	0·120	0·0	9·4
7	29·654	54·7	41·0	13·7	49·1	+ 9·6	46·3	43·0	6·1	13·4	2·2	80	94·1	34·0	42·5	0·018	2·7	9·5
8	29·584	47·2	37·4	9·8	43·1	+ 3·8	42·0	40·5	2·6	6·4	0·7	91	52·2	30·4	42·7	0·103	0·0	9·5
9	29·615	46·6	38·8	7·8	42·8	+ 3·7	39·4	34·4	8·4	18·0	1·7	71	82·7	33·8	42·8	0·030	3·6	9·6
10	29·381	47·3	32·9	14·4	40·7	+ 1·8	38·3	34·6	6·1	15·7	1·4	78	89·0	29·1	42·9	0·268	4·3	9·7
11	29·307	46·6	33·2	13·4	38·3	- 0·5	37·3	35·7	2·6	2·4	0·0	91	47·0	29·4	42·8	0·190	0·0	9·7
12	29·454	56·0	36·6	19·4	47·1	+ 8·3	46·0	44·7	2·4	5·8	1·0	91	63·8	33·6	42·9	0·237	0·0	9·8
13	29·624	52·6	41·2	11·4	48·5	+ 9·5	46·3	43·8	4·7	15·8	1·9	83	74·9	36·5	43·0	0·030	1·2	9·9
14	29·039	51·7	38·4	13·3	44·3	+ 5·0	41·5	37·6	6·7	14·7	0·7	77	93·3	33·5	43·2	0·000	7·6	9·9
15	30·085	47·6	35·0	12·6	39·4	- 0·0	38·7	37·7	1·7	5·6	0·0	93	81·9	29·3	43·2	0·000	1·6	10·0
16	30·048	45·5	35·6	9·9	41·3	+ 1·8	40·3	39·1	2·2	5·3	0·0	91	58·7	29·4	43·3	0·000	0·0	10·1
17	30·158	54·2	43·8	10·4	48·3	+ 8·7	46·9	45·3	3·0	5·6	1·6	89	70·9	39·4	43·3	0·000	0·0	10·1
18	30·304	61·7	49·4	12·3	53·3	+13·8	51·6	50·0	3·3	9·0	1·3	88	77·5	45·0	43·4	0·000	1·4	10·2
19	30·361	57·6	44·3	13·3	51·7	+12·2	50·6	49·5	2·2	4·8	0·0	92	71·7	36·8	43·7	0·000	0·0	10·2
20	30·381	55·6	39·0	16·6	50·5	+11·0	47·1	43·2	7·3	18·4	1·9	76	98·3	34·5	43·8	0·000	3·4	10·3
21	30·509	52·3	30·0	22·3	41·3	+ 1·7	35·5	34·1	7·2	18·5	0·9	76	87·8	25·1	44·0	0·000	4·2	10·4
22	30·387	51·0	33·2	17·8	43·2	+ 3·5	41·1	38·0	5·2	7·8	0·0	83	74·1	28·4	44·0	0·000	1·0	10·4
23	30·266	47·5	38·2	9·3	44·1	+ 4·3	42·4	40·2	3·9	6·4	1·0	86	69·9	34·0	44·2	0·034	0·0	10·5
24	30·347	50·4	29·7	20·7	40·0	- 0·0	37·1	32·3	7·7	18·8	1·8	74	96·1	25·2	44·1	0·000	4·2	10·6
25	30·121	51·2	37·6	13·6	45·7	+ 5·6	42·4	37·9	7·8	10·6	5·2	74	65·3	31·0	44·0	0·000	0·0	10·6
26	30·192	59·0	49·8	9·2	53·0	+12·8	49·5	45·8	7·2	10·5	3·2	77	87·1	47·0	44·3	0·000	2·2	10·7
27	30·396	58·2	43·0	15·2	52·0	+11·7	48·7	45·2	6·8	15·1	1·4	77	91·2	34·0	44·3	0·000	1·2	10·8
28	30·370	51·2	41·9	9·3	46·8	+ 6·5	43·3	38·8	8·0	15·3	0·6	73	71·3	32·7	44·3	0·000	0·0	10·8
Means	29·959	51·8	39·3	12·5	45·8	+ 6·3	43·6	40·8	5·0	10·7	1·4	82·6	75·7	34·0	43·1	Sum 1·470	1·9	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 29·959 in., being 0·150 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 61°·7 on February 18; the lowest in the month was 29°·7 on February 24; and the range was 32°·0

The mean of all the highest daily readings in the month was 51°·8, being 6°·9 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 39°·3, being 4°·6 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 12°·5, being 2°·3 greater than the average for the 65 years, 1841-1905.

The mean for the month was 45°·8, being 6°·3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Feb. 1	0·0	0·00	0·0	0·00	WSW: WNW	WSW: SW	9·7	2·04	574	c r r c	c *Stcu* b *Ci*	bc c *Cist prhn* c r_o	1 r r_o
2	8·7	0·70	8·2	0·66	SW	W: WSW	27·0	2·30	559	1 r r_o q	c *Nbst* 1 r c q	c q bc *Frcu Ci* b	bc p b
3	0·0	0·00	0·0	0·00	W: N: NNE	Calm: SSW	2·2	0·13	192	b c	c b *Frst* z_o	b c	c R r
4	0·0	0·00	0·0	0·00	SW: W	W: SW	11·3	1·28	445	r r c	bc	bc c	c
5	7·4	0·59	5·0	0·40	SW: W	W	3·5	0·35	315	c r_o d_o	c *St*	c *Stcu Cu* b	b bc
6	0·3	0·02	0·1	0·01	W: WSW	SW: WSW	1·6	0·19	275	bc c	c *Nbst* r r_o	r r_o c *Nbst*	c
7	9·7	0·78	8·9	0·71	SW: WSW	W	12·5	1·07	463	c	c 1 r c b *Frst*	b c *Frst* b	b w
8	5·8	0·47	4·8	0·38	WSW: SW	SW: WSW	6·0	0·38	322	b w c	c *St* r_o	c *Nbst* 1r	1 r bc
9	1·1	0·09	0·8	0·07	WSW: WNW	W: SW	5·4	0·74	445	bc b	b *Ci* c *Acu* y	c *Acu prha* y	c 1 r
10	10·9	0·91	9·2	0·77	SW: W:	W: WSW	10·0	1·12	440	c 1 r c	c b bc *Frcu*	c *Nbst* h_o r r t l c b	b x
11	1·6	0·13	0·8	0·07	W: SW	S: NW	3·0	0·17	221	b c	c m r r	r r c *Nbst*	c
12	1·9	0·16	0·0	0·00	Calm: W	W: WSW	8·6	0·76	364	c r r f	r r f r_o c *Frst*	c *Nbst*	c b c
13	12·0	1·00	12·0	1·00	WSW	W	11·0	1·34	491	c	c *Nbst* 1 r	c *Ast Frst* bc b	b
14	9·9	0·82	9·9	0·82	W	W: WSW	4·2	0·30	299	b w	b	b y	b
15	0·0	0·00	0·0	0·00	Calm	Calm	0·1	0·01	59	b fe	fe Fe b f	b f c m_o	c m
16	0·0	0·00	0·0	0·00	Calm	W: Calm: SW	0·2	0·01	92	c m m_o	c *St* m_o	c *St* m_o	c m_o
17	0·0	0·00	0·0	0·00	SW	WSW	2·7	0·15	229	c m_o	c *Frst* m_o	c *Frst*	c
18	3·9	0·34	1·7	0·15	WSW: W	Calm	0·6	0·02	127	c w m	c *Ast* m	c b *Ci* c m	c b c f
19	0·0	0·00	0·0	0·00	Calm	Calm: SW	0·2	0·00	95	c b f	b c *Acu* f	c r_o *Stcu* m_o	c m_o
20	11·4	0·99	11·4	0·99	WSW: WNW: N	W	2·0	0·12	187	c m_o	c bc *Acu Frcu*	c *Frcu Ci* y b	b
21	8·7	0·75	8·1	0·70	Calm	WSW: SW	0·2	0·01	138	b x f	b f bc *Ci* y	bc *Ci* y c *Ast*	c b
22	0·0	0·00	0·0	0·00	WSW	WSW	0·7	0·10	216	b x c	c *Ci Acu* m_o	c *Stcu* m	c m_o
23	8·9	0·77	8·1	0·70	WSW	W: N	1·5	0·14	243	c m m_o	c *St* m_o	c *Nbst* r_o r	r r_o c b
24	8·2	0·75	6·7	0·61	Calm: WSW	WSW: SW	1·0	0·07	187	b x f	b f bc *Ci*	bc *Ci* y c	c
25	0·0	0·00	0·0	0·00	WSW: W	WSW: W	7·8	1·34	534	c	c m_o	c	c
26	0·8	0·07	0·0	0·00	W: WNW	WNW: W	7·5	1·59	530	c	c *Stcu*	c bc *Acu Ci* c	c
27	5·5	0·50	4·6	0·42	W	W: WSW	1·6	0·20	225	c	c *Stcu*	c *Stcu* bc	b bc
28	6·3	0·58	5·9	0·53	WSW	W: WSW	0·9	0·04	172	bc c	c *Ast Acu*	c *Ast Acu* y	c b
Means	4·4	0·37	3·8	0·32	...	..	..	0·57	301				
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 43°·6, being 5°·9 higher than
The mean *Temperature of the Dew Point* for the month was 40°·8, being 5°·8 higher than
The mean *Degree of Humidity* for the month was 82·6, being 1·0 less than
The mean *Elastic Force of Vapour* for the month was 0·256 in., being 0·052 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·4

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·187. The maximum daily amount of *Sunshine* was 7·6 hours on on February 14.

The highest reading of the *Solar Radiation Thermometer* was 98°·3 on February 20; and the lowest reading of the *Terrestrial Radiation Thermometer* was 25°·1 on February 21.

The *Proportions of Wind* referred to the cardinal points were N.6, E.0, S.17, W.58, calm or nearly calm conditions 19, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 27·0 lbs. on the square foot on February 2. The mean daily *Horizontal Movement of the Air* for the month was 301 miles; the greatest daily value was 574 miles on February 1 and the least daily value was 59 miles on February 15.

Rain (0·005 in. or over) fell on 14 days in the month, amounting to 1·470 in., as measured by gauge No. 6 partly sunk below the ground; being 0·010 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Mar. 1	30·211	54·0	37·5	16·5	46·3	+ 5·9	42·6	37·7	8·6	20·7	2·6	71	83·5	30·0	44·6	0·000	2·8	10·9
2	30·498	45·2	32·5	12·7	38·3	- 2·1	33·9	26·1	12·2	20·8	5·8	59	95·2	24·8	44·6	0·000	7·2	11·0
3	30·572	45·0	30·8	14·2	37·7	- 2·8	33·6	26·2	11·5	18·8	5·6	62	83·9	20·9	44·6	0·000	6·7	11·0
4	30·367	50·8	34·6	16·2	42·3	+ 1·6	39·8	36·1	6·2	9·7	3·0	79	80·3	27·3	44·6	0·038	0·1	11·1
5	30·267	49·7	33·5	16·2	43·0	+ 2·1	40·7	37·3	5·7	11·3	1·1	80	81·3	26·0	44·3	0·000	0·3	11·1
6	30·234	52·0	43·6	8·4	47·3	+ 6·3	43·7	39·1	8·2	16·3	4·2	73	93·3	40·7	44·3	0·000	0·6	11·2
7	30·298	51·0	43·9	7·1	47·2	+ 6·2	43·9	39·8	7·4	12·0	4·4	75	69·3	37·5	44·2	0·003	0·0	11·3
8	30·423	50·8	38·3	12·5	45·6	+ 4·5	42·1	37·3	8·3	14·6	3·8	73	86·3	28·5	44·4	0·000	0·9	11·4
9	30·568	53·4	32·6	20·8	42·8	+ 1·8	39·0	33·2	9·6	19·8	1·2	68	98·6	22·6	44·5	0·000	7·3	11·4
10	30·479	54·4	40·8	13·6	45·2	+ 4·3	41·5	36·2	9·0	17·8	4·4	71	87·8	26·8	44·5	0·000	2·4	11·5
11	30·474	49·7	35·2	14·5	45·1	+ 4·1	40·7	34·2	10·9	15·7	2·0	66	60·7	26·0	44·4	0·000	0·0	11·5
12	30·398	54·4	32·1	22·3	41·5	+ 0·4	38·3	33·3	8·2	18·6	0·0	73	99·1	20·5	44·4	0·000	3·2	11·6
13	30·291	60·0	31·2	28·8	44·8	+ 3·5	40·7	34·5	10·3	20·9	0·4	68	103·0	21·8	44·4	0·000	8·2	11·7
14	30·192	65·2	34·7	30·5	48·3	+ 6·8	43·8	37·9	10·4	25·3	0·0	67	107·2	23·9	44·6	0·000	8·6	11·7
15	30·070	57·9	35·1	22·8	43·8	+ 2·1	40·8	36·6	7·2	23·9	0·0	75	103·0	26·6	44·5	0·000	6·3	11·8
16	30·037	58·8	40·5	18·3	48·1	+ 6·2	44·3	39·4	8·7	22·4	2·1	72	109·5	34·5	44·5	0·014	5·5	11·9
17	30·186	53·7	42·5	11·2	48·5	+ 6·5	44·4	39·2	9·3	13·2	5·1	70	67·9	32·5	44·4	0·000	0·0	11·9
18	30·180	57·3	34·5	22·8	46·0	+ 4·0	42·0	36·4	9·6	18·9	1·6	69	111·3	22·0	44·1	0·000	7·1	12·0
19	29·963	51·3	44·2	7·1	48·4	+ 6·5	47·1	45·7	2·7	6·6	2·2	90	60·3	39·2	44·7	0·028	0·0	12·1
20	30·072	57·8	42·1	15·7	48·7	+ 6·8	44·5	39·2	9·5	22·5	2·4	69	106·6	33·0	44·8	0·000	8·0	12·1
21	30·164	60·5	35·4	25·1	47·0	+ 5·1	42·8	37·3	9·7	25·0	0·9	68	112·8	22·9	44·9	0·000	10·0	12·2
22	30·139	65·8	35·9	29·9	49·3	+ 7·3	45·3	40·4	8·9	21·2	0·0	71	117·1	22·0	45·0	0·000	7·2	12·3
23	29·947	70·8	38·1	32·7	53·8	+11·6	48·0	41·2	12·6	27·7	1·2	63	121·8	20·1	45·1	0·000	10·5	12·3
24	29·702	67·0	43·8	23·2	55·4	+13·0	48·0	39·2	16·2	30·6	2·7	54	121·1	26·5	45·4	0·000	7·9	12·4
25	29·647	54·5	47·7	6·8	51·6	+ 8·9	49·1	46·4	5·2	6·5	1·6	82	71·6	37·1	45·2	0·315	0·1	12·5
26	29·801	49·5	42·7	6·8	46·0	+ 3·0	44·2	42·0	4·0	6·3	1·2	86	71·5	42·6	45·3	0·627	0·2	12·5
27	29·978	60·7	44·0	16·7	49·8	+ 6·5	44·6	37·5	11·9	28·8	4·0	64	106·3	37·4	45·6	0·000	6·4	12·6
28	29·873	58·4	47·0	11·4	52·4	+ 8·7	50·8	49·2	3·2	5·0	1·8	89	83·5	45·0	45·6	0·052	0·0	12·7
29	29·753	62·9	49·0	13·9	54·4	+10·3	51·2	48·1	6·3	16·6	2·4	79	109·9	45·0	45·8	0·085	1·4	12·7
30	29·806	57·5	43·5	14·0	50·5	+ 6·0	45·4	39·0	11·5	24·3	3·0	65	109·3	37·6	46·0	0·006	8·7	12·8
31	29·820	56·6	44·9	11·7	50·3	+ 5·4	46·6	42·3	8·0	14·6	3·2	74	93·3	39·2	46·1	0·026	0·4	12·8
Means	30·142	56·0	39·1	16·9	47·1	+ 5·2	43·3	38·3	8·7	17·9	2·4	71·8	93·8	30·3	44·8	Sum 1·194	4·1	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 30·142 in., being 0·389 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 70°·8 on March 23; the lowest in the month was 30°·8 on March 3; and the range was 40°·0.

The mean of all the highest daily readings in the month was 56°·0, being 6°·8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 39°·1, being 3°·5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 16°·9, being 3°·3 greater than the average for the 65 years, 1841-1905.

The mean for the month was 47°·1, being 5°·2 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.		miles				
Mar. 1	10·5	0·96	10·4	0·94	W:WNW	NNE	6·6	0·58	384	b c	c *Stcu*	c *Stcu* b y	b c b
2	10·6	0·96	10·3	0·94	NNE	NNE:NE	2·2	0·23	232	b x	b bc *Frcu* y	bc *Frcu Acu* y	b
3	2·7	0·26	1·8	0·17	NNE	NNE:NW	0·9	0·06	159	b m x	b *Acu* z_o y	b z_o y	b c
4	7·0	0·67	5·3	0·51	WNW:NNW	NNW:NE	2·7	0·21	261	c	c *Ast* f m	c *Nbst* r_o r	r c b
5	0·7	0·07	0·7	0·07	NNE:Calm:NW	NW:N	0·8	0·08	179	b x f	c *Acu* f m_o	c *Ast* m_o	c bc c m_o
6	0·0	0·00	0·0	0·00	NNW:N	N	2·0	0·16	228	c m_o	c r_o c *Acu* m_o	c *Acu* bc c z_o y	c m_o
7	4·4	0·42	3·3	0·32	N	NNE:NNW	1·5	0·15	215	c m_o	c *Nbst* r_o	r_o c *Ast Acu*	c b c
8	10·3	0·98	9·7	0·92	NW:N:NE	NE	2·4	0·20	237	c b c	c *Ast Frst*	c *Stcu* y	b
9	2·0	0·19	1·7	0·17	NNE:Calm	NE:Calm	0·1	0·00	115	b x	f b *Acu* y	b y	b x o f
10	1·3	0·13	0·0	0·00	W:Calm	NNE:Calm	0·4	0·03	118	o f f	o *St* c b f f	b *Frcu* z_o bc y	bc c
11	8·1	0·79	6·7	0·65	NE:Calm	Calm	0·1	0·00	76	c	c *Ast* m	c *Acu* y	c b
12	9·1	0·89	8·8	0·86	Calm	SW:Calm	0·3	0·01	113	b x c f	c f c *Acu* y	c *Acu* bc *Ci prhn*	b
13	8·0	0·78	7·1	0·70	Calm:WSW	W:Calm	0·0	0·00	116	b c b x f	b f b z_o y	b bc z_o y	bc c b
14	8·0	0·78	7·9	0·77	Calm	SW:WSW	0·2	0·01	113	b x m	b m z_o y	b z_o y	b
15	4·1	0·40	4·1	0·40	WSW:W	WSW:SW	0·5	0·07	166	b x c m	c *St* b	b y	b c
16	3·2	0·31	2·5	0·25	WSW:W	WNW:NW	2·2	0·15	216	c	1 r r_o c *Cu Acu*	bc *Cu Acu* y	bc b c
17	8·2	0·84	7·5	0·77	W:WNW	NW:W	0·4	0·05	154	c m	c *Stcu* m	c *Stcu*	c bc b
18	0·0	0·00	0·0	0·00	WSW	SW:WSW	3·4	0·33	288	b x	b bc m_o c *Cu* y	bc *Cu* y	c
19	4·0	0·41	3·5	0·36	SW:WSW	SW:WSW	11·2	1·20	450	c	c *Stcu* 1 d_o	c *Nbst* 1 d	c d c
20	9·7	1·00	9·7	1·00	W:WNW	WNW:WSW	4·0	0·45	332	bc c b	b *Acu*	b bc *Acu Ci* y	b
21	9·7	0·99	9·6	0·98	SW:W	WSW:SW	1·1	0·08	173	b x	b *Acu* y	b *Ci* y	b
22	9·7	1·00	9·7	1·00	Calm:SW	SW:Calm	0·6	0·03	100	b x c	c *Acu* b y	b y	b
23	9·7	1·00	9·7	1·00	Calm:ESE	SSE:Calm	0·9	0·06	100	b x m	b m b y	b y	b
24	1·5	0·16	0·3	0·03	S:SSW	S:Calm	3·0	0·20	189	b	b *Acu* y	b y c *Ast*	c
25	0·0	0·00	0·0	0·00	Calm:SW	Calm	0·3	0·01	82	c r r c	c *Stcu*	c *Stcu* r_o	r_o r R
26	0·0	0·00	0·0	0·00	NNE	NNE:N	2·0	0·15	201	R r	r r	r r c *Nbst*	c
27	1·3	0·14	1·3	0·14	NNW:Calm	WSW	1·0	0·06	155	c	c m b *Acu* y	b *Ci* y	bc c
28	0·0	0·00	0·0	0·00	WSW	W	1·5	0·13	250	c 1 r r_o	1 r r_o c *Nbst*	c *Nbst* 1 r_o r c	c
29	4·1	0·44	3·7	0·40	W	WSW	9·5	0·89	414	c	c *Cu Ci so-ha* y	c *Nbst*	c d_o r r c
30	6·8	0·73	5·7	0·62	W	W:WSW	14·5	1·02	446	b	b c *Cu Acu Ci* y	c q p bc *Frcu* y	bc
31	0·0	0·00	0·0	0·00	WSW	WSW:SW	9·0	1·55	513	bc c	c *Acu Nbst*	c *Nbst* r_o r	c 1 r
Means	5·0	0·49	4·5	0·45	..	..	..	0·26	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 43°·3, being 3°·9 higher than
The mean *Temperature of the Dew Point* for the month was 38°·3, being 2°·7 higher than
The mean *Degree of Humidity* for the month was 71·8, being 6·3 less than
The mean *Elastic Force of Vapour* for the month was 0·232 in., being 0·023 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 19) was 5·9.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·348. The maximum daily amount of *Sunshine* was 10·5 hours on March 23.

The highest reading of the *Solar Radiation Thermometer* was 121°·8 on March 23; and the lowest reading of the *Terrestrial Radiation Thermometer* was 20°·1 on March 23.

The *Proportions of Wind* referred to the cardinal points were N.22, E.5, S.11, W.35, calm or nearly calm conditions 27, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 14·5 lbs. on the square foot on March 30. The mean daily *Horizontal Movement of the Air* for the month was 219 miles; the greatest daily value was 513 miles on March 31 and the least daily value was 76 miles on March 11.

Rain (0·005 in. or over) fell on 9 days in the month, amounting to 1·194 in., as measured by gauge No.6 partly sunk below the ground; being 0·326 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Apr. 1	29·557	58·1	51·0	7·1	54·3	+ 9·0	51·7	49·3	5·0	8·7	2·0	83	100·6	48·5	46·2	0·040	0·4	12·9
2	29·512	58·1	47·3	10·8	53·4	+ 7·7	48·4	42·8	10·6	19·9	2·4	67	121·2	43·0	46·7	0·060	4·6	13·0
3	29·677	56·8	42·8	14·0	48·3	+ 2·3	43·9	38·1	10·2	25·4	2·3	68	114·9	36·6	46·7	0·023	7·8	13·0
4	29·855	52·6	40·9	11·7	46·8	+ 0·6	43·0	38·1	8·7	16·6	1·6	71	92·3	34·2	46·8	0·000	0·3	13·1
5	29·867	56·8	44·0	12·8	50·8	+ 4·5	45·8	39·5	11·3	19·9	5·1	65	111·1	32·5	46·8	0·070	5·0	13·2
6	30·190	58·9	40·1	18·8	49·1	+ 2·8	45·7	41·6	7·5	17·3	0·6	75	93·3	28·6	47·0	0·080	1·7	13·2
7	30·407	46·3	39·2	7·1	43·9	- 2·4	42·0	39·5	4·4	7·0	0·6	84	64·9	33·6	46·8	0·000	0·0	13·3
8	30·409	52·1	37·2	14·9	42·8	- 3·3	40·3	36·6	6·2	12·4	3·4	79	109·0	31·8	46·9	0·000	6·2	13·4
9	30·319	56·0	37·3	18·7	45·2	- 0·8	40·9	34·6	10·6	21·3	4·5	66	116·3	23·0	47·0	0·000	6·3	13·4
10	29·987	61·8	36·7	25·1	49·7	+ 3·8	46·0	41·6	8·1	15·6	4·2	73	113·6	22·2	46·9	0·000	7·7	13·5
11	29·631	71·8	48·1	23·7	57·1	+11·3	51·5	45·7	11·4	25·3	2·2	66	131·6	35·0	47·2	0·005	5·9	13·6
12	29·645	69·0	51·1	17·9	58·1	+12·2	52·7	47·4	10·7	25·9	0·0	68	128·3	39·6	47·3	0·002	7·6	13·6
13	29·808	72·0	42·8	29·2	56·6	+10·5	50·7	44·5	12·1	27·6	0·0	64	119·5	27·9	47·3	0·000	9·2	13·7
14	29·936	69·8	43·4	26·4	56·0	+ 9·6	52·0	48·0	8·0	17·4	1·4	75	120·7	26·6	47·6	0·005	1·3	13·8
15	30·051	75·5	54·2	21·3	62·7	+15·9	58·0	54·3	8·4	19·8	1·3	74	126·9	43·0	48·0	0·000	6·6	13·8
16	29·986	80·3	53·3	27·0	66·0	+18·8	57·8	50·9	15·1	30·2	2·7	58	122·0	39·3	48·3	0·000	10·7	13·9
17	30·023	78·9	50·0	28·9	63·8	+16·2	56·9	51·1	12·7	26·8	1·8	63	116·3	34·8	48·7	0·000	8·3	14·0
18	30·182	76·3	50·5	25·8	63·4	+15·4	54·7	46·4	17·0	34·6	1·4	54	124·3	36·5	48·9	0·000	11·4	14·0
19	30·234	69·6	46·9	22·7	57·8	+ 9·5	52·4	47·1	10·7	19·7	2·2	68	121·8	34·6	49·0	0·000	12·0	14·1
20	29·965	76·6	43·6	33·0	60·9	+12·4	53·4	45·9	15·0	24·5	1·5	58	136·0	29·7	49·3	0·000	8·3	14·1
21	29·765	59·2	45·9	13·3	54·2	+ 5·5	48·8	42·8	11·4	20·0	4·3	65	113·5	39·0	49·4	0·000	3·7	14·2
22	29·878	55·0	41·3	13·7	48·2	- 0·5	42·9	35·5	12·7	22·1	3·5	61	121·3	29·0	49·4	0·000	9·3	14·3
23	29·975	55·0	39·3	15·7	46·4	- 2·2	41·6	34·6	11·8	20·5	3·6	63	113·3	24·2	49·7	0·000	6·3	14·3
24	29·934	55·9	34·5	21·4	46·0	- 2·6	41·6	35·3	10·7	20·1	1·1	66	126·0	18·6	49·5	0·000	7·2	14·4
25	29·734	64·3	38·7	25·6	51·4	+ 2·8	46·4	40·3	11·1	23·8	1·5	66	124·2	24·8	49·5	0·000	6·2	14·5
26	29·605	57·1	38·3	18·8	47·8	- 0·8	45·2	42·1	5·7	14·4	1·2	80	75·2	24·6	49·5	0·205	0·0	14·5
27	29·543	52·0	37·3	14·7	47·1	- 1·6	43·3	35·4	11·7	24·2	2·1	71	80·0	22·8	49·4	0·016	0·6	14·6
28	29·568	47·1	34·2	12·9	40·8	- 8·0	37·5	32·2	8·6	20·0	1·9	70	104·2	26·0	49·2	0·333	6·6	14·7
29	29·615	49·4	33·0	16·4	40·1	- 8·9	36·4	30·3	9·8	18·3	1·4	67	103·1	28·3	49·2	0·087	5·7	14·7
30	29·834	44·1	32·2	11·9	37·3	-11·8	33·7	27·3	10·0	14·8	3·1	65	71·1	22·0	49·0	0·007	0·0	14·8
Means	29·890	61·2	42·5	18·7	51·5	+ 4·3	46·8	41·3	10·2	20·5	2·2	68·4	110·6	31·3	48·1	Sum 0·933	5·6	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 29·890 in., being 0·135 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 80°·3 on April 16; the lowest in the month was 32°·2 on April 30; and the range was 48°·1.

The mean of all the highest daily readings in the month was 61°·2, being 5°·1 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 42°·5, being 3°·0 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 18°·7, being 2°·1 greater than the average for the 65 years, 1841-1905.

The mean for the month was 51°·5, being 4°·3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Apr. 1	0·0	0·00	0·0	0·00	SW:WSW	WSW:SW	15·6	2·30	579	c	c	c r c	c 1 r_o r
2	3·2	0·37	3·0	0·34	WSW:WNW	WNW	17·3	1·57	459	1 r	c b c *Acu Ci* y	c *Acu Ci* y	c
3	6·8	0·78	6·7	0·76	W:WNW	NW:WNW	9·0	1·11	439	c b c	c bc *Cu Frst* y	bc *Cu Ci* c 1 r_o	c r_o p b
4	3·2	0·36	2·0	0·23	W:WNW	W:WSW:SW	2·0	0·22	276	b c	c *Acu Ast* y	c *Ast Stcu* y	c b c
5	8·7	0·99	8·7	0·99	SW:W:WNW	NW	5·7	0·39	332	c r r_o c	bc c *Acu Cumb* y	c *Frst* y	b
6	1·5	0·17	1·5	0·17	Calm:WSW:NW	N:ENE	0·5	0·02	125	b c	c *Acu* z y	c *Ast* r_o	r r_o c
7	0·9	0·11	0·7	0·08	ENE:E	E	1·0	0·09	221	c b c	c *Ast Frst*	c	c
8	1·8	0·23	1·5	0·19	E	ENE:ESE	1·0	0·11	217	c	c *Frst*	bc *Frst*	b c
9	6·9	0·86	6·7	0·83	NE:E	ESE	2·8	0·10	197	c	c b *Acu Ci* y	b *Cicu prhn* c y	c b
10	1·9	0·24	1·8	0·22	E	E:Calm	1·7	0·13	227	b x c	c *Ci Frst* b z_o	b *Ci* z_o y	b c
11	0·6	0·07	0·1	0·02	Calm:E	S:Calm	1·4	0·05	119	c p_o c	c b bc c *Acu* y	c *Ast* y c 1 r_o	c 1 r_o
12	8·0	1·00	8·0	1·00	Calm:WSW	WSW:NW	3·0	0·10	193	c r_o c	c bc *Acu Cicu*	bc *Acu Ci* y	bc b
13	8·0	1·00	8·0	1·00	Calm	SE:Calm	0·5	0·01	102	b x m	b z bc *Cist* y	bc *Ci so-ha* y	b
14	0·1	0·01	0·0	0·00	Calm:SSW	SSW:SW	1·5	0·10	197	b x c	c *Acu Ast* y	c r_o c	c
15	7·5	1·00	7·5	1·00	SW	SW:S:SSE	1·6	0·05	166	c	c *Acu*	c *Acu Cist* y	bc b
16	7·3	0·97	7·1	0·94	SE:SSE	S:SW	1·0	0·04	196	b	b *Cicu* y	b bc *Cist so-ha* y	bc *lu-ha* b
17	6·0	0·80	3·4	0·46	Calm	Calm	0·0	0·00	95	b w	bc b *Ci* z_o y	bc z_o c *Acu* y	bc b
18	7·5	1·00	7·5	1·00	Calm	E:ENE	0·3	0·01	118	c b z_o	b z_o y	b *Ci* y	b w
19	7·5	1·00	7·5	1·00	Calm:E	E:Calm	0·5	0·05	151	b	b z_o y	b y	b
20	3·1	0·42	3·0	0·40	Calm:S	SW	0·8	0·05	158	b	b bc *Ci* y	bc *Cist so-ha* c y	c
21	7·0	1·00	7·0	1·00	WSW:NNW	NNW:NW	5·0	0·23	294	c b c	c *Stcu Cu* y	c y	c bc *lu-ha* b
22	6·9	0·98	6·8	0·97	NNW:N	N:Calm	3·0	0·19	243	b	bc *Stcu Cu* y	bc y	bc b
23	5·5	0·79	5·3	0·76	N:NNE	NE:E:Calm	1·7	0·08	176	b x c	c *Stcu Frcu* y	c *Stcu* y	c b c
24	7·0	1·00	7·0	1·00	Calm:SE	ESE:Calm	0·5	0·04	129	c b x c	c *Stcu* y	bc *Acu* b y	b *lu-ha*
25	6·9	0·98	6·8	0·97	Calm:E	ESE:Calm	0·3	0·03	125	b x f	f c *Cist Cu so-ha*	bc *Ci Acu* y	b
26	0·0	0·00	0·0	0·00	Calm:E	E:NNE:Calm	0·2	0·00	129	b m x	bc m c *Nbst* r_o	c *Nbst* 1 r_o r r	r r c
27	1·7	0·24	1·5	0·21	Calm:NW	NNW:Calm	4·3	0·17	227	c 1 r_o	c 1 r_o c *Stcu Cu*	c *Stcu Cu* y	c b x
28	0·0	0·00	0·0	0·00	NW	NW:W:SW	4·6	0·25	276	c 1 r	bc c *Cu Cumb* 1 s_o	c s c p c	c r r
29	5·3	0·81	5·0	0·77	NNW:NW	NW	6·5	0·71	375	s r c	c *Frcu Frst* y	bc *Frcu* y c p_o s_o	c b
30	5·7	0·87	4·7	0·73	NW	NW:NNW	3·7	0·39	304	b c 1 s	c *Ast Cu*	c *Ast Cumb*	c b x c
Mean	4·5	0·60	4·3	0·57	..	..	..	0·29	228				
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 46°·8, being 2°·9 higher than
The mean *Temperature of the Dew Point* for the month was 41°·3, being 1°·7 higher than
The mean *Degree of Humidity* for the month was 68·4, being 6·1 less than
The mean *Elastic Force of Vapour* for the month was 0·261 in., being 0·017 in. greater than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·402. The maximum daily amount of *Sunshine* was 12·0 hours on April 19.

The highest reading of the *Solar Radiation Thermometer* was 136°·0 on April 20; and the lowest reading of the *Terrestrial Radiation Thermometer* was 18°·6 on April 24.

The *Proportions of Wind* referred to the cardinal points were N.17, E.20, S.13, W.23, calm or nearly calm conditions 27, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 17·3 lbs. on the square foot on April 2. The mean daily *Horizontal Movement of the Air* for the month was 228 miles; the greatest daily value was 579 miles on April 1 and the least daily value was 96 miles on April 17.

Rain (0·005 in. or over) fell on 12 days in the month, amounting to 0·933 in., as measured by gauge No. 6 partly sunk below the ground; being 0·633 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 hourly values (corrected and reduced to 32° Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
May 1	29·869	53·0	32·7	20·3	41·9	- 7·4	37·4	29·9	12·0	20·7	3·1	62	116·0	24·0	49·0	0·000	4·9	14·8
2	29·762	52·9	33·7	19·2	43·5	- 6·0	38·0	29·0	14·5	23·3	3·9	56	111·4	19·4	48·6	0·000	4·6	14·9
3	29·590	51·0	37·0	14·0	41·6	- 8·2	38·3	33·2	8·4	13·3	1·2	72	103·4	25·8	48·7	0·500	0·8	14·9
4	29·515	54·7	35·6	19·1	45·0	- 5·0	41·0	35·0	10·0	21·5	1·4	69	98·3	32·8	48·4	0·000	8·6	15·0
5	29·469	56·7	39·1	17·6	47·7	- 2·8	46·6	45·3	2·4	6·7	0·9	91	82·0	37·9	48·3	0·196	0·1	15·0
6	29·623	65·9	52·7	13·2	58·1	+ 7·6	54·7	51·7	6·4	11·4	1·4	79	130·7	42·8	48·7	0·010	5·4	15·1
7	29·815	74·4	53·0	21·4	61·3	+10·6	56·8	53·1	8·2	16·5	1·4	74	134·5	44·0	48·8	0·004	6·2	15·2
8	29·737	78·0	57·0	21·0	67·0	+16·0	61·1	56·6	10·4	5·8	3·1	70	139·4	53·0	49·0	0·005	4·9	15·2
9	29·734	75·1	52·8	22·3	65·1	+13·9	59·2	54·6	10·5	19·4	3·5	69	131·6	40·0	49·4	0·040	1·5	15·3
10	29·840	71·0	47·5	23·5	59·0	+ 7·5	53·8	48·9	10·1	19·3	1·5	69	119·7	33·9	49·6	0·000	2·4	15·3
11	29·834	79·6	50·6	29·0	65·2	+13·4	60·6	57·3	7·9	20·1	1·6	76	131·5	39·4	50·3	0·000	8·0	15·4
12	29·850	86·0	55·4	30·6	71·3	+19·2	63·3	57·8	13·5	25·8	1·5	63	141·8	41·8	50·4	0·000	11·9	15·4
13	29·715	78·9	50·8	28·1	64·5	+12·1	57·5	51·6	12·9	24·7	3·5	63	141·4	40·6	50·9	0·000	10·0	15·5
14	29·888	67·0	48·7	18·3	56·6	+ 4·0	51·8	47·1	9·5	16·4	4·4	70	123·2	41·4	51·0	0·000	5·5	15·6
15	29·926	71·2	50·9	20·3	59·7	+ 6·9	53·4	47·4	12·3	25·6	3·9	63	135·9	42·8	51·3	0·000	11·8	15·6
16	29·887	76·1	53·2	22·9	63·7	+10·7	58·1	53·6	10·1	19·8	2·6	70	135·3	48·8	51·6	0·000	11·4	15·7
17	29·808	78·2	53·9	24·3	65·7	+12·6	57·6	50·7	15·0	29·1	1·4	58	137·4	43·6	52·0	0·000	12·5	15·7
18	29·805	71·8	50·2	21·6	60·9	+ 7·6	56·7	53·2	7·7	15·9	2·7	75	140·3	39·8	52·2	0·000	5·8	15·7
19	29·639	57·0	49·1	7·9	52·8	- 0·7	50·2	47·5	5·3	7·2	1·8	82	75·0	43·7	52·0	0·000	0·0	15·8
20	29·478	62·0	48·5	13·5	54·9	+ 1·1	53·2	51·6	3·3	7·9	1·2	89	94·9	37·5	52·4	0·201	1·0	15·8
21	29·474	68·9	46·6	22·3	55·4	+ 1·2	51·8	48·3	7·1	18·6	0·4	77	139·6	35·5	52·7	0·480	6·7	15·9
22	29·449	67·2	47·5	19·7	56·7	+ 2·1	51·9	47·2	9·5	22·2	2·0	70	133·3	45·3	52·5	0·005	9·4	15·9
23	29·598	64·8	46·4	18·4	53·9	- 1·0	51·0	48·1	5·8	14·6	0·4	80	132·3	40·8	52·5	0·290	4·1	16·0
24	29·844	57·0	40·3	16·7	48·8	- 6·5	44·4	38·8	10·0	16·8	1·5	68	83·9	30·0	52·4	0·000	2·6	16·0
25	29·693	70·6	39·1	31·5	55·2	- 0·3	50·8	46·3	8·9	19·2	0·9	72	129·0	28·8	52·8	0·000	7·8	16·1
26	29·472	57·5	49·2	8·3	53·5	- 2·3	50·5	47·4	6·1	10·0	2·2	80	94·0	36·8	52·5	0·025	0·7	16·1
27	29·414	64·2	44·4	19·8	52·9	- 3·1	49·0	44·9	8·0	19·7	1·2	74	128·3	32·0	52·6	0·043	8·1	16·1
28	29·474	60·2	39·2	21·0	51·1	- 5·1	48·4	45·5	5·6	14·6	0·9	81	112·3	26·2	52·7	0·062	2·0	16·2
29	29·500	65·0	47·9	17·1	56·4	0·0	50·6	44·5	11·9	25·3	1·0	64	127·1	34·5	52·8	0·010	8·5	16·2
30	29·681	67·1	43·7	23·4	54·9	- 1·8	49·5	43·6	11·3	25·6	0·4	65	136·3	29·9	53·0	0·000	10·8	16·2
31	29·755	66·3	50·7	15·6	57·6	+ 0·5	52·9	48·5	9·1	15·7	2·6	71	129·9	44·0	53·0	0·000	8·8	16·3
Means	29·682	66·8	46·7	20·1	56·2	+ 3·1	51·6	47·0	9·2	18·2	1·9	71·7	121·6	37·3	51·0	Sum 1·871	6·0	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 29·682 in., being 0·119 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 86°·0 on May 12; the lowest in the month was 32°·7 on May 1; and the range was 53°·3.

The mean of all the highest daily readings in the month was 66°·8, being 4°·6 higher than the average for the 65 years, 1841-1905.

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

The mean of the daily ranges was 20°·1, being 2°·1 greater than the average for the 65 years, 1841-1905.

The mean for the month was 56°·2, being 3°·1 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
May 1	5·8	0·89	5·7	0·88	NNW:NW	N	4·4	0·37	294	c	c r_o c *Ast Stcu*	bc c *Cunb* r_o bc y	c b c
2	2·8	0·44	1·6	0·25	NNW:NW	W:WSW	2·4	0·12	193	b x	bc c *Acu Cu* y	c *Stcu* y	c b c
3	0·2	0·03	0·2	0·03	SW	SW:WSW	1·2	0·07	199	c i r_o	i r_o c *Ast Cist*	c *Nbst* r_o r r	r r c
4	0·0	0·00	0·0	0·00	NW	NW:W:SW	1·5	0·15	222	c	bc *Frcu Cu* y	bc *Cu Acu* y	bc c
5	0·2	0·03	0·1	0·01	S:SSE	SSE:S:SW	6·2	0·20	240	c d r_o	c *Nbst* r r	r r R i r	i r c
6	2·7	0·44	2·6	0·43	SW	SW:S	6·4	0·87	385	c	c bc c *Cu Acu*	c i r c	c b c
7	0·9	0·14	0·9	0·14	Calm	SE:ESE:E	0·8	0·05	152	c	c *Ci Cicu*	c *Cicu Cist so-ha*	p_o c p_o t l
8	0·0	0·00	0·0	0·00	ESE:SE	SE:Calm	3·2	0·22	222	r_o l bc	c i r c *Cicu so-ha*	c *Ci Cicu so-ha*	c
9	5·0	0·83	5·0	0·83	VAR:Calm:SW	SW:SSW	2·8	0·13	194	c	c *Cist Cunb so-ha* p c	c y c i r	c r b
10	4·9	0·81	4·7	0·78	Calm	E:Calm	1·6	0·05	140	b bc	c r_o m c *Cicu Acu* y	bc *Cicu Acu* c y	c b
11	6·0	1·00	6·0	1·00	Calm:ENE	E:Calm	1·5	0·03	140	b c	c *so-ha Cist Ci*	b bc *Ci*	b
12	3·3	0·61	2·8	0·51	Calm:SW	SSW:Calm	0·3	0·02	123	b w	bc *Acu Cicu* b y	b y	bc
13	5·5	1·00	5·5	1·00	Calm:SW	SW:WSW	10·6	1·20	392	bc w b	b bc *Acu Nbst* y	p_o bc y	b
14	3·7	0·68	3·3	0·60	SW:WSW	SW	10·6	1·27	472	b bc	bc *Cicu* c *Stcu*	c *Acu Cicu Cu* y	c b
15	3·0	0·55	2·9	0·53	WSW	WSW:SW	3·2	0·28	278	b bc	bc *Ci Frcu* y	b *Frcu Ci* y	b
16	5·5	1·00	5·5	1·00	SW	SW	3·2	0·21	254	c	c b *Frcu Ci*	b *Frcu Ci* y	b
17	5·2	0·95	5·2	0·95	SW:W	W	1·6	0·13	209	b w bc	bc b *Ci* y	b *Ci* y	b
18	4·4	0·81	4·4	0·80	Calm:E	E:ENE	2·8	0·22	202	b c	c *Stcu* y	c bc *Ci Frcu*	bc b
19	4·0	0·76	4·0	0·76	ENE	ENE:E	3·0	0·37	320	b c	c *Stcu*	c *St*	c bc
20	4·5	0·86	4·3	0·83	ENE:E	SW:SSW	3·2	0·18	243	bc c	c *Nbst* r r	r r c i r	bc b
21	0·0	0·00	0·0	0·00	Calm	SW:ESE:WSW	1·3	0·05	157	b w bc	bc c *Frcu Acu* y	c t l i R	r r
22	1·5	0·29	1·3	0·25	WSW	SW:S:Calm	1·6	0·14	217	r c	b bc *Frcu Ci* y	bc c *Cu Frcu* y	c p_o c
23	1·7	0·31	1·7	0·31	Calm	NE:NNE	2·5	0·13	148	c	c r_o r c *Cunb*	c p h t *Cunb Acu*	r c b
24	5·3	1·00	5·3	1·00	NNE:N	N:Calm	2·0	0·17	207	c	c *Stcu*	c *Stcu* bc y	bc b
25	0·7	0·13	0·7	0·13	SW	VAR:Calm	3·0	0·14	193	b w	bc c *Cist Frcu* y	c *Cist so-ha* c t	c r_o c
26	1·0	0·21	0·8	0·15	Calm	SW:W:SSW	1·9	0·05	155	c b c	c i r_o *Nbst Cunb*	c p c *Stcu*	c i r
27	4·9	0·97	4·7	0·95	SW:WSW	WSW:SSW:Calm	2·0	0·11	204	c r b bc	bc *Frcu Stcu* y	bc c y	b
28	0·8	0·16	0·8	0·16	Calm:SSW	Calm	0·7	0·02	117	b w	c i r_o *Acu Cu*	i r_o r r c *Nbst*	c r_o
29	5·0	1·00	5·0	1·00	Calm:SW	WSW:SW	2·0	0·13	223	r_o c	c bc *Cist Cu so-ha*	c *Frcu Stcu* y	bc b
30	2·5	0·49	2·4	0·48	SW:WSW	WSW:SW	3·1	0·21	258	b w	b bc *Cu Ci*	bc *Cu Ci* y	bc *so-ha prhn* c
31	1·1	0·21	0·7	0·15	SW	SW:SSW	5·6	0·58	358	c bc	bc c *Stcu Cu*	c p c *Frcu Acu*	c
Means	3·0	0·54	2·8	0·51	..	..	..	0·25	229				
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 51°·6, being 2°·6 higher than
The mean *Temperature of the Dew Point* for the month was 47°·0, being 2°·2 higher than
The mean *Degree of Humidity* for the month was 71·7, being 2·2 less than
The mean *Elastic Force of Vapour* for the month was 0·324 in., being 0·026 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·9.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·386. The maximum daily amount of *Sunshine* was 12·5 hours on May 17.

The highest reading of the *Solar Radiation Thermometer* was 141°·8 on May 12; and the lowest reading of the *Terrestrial Radiation Thermometer* was 19°·4 on May 2.

The *Proportions of Wind* referred to the cardinal points were N.10, E.12, S.26, W.31, calm or nearly calm conditions 21, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 10·6 lbs. on the square foot on May 13 and 14. The mean daily *Horizontal Movement of the Air* for the month was 229 miles; the greatest daily value was 472 miles on May 14 and the least daily value was 117 miles on May 28.

Rain (0·005 in. or over) fell on 13 days in the month, amounting to 1·871 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.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
June 1	29·723	64·6	49·8	14·8	56·4	− 1·0	51·0	45·5	10·9	20·3	2·6	66	127·3	42·0	53·0	0·027	9·4	16·3
2	29·780	65·5	49·5	16·0	56·7	− 1·1	52·5	48·5	8·2	17·4	1·8	74	128·3	44·2	53·0	0·031	8·5	16·3
3	29·717	71·1	51·6	19·5	59·7	+ 1·6	54·6	49·9	9·8	20·7	1·5	70	129·0	45·6	53·2	0·370	2·4	16·4
4	29·705	67·0	48·6	18·4	57·6	− 0·7	52·2	46·8	10·8	21·0	1·6	68	134·5	38·5	53·2	0·020	10·9	16·4
5	29·799	65·3	48·2	17·1	57·4	− 1·0	53·5	49·9	7·5	13·7	2·2	76	118·1	35·8	53·3	0·035	1·5	16·4
6	29·688	65·9	57·2	8·7	60·2	+ 1·9	58·6	57·4	2·8	6·0	1·1	90	93·8	54·9	53·4	0·210	0·2	16·5
7	29·636	69·9	53·4	16·5	61·9	+ 3·7	57·1	53·1	8·8	19·8	0·7	73	136·1	47·0	53·7	0·054	9·3	16·5
8	29·855	67·0	51·2	15·8	57·9	− 0·2	53·6	49·7	8·2	19·0	3·9	74	135·9	44·8	53·6	0·095	11·6	16·5
9	30·078	65·0	48·3	16·7	56·2	− 1·8	51·8	47·5	8·7	18·4	2·0	72	129·7	41·8	54·0	0·016	5·8	16·5
10	30·018	60·4	51·1	9·3	56·5	− 1·6	54·6	53·0	3·5	5·7	1·0	88	86·2	44·7	54·0	0·064	0·0	16·5
11	29·952	69·3	55·0	14·3	61·2	+ 3·0	57·7	54·9	6·3	13·1	2·5	80	119·6	51·0	54·1	0·000	1·7	16·6
12	29·839	65·3	51·5	13·8	58·3	− 0·1	53·0	47·9	10·4	17·6	2·9	69	128·6	46·0	54·1	0·004	4·5	16·6
13	30·127	69·3	48·9	20·4	58·9	+ 0·4	52·7	46·7	12·2	19·9	3·2	63	126·2	43·0	54·3	0·000	9·8	16·6
14	30·049	66·4	50·2	16·2	58·2	− 0·5	53·5	49·1	9·1	21·3	2·0	72	128·3	43·8	54·4	0·000	7·1	16·6
15	29·903	71·3	52·1	19·2	59·6	+ 0·8	55·6	52·2	7·4	16·9	1·0	77	117·9	42·8	54·4	0·000	2·8	16·6
16	29·960	65·5	50·8	14·7	57·4	− 1·5	51·5	45·5	11·9	21·8	2·2	64	129·8	40·4	54·5	0·000	1·3	16·6
17	30·141	71·4	44·4	27·0	58·5	− 0·5	52·3	46·2	12·3	22·3	1·3	63	135·2	28·7	54·7	0·000	11·0	16·6
18	30·095	80·0	44·9	35·1	63·8	+ 4·6	55·3	47·5	16·3	31·2	2·3	55	140·4	29·8	55·0	0·000	14·1	16·6
19	29·907	76·0	49·3	26·7	64·5	+ 5·0	57·4	51·4	13·1	25·8	1·2	63	135·4	33·2	55·0	0·000	14·0	16·6
20	29·654	79·0	54·3	24·7	66·3	+ 6·4	61·0	57·1	9·2	18·3	2·4	73	134·3	39·0	55·0	0·006	5·6	16·6
21	29·745	73·8	53·2	20·6	62·6	+ 2·3	58·2	54·8	7·8	20·9	1·9	75	134·3	37·9	55·0	0·381	4·9	16·6
22	29·912	78·7	51·1	27·6	66·2	+ 5·6	58·0	51·1	15·1	25·9	2·6	58	142·6	37·2	55·4	0·010	11·4	16·6
23	29·941	80·1	59·5	20·6	69·0	+ 8·1	62·1	57·2	11·8	24·6	2·8	66	141·0	55·3	55·8	0·050	10·7	16·6
24	30·026	78·7	61·7	17·0	68·6	+ 7·4	60·9	55·1	13·5	22·2	4·1	62	145·6	53·4	55·8	0·000	8·9	16·6
25	30·131	75·4	55·3	20·1	65·9	+ 4·5	58·1	51·6	14·3	22·6	2·6	60	133·2	40·4	56·0	0·000	8·5	16·6
26	29·944	66·4	54·9	11·5	60·7	− 0·8	54·5	48·8	11·9	21·9	4·1	65	110·5	45·8	56·2	0·003	1·1	16·6
27	29·788	66·0	50·8	15·2	57·9	− 3·7	51·9	45·9	12·0	21·7	3·4	64	120·3	39·0	56·3	0·040	9·6	16·6
28	29·634	57·1	45·8	11·3	52·7	− 8·9	51·0	49·3	3·4	9·4	1·2	88	82·9	31·8	56·1	0·245	0·5	16·6
29	29·616	67·2	53·0	14·2	58·7	− 2·9	55·2	52·2	6·5	12·9	1·8	79	116·8	49·8	56·1	0·041	0·9	16·6
30	29·668	66·3	51·2	15·1	58·1	− 3·4	53·6	49·5	8·6	19·3	2·0	73	121·4	45·8	56·1	0·027	6·4	16·6
Means	29·868	69·5	51·6	17·9	60·3	+ 0·8	55·1	50·5	9·7	19·1	2·2	70·7	125·4	42·4	54·6	Sum 1·729	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 29·868 in., being 0·046 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 80°·1 on June 23; the lowest in the month was 44°·4 on June 17; and the range was 35°·7.

The mean of all the highest daily readings in the month was 69°·5, being 0°·6 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 51°·6, being 1°·2 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17°·9, being 0°·6 less than the average for the 65 years, 1841-1905.

The mean for the month was 60°·3, being 0°·8 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
June 1	4·5	0·90	4·4	0·88	SSW:SW	SW:SSW	5·4	0·40	311	c b	b c *Ci Nbst* p y	c *Cu Nbst* p c y	c b
2	..	..	..	..	SSW	SW:SSW	5·4	0·60	362	b c p	c *Acu Nbst* p c	c bc y	b c
3	0·5	0·12	0·3	0·08	SSW	SSW	2·8	0·31	273	c	c *Acu Cist so-ha* y	c *Ast* y c 1 r	1 r R
4	3·5	0·77	3·5	0·77	WSW	WSW:SW	4·0	0·41	333	r b	b bc *Cu Cicu*	bc c *Cu Ci* y	c b
5	0·0	0·00	0·0	0·00	Calm:SSW	SW:S	2·6	0·13	206	b c r	c *Nbst* r_o	r c *Nbst*	c 1 r
6	0·0	0·00	0·0	0·00	SSW:SW	SW:SSW	3·5	0·28	278	r r c	c r r c *Nbst*	c r c *Nbst Stcu*	c 1 r
7	4·5	1·00	4·5	1·00	SSW:SW	SW	8·6	1·32	453	c 1 r	b bc *Frcu Cu*	bc c *Acu Cicu Cu* y	b
8	4·5	1·00	4·5	1·00	SW	SW	6·3	0·88	393	b	bc c *Nbst* p	c p c *Stcu*	c b
9	2·8	0·63	2·6	0·58	WSW	SW	3·2	0·29	301	b	bc *Acu Cicu so-ha* c	c 1 r_o r c *Ast*	bc b
10	0·0	0·00	0·0	0·00	SW	SW:WSW	2·4	0·32	306	b c	c *Ast Nbst* d d	d c *Nbst*	c d_o c
11	2·8	0·62	2·3	0·51	WSW	SW:WSW	2·0	0·24	289	c	c *Cist Cicu*	c *Ast Nbst* r_o c	c bc
12	1·7	0·37	1·1	0·24	WSW	W:NW:NNW	7·5	0·64	385	bc c	c *Stcu Nbst* r_o	c bc *Frcu Ci Nbst* p	c d c
13	4·5	1·00	4·2	0·93	NNW:NW	W:WSW	3·0	0·29	294	c bc	bc *Ci Stcu*	bc *Cist Acu* y	b
14	4·4	0·98	4·4	0·98	WSW:W	W:WSW	4·0	0·45	313	b c	c *Stcu Acu* y	c *Stcu Cu* b y	b
15	1·9	0·42	1·8	0·40	WSW:SW	WSW:W	4·6	0·50	338	b c	c *Stcu Nbst*	r_o c bc *Frcu* y	bc c
16	4·5	1·00	4·4	0·98	W:NNW	NNW:NNE:Calm	1·3	0·06	165	c b c	c *Acu Frcu* y	c *Stcu Cu* y	c b
17	4·5	1·00	4·5	1·00	Calm:SSW	SW:SSW	1·5	0·07	158	b	b bc *Cu* y	c *Stcu* b y	b
18	4·5	1·00	4·5	1·00	Calm:WSW	SW:Calm	0·6	0·03	131	b	b *Ci* y	b *Ci* y	b
19	2·1	0·46	1·9	0·41	Calm:E	ENE	5·0	0·48	251	b	b *Ci* y	b *Ci* y	b c
20	3·8	0·85	3·7	0·81	ENE:SSE	SSW:S	4·0	0·35	249	c p	c b *Cicu* c *Nbst*	c *Nbst* r_o c b	b
21	1·2	0·26	1·0	0·22	Calm:VAR	SW	1·5	0·14	189	b bc	c *Nbst* r R c	c bc *Cist Frcu* y	bc c
22	0·0	0·00	0·0	0·00	Calm:SSW	S:ESE	1·4	0·07	158	c b	b *Ci Cu* y	b c *Acu Stcu* y	c r r_o
23	2·3	0·50	1·9	0·43	SE:S:SW	SW	1·8	0·15	216	c r c	c p_o c *Acu Frcu*	b *Ci Acu* y	b c
24	3·1	0·68	3·1	0·68	W:WSW	NW:N	1·5	0·11	191	c	c *Frcu Ci* y	bc *Acu Ci* y	bc c
25	2·7	0·60	2·1	0·46	Calm	Calm:SE:SSW	0·5	0·03	129	b	b c *Cist Acu so-ha* y	c *Cu Stcu* y	c
26	3·0	0·67	2·8	0·62	Calm:SW:NNW	NW	1·4	0·07	173	c	c *Ast Stcu* y	c r_o c *Ast Stcu* y	c b
27	4·5	1·00	4·5	1·00	NW	NW:WNW	12·5	0·36	296	b c b	b c *Nbst* 1 r_o	c q p t l bc *Frcu* y	bc b
28	0·6	0·13	0·5	0·11	SW	S:Calm	0·4	0·01	117	b bc *so-ha*	c *Ast Nbst* r r	r r r_o *Nbst*	c b c
29	3·4	0·76	3·3	0·73	Calm	SW:WSW	2·0	0·13	149	c	c *Cu Cumb* r_o	c *Cu Stcu*	c r c
30	2·8	0·62	2·7	0·59	WSW:W	WSW:SW	5·2	0·54	385	b	b c *Ci Cu*	c 1 r r_o	1 r c
Means	2·7	0·60	2·6	0·57	..	..	..	0·32	260				
No. of Col. for Ref.	19	10	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 55°·1, being 0°·2 higher than
The mean *Temperature of the Dew Point* for the month was 50°·5, being 0°·3 lower than
The mean *Degree of Humidity* for the month was 70·7, being 2·5 less than
The mean *Elastic Force of Vapour* for the month was 0·370 in., being 0·005 in. less than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·392. The maximum daily amount of *Sunshine* was 14·1 hours on June 18.

The highest reading of the *Solar Radiation Thermometer* was 145°·6 on June 24; and the lowest reading of the *Terrestrial Radiation Thermometer* was 28°·7 on June 17.

The *Proportions of Wind* referred to the cardinal points were N.7, E.5, S.34, W.40, calm or nearly calm conditions 14, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 12·5 lbs. on the square foot on June 27. The mean daily *Horizontal Movement of the Air* for the month was 260 miles; the greatest daily value was 453 miles on June 7 and the least daily value was 117 miles on June 28.

Rain (0·005 in. or over) fell on 18 days in the month, amounting to 1·729 in., as measured by gauge No. 6 partly sunk below the ground; being 0·309 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 Hourly values (corrected and reduced to 32° Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
July 1	29·498	67·8	51·1	16·7	57·5	- 4·0	52·7	48·1	9·4	20·1	2·6	71	134·2	46·3	56·1	0·200	8·4	16·6
2	29·681	63·0	51·7	11·3	57·2	- 4·4	52·7	48·5	8·7	13·8	3·4	72	110·7	43·5	56·1	0·010	1·2	16·6
3	29·849	72·6	49·1	23·5	60·2	- 1·6	54·6	49·6	10·6	18·4	1·6	68	124·1	38·0	56·2	0·000	4·4	16·5
4	29·804	66·7	52·2	14·5	59·9	- 2·2	57·2	55·0	4·9	7·7	2·1	84	100·9	40·0	56·0	0·000	0·0	16·5
5	29·710	79·0	59·8	19·2	67·7	+ 5·4	62·6	59·1	8·6	17·6	1·4	74	132·7	52·0	56·2	0·022	1·7	16·5
6	29·658	80·8	57·4	23·4	69·3	+ 6·9	61·5	55·8	13·5	23·4	1·8	62	143·3	45·9	56·4	0·000	12·8	16·5
7	29·774	77·9	57·3	20·6	65·6	+ 3·2	57·5	50·6	15·0	27·0	5·7	58	144·2	46·5	56·5	0·000	11·9	16·4
8	29·915	78·4	49·5	28·9	64·4	+ 2·0	56·6	49·8	14·6	24·9	1·6	59	140·1	34·1	56·7	0·000	11·7	16·4
9	29·701	78·4	54·3	24·1	66·3	+ 3·9	60·0	55·2	11·1	21·9	1·5	68	140·3	39·8	56·8	0·050	4·3	16·4
10	29·579	62·0	58·2	3·8	60·6	- 1·9	59·6	58·9	1·7	3·5	0·5	94	67·7	53·8	56·8	0·396	0·0	16·4
11	29·708	72·0	53·6	18·4	60·6	- 2·1	57·1	54·2	6·4	18·4	1·4	80	131·2	49·0	57·0	0·008	3·1	16·4
12	29·912	79·7	54·5	25·2	67·4	+ 4·5	60·8	55·9	11·5	19·7	1·1	67	141·3	45·4	57·1	0·000	9·7	16·3
13	29·866	79·8	57·9	21·9	69·9	+ 6·8	62·1	56·5	13·4	27·2	3·7	62	138·7	45·8	57·2	0·000	13·5	16·3
14	29·783	84·7	61·5	23·2	69·3	+ 6·0	65·2	62·6	6·7	19·3	1·9	79	140·6	49·9	57·3	0·650	3·2	16·2
15	29·591	86·0	61·7	24·3	70·1	+ 6·7	64·6	61·1	9·0	25·3	1·7	73	138·3	55·9	57·8	0·515	8·7	16·2
16	29·869	68·3	52·8	15·5	61·6	- 1·8	55·9	50·9	10·7	23·4	2·6	68	117·9	43·0	57·8	0·009	1·6	16·2
17	30·083	75·6	48·4	27·2	62·6	- 0·8	56·1	50·4	12·2	25·8	0·8	65	141·9	35·7	58·0	0·000	9·3	16·1
18	29·837	82·2	55·5	26·7	67·8	+ 4·5	60·6	55·2	12·6	30·8	1·1	64	143·4	47·8	58·1	0·000	4·8	16·1
19	29·656	76·0	59·8	16·2	67·4	+ 4·2	60·6	55·5	11·9	20·3	3·3	66	139·9	49·4	58·2	0·011	8·5	16·1
20	29·797	70·0	58·2	11·8	63·2	- 0·0	58·5	54·8	8·4	15·9	3·6	74	127·2	53·7	58·2	0·002	5·8	16·0
21	29·893	76·4	60·6	15·8	66·8	+ 3·6	62·6	59·8	7·0	12·7	4·9	78	135·2	53·3	58·3	0·000	4·9	16·0
22	29·940	72·0	57·2	14·8	64·0	+ 0·9	58·2	53·6	10·4	19·4	2·5	69	119·2	50·6	58·4	0·000	7·3	15·9
23	30·079	80·1	55·5	24·6	67·5	+ 4·5	60·5	55·2	12·3	22·7	1·5	65	136·4	45·5	58·5	0·000	13·3	15·9
24	30·021	77·8	53·6	24·2	65·1	+ 2·2	58·6	53·5	11·6	22·1	1·4	66	132·6	40·1	58·8	0·000	11·9	15·8
25	29·927	74·0	56·7	17·3	65·1	+ 2·4	59·7	55·6	9·5	16·7	1·2	72	128·1	42·4	58·8	0·000	2·2	15·8
26	29·731	65·7	53·2	12·5	61·4	- 1·1	57·7	54·8	6·6	13·2	2·3	79	119·2	51·8	58·7	0·622	1·8	15·7
27	29·719	67·6	52·3	15·3	58·2	- 4·2	53·6	49·4	8·8	19·9	1·8	72	118·7	45·0	58·8	0·360	2·3	15·7
28	29·923	70·7	51·6	19·1	60·8	- 1·5	53·5	46·3	14·5	23·4	4·8	59	131·4	39·7	58·9	0·000	11·2	15·6
29	30·050	73·9	50·5	23·4	62·1	- 0·2	56·9	52·5	9·6	17·5	2·2	71	136·3	37·5	58·9	0·000	6·1	15·6
30	30·014	71·1	56·2	14·9	62·2	- 0·1	57·3	53·2	9·0	22·9	1·9	73	129·9	44·8	58·5	0·002	3·1	15·6
31	29·970	70·4	56·6	13·8	63·1	+ 0·9	58·5	54·9	8·2	11·3	2·2	75	99·0	46·1	58·7	0·065	0·2	15·5
Means	29·824	74·2	55·1	19·1	64·0	+ 1·4	58·5	54·1	9·9	19·6	2·3	70·5	128·5	45·6	57·6	Sum 2·922	6·1	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 29·824 in., being 0·018 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 86°·0 on July 15; the lowest in the month was 48°·4 on July 17; and the range was 37°·6.

The mean of all the highest daily readings in the month was 74°·2, being 2°·1 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 55°·1, being 1°·3 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 19°·1, being 0°·8 greater than the average for the 65 years, 1841-1905..

The mean for the month was 64°·0, being 1°·4 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
July 1	0·7	0·16	0·4	0·09	SW:WSW	W	6·4	0·69	395	bc	c *Cu Ci* y	c *Cu Nbst* P t c	c R r c
2	4·1	0·91	4·0	0·89	W:WNW	NW	3·0	0·35	309	c	c *Acu Cunb*	c *Acu Nbst*	c r b
3	4·5	1·00	4·5	1·00	W:NW	WSW:SW	1·6	0·09	176	b c	c *Stcu*	c *Stcu* bc y	b
4	0·0	0·00	0·0	0·00	SW	SSW	1·2	0·07	195	b c	c *Stcu*	c *Stcu*	c
5	4·0	0·88	4·0	0·88	SW:Calm	WSW	0·4	0·03	150	c r	c r_o c *Acu Cu*	c *Acu Cu* y	c bc b
6	3·6	0·80	3·6	0·80	SW:WSW	SW:WSW	3·2	0·19	256	b	b *Ci* y	c *Cicu Cist so-ha* b y	b c b
7	4·7	1·00	4·7	1·00	WSW:W	W:WNW	2·5	0·24	293	b c	c bc *Stcu* y	bc *Stcu* b bc y	bc b
8	3·6	0·75	3·6	0·75	Calm	Calm:SE	1·0	0·02	97	b bc	bc *Acu* y	c *Stcu* bc y	bc b
9	0·0	0·00	0·0	0·00	Calm:E:SE	SE:SSE	3·2	0·17	176	b c	c r_o c *Stcu* y	c *Acu Cicu so-ha* r_o y c	c r l r c
10	0·0	0·00	0·0	0·00	Calm:N	NNW	2·1	0·20	232	c r_o	c r R *Nbst*	c *Nbst* ir d m_o	d c
11	3·3	0·68	3·1	0·65	W:WSW	SW:SSW	1·4	0·15	254	c r c	c d m_o c *Stcu*	c *Acu Cunb* y	c b
12	2·3	0·49	1·9	0·41	S:SSW	SSW:S:Calm	1·1	0·06	174	c	c *Acu Cicu Cunb*	b c *Acu* b y	b c b
13	4·0	0·84	3·6	0·76	Calm:E	E	4·5	0·51	260	b	b *Ci* y	b *Cicu* y	bc b
14	0·0	0·00	0·0	0·00	Calm:SW	Calm:VAR	6·0	0·06	131	b c tlr$_o$	c *Nbst* ir b *Ci*	b *Ci* c *Cunb* t ir	t ir R R T L
15	0·7	0·13	0·5	0·10	NNW:NNE:ENE	S:SSW:SE	6·3	0·52	309	R R T L$_o$ b	b bc *Acu* b	b c *Cunb* p t	c ir r_o
16	5·3	1·00	5·3	1·00	SSE:SW	SW	11·5	1·09	396	r r_o c	c *Acu Cicu Cu* q	c *Cicu Stcu* y	bc b
17	5·3	1·00	5·3	1·00	Calm:S	SE:E	1·8	0·08	154	b w bc	bc c *Ci Cicu so-ha* y	c *Cu Stcu* b y	b
18	1·1	0·21	0·7	0·14	E:ESE	E	3·8	0·30	238	b	bc c *Ci Cicu* y	c *Acu Ast* y c r_o	c
19	0·1	0·02	0·0	0·00	SW	SW:SSW	7·0	0·93	354	c	c bc *Stcu Cicu* y	bc r_o c *Stcu* y	c r c
20	1·6	0·31	1·5	0·28	SSW:SW	SW	7·8	1·29	427	c	bc c *Ast Cu* y	c p *Nbst Acu*	bc c
21	4·7	0·81	4·5	0·79	SW	SSW:SW	3·2	0·46	312	c	c *Stcu Frcu*	c *Stcu* b	b bc
22	4·5	0·78	4·3	0·76	WSW:W	W:WSW	4·0	0·56	364	bc	bc c *Stcu* v y	c *Stcu* v y	c b
23	5·7	1·00	5·7	1·00	WSW:W	W	2·2	0·23	273	b	b y	b	b
24	4·9	0·86	4·7	0·82	WSW:NW	NW:N:NNE	1·1	0·08	166	b c b	b c *Stcu* b *Frcu* y	b *Frcu* z_o c y	c b
25	0·7	0·12	0·0	0·00	Calm:NNE	Calm:NE	0·7	0·05	139	b c	c *Stcu* z_o y	c *Acu* z_o y	c
26	0·0	0·00	0·0	0·00	NE:ENE	NE:ENE	4·2	0·35	291	c	c *Ast*	r_o r c *Ci Acu*	c t l R r
27	3·5	0·61	3·5	0·61	NNE:N	NNW	3·8	0·35	290	rr	c *Stcu Frst*	c *Cu Ci Acu*	c b
28	5;8	0·93	5·3	0·85	Calm:NNW	NNW:WNW	2·2	0·16	194	b c b	b bc *Cu* y	bc *Acu Ci* y	b c
29	2·4	0·39	2·4	0·38	WSW:W	NW:WSW	1·2	0·08	175	b	c *Frcu Stcu* y	c *Stcu* y	b c
30	0·8	0·13	0·5	0·09	WSW:NW:N	NNE:NE	2·1	0·11	186	b c	c *Nbst* d_o d g_o m_o	c *Ci Acu Cicu* y	b bc c
31	0·0	0·00	0·0	0·00	Calm:NNW	NNW:NE	0·9	0·06	137	c	c r_o *Stcu* m_o	c *Stcu* m_o r_o	ir c
Means	2·6	0·51	2·5	0·49	..	..	..	0·31	242				
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 58°·5, being 0°·6 higher than
The mean *Temperature of the Dew Point* for the month was 54°·1, being the same as
The mean *Degree of Humidity* for the month was 70·5, being 2·7 less than
The mean *Elastic Force of Vapour* for the month was 0·422 in., being 0·001 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·9.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·378. The maximum daily amount of *Sunshine* was 13·5 hours on July 13.

The highest reading of the *Solar Radiation Thermometer* was 144°·2 on July 7; and the lowest reading of the *Terrestrial Radiation Thermometer* was 34°·1 on July 8.

The *Proportions of Wind* referred to the cardinal points were N.16, E.12, S.20, W.35, calm or nearly calm conditions 17, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 11·5 lbs. on the square foot on July 16. The mean daily *Horizontal Movement of the Air* for the month was 242 miles; the greatest daily value was 427 miles on July 20 and the least daily value was 97 miles on July 8.

Rain (0·005 in. or over) fell on 13 days in the month, amounting to 2·922 in., as measured by gauge No. 6 partly sunk below the ground; being 0·523 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 hourly values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Aug. 1	30·011	63·8	57·0	6·8	59·9	- 2·3	56·2	53·1	6·8	8·6	4·9	78	116·9	54·0	58·7	0·000	0·3	15·4
2	30·062	78·1	52·1	26·0	63·8	+ 1·7	56·8	50·9	12·9	29·8	1·7	63	134·4	42·0	58·8	0·000	13·7	15·4
3	30·067	81·5	50·7	30·8	66·4	+ 4·3	59·8	54·7	11·7	26·3	1·2	66	131·0	35·8	58·8	0·000	11·1	15·3
4	29·944	87·8	53·6	34·2	70·8	+ 8·7	60·8	53·1	17·7	39·2	1·6	53	140·6	38·3	59·0	0·000	13·5	15·3
5	29·735	79·2	55·0	24·2	67·4	+ 5·3	59·8	53·9	13·5	20·5	4·2	62	135·3	41·8	58·8	0·000	9·7	15·2
6	29·665	65·8	51·0	14·8	56·8	- 5·4	52·4	48·2	8·6	19·0	3·0	72	121·4	39·5	58·8	0·087	4·8	15·2
7	29·699	60·3	47·1	13·2	53·4	- 8·8	50·2	46·9	6·5	12·3	1·6	79	86·5	39·4	58·6	0·075	1·1	15·1
8	29·694	65·7	50·6	15·1	56·7	- 5·6	53·8	51·2	5·5	14·6	0·8	82	127·1	44·4	58·7	0·125	1·5	15·1
9	29·673	62·3	51·7	10·6	56·8	- 5·5	54·4	52·4	4·4	10·4	1·1	85	97·7	43·2	58·6	0·615	0·0	15·0
10	29·567	77·7	55·2	22·5	65·6	+ 3·3	58·3	52·3	13·3	23·1	2·2	62	129·2	52·0	58·7	0·028	9·4	14·9
11	29·712	71·5	54·3	17·2	62·3	- 0·1	58·8	56·1	6·2	10·3	2·4	81	109·1	45·8	58·7	0·000	2·1	14·9
12	29·759	70·9	58·4	12·5	63·7	+ 1·2	60·6	58·4	5·3	11·5	1·3	83	131·8	46·2	58·6	0·000	2·5	14·8
13	29·745	64·5	54·5	10·0	59·7	- 2·8	57·3	55·3	4·4	5·9	1·1	86	81·2	51·7	58·4	0·000	0·0	14·8
14	29·669	67·0	57·2	9·8	60·5	- 2·0	58·4	56·8	3·7	7·9	2·0	87	94·3	52·0	58·5	0·005	0·7	14·7
15	29·675	70·9	55·2	15·7	62·2	- 0·2	57·9	54·5	7·7	15·9	2·0	76	126·5	46·9	58·6	0·040	4·2	14·7
16	29·774	71·0	51·1	19·9	60·8	- 1·5	54·8	49·4	11·4	23·8	2·6	66	133·3	44·8	58·5	0·044	11·3	14·6
17	29·655	74·3	56·5	17·8	63·9	+ 1·8	58·5	54·2	9·7	18·9	2·8	71	129·4	45·6	58·5	0·000	5·2	14·6
18	29·602	66·6	56·7	9·9	61·4	- 0·5	57·3	54·0	7·4	15·0	2·9	76	99·3	44·6	58·5	0·003	1·1	14·5
19	29·562	60·5	53·8	6·7	57·2	- 4·5	53·3	49·6	7·6	12·5	2·2	76	80·1	51·7	58·5	0·000	0·0	14·4
20	29·571	67·1	53·3	13·8	59·3	- 2·2	54·9	51·0	8·3	13·3	2·4	74	92·7	48·3	58·5	0·000	0·0	14·4
21	29·393	72·0	54·1	17·9	62·0	+ 0·7	58·8	56·3	5·7	12·3	1·7	82	124·3	47·6	58·5	0·146	4·5	14·3
22	29·344	69·4	56·2	13·2	60·4	- 0·7	57·7	55·5	4·9	14·8	1·8	84	135·9	49·4	58·6	0·062	4·7	14·3
23	29·683	69·5	54·3	15·2	60·9	0·0	56·1	52·0	8·9	17·0	2·7	72	126·7	52·9	58·5	0·012	3·8	14·2
24	29·680	66·9	55·9	11·0	61·6	+ 0·8	58·9	56·9	4·7	8·3	1·0	84	104·7	50·0	58·4	0·022	0·2	14·1
25	29·787	72·4	56·8	15·6	64·4	+ 3·7	60·8	58·2	6·2	11·5	1·9	80	131·3	47·0	58·6	0·000	1·1	14·0
26	29·974	74·2	50·4	23·8	62·0	+ 1·3	56·3	51·3	10·7	23·2	1·2	69	127·7	35·9	58·7	0·000	11·6	14·0
27	29·888	74·9	50·3	24·6	62·6	+ 2·0	57·8	53·9	8·7	17·9	1·4	73	135·3	35·4	58·9	0·000	11·6	13·9
28	29·795	75·9	56·9	19·0	66·0	+ 5·6	62·2	59·6	6·4	14·4	1·2	80	131·2	43·8	58·9	0·000	4·4	13·9
29	29·710	70·4	58·2	12·2	64·1	+ 3·8	61·5	59·7	4·4	8·6	1·1	86	109·4	49·9	58·8	0·000	0·4	13·8
30	29·721	67·6	57·2	10·4	61·1	+ 1·0	58·6	56·6	4·5	9·3	1·8	85	89·4	52·4	58·8	0·000	0·0	13·7
31	29·863	71·3	53·3	18·0	60·5	+ 0·6	56·1	52·4	8·1	19·6	2·5	74	128·6	43·7	58·9	0·000	3·2	13·7
Means	29·732	70·7	54·1	16·5	61·7	+ 0·1	57·4	53·8	7·9	16·0	2·0	75·7	117·2	45·7	58·7	Sum 1·264	4·4	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 29·732 in., being 0·058 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 87°·8 on August 4; the lowest in the month was 47°·1 on August 7; and the range was 40°·7.

The mean of all the highest daily readings in the month was 70°·7, being 0°·1 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 54°·1, being 0°·5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 16°·5, being 0°·7 less than the average for the 65 years, 1841-1905.

The mean for the month was 61°·7, being 0°·1 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER: 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Aug. 1	0·6	0·09	0·2	0·04	NNE:N	N	3·2	0·24	248	c	c *Stcu*	c *Stcu*	c
2	6·3	1·00	6·3	1·00	N:NNW	NNE:E:Calm	2·7	0·13	172	c b	b *Ci Frcu* y	b y z_o	b z_o
3	6·3	1·00	6·3	1·00	Calm	Calm:S	0·2	0·02	86	b z_o	b z y	b z_o y	b z_o
4	6·7	1·00	6·7	1·00	S:Calm	SW:WSW	1·0	0·05	134	b w z_o	b *Ci* z_o y	b *Cicu* y	b
5	5·6	0·83	5·5	0·82	Calm	W:NNW	3·2	0·14	190	b	b c *Acu Cicu* y	c *Cu Acu* y	c bc
6	..	..	..	..	NW:W	NNW:WSW	4·6	0·16	210	b bc	c *Cunb* y	t l h r c b c p	p c b
7	0·9	0·14	0·5	0·07	WSW	SW:SSW	1·4	0·15	230	b	c *Nbst* l d_o	c *Cunb* l d_o r	r r_o c
8	1·3	0·19	0·6	0·09	Calm	SE:Calm	1·0	0·03	114	c	c *Stcu Cunb*	c *Stcu Cunb*	c r c t l r
9	0·0	0·00	0·0	0·00	Calm:N	NNW:NW	7·0	0·31	298	r c	c *Nbst* ir_o c	c *Stcu Cu*	r R d_o
10	6·7	1·00	6·7	1·00	NW:NNW	NNW:N	5·5	0·69	361	d_o r c	c *Acu Cicu* b y	b *Acu Cicu* y	b
11	2·0	0·27	1·8	0·25	N:Calm	Calm:N	1·0	0·07	133	b	c *Acu*	c *Stcu Ast*	c b
12	0·8	0·11	0·7	0·09	Calm	NE:Calm	0·8	0·03	114	b c	c d d_o b c *Stcu*	c *Stcu Frcu* b c	bc c
13	0·0	0·00	0·0	0·00	NNE	N:NNE	1·1	0·11	180	c	c *Nbst*	c *St*	c
14	0·0	0·00	0·0	0·00	N:Calm	WSW:Calm	0·6	0·03	125	c id	id c *Nbst*	c *St* b	b c
15	7·1	0·98	7·0	0·97	Calm:SW:W	W:WSW	4·5	0·26	261	c	c r d *Nbst*	c bc y	b
16	1·1	0·14	0·7	0·10	WSW:W	WSW	7·0	0·58	356	b	b bc *Cu Cicu* y	bc c *Cicu Ci prha* y	c rr c
17	4·7	0·65	4·5	0·62	WSW	WNW:N:NE	1·6	0·19	237	c	c *Acu Cicu Cu*	bc *Cu Ci* c y	c b
18	0·0	0·00	0·0	0·00	NE	ENE:NNE	2·2	0·17	235	b c	c *Stcu*	c *Stcu*	c id_o r
19	0·1	0·01	0·1	0·01	N	N:NNW	2·1	0·23	237	c id_o	c *Nbst* id_o	c *Nbst Stcu*	c
20	3·9	0·50	2·4	0·31	Calm	S:SSW	1·1	0·03	115	c	c *Acu Stcu*	c *Stcu*	c
21	5·3	0·68	4·9	0·64	S:SSE:SSW	SSW	3·0	0·30	260	c ir	ir c *Stcu*	c *Stcu Cu*	c bc
22	0·8	0·10	0·5	0·06	SSW:SW	S:Calm:N	7·6	0·36	269	bc	bc c p *Cicu Cunb*	c *Nbst* r r_o d c	c d_o
23	2·0	0·26	1·5	0·20	NNW	WSW:SW	4·0	0·30	299	c	c b c *Stcu*	c *Cist Frcu so-ha* p	c
24	0·4	0·05	0·1	0·01	SW	SW	6·2	1·08	437	bc c	c *Stcu Nbst*	c *Nbst* id	c id
25	6·8	0·82	6·7	0·82	SW:WSW	WSW:NNW	3·0	0·27	266	c	c *Stcu Nbst*	d c	c b
26	8·3	1·00	8·3	1·00	Calm	Calm	0·2	0·00	98	b w	b m_o b *Frcu* y	b y	b
27	7·5	0·91	7·5	0·91	Calm:E	E:ENE	2·5	0·09	162	b w	b *Stcu* y	b *Ci* y	b
28	3·1	0·38	1·8	0·22	Calm:ENE	ENE:Calm	1·4	0·06	149	b c f	bc c *Acu Cunb* p_o	c *Acu Cunb* t	c b w
29	3·5	0·42	3·2	0·38	Calm	SW:SSW	1·1	0·07	155	c	ir_o c *Acu*	c *Stcu Nbst* r_o	c b bc
30	0·0	0·00	0·0	0·00	SW:WSW	WSW:WNW:N	1·2	0·10	221	c	c *Stcu St*	c *Stcu Cunb* r_o	c
31	8·2	0·99	7·8	0·94	N:NNE	Calm:SSE	1·0	0·05	152	c	c b *Acu* y	b c *Stcu* y	c b
Means	3·3	0·45	3·1	0·42	..	..	..	0·20	210				
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 57°·4, being 0°·1 lower than
The mean *Temperature of the Dew Point* for the month was 53°·8, being 0°·5 lower than
The mean *Degree of Humidity* for the month was 75·7, being 1·1 less than
The mean *Elastic Force of Vapour* for the month was 0·417 in., being 0·007 in. less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6·8.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·304. The maximum daily amount of *Sunshine* was 13·7 hours on August 2.

The highest reading of the *Solar Radiation Thermometer* was 140°·6 on August 4; and the lowest reading of the *Terrestrial Radiation Thermometer* was 35°·4 on August 27.

The *Proportions of Wind* referred to the cardinal points were N.25, E.8, S.15, W.23, calm or nearly calm conditions 29, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 7·6 lbs. on the square foot on August 22. The mean daily *Horizontal Movement of the Air* for the month was 210 miles; the greatest daily value was 437 miles on August 24 and the least daily value was 86 miles on August 3.

Rain (0·005 in. or over) fell on 12 days in the month, amounting to 1·264 in., as measured by gauge No. 6 partly sunk below the ground; being 1·080 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII, - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100).	TEMPERATURE			Rain collected in Gauge No.f, 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			
	Mean of 24 hourly values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Sept. 1	29·917	65·3	51·3	14·0	58·7	- 1·1	55·2	52·2	6·5	12·1	1·6	79	85·0	41·7	58·8	0·217	0·3	13·6
2	29·957	69·0	55·5	13·5	61·7	+ 2·0	57·0	53·1	8·6	16·9	2·8	73	133·3	50·6	59·0	0·155	4·5	13·5
3	29·960	65·9	54·3	11·6	60·0	+ 0·4	57·1	54·7	5·3	8·4	1·5	83	108·7	49·4	58·7	0·038	1·5	13·5
4	29·929	61·4	56·9	4·5	59·1	- 0·4	57·9	57·0	2·1	3·7	0·9	93	70·4	53·0	58·7	0·028	0·0	13·4
5	29·999	60·9	54·0	6·9	58·9	- 0·5	56·3	54·2	4·7	8·3	2·6	84	69·4	51·7	58·5	0·000	0·0	13·3
6	30·091	62·3	52·4	9·9	56·8	- 2·4	51·4	45·9	10·9	16·9	7·0	67	105·9	49·8	58·5	0·000	0·6	13·3
7	30·081	66·5	53·1	13·4	58·6	- 0·4	53·1	47·8	10·8	18·4	3·3	68	103·3	46·0	58·5	0·000	0·1	13·2
8	29·922	60·5	53·8	6·7	56·6	- 2·2	54·4	52·6	4·0	7·3	0·9	86	79·1	45·1	58·6	0·085	0·0	13·2
9	29·858	65·0	54·1	10·9	58·1	- 0·5	55·0	52·3	5·8	11·1	2·2	81	115·7	52·4	58·6	0·000	0·5	13·1
10	29·892	66·3	54·9	11·4	60·2	+ 1·8	56·9	54·2	6·0	11·7	1·4	81	106·6	52·7	58·5	0·006	0·3	13·0
11	30·007	72·9	62·0	10·9	65·7	+ 7·6	64·0	62·9	2·8	6·3	0·8	91	104·5	58·0	58·5	0·048	0·0	12·9
12	29·986	76·2	63·4	12·8	68·3	+10·3	65·2	63·3	5·0	11·3	1·0	84	112·3	58·6	58·6	0·000	0·2	12·9
13	29·691	71·0	55·3	15·7	62·3	+ 4·5	58·6	55·8	6·5	17·3	2·6	79	124·8	50·6	58·6	0·100	3·0	12·8
14	29·610	63·0	54·9	8·1	59·0	+ 1·3	56·6	54·7	4·3	8·4	2·6	85	89·6	50·2	58·6	0·117	0·0	12·8
15	29·735	66·0	52·7	13·3	59·3	+ 1·7	55·7	52·7	6·6	14·7	0·8	79	101·3	47·2	58·7	0·000	1·3	12·7
16	29·777	73·6	57·7	15·9	65·1	+ 7·6	61·2	58·4	6·7	12·9	3·1	79	113·9	52·0	58·7	0·000	2·6	12·7
17	29·748	76·9	55·7	21·2	66·3	+ 9·1	62·2	59·4	6·9	14·8	0·9	79	132·7	44·5	58·8	0·000	1·8	12·6
18	29·534	75·7	59·7	16·0	65·7	+ 8·8	61·8	59·1	6·6	18·2	0·8	79	128·4	49·5	58·6	0·122	4·9	12·5
19	29·589	71·8	57·0	14·8	62·4	+ 5·9	58·4	55·3	7·1	16·5	1·0	77	133·4	49·5	58·9	0·039	3·4	12·4
20	29·813	63·5	54·5	9·0	61·0	+ 4·8	59·1	57·7	3·3	7·1	0·4	89	72·9	46·8	58·7	0·182	0·1	12·4
21	29·894	67·0	49·9	17·1	56·7	+ 0·8	54·5	52·7	4·0	13·2	0·4	86	120·9	42·2	58·9	0·031	2·4	12·3
22	29·676	65·1	49·1	16·0	58·1	+ 2·5	53·3	48·8	9·3	21·2	1·7	71	119·1	42·7	58·6	0·047	4·9	12·3
23	29·651	64·0	47·5	16·5	53·6	- 1·8	49·2	44·5	9·1	20·0	3·4	71	128·2	41·1	58·8	0·010	8·0	12·2
24	29·658	58·9	50·9	8·0	53·9	- 1·4	50·3	46·7	7·2	11·4	2·2	76	78·3	46·9	58·4	0·107	0·2	12·1
25	29·970	57·5	46·9	10·6	51·4	- 3·8	47·0	41·9	9·5	13·6	4·8	70	101·3	42·6	58·2	0·000	3·7	12·1
26	30·091	61·0	46·4	14·6	53·2	- 2·0	49·7	46·1	7·1	15·6	1·1	77	99·3	41·8	58·1	0·002	0·7	12·0
27	30·016	66·0	52·3	13·7	58·7	+ 3·6	54·7	51·2	7·5	17·3	2·1	76	107·3	46·8	58·0	0·005	3·2	11·9
28	30·007	63·0	50·5	12·5	54·8	- 0·1	51·4	48·1	6·7	13·2	2·6	78	106·3	41·5	57·7	0·078	2·4	11·9
29	30·225	63·7	40·7	23·0	51·6	- 3·1	48·6	45·4	6·2	13·1	0·8	79	111·6	28·8	57·6	0·000	7·6	11·8
30	30·364	62·5	44·5	18·0	53·9	- 0·5	51·1	48·4	5·5	11·8	0·6	81	105·3	33·9	57·5	0·000	3·0	11·7
Means	29·888	66·1	53·1	13·0	59·0	+ 1·8	55·6	52·6	6·4	13·1	1·9	79·4	105·6	46·9	58·5	Sum 1·417	2·1	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 29·888 in., being 0·070 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 76°·9, on September 17; the lowest in the month was 40°·7 on September 29; and the range was 36°·2.

The mean of all the highest daily readings in the month was 66°·1, being 0°·1 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 53°·1, being 3°·4 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 13°·0, being 3°·5 less than the average for the 65 years, 1841-1905.

The mean for the month was 59°·0, being 1°·8 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Sept. 1	0·5	0·05	0·4	0·04	ESE	E	2·6	0·19	220	b	c *Stcu Macu* r_o	c *Stcu*	ir
2	5·8	0·67	5·7	0·65	E	E:ENE	4·8	0·58	299	r c	bc *Cicu* b	b *Acu* y c	c b c
3	0·0	0·00	0·0	0·00	NE:ENE:E	E:ENE:NNE	3·7	0·26	236	c b c	c *Ast Nbst* ir_o	r_o r bc c *Acu Cicu*	c
4	1·5	0·18	0·3	0·04	N:Calm	NNW:N:NNE	0·5	0·04	151	c dd	d r c *Nbst* d m_o	d c *St* m_o	c
5	0·0	0·00	0·0	0·00	NNE	NNE	2·7	0·25	277	c	c *St*	c *Stcu*	c
6	0·1	0·01	0·0	0·00	NNE	NNE:NE	1·5	0·20	229	c	c *Stcu*	c *Stcu*	c
7	1·7	0·20	1·7	0·20	Calm:ENE	ENE	1·2	0·06	152	c	c *Stcu* y	c bc *Stcu* y	b c
8	0·0	0·00	0·0	0·00	Calm:ENE	NE:NNE	1·3	0·12	194	c	dd f c *Stcu* m_o	c *Stcu*	c
9	0·0	0·00	0·0	0·00	NNE:N	N:Calm	1·1	0·11	155	c	c *Stcu*	c *Stcu*	c
10	1·2	0·14	0·7	0·08	Calm:SW	SSW:S	0·3	0·03	131	c	c *Stcu*	r c *Acu Nbst*	c
11	1·0	0·11	0·7	0·08	SSW	SSW	0·8	0·07	201	c ir	c d c *Nbst*	c *Stcu*	bc c
12	5·1	0·57	3·5	0·39	Calm	S	0·8	0·07	158	c	c *Stcu*	c *Stcu*	c b
13	3·1	0·35	0·9	0·10	SSW:WSW	SW	4·0	0·28	264	b c r c	c *Ci Cist so-ha*	bc c *Acu Ast* P b	bc b c
14	4·3	0·48	3·4	0·37	SW	SSW:SW	4·5	0·52	328	c r c	c *Stcu*	r_o c *Nbst* ir	ir c
15	0·5	0·05	0·4	0·04	WSW:SW	SW	2·6	0·24	269	b	c *Cicu Acu*	c *Ast Frst*	c r_o c
16	7·3	0·75	6·5	0·67	SW	SW	6·4	0·77	379	c	c *Nbst*	c *Acu Frst*	c b
17	4·8	0·49	4·3	0·44	SW:Calm:S	SSE:Calm	1·0	0·09	163	b c	c bc *Acu Ci*	bc c *Cicu Cist so-ha* c	c b
18	4·0	0·41	3·3	0·33	SSW:Calm:SW	SSW:SSE	1·7	0·09	207	b c r R c	c r_o c *Cicu Stcu Acu*	bc *so-ha* c *Cicu Acu* y	c p c
19	0·9	0·10	0·8	0·08	SSW:VAR:W	SW:SSW	4·8	0·55	312	c bc c r c	c b *Frcu Stcu*	b bc c *Cicu Acu Cu* y	c b c
20	7·8	0·80	7·2	0·74	SSW:SW	SSW:SW	5·0	0·81	348	c d r_o	c r c *Nbst*	d_o rr c *Nbst* b	b
21	1·7	0·18	0·9	0·09	SW:Calm	SW:SSW	1·4	0·03	162	b bc c	c *Frcu Cist so-ha* bc	bc c *Acu Nbst* r c	b *lu-ha* c
22	10·2	0·99	9·9	0·97	SSW:WSW	WSW	6·0	0·98	393	c r c	r bc *Cist Cu so-ha* y	bc *Cist Cu co-ha* b y	b
23	0·7	0·07	0·3	0·03	WSW:SW	NW	6·6	0·95	400	b w	c bc *Cist Frcu* y	bc y c *Cunb* ir_o	c ir_o
24	4·3	0·42	3·7	0·36	NW:NNW	NNW	12·0	1·72	513	c ir	c *Nbst* ir	c *Stcu* p c q	c b q c
25	5·4	0·52	4·9	0·48	NNW	N:NNW	6·2	1·04	422	c	c *Acu Cicu*	c r_o bc *Acu Frcu*	bc b
26	3·3	0·32	2·1	0·20	NNW	W:WSW	1·3	0·14	216	b c	c *Stcu Acu* m_o	c *Stcu Ast*	d_o m c
27	3·7	0·36	2·2	0·21	NW	W:WSW:NW	3·2	0·26	283	c bc w	bc *Cicu Acu* c *Stcu*	c *Ast Acu*	c r_o bc
28	10·3	1·00	10·3	1·00	NW:N	NW:NNW	2·0	0·11	198	bc c r	rr c *Acu Frcu*	bc c *Acu Ci Cu* m	b ff
29	8·5	0·79	6·8	0·63	Calm:SW	Calm:SW	0·2	0·01	132	b ff w	b ff	bfm	b m
30	2·0	0·19	1·7	0·16	Calm	Calm	0·1	0·00	105	bc m	b m c *Stcu* m_o	c *Stcu* m_o	c b c ff
Means	3·3	0·34	2·8	0·28	..	..	..	0·35	250				
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°·6, being 1°·5 higher than
The mean *Degree of Humidity* for the month was 79·4, being 0·5 less than
The mean *Elastic Force of Vapour* for the month was 0·399 in., being 0·020 greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7·8.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·162. The maximum daily amount of *Sunshine* was 8·0 hours on September 23.

The highest reading of the *Solar Radiation Thermometer* was 133°·4 on September 19; and the lowest reading of the *Terrestrial Radiation Thermometer* was 28°·8 on September 29.

The *Proportions of Wind* referred to the cardinal points were N.22, E.14, S.25, W.25, calm or nearly calm conditions 14, 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 September 24. The mean daily *Horizontal Movement of the Air* for the month was 250 miles; the greatest daily value was 513 miles on September 24 and the least daily value was 105 miles on September 30.

Rain (0·005 in. or over) fell on 18 days in the month, amounting to 1·417 in., as measured by gauge No. 6 partly sunk below the ground; being 0·731 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 hourly values (corrected) and reduced to 32° Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Oct. 1	30·443	61·3	50·6	10·7	55·7	+ 1·6	52·9	50·4	5·3	11·4	1·4	82	80·4	35·8	57·3	0·000	0·0	11·7
2	30·469	59·0	48·8	10·2	55·3	+ 1·6	52·5	49·9	5·4	9·2	1·5	82	78·9	38·3	57·3	0·000	0·1	11·6
3	30·397	60·6	50·4	10·2	56·5	+ 3·2	52·8	49·3	7·2	12·2	2·2	77	77·1	40·0	57·3	0·000	0·1	11·5
4	30·189	54·0	46·0	8·0	50·8	- 2·2	49·4	48·0	2·8	4·5	0·4	90	67·9	35·4	57·0	0·000	0·0	11·4
5	30·260	64·8	42·3	22·5	52·3	- 0·5	48·9	45·3	7·0	19·6	0·0	77	111·8	28·1	57·0	0·000	8·5	11·4
6	30·257	61·7	42·1	19·6	52·0	- 0·5	50·2	48·4	3·6	9·2	0·0	87	88·2	30·8	56·8	0·000	1·6	11·3
7	30·245	61·0	39·3	21·7	51·2	- 1·1	48·5	45·6	5·6	13·0	0·4	81	116·9	27·6	56·7	0·000	4·9	11·3
8	30·165	64·8	46·8	18·0	54·6	+ 2·6	51·0	47·4	7·2	16·8	0·6	76	102·9	33·6	56·4	0·000	6·0	11·2
9	29·930	64·7	41·5	23·2	51·9	+ 0·3	49·1	46·1	5·8	13·9	0·9	81	110·9	28·0	56·3	0·000	6·2	11·2
10	29·752	71·1	46·4	24·7	57·9	+ 6·6	53·9	50·3	7·6	18·2	0·7	76	122·0	32·8	56·1	0·000	7·9	11·1
11	30·024	74·3	49·1	25·2	59·6	+ 8·7	55·2	51·3	8·3	21·7	2·2	74	126·5	37·4	56·1	0·000	4·8	11·0
12	30·199	71·1	54·3	16·8	59·3	+ 8·7	56·7	54·6	4·7	15·8	1·0	85	103·8	43·4	56·0	0·000	4·5	11·0
13	30·253	61·5	43·5	18·0	55·1	+ 4·8	51·6	48·1	7·0	13·8	1·1	77	99·8	30·0	56·0	0·000	5·5	10·9
14	30·232	56·6	41·9	14·7	49·2	- 0·9	47·4	45·4	3·8	9·3	0·0	87	86·3	27·7	56·0	0·000	3·0	10·8
15	30·211	63·0	42·1	20·9	52·6	+ 2·7	49·2	45·6	7·0	15·0	0·6	77	114·4	27·2	56·0	0·000	6·5	10·8
16	30·168	67·6	40·6	27·0	51·9	+ 2·1	49·8	47·7	4·2	14·7	0·0	85	110·4	29·2	55·8	0·000	4·9	10·7
17	30·088	60·0	49·5	10·5	54·7	+ 5·1	51·9	49·3	5·4	10·8	0·4	81	105·4	35·0	55·6	0·023	1·8	10·6
18	30·009	56·0	44·3	11·7	52·0	+ 2·7	49·8	47·5	4·5	6·7	0·5	85	80·8	28·5	55·4	0·010	0·2	10·6
19	29·945	63·0	44·6	18·4	52·1	+ 3·0	49·6	46·9	5·2	12·7	1·7	83	108·3	28·8	55·4	0·000	8·0	10·5
20	29·828	63·7	46·1	17·6	55·6	+ 6·8	53·8	52·2	3·4	6·4	0·0	88	110·3	31·5	55·3	0·020	2·5	10·4
21	29·608	63·1	58·6	4·5	60·2	+11·6	59·3	58·6	1·6	2·9	0·8	95	75·4	52·8	55·2	0·176	0·0	10·4
22	29·612	62·9	48·9	14·0	56·1	+ 7·8	53·2	50·6	5·5	11·6	1·2	82	104·2	40·9	55·1	0·020	6·4	10·3
23	29·511	63·0	51·5	11·5	56·3	+ 8·2	53·2	50·4	5·9	13·5	0·6	81	113·4	43·3	55·1	0·250	2·7	10·2
24	29·228	61·5	49·7	11·8	55·5	+ 7·6	52·4	49·5	6·0	15·6	1·8	80	105·3	44·1	55·1	0·383	2·5	10·2
25	29·150	57·1	48·4	8·7	52·8	+ 5·1	49·9	46·9	5·9	9·5	2·0	80	63·3	43·2	55·1	0·407	0·0	10·1
26	28·948	57·1	49·6	7·5	52·7	+ 5·1	48·9	44·9	7·8	11·7	5·8	74	83·3	45·0	55·0	0·060	2·9	10·0
27	29·352	58·4	47·7	10·7	51·5	+ 4·0	48·0	44·1	7·4	13·9	2·5	76	107·5	39·8	55·0	0·005	5·1	10·0
28	29·143	59·8	51·8	8·0	54·8	+ 7·4	53·1	41·5	3·3	7·2	1·0	89	96·8	46·0	54·9	0·132	0·4	9·9
29	29·318	60·1	47·0	13·1	52·7	+ 5·4	50·9	49·2	3·5	11·4	0·6	87	115·2	40·0	54·7	0·277	2·9	9·9
30	29·749	62·5	42·7	19·8	50·4	+ 3·2	47·9	45·2	5·2	15·5	0·0	82	107·9	32·3	54·7	0·000	8·3	9·8
31	29·858	62·0	38·7	23·3	48·9	+ 1·8	47·5	46·0	2·9	9·2	0·0	89	109·3	28·4	54·5	0·000	5·8	9·8
Means	29·888	62·2	46·6	15·6	53·9	+ 4·0	51·2	48·6	5·4	12·2	1·0	82·1	99·5	35·6	55·8	Sum 1·763	3·7	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 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 29·888 in., being 0·160 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 74°·3 on October 11; the lowest in the month was 38°·7 on October 31; and the range was 35°·6.

The mean of all the highest daily readings in the month was 62°·2, being 5°·2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 46°·6, being 2°·8 higher than the average for the 65 years, 1841-1905.

The mean of the daily range was 15°·6, being 2°·4 greater than the average for the 65 years, 1841-1905.

The mean for the month was 53°·9, being 4°·0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Oct. 1	3·0	0·28	2·2	0·20	Calm	N:Calm	0·1	0·00	81	c f f	c f c *Stcu*	c *Stcu*	c b c
2	0·0	0·00	0·0	0·00	Calm:NNE	NE:Calm	0·5	0·04	139	c b c w f	c m c *Stcu*	c *Stcu*	c d_o c
3	5·0	0·47	0·5	0·04	NE:Calm	Calm	0·1	0·00	105	c	c *Stcu*	c *Stcu*	c b c m
4	5·0	0·47	4·2	0·39	Calm	Calm	0·0	0·00	86	c b c w f	b f f	b f f	b f b
5	10·4	0·97	0·0	0·00	Calm	Calm	0·0	0·00	81	c b w m	b m b, *Frcu* y	b *Frcu* y	b m f
6	8·3	0·74	8·2	0·73	WSW:W:NW	NW:N	0·9	0·04	170	b c w f	c f b *Stcu* m	b *Acu* m	c m b
7	..	..	..	..	N:Calm	Calm	0·1	0·00	101	b x m	b m bc *Stcu*	c *Stcu* b m	c m b
8	7·5	0·67	7·5	0·67	WSW	WSW:SW	0·6	0·05	168	b c	c b *Ci* z_o	b y c *Acu Ci* z_o	c b
9	10·6	0·94	8·9	0·79	SSW	SSW:S	1·3	0·08	202	b w	bc *Ci Frcu so-ha*	bc *Cist Acu so-ha*	b
10	9·9	0·88	9·1	0·80	S:SSW	SSW:SW	3·7	0·27	283	b w bc	bc *Ci* y	bc b bc *Cicu* y	b
11	2·1	0·19	0·7	0·06	Calm:SW	W:Calm:E	0·6	0·04	135	b w c m	c bc *Ci so-ha*	bc *prhn Acu Cicu* y	b c m
12	1·1	0·10	0·7	0·07	Calm	Calm:NNE	0·5	0·02	96	c m f	f c b *Cicu* m_o	b	b c m
13	7·6	0·66	2·3	0·20	NNE:NE	NE:Calm	0·2	0·03	139	c m	c bc *Cu Frcu*	bc c *Frcu Cu* b m	b m f
14	4·6	0·40	4·6	0·40	Calm:N	N:NE:Calm	0·3	0·03	125	b w c f	c f m *Stcu*	b	b c m
15	11·5	1·00	11·1	0·97	Calm	Calm	0·0	0·00	72	c b f	b f bc *Stcu*	bc *Stcu* b y	b
16	3·6	0·31	2·3	0·20	Calm	Calm:ENE	0·2	0·01	67	b w c f	c *Stcu* b m_o	b m	b f m c
17	3·6	0·32	2·5	0·21	Calm:NE	NE:ENE	2·0	0·13	199	c w f	c *Stcu* f b c	c *Stcu*	c d r
18	10·3	0·89	10·0	0·87	ENE:E	Calm:E	1·1	0·08	168	c bc	c *Nbst* dd_o	d_o c *Stcu*	c b w
19	11·5	1·00	11·5	1·00	E:Calm	E:ESE	2·0	0·13	192	b w f	b f m	b	b
20	2·5	0·21	1·6	0·13	SE:Calm:S	SSW:S	1·4	0·12	195	b w	b c *Cist Nbst*	c *Nbst* 1 d_o	c r r
21	3·5	0·29	3·4	0·28	S	SSW	3·0	0·20	256	r r c m_o	c *Nbst* d r d	d r d *Nbst*	d r c
22	7·3	0·61	7·0	0·58	SW:SSW	SW:SSW	6·4	0·61	345	c b	b c *Frcu Acu* p	c r b *Cu*	b c
23	0·5	0·04	0·2	0·02	S:SSW:SW	SW:SSW	11·5	1·29	436	c p b c	r c *Cist so-ha* b	b c q r c *Cicu Acu*	c r_o r r
24	8·4	0·70	8·1	0·67	SSW	SW	20·0	2·59	594	r r	c R r c p q	bc q p *Cist Acu* b	b
25	6·7	0·56	5·5	0·46	SW	SSW:SW	19·6	2·21	561	b c	c *Nbst* r r q	r r Q R i r c *Nbst*	c b c q
26	8·5	0·70	7·6	0·64	SW:WSW	WSW	18·7	4·45	779	c i r q gale	c *Nbst* p_o gale	c q p bc *Acu Cicu* gale	bc
27	2·6	0·21	1·7	0·13	WSW	SW:S:SE	4·4	0·57	346	c b	b *Ci Frcu*	b *Cicu* c b	b c r
28	0·1	0·01	0·0	0·00	SE:SSE	SSE	2·8	0·26	235	r c	c r c *Acu*	c *Nbst* r_o r r c	c r_o r_o
29	12·1	0·97	11·8	0·94	WSW:SW:SSW	SSW	1·0	0·04	191	r_o c r r	r r r_o c *Acu Cu*	bc *Ci Cu*	b w
30	12·5	1·00	12·2	0·98	SSW:SW	WSW:SSW	0·2	0·02	174	b w m	b m b *Ci*	b *Frcu*	b f w
31	2·5	0·20	1·8	0·15	SSW:Calm	Calm	0·1	0·00	113	b w f	c b f bc *Cu*	bc *Cu* b f	b Fe Fe
Means	6·1	0·53	4·9	0·42	..	..	..	0·43	220				
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 51°·2, being 3°·3 higher than
The mean *Temperature of the Dew Point* for the month was 48°·6, being 3°·0 higher than
The mean *Degree of Humidity* for the month was 82·1, being 2·8 less than
The mean *Elastic Force of Vapour* for the month was 0·344, in., being 0·036 in. greater than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·344. The maximum daily amount of *Sunshine* was 8·5 hours on October 5.

The highest reading of the *Solar Radiation Thermometer* was 126°·5 on October 11; and the lowest reading of the *Terrestrial Radiation Thermometer* was 27°·2 on October 15.

The *Proportions of Wind* referred to the cardinal points were N.6, E.12, S.29, W.18, calm or nearly calm conditions 35, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 20·0 lbs. on the square foot on October 24. The mean daily *Horizontal Movement of the Air* for the month was 220 miles; the greatest daily value was 779 miles on October 26 and the least daily value was 67 miles on October 16.

Rain (0·005 in. or over) fell on 12 days in the month, amounting to 1·763 in., as measured by gauge No. 6 partly sunk below the ground; being 1·019 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 hourly values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Nov. 1	29·740	54·0	42·6	11·4	49·5	+ 2·5	48·3	47·1	2·4	4·5	0·0	91	77·3	32·6	54·3	0·013	2·3	9·7
2	29·715	53·5	50·6	2·9	52·0	+ 5·2	51·3	50·7	1·3	2·7	0·8	95	57·7	47·1	54·2	0·035	0·0	9·6
3	29·809	62·6	49·6	13·0	53·3	+ 6·7	51·8	50·4	2·9	9·5	0·0	90	103·7	39·8	54·1	0·000	3·4	9·6
4	29·818	60·6	50·9	9·7	54·4	+ 8·0	53·0	51·7	2·7	6·9	0·5	91	101·1	45·5	54·2	0·002	1·9	9·5
5	29·932	56·0	50·0	6·0	52·8	+ 6·7	51·7	50·7	2·1	4·3	0·0	92	74·3	45·0	54·0	0·015	0·7	9·5
6	30·162	54·0	46·1	7·9	50·3	+ 4·5	48·2	45·9	4·4	8·0	2·0	85	65·3	32·6	54·0	0·000	0·1	9·4
7	30·173	52·0	43·7	8·3	47·7	+ 2·3	45·3	42·5	5·2	8·8	1·1	82	62·0	33·1	54·0	0·000	0·0	9·3
8	29·853	57·0	47·7	9·3	52·0	+ 7·0	49·1	46·0	6·0	9·3	2·6	80	62·8	45·3	54·0	0·001	0·0	9·3
9	29·765	50·7	43·5	7·2	47·6	+ 3·0	44·5	40·6	7·0	8·0	4·5	76	67·1	36·3	53·8	0·000	0·2	9·2
10	29·826	50·0	39·3	10·7	44·6	+ 0·3	42·4	39·5	5·1	11·1	1·7	82	71·3	30·0	53·6	0·016	3·0	9·2
11	29·789	49·0	39·5	9·5	43·6	− 0·4	41·6	38·9	4·7	10·5	1·2	84	86·4	30·2	53·4	0·000	5·7	9·1
12	29·741	48·5	41·2	7·3	44·7	+ 1·0	43·0	40·8	3·9	5·7	2·3	86	77·6	38·9	53·1	0·017	0·4	9·1
13	29·784	50·7	44·0	6·7	46·5	+ 3·0	44·1	41·2	5·3	10·3	1·7	81	83·5	39·6	53·0	0·003	2·8	9·0
14	29·872	48·0	36·0	12·0	44·0	+ 0·7	42·5	40·6	3·4	7·5	0·5	87	66·6	24·3	52·8	0·000	0·5	9·0
15	29·949	47·0	36·0	11·0	40·9	− 2·2	38·9	36·0	4·9	11·6	0·5	82	56·3	24·3	52·7	0·000	0·0	8·9
16	29·962	45·5	34·1	11·4	39·3	− 3·5	36·7	32·4	6·9	13·8	0·8	76	78·8	24·1	52·4	0·000	5·1	8·8
17	29·904	46·5	40·0	6·5	43·5	+ 0·9	40·3	35·7	7·8	12·0	1·8	74	54·0	32·5	52·1	0·000	0·1	8·8
18	29·938	48·3	40·3	8·0	45·3	+ 2·9	43·1	40·2	5·1	8·7	2·4	83	63·9	29·5	52·0	0·000	0·4	8·8
19	29·872	48·5	41·8	6·7	45·7	+ 3·4	44·0	41·9	3·8	6·8	1·0	86	63·6	38·8	51·8	0·000	0·1	8·7
20	29·888	48·2	40·7	7·5	44·5	+ 2·3	44·3	44·1	0·4	0·9	0·0	98	49·6	37·7	51·5	0·023	0·0	8·7
21	29·924	54·0	48·1	5·9	51·2	+ 9·1	50·7	50·3	0·9	1·2	0·0	97	57·0	48·1	51·4	0·020	0·0	8·6
22	29·980	53·0	44·0	9·0	49·6	+ 7·5	49·1	48·6	1·0	2·6	0·0	96	57·2	43·7	51·4	0·011	0·0	8·6
23	29·835	46·4	42·3	4·1	43·8	+ 1·8	42·7	41·3	2·5	4·5	1·3	91	59·4	38·0	51·3	0·000	0·0	8·5
24	29·817	47·7	40·5	7·2	43·7	+ 1·7	42·5	41·0	2·7	6·7	0·7	90	76·6	34·0	51·4	0·000	1·3	8·5
25	30·025	48·9	36·9	12·0	42·7	+ 0·8	41·4	39·6	3·1	9·0	0·0	89	71·1	27·0	51·6	0·000	3·4	8·4
26	30·010	49·1	37·4	11·7	43·9	+ 2·1	41·6	38·5	5·4	7·2	2·9	81	53·4	29·0	51·2	0·000	0·0	8·4
27	30·113	41·6	32·5	9·1	36·5	− 5·2	34·7	31·6	4·9	12·1	1·6	82	49·1	24·6	51·0	0·000	0·1	8·3
28	30·000	43·0	32·0	11·0	37·2	− 4·3	36·1	34·3	2·9	5·2	0·0	90	48·0	23·8	50·9	0·000	0·0	8·3
29	29·883	47·1	37·0	10·1	43·9	+ 2·7	42·5	40·8	3·1	6·7	0·0	88	49·2	30·0	50·6	0·000	0·0	8·3
30	29·818	48·4	37·7	10·7	43·1	+ 2·1	41·2	38·5	4·6	7·2	0·0	84	59·0	28·6	50·3	0·000	0·1	8·2
Means	29·897	50·3	41·5	8·8	45·9	+ 2·4	44·2	42·0	3·9	7·4	1·1	86·3	66·8	34·5	52·5	Sum 0·156	1·1	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 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 29·897 in., being 0·132 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 62°·6 on November 3; the lowest in the month was 32°·0 on November 28; and the range was 30°·6.

The mean of all the highest daily readings in the month was 50°·3, being 1°·4 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 41°·5, being 3°·1 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 8°·8, being 1°·7 less than the average for the 65 years, 1841-1905.

The mean for the month was 45°·9, being 2°·4 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Nov. 1	0·0	0·00	0·0	0·00	Calm: NNE	NNE	1·3	0·06	167	Fe Fe	Fe b f c *Stcu*	c *Stcu* m	c l d m
2	0·0	0·00	0·0	0·00	Calm	WSW: Calm	0·1	0·00	123	c l d m	d_o d m g f	c *Nbst* f m	c m f
3	1·4	0·11	0·9	0·07	Calm	S: SSE: Calm	0·1	0·01	114	c d_o m f	c f bc *Acu Cu*	bc c b bc *Stcu Cunb*	c d_o
4	1·8	0·15	0·7	0·05	Calm: ENE	E: Calm	1·5	0·05	151	d c	c d c *Frcu* m	bc *Ci* m	c f f
5	0·4	0·03	0·3	0·02	Calm	ENE: NE	0·6	0·02	121	c f f	c b c *Stcu* m	c *Stcu* m_o	c m
6	4·3	0·34	1·5	0·12	NNW: N	N: NNW	1·2	0·08	171	c m	c m c *Stcu*	c r_o c *Acu* b	b c
7	2·1	0·17	0·0	0·00	NNW: Calm: WSW	SW: WSW	0·3	0·02	156	c f	c *Stcu* f	c b *Ci* m	bc m c
8	5·7	0·46	4·4	0·35	WSW: W	NW: NNW	5·8	0·55	355	c	c d_o c *Stcu*	c r_o bc *Acu Frcu*	b bc
9	6·9	0·55	5·9	0·47	NNW: N	N: NNE	4·0	0·63	354	bc b c	c r_o c *Stcu Nbst*	c *Stcu Frst*	c b
10	7·9	0·61	6·0	0·46	NNE	NNE	4·3	0·45	303	c b	b c *Acu Cicu*	c *Macu Nbst* r b	b c
11	0·8	0·06	0·4	0·03	NNE: N	N: NNW	2·7	0·27	244	c r_o b m	b bc *Ci Cu*	bc *Ci Acu*	c
12	0·8	0·06	0·3	0·02	NNW: N	N: NNW	2·6	0·30	281	c	c m_o *Acu Stcu*	c *Nbst* d g c	c
13	0·6	0·04	0·2	0·02	N: NNE	NNE: NNW	2·7	0·23	265	c r_o	c bc c *Cicu Acu*	c l d c *Ci Acu*	c
14	4·7	0·37	4·6	0·35	NNE: Calm	ESE: Calm	0·3	0·03	125	c	c *Acu Nbst* m	c *Cunb* r_o g c m_o	c b
15	10·4	0·80	10·0	0·77	Calm	SSW: Calm: SE	0·3	0·02	120	b c m	c *Stcu* m	c *Ast* m_o	bc *lu-ha* b
16	5·2	0·40	2·1	0·16	SE: SSE	ESE	3·0	0·29	252	b x	b m_o bc *Cist so-ha*	bc *Cicu Cist so-ha* bc	bc *lu-ha* c
17	9·5	0·72	9·2	0·69	E	E	5·2	0·63	323	c	c *Cist Acu*	c *Stcu* bc	b
18	0·0	0·00	0·0	0·00	NE: ENE	ENE: NE	2·6	0·24	243	b w c m_o	c *Stcu* m_o	c *Stcu* m_o	c m_o
19	0·0	0·00	0·0	0·00	NE: ENE: E	E: Calm	1·4	0·07	159	c m_o	c *Stcu* m_o	c *Stcu Frcu* m_o	c f f
20	0·0	0·00	0·0	0·00	Calm	Calm	0·0	0·00	82	c f Fe	Fe Fe	Fe Fe	fe r o
21	0·0	0·00	0·0	0·00	Calm	Calm	0·0	0·00	26	o	d d_o f f	d G d_o f f	l d d_o f f
22	0·0	0·00	0·0	0·00	Calm	E: ESE	0·3	0·02	108	o f f	o *St* d_o f f	o l d_o f f	f o m_o
23	1·6	0·12	1·3	0·10	ESE: Calm	Calm	0·2	0·01	91	o m_o	o c *Stcu* m_o	c *Stcu* m_o	c m_o
24	5·0	0·37	2·0	0·15	E: Calm	Calm: NE	0·0	0·00	94	c m f	c b c *Stcu* m	c *Acu* b m	b c
25	3·5	0·26	0·0	0·00	Calm	Calm: SW	0·1	0·00	108	c m	c b x bc *Cist* m_o	c *Stcu* b c m	c m
26	12·0	0·89	10·1	0·75	WSW: W	NNW: N	2·7	0·30	294	c bc m	c r_o c *Ast* m_o	c *Stcu* r_o c m_o	bc
27	13·5	1·00	10·7	0·79	NNW: Calm	NNW: WSW	0·5	0·03	151	bc b x	bc *Cist* f F	bc *Cicu* f m f	b
28	5·1	0·38	1·0	0·07	WSW: SW	SW	0·5	0·06	200	b x f	b c *Stcu* ff	c d_o c *Stcu* ff	b x c f
29	0·0	0·00	0·0	0·00	SW: WSW	Calm	0·2	0·00	139	c f f	c d_o c *St* ff	c *Stcu* ff	c f m
30	2·7	0·20	2·0	0·15	Calm	SE	0·8	0·05	123	c m_o	c *Stcu* m_o	c b c *Cicu Acu*	bc c
Means	3·5	0·27	2·5	0·19	..	..	..	0·15	181				
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°·2, being 2°·3 higher than
The mean *Temperature of the Dew Point* for the month was 42°·0, being 2°·3 higher than
The mean *Degree of Humidity* for the month was 86·3, being 0·3 less than
The mean *Elastic Force of Vapour* for the month was 0·268 in., being 0·022 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8·1.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·118. The maximum daily amount of *Sunshine* was 5·7 hours on November 11.

The highest reading of the *Solar Radiation Thermometer* was 103°·7 on November 3; and the lowest reading of the *Terrestrial Radiation Thermometer* was 23°·8 on November 28.

The *Proportions of Wind* referred to the cardinal points were N.26, E.19, S.8, W.10, calm or nearly calm conditions 37, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 5·8 lbs. on the square foot on November 8. The mean daily *Horizontal Movement* for the month was 181 miles; the greatest daily value was 355 miles on November 8, and the least daily value was 26 miles on November 21.

Rain (0·005 in. or over) fell on 8 days in the month, amounting to 0·156 in., as measured by gauge No. 6 partly sunk below the ground; being 2·064 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	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			
	Mean of 24 hourly values (corrected and reduced to 32 Fahrenheit).	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hrs.	hrs.
Dec. 1	29·658	53·2	38·4	14·8	45·8	+ 4·9	44·5	42·9	2·9	6·3	0·4	90	63·4	31·5	50·1	0·010	0·4	8·2
2	29·582	54·3	42·5	11·8	49·1	+ 8·2	47·8	46·4	2·7	5·4	1·1	90	54·6	36·4	50·1	0·204	0·0	8·2
3	29·785	46·3	36·0	10·3	42·5	+ 1·4	40·1	36·5	6·0	10·3	2·0	79	66·7	28·6	50·1	0·000	3·5	8·1
4	29·861	49·5	28·9	20·6	39·1	- 2·2	38·1	36·5	2·6	6·1	0·0	91	48·5	21·5	49·9	0·117	0·0	8·1
5	29·751	49·6	38·7	10·9	45·3	+ 3·8	42·0	37·4	7·9	12·8	0·6	74	61·9	33·7	49·6	0·000	3·4	8·1
6	30·040	41·8	31·8	10·0	38·5	- 3·0	34·9	28·7	9·8	13·8	1·5	67	52·0	26·1	49·5	0·000	1·4	8·0
7	30·157	39·4	27·1	12·3	34·2	- 7·1	32·6	29·9	4·3	14·7	1·2	83	43·8	21·4	49·3	0·000	0·0	8·0
8	30·286	36·2	28·8	7·4	33·7	- 7·3	30·5	25·0	8·7	12·4	3·3	68	56·6	25·0	49·0	0·001*	2·2	8·0
9	30·204	34·8	24·0	10·8	29·4	-11·2	27·7	24·7	4·7	9·0	2·2	80	44·2	16·5	48·8	0·000	2·5	8·0
10	30·143	38·5	22·0	16·5	31·6	- 8·8	30·5	28·7	2·9	6·8	1·4	88	38·0	14·3	48·5	0·000	0·0	8·0
11	30·182	44·6	31·6	13·0	38·2	- 2·0	37·1	35·4	2·8	6·7	0·0	90	47·4	23·8	48·2	0·000	0·0	7·9
12	30·224	43·0	32·4	10·6	39·0	- 1·3	37·7	35·8	3·2	5·5	1·3	88	50·8	25·4	48·0	0·000	0·0	7·9
13	29·935	49·0	41·2	7·8	45·0	+ 4·5	42·3	38·6	6·4	9·0	3·3	79	55·0	37·0	47·9	0·006	0·0	7·9
14	30·050	42·9	30·5	12·4	38·1	- 2·6	36·4	33·8	4·3	9·4	0·0	84	53·4	22·7	47·4	0·000	2·6	7·9
15	29·851	51·8	42·0	9·8	46·7	+ 5·9	44·9	42·7	4·0	8·0	1·6	86	65·8	37·0	47·5	0·030	1·0	7·9
16	29·519	54·5	49·0	5·5	51·3	+10·6	49·5	47·6	3·7	7·8	1·6	87	65·2	46·0	47·8	0·063	0·5	7·9
17	29·034	51·5	47·3	4·2	50·0	+ 9·6	47·3	44·3	5·7	10·1	3·6	81	55·8	43·5	47·4	0·020	0·0	7·8
18	28·718	50·9	47·6	3·3	49·1	+ 9·1	46·5	43·6	5·5	7·1	2·4	81	57·0	44·1	47·7	0·033	0·0	7·8
19	28·715	51·5	35·0	16·5	46·3	+ 6·8	44·8	43·0	3·3	3·6	0·6	88	68·3	28·0	47·8	0·410	0·5	7·8
20	29·341	47·8	32·6	15·2	39·0	0·0	38·2	37·0	2·0	5·0	0·0	93	55·7	25·1	47·8	0·000	2·7	7·8
21	29·303	43·5	38·0	5·5	40·5	+ 1·8	39·4	37·9	2·6	4·6	1·5	90	56·5	29·0	47·7	0·002	0·4	7·8
22	29·127	44·1	38·1	6·0	41·8	+ 3·4	41·0	40·0	1·8	3·1	0·0	93	49·2	31·8	47·6	0·058	0·0	7·8
23	29·024	48·5	37·0	11·5	44·3	+ 6·1	43·7	43·0	1·3	2·9	0·0	95	66·7	27·8	47·4	0·070	2·8	7·8
24	28·824	48·8	44·0	4·8	46·2	+ 8·0	44·7	42·9	3·3	5·0	2·0	88	53·0	30·5	47·6	0·518	0·0	7·8
25	29·149	50·0	41·7	8·3	45·8	+ 7·4	44·0	41·7	4·1	6·6	1·3	86	70·3	34·2	47·5	0·061	0·7	7·8
26	29·570	48·2	39·9	8·3	44·7	+ 6·1	43·6	42·3	2·4	4·6	0·0	91	58·3	32·4	47·4	0·163	1·4	7·8
27	29·595	52·6	44·0	8·6	48·9	+10·1	46·8	44·5	4·4	8·3	0·8	84	60·8	40·0	47·3	0·015	0·1	7·9
28	29·327	44·0	34·7	9·3	39·6	+ 0·7	38·9	37·9	1·7	2·9	0·0	93	47·0	33·5	47·4	0·827	0·0	7·9
29	29·491	43·0	38·0	5·0	40·8	+ 1·8	39·3	37·3	3·5	7·1	0·7	87	46·6	33·0	47·0	0·250	0·8	7·9
30	29·890	38·5	26·4	12·1	34·7	- 4·2	34·2	33·3	1·4	2·6	0·0	95	40·0	21·0	47·0	0·000	0·0	7·9
31	30·023	36·2	27·0	9·2	31·5	- 7·2	31·2	30·9	0·6	1·4	0·0	97	38·4	21·6	47·0	0·003*	0·0	7·9
Means	29·624	46·1	36·0	10·1	41·6	+ 1·7	40·0	37·7	3·9	7·1	1·1	86·0	54·5	29·8	48·2	2·861	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.

The mean reading of the *Barometer* for the month was 29·624 in., being 0·168 in. lower than the average for the 65 years, 1841-1905.

* Hoar frost

TEMPERATURE OF THE AIR

The highest in the month was 54°·5 on December 16; the lowest in the month was 22°·0 on December 10; and the range was 32°·5.

The mean of all the highest daily readings in the month was 46°·1, being 1°·9 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 36°·0, being 0°·5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 10°·1, being 1°·4 greater than the average for the 65 years, 1841-1905.

The mean for the month was 41°·6, being 1°·7 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

MONTH and DAY 1945	RECORD OF THE NIGHT SKY: POLARIS Duration	POLARIS Fraction of Total Exposure	δ URSÆ MINROIS Duration	δ URSÆ MINROIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 hourly Measures	Robinson's Horizontal movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hrs.		hrs.				lbs.	lbs.	miles				
Dec. 1	2·8	0·21	1·8	0·13	SE:Calm	S:SSE	1·4	0·13	189	c m	c m c *Acu*	c *Acu Cicu* bc	bc c d_o d
2	10·4	0·76	9·8	0·71	SSW:WSW	SW	4·0	0·43	335	c d d_o	c *Nbst* d r r	r c *Ci Cist* b	b
3	13·7	1·00	13·7	1·00	SW:WSW	WNW:W:WSW	3·7	0·28	308	b c	c *Ci Acu* b	b c *Frcu* b	b
4	1·7	0·12	1·1	0·08	SW:S	S:WSW	3·7	0·26	265	b x	bc c *Ast* f	c *Ast* r_o r r	d d c
5	12·1	0·88	11·2	0·82	WNW:NW	NW	5·7	0·94	431	c b	bc b *Frcu*	b *Acu*	bc b
6	8·9	0·64	6·3	0·46	NW:NNW	NNW:Calm	3·5	0·42	275	b	bc *Ci Cist*	bc *Ci* c	c b
7	1·5	0·11	0·5	0·04	Calm	Calm:SE	0·1	0·00	109	b x f	c *so-ha* c *Acu* f	c *Acu Cicu* f f	c f c
8	1·3	0·10	1·0	0·07	ESE	ENE:NE	3·6	0·30	278	c x	c bc *Acu* y	c *Acu* 1 s_o	c
9	9·5	0·69	1·8	0·13	ENE:NNE:N	NNE:N:Calm	2·2	0·10	162	c b x m	b *Ci* m x	b m x	b m f c f
10	2·3	0·17	0·0	0·00	Calm	Calm	0·1	0·00	111	c b c x f	c o *St* d_o f f	o *St* r_o g f f	o c f f
11	6·8	0·49	6·5	0·47	WSW	NW:NNW	1·1	0·07	185	c b x o f fe	o *St* b f f	b c *Acu* f f	f c
12	2·2	0·16	0·4	0·03	NNW:WSW	WSW	0·6	0·08	207	c b x	b x c *Stcu* f f	c *Stcu* b f m	c m_o
13	5·7	0·42	3·9	0·28	WSW:W	WNW:NNW	4·6	0·69	376	c m_o	c *Stcu* m_o	c *Cist Ast* m_o	c 1 r_o
14	0·0	0·00	0·0	0·00	NNW:Calm	Calm:SSW	0·3	0·03	119	c b x c	c b *Ci* f f	b bc *Cist Acu* f f	c x f
15	0·0	0·00	0·0	0·00	SSW:SW	SW:SSW	3·0	0·36	290	c w m	c *Acu Cicu*	bc *Cicu Frcu* c 1 r	c 1 r
16	1·7	0·12	0·0	0·00	SSW:SW	SW:SSW	5·0	0·79	404	c 1 r	c bc *Frcu*	c *Frcu* p_o c	c
17	8·3	0·59	4·4	0·31	SSW:S	SSW:S	8·4	1·81	517	c bc	c *Acu Ast*	c *Nbst* 1 d q	c bc
18	1·0	0·07	0·3	0·02	SSW:S	S:SSE	9·6	1·93	515	bc c	c q r 1 d	c *Nbst* 1 d	c 1 d
19	14·0	1·00	9·7	0·69	S:SSW	SW:WNW	5·6	0·43	285	d c r R	R c 1 r	c *Nbst* r c b	b
20	8·4	0·60	8·2	0·58	SSW	SSW:SSW:SE	0·3	0·03	184	b x f	b c *Cist Acu* f	bc *Cist Acu* b	b w
21	0·2	0·01	0·0	0·00	ESE	E	3·9	0·30	232	b c w	c *Ast Frst* m	c *Cicu Ast* m_o	c m_o
22	2·6	0·18	2·2	0·16	E:Calm	SE:SSE	5·5	0·24	186	c r_o c d_o	c *St* f	c *Nbst* 1 r_o bc	c r 1 d
23	5·7	0·41	3·6	0·26	SSE:Calm:SSW	SSW:S	3·2	0·23	239	c r bc	bc f b m_o	b *Ci* c 1 d_o	b c
24	11·4	0·82	10·9	0·78	S:SSW	SSW	9·0	1·38	470	c 1 r	c q r c *Acu Frcu*	c q r c *Nbst*	b
25	8·6	0·61	7·1	0·51	SSW	SW:WSW	5·5	0·41	335	b	c 1 r c *Stcu*	c *Stcu*	c d b bc
26	0·0	0·00	0·0	0·00	WSW:SW	SSW:S	3·2	0·13	224	bc c m	c *Acu* m f	c *Ast* f m c	c r r
27	1·2	0·09	0·3	0·03	SW:WSW	WSW:SW:SSW	3·6	0·34	299	r_o c	c *Cicu Acu*	c *Acu*	bc c d_o
28	2·4	0·17	0·7	0·05	NE:N:NW	WSW:S:SE	7·0	0·62	333	r r	r s r m_o	r c *Acu Ci* m	c r
29	12·6	0·92	9·4	0·68	NE:N:NW	WNW:W	3·4	0·38	302	r r m	r c b *Ci* m	c *Frcu*	c b
30	2·7	0·20	0·5	0·03	WSW	Calm	0·2	0·01	126	b x f	b f f	b f f	b Fe Fe
31	11·2	0·82	8·6	0·63	Calm	Calm:E	0·3	0·01	99	Fe Fe x	Fe Fe x	Fe Fe x	Fe b x
Means	5·5	0·40	4·0	0·29	..	..	..	0·42	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°·0, being 1°·5 higher than

The mean *Temperature of the Dew Point* for the month was 37°·7, being 1°·3 higher than

The mean *Degree of Humidity* for the month was 86·0, being 1·5 less than

The mean *Elastic Force of Vapour* for the month was 0·227 in., being 0·011 in. greater than

} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0·110. The maximum daily amount of *Sunshine* was 3·5 hours on December 3.

The highest reading of the *Solar Radiation Thermometer* was 70°·3 on December 25; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°·3 on December 10.

The *Proportions of Wind* referred to the cardinal points were N.10, E.9, S.36, W.27, calm or nearly calm conditions 18, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 9·6 lbs. on the square foot on December 18. The mean daily *Horizontal Movement of the Air* for the month was 271 miles; the greatest daily value was 517 miles on December 17, and the least daily value was 99 miles on December 31.

Rain (0·005 in. or over) fell on 17 days in the month, amounting to 2·861 in., as measured by gauge No. 6 partly sunk below the ground; being 1·034 in. greater than the average fall for the 65 years, 1841-1905.

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

MAXIMA		MINIMA		MAXIMA		MINIMA		MAXIMA		MINIMA	
U.T., 1945	Reading	U.T., 1945	Reading	U.T., 1945	Reading	U.T., 1945	Reading	U.T., 1945	Reading	U.T., 1945	Reading
January		January		April		April		August		August	
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
1. 20. 0.	30·487	3. 22. 20.	29·448	23. 23. 0	29·997	27. 4. 25	29·503	8. 23. 25	29·726	10. 5. 20	29·522
6. 10. 40	29·925	9. 5. 0	29·383	27. 21. 0	29·596	29. 1. 10	29·467	12. 22. 0	29·791	15. 4. 35	29·632
10. 10. 20	29·668	11. 0. 20	29·549	30. 22. 30	29·890			16. 9. 30	29·811	22. 16. 30	29·309
14. 9. 20	30·265	17. 4. 40	29·562					23. 20. 30	29·769	24. 16. 50	29·655
17. 10. 45	29·651	19. 0. 5	28·509					26. 8. 25	30·010	29. 16. 30	29·676
19. 21. 40	29·463	20. 11. 50	29·296			May					
22. 11. 20	29·828	23. 14. 0	29·393	May				September		September	
26. 12. 10	29·740	27. 3. 15	29·622			4. 1. 0	29·462				
29. 7. 15	30·290	30. 13. 15	29·535	4. 20. 30	29·553	5. 16. 45	29·419	2. 20. 5	29·999	4. 17. 0	29·919
30. 23. 0	29·618			7. 7. 30	29·845	9. 1. 5	29·626	6. 21. 25	30·127	9. 4. 0	29·841
				10. 4. 20	29·872	13. 9. 55	29·632	12. 1. 0	30·070	14. 18. 30	29·526
				15. 9. 0	29·960	22. 17. 30	29·423	16. 21. 55	29·846	19. 4. 35	29·368
		February		24. 12. 45	29·875	27. 3. 5	29·361	21. 8. 55	29·943	22. 6. 50	29·587
February				31. 7. 45	29·800			22. 23. 0	29·761	24. 3. 45	29·495
		1. 3. 35	29·275					26. 10. 15	30·130	28. 4. 40	29·965
1. 14. 35	29·587	2. 10. 20	29·171								
3. 18. 40	30·057	4. 6. 30	29·647					October		October	
4. 21. 20	29·896	5. 6. 0	29·755			June					
6. 3. 50	29·995	7. 8. 20	29·532	June				2. 9. 0	30·487	4. 16. 45	30·114
7. 23. 20	29·842	8. 19. 0	29·341			1. 3. 0	29·692	5. 19. 45	30·329	10. 4. 0	29·684
9. 13. 50	29·746	10. 4. 20	29·244	2. 23. 35	29·840	4. 0. 45	29·532	13. 10. 0	30·280	21. 23. 15	29·506
11. 2. 45	29·457	11. 15. 0	29·051	4. 22. 30	29·825	7. 5. 35	29·593	22. 20. 45	29·671	23. 8. 25	29·413
15. 0. 35	30·123	16. 4. 40	29·996	9. 21. 25	30·103	12. 12. 30	29·768	23. 18. 50	29·561	24. 8. 0	29·101
19. 1. 20	30·392	20. 3. 45	30·291	13. 10. 25	30·173	15. 16. 20	29·799	25. 3. 10	29·301	26. 4. 10	28·815
21. 0. 50	30·546	23. 14. 0	30·225	17. 12. 35	30·167	20. 6. 30	29·580	27. 12. 0	29·427	28. 21. 45	29·071
24. 8. 20	30·425	25. 22. 5	30·065	25. 7. 0	30·185	29. 0. 20	29·552	31. 10. 0	29·882		
27. 23. 20	30·437			30. 9. 40	29·722					November	
								November			
										2. 2. 50	29·668
		March						6. 22. 55	30·236	9. 6. 15	29·733
March				July		July		10. 22. 0	29·846	12. 6. 10	29·719
		1. 10. 10	30·118					15. 20. 40	30·018	17. 6. 25	29·870
3. 9. 0	30·603	5. 20. 0	30·211	3. 9. 45	29·875	1. 15. 45	29·443	18. 9. 35	29·976	19. 14. 45	29·851
9. 11. 50	30·604	16. 4. 20	29·988	8. 7. 5	29·952	6. 17. 0	29·611	22. 10. 10	30·004	24. 1. 0	29·758
17. 22. 50	30·242	19. 21. 40	29·806	13. 0. 10	29·954	10. 9. 15	29·563	25. 16. 45	30·080	26. 11. 20	29·947
21. 10. 10	30·186	25. 0. 40	29·584	14. 9. 0	29·852	14. 3. 15	29·725	27. 10. 10	30·149		
27. 10. 30	30·026	29. 20. 50	29·677	15. 0. 34	29·826	14. 21. 20	29·715			December	
30. 23. 40	29·906			17. 6. 0	30·132	15. 12. 45	29·493	December			
				21. 10. 15	29·946	19. 3. 10	29·596			2. 9. 35	29·511
		April		23. 8. 0	30·108	22. 2. 0	29·783	4. 2. 40	30·037	4. 23. 0	29·540
April				29. 10. 0	30·075	27. 2. 30	29·596	8. 9. 40	30·340	10. 15. 35	30·122
		2. 4. 5	29·335			31. 18. 0	29·930	12. 10. 0	30·282	13. 14. 12	29·862
4. 12. 0	29·876	5. 5. 15	29·743					14. 10. 40	30·099	19. 3. 45	28·509
8. 9. 0	30·457	11. 17. 55	29·551	August		August		20. 18. 30	29·438	23. 0. 0	28·920
15. 9. 30	30·088	16. 16. 30	29·941					23. 14. 15	29·102	24. 12. 0	28·765
19. 10. 0	30·275	21. 3. 0	29·699	3. 7. 0	30·102	5. 21. 0	29·610	26. 11. 45	29·644	26. 23. 45	29·455
								27. 18. 5	29·701	28. 9. 0	29·012
								28. 18. 20	29·476	29. 3. 10	29·271

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

The time is Universal Time.

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

TABLE XVIII(B). - HIGHEST AND LOWEST READINGS OF THE BAROMETER IN EACH MONTH FOR THE YEAR 1945.

	January	February	March	April	May	June	July	August	September	October	November	December
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Highest	30·487	30·546	30·604	30·457	29·960	30·185	30·132	30·102	30·130	30·487	30·236	30·340
Lowest	28·509	29·051	29·584	29·335	29·361	29·532	29·443	29·309	29·368	28·815	29·668	28·509
Range	1·978	1·495	1·020	1·122	0·599	0·653	0·689	0·793	0·762	1·672	0·568	1·831

The highest reading in the year was 30·604 in. on March 9. The lowest reading in the year was 28·509 in. on { Jan. 19. / Dec. 19. } The range of reading in the year was 2·095 in.

TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1945

MONTH 1945	Mean Reading of the Barometer	Temperature of the Air: Highest	Lowest	Range in the Month	Mean of all the Highest	Mean of all the Lowest	Mean of the Daily Ranges	Monthly Mean	Excess of Mean above the Average of 65 Years	Mean Temperature of Evaporation	Mean Temperature of the Dew Point	Mean Degree of Humidity (Saturation = 100)
	in.	°	°	°	°	°	°	°	°	°	°	
January ...	29·749	49·0	15·1	33·9	37·0	28·7	8·3	33·5	- 5·1	32·2	30·1	86·8
February ..	29·959	61·7	29·7	32·0	51·8	39·3	12·5	45·8	+ 6·3	43·6	40·8	82·6
March	30·142	70·8	30·8	40·0	56·0	39·1	16·9	47·1	+ 5·2	43·3	38·3	71·8
April	29·890	80·3	32·2	48·1	61·2	42·5	18·7	51·5	+ 4·3	46·8	41·3	68·4
May	29·682	86·0	32·7	53·3	66·8	46·7	20·1	56·2	+ 3·1	51·6	47·0	71·7
June	29·868	80·1	44·4	35·7	69·5	51·6	17·9	60·3	+ 0·8	55·1	50·5	70·7
July	29·824	86·0	48·4	37·6	74·2	55·1	19·1	64·0	+ 1·4	58·5	54·1	70·5
August	29·732	87·8	47·1	40·7	70·7	54·1	16·5	61·7	+ 0·1	57·4	53·8	75·7
September .	29·888	76·9	40·7	36·2	66·1	53·1	13·0	59·0	+ 1·8	55·6	52·6	79·4
October ...	29·888	74·3	38·7	35·6	62·2	46·6	15·6	53·9	+ 4·0	51·2	48·6	82·1
November ..	29·897	62·6	32·0	30·6	50·3	41·5	8·8	45·9	+ 2·4	44·2	42·0	86·3
December ..	29·624	54·5	22·0	32·5	46·1	36·0	10·1	41·6	+ 1·7	40·0	37·7	86·0
		Highest	Lowest	Annual Range								
Means	29·845	87·8	15·1	72·7	59·3	44·5	14·8	51·7	+ 2·2	48·3	44·7	77·7

MONTH 1945	Mean Elastic Force of Vapour	Mean Temperature of the Earth 4 feet below the surface of the Soil	Mean Amount of Cloud (0-10)	RAIN: Number of Rainy Days (0·005 in. or over)	RAIN: Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	WIND: From Osler's Anemometer: Number of Hours of Prevalence of each Wind referred to different points of Azimuth: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Number of Calm or nearly Calm Hours	Mean Daily Pressure on the Square Foot	From Robinson's Anemometer: Mean Daily Horizontal Movement of the Air
	in.	°			in.	h.	h.	h.	h.	h.	h..	h.	h.		lbs.	miles
January .	0·166	42·6	7·9	17	1·824	140	134	31	8	2	100	136	97	96	0·38	315*
February	0·256	43·1	7·4	14	1·470	20	4	0	1	11	208	270	32	126	0·57	301
March ...	0·232	44·8	5·9	9	1·194	105	67	0	4	19	118	177	50	204	0·26	219
April ...	0·261	48·1	6·0	12	0·933	51	29	111	34	32	86	70	115	192	0·29	228
May	0·324	51·0	6·9	13	1·871	41	26	59	28	48	264	85	34	159	0·25	229
June	0·370	54·6	7·0	18	1·729	15	18	17	11	89	302	110	55	103	0·32	260
July	0·422	57·6	6·9	13	2·922	64	46	56	25	48	179	135	67	124	0·31	242
August ..	0·417	58·7	6·8	12	1·264	123	61	27	10	37	132	75	64	215	0·20	210
September	0·399	58·5	7·8	18	1·417	96	67	57	16	74	198	46	65	101	0·35	250
October .	0·344	55·8	5·8	12	1·763	17	48	53	26	105	190	38	8	259	0·43	220
November	0·268	52·5	8·1	8	0·156	140	74	78	34	9	68	28	21	268	0·15	181
December	0·227	48·2	7·5	17	2·861	34	22	37	41	143	198	72	62	135	0·42	271
Sums	..	..	..	163	19·404	846	596	526	238	617	2043	1242	670	1982	..	..
Means ...	0·307	51·3	7·0	..	..	..	..	..	..	..	..	..	..	..	0·33	244

The greatest recorded pressure of the wind on the square foot in the year was 27·0 lbs. on February 2.

The greatest recorded daily horizontal movement of the air in the year was 779 miles on October 26.

The least recorded daily horizontal movement of the air in the year was 26 miles on November 21.

* Mean of 24 days.

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
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
0^h	29·763	29·957	30·157	29·890	29·691	29·876	29·825	29·742	29·886	29·903	29·905	29·625	29·852
1	29·757	29·953	30·154	29·882	29·688	29·873	29·822	29·737	29·884	29·899	29·900	29·618	29·847
2	29·759	29·945	30·150	29·876	29·685	29·869	29·815	29·734	29·879	29·892	29·897	29·617	29·843
3	29·759	29·937	30·144	29·873	29·681	29·864	29·810	29·728	29·875	29·888	29·893	29·613	29·839
4	29·755	29·933	30·142	29·871	29·680	29·866	29·810	29·726	29·870	29·887	29·889	29·610	29·837
5	29·750	29·933	30·144	29·873	29·684	29·868	29·816	29·728	29·868	29·886	29·888	29·606	29·837
6	29·748	29·935	30·148	29·882	29·688	29·872	29·819	29·732	29·875	29·887	29·889	29·604	29·840
7	29·751	29·943	30·153	29·891	29·691	29·877	29·825	29·736	29·881	29·890	29·894	29·605	29·845
8	29·760	29·952	30·157	29·897	29·694	29·877	29·828	29·739	29·892	29·895	29·903	29·609	29·850
9	29·763	29·957	30·162	29·904	29·692	29·876	29·830	29·739	29·899	29·900	29·905	29·616	29·854
10	29·765	29·961	30·162	29·906	29·690	29·874	29·832	29·740	29·901	29·902	29·908	29·627	29·856
11	29·760	29·966	30·159	29·903	29·688	29·874	29·830	29·737	29·900	29·900	29·903	29·631	29·854
12	29·749	29·964	30·152	29·900	29·683	29·871	29·830	29·735	29·897	29·889	29·895	29·627	29·849
13	29·737	29·961	30·142	29·896	29·681	29·868	29·830	29·733	29·891	29·882	29·888	29·624	29·844
14	29·731	29·956	30·132	29·889	29·675	29·865	29·826	29·727	29·887	29·876	29·884	29·621	29·839
15	29·734	29·955	30·123	29·884	29·669	29·860	29·821	29·724	29·883	29·870	29·884	29·624	29·836
16	29·736	29·956	30·118	29·880	29·668	29·855	29·817	29·719	29·881	29·870	29·887	29·630	29·835
17	29·739	29·961	30·119	29·880	29·666	29·852	29·814	29·716	29·882	29·876	29·892	29·634	29·836
18	29·742	29·971	30·123	29·883	29·666	29·853	29·816	29·716	29·887	29·883	29·896	29·638	29·839
19	29·744	29·978	30·128	29·890	29·671	29·857	29·820	29·722	29·894	29·886	29·900	29·641	29·844
20	29·745	29·983	30·132	29·899	29·678	29·862	29·825	29·731	29·899	29·891	29·903	29·642	29·849
21	29·745	29·985	30·136	29·902	29·685	29·870	29·834	29·737	29·902	29·893	29·906	29·644	29·853
22	29·742	29·991	30·138	29·902	29·687	29·873	29·838	29·740	29·903	29·889	29·906	29·642	29·854
23	29·738	29·990	30·138	29·900	29·687	29·874	29·837	29·741	29·904	29·886	29·905	29·639	29·853
24	29·731	29·989	30·137	29·897	29·686	29·871	29·838	29·740	29·902	29·883	29·903	29·634	29·851
Means 0^h-23^h	29·749	29·959	30·142	29·890	29·682	29·868	29·824	29·732	29·888	29·888	29·897	29·624	29·845
Means 1^h-24^h	29·748	29·961	30·141	29·890	29·682	29·868	29·824	29·732	29·889	29·887	29·897	29·625	29·845
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	32·2	43·7	43·2	46·6	50·4	55·2	58·9	57·5	56·2	50·8	44·4	40·9	48·3
1	32·1	43·5	42·6	46·0	49·9	54·3	58·1	56·8	55·9	50·6	44·3	40·7	47·9
2	31·9	43·4	42·1	45·3	49·3	53·8	57·3	56·3	55·6	50·2	44·1	40·6	47·5
3	31·6	43·1	41·7	44·8	48·7	53·1	56·6	55·7	55·2	50·0	43·9	40·6	47·1
4	31·7	42·8	41·1	44·3	48·4	52·7	56·1	55·4	54·8	49·5	43·7	40·5	46·7
5	31·9	43·1	41·0	44·4	48·9	53·0	56·5	55·5	55·0	49·6	44·1	40·0	46·9
6	32·1	43·3	41·2	45·0	50·5	55·4	58·4	56·1	55·2	49·7	44·4	40·0	47·6
7	32·3	43·3	41·9	47·3	53·0	58·1	60·7	57·8	56·1	50·2	44·5	39·8	48·7
8	32·7	43·6	43·8	50·5	55·8	60·6	63·2	60·1	57·8	52·0	44·8	39·9	50·4
9	33·1	44·9	46·5	53·7	58·7	62·6	65·6	62·5	59·6	54·3	45·8	40·3	52·3
10	33·9	46·5	49·0	56·0	60·4	64·0	67·1	64·3	61·0	56·4	46·9	41·4	53·9
11	34·7	48·0	51·2	57·6	61·8	64·7	68·6	66·1	62·3	58·2	47·9	42·7	55·3
12	35·4	49·3	52·7	58·7	63·1	65·0	70·1	67·2	63·7	59·7	49·0	43·7	56·5
13	35·8	50·1	53·9	59·1	63·9	66·0	70·7	67·7	64·4	60·4	49·8	44·6	57·2
14	36·0	50·5	54·6	59·6	64·0	66·8	71·8	68·5	64·2	60·8	49·5	44·7	57·6
15	35·6	50·5	54·6	59·2	63·5	67·1	71·8	68·3	64·0	60·3	48·8	44·1	57·3
16	35·2	49·6	54·2	58·4	62·9	67·1	71·2	68·2	63·3	59·0	48·0	43·3	56·7
17	34·7	48·4	53·0	56·9	61·7	65·9	70·1	67·7	62·1	57·1	47·1	42·6	55·6
18	34·2	47·2	50·8	55·3	60·4	64·8	68·8	66·2	60·6	55·2	46·4	42·1	54·3
19	33·9	46·3	48·8	53·0	58·2	62·8	66·5	64·0	59·2	53·8	45·7	41·9	52·8
20	33·6	45·7	47·2	51·1	55·8	60·8	64·4	61·9	58·3	52·8	45·2	41·8	51·5
21	33·3	45·0	45·8	49·3	54·1	58·9	62·5	60·4	57·6	51·9	44·8	41·3	50·4
22	32·7	44·5	44·9	47·9	52·8	57·5	61·2	59·1	57·0	51·3	44·4	41·0	49·5
23	32·7	44·0	44·1	46·9	51·9	56·2	59·9	58·2	56·5	51·0	44·2	40·7	48·9
24	32·8	43·5	43·5	46·0	51·0	55·2	59·1	57·3	56·1	50·7	44·1	40·6	48·3
Means 0^h-23^h	33·5	45·8	47·1	51·5	56·2	60·3	64·0	61·7	59·0	53·9	45·9	41·6	51·7
Means 1^h-24^h	33·5	45·8	47·1	51·5	56·2	60·3	64·0	61·7	59·0	53·9	45·9	41·6	51·7
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	31·2	42·6	41·3	44·5	48·5	53·0	56·2	55·4	54·0	49·3	43·3	39·9	46·6
1	31·2	42·5	40·8	44·0	48·1	52·5	55·7	54·9	53·8	49·3	43·2	39·8	46·3
2	31·1	42·3	40·5	43·7	47·7	52·1	55·3	54·5	53·8	49·1	43·0	39·5	46·1
3	30·9	42·3	40·1	43·4	47·3	51·6	54·9	54·2	53·7	48·9	43·0	39·4	45·8
4	30·9	42·0	39·8	43·2	47·2	51·3	54·6	54·0	53·5	48·7	43·0	39·2	45·6
5	30·9	41·9	39·6	43·0	47·4	51·3	54·7	53·8	53·3	48·5	43·2	38·8	45·5
6	31·1	42·0	39·5	43·2	48·5	52·8	55·8	54·3	53·4	48·5	43·3	38·6	45·9
7	31·2	41·8	39·8	44·6	49·9	54·3	57·1	55·4	54·0	48·8	43·2	38·5	46·5
8	31·5	41·9	41·2	46·5	51·5	55·2	58·3	56·7	55·2	50·3	43·4	38·5	47·5
9	31·9	43·1	43·2	48·2	52·9	55·9	59·3	57·9	56·2	52·1	44·2	38·8	48·6
10	32·5	44·1	44·7	49·4	53·9	56·5	59·9	58·8	56·8	53·3	45·0	39·6	49·5
11	33·2	45·0	45·9	49·9	54·4	56·8	60·3	59·4	57·2	54·1	45·6	40·5	50·2
12	33·6	45·6	46·7	50·3	55·2	57·0	61·1	59·6	57·8	54·7	46·3	41·1	50·7
13	34·1	46·1	47·1	50·3	55·5	57·4	61·4	60·0	58·3	54·9	46·7	41·9	51·1
14	34·1	46·2	47·3	50·6	55·5	58·0	61·8	60·4	58·1	55·1	46·5	42·1	51·3
15	33·8	46·1	47·1	50·3	55·3	58·2	61·9	60·3	58·0	54·6	46·0	41·8	51·1
16	33·6	45·6	46·9	50·0	55·2	58·3	61·5	60·3	57·7	53·8	45·5	41·1	50·8
17	33·1	45·0	46·4	49·4	54·8	57·8	61·3	60·3	57·2	52·8	44·8	40·6	50·3
18	32·7	44·4	45·6	48·9	54·0	57·3	60·8	59·9	56·6	51·8	44·4	40·4	49·7
19	32·5	43·8	44·7	47·9	53·0	56·3	59·8	59·0	55·9	51·0	44·1	40·3	49·0
20	32·3	43·7	43·9	47·1	52·0	56·0	59·2	58·0	55·5	50·5	43·7	40·3	48·5
21	32·2	43·3	43·3	46·2	51·1	55·2	58·2	57·4	55·1	50·1	43·5	40·0	48·0
22	31·8	42·9	42·7	45·3	50·3	54·4	57·4	56·7	54·7	49·6	43·2	39·8	47·4
23	31·7	42·7	42·1	44·5	49·7	53·6	56·8	56·0	54·3	49·4	43·0	39·7	47·0
24	31·8	42·4	41·5	43·9	49·1	53·0	56·4	55·2	53·9	49·3	42·9	39·7	46·6
Means 0^h-23^h	32·2	43·6	43·3	46·8	51·6	55·1	58·5	57·4	55·6	51·2	44·2	40·0	48·3
Means 1^h-24^h	32·2	43·6	43·3	46·8	51·6	55·1	58·5	57·4	55·6	51·2	44·2	40·0	48·3
No. of Days Employed.	31	28	31	30	31	30	31	31	30	31	30	31	

TABLE XXIII. - MONTHLY MEAN TEMPERATURE 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	29·5	41·2	38·6	42·0	46·5	51·0	54·0	53·7	52·2	47·8	42·0	38·6	44·8
1	29·7	41·2	38·3	41·5	46·1	50·8	53·7	53·4	52·0	48·0	41·9	38·6	44·6
2	29·8	40·9	38·3	41·6	45·9	50·5	53·6	53·0	52·2	48·0	41·7	38·0	44·5
3	29·8	41·2	37·9	41·6	45·7	50·1	53·5	52·9	52·4	47·8	41·9	37·9	44·4
4	29·7	40·9	38·1	41·9	45·9	49·9	53·3	52·8	52·4	47·9	42·1	37·4	44·4
5	29·1	40·3	37·7	41·2	45·7	49·7	53·2	52·3	51·7	47·4	42·1	37·1	44·0
6	29·3	40·3	37·1	40·8	46·3	50·5	53·6	52·8	51·8	47·3	42·0	36·7	44·0
7	29·3	39·8	36·8	41·4	46·6	50·9	54·2	53·4	52·3	47·3	41·6	36·7	44·2
8	29·4	39·7	37·6	41·8	47·2	50·4	54·4	53·9	53·0	48·6	41·6	36·5	44·5
9	29·9	40·7	39·0	41·9	47·3	49·9	54·4	54·3	53·4	50·0	42·2	36·8	45·0
10	30·2	41·2	39·3	42·1	47·8	50·0	54·3	54·5	53·4	50·5	42·7	37·1	45·3
11	30·6	41·2	39·3	41·3	47·5	49·9	53·9	54·2	52·9	50·5	43·0	37·3	45·1
12	30·4	41·1	39·3	40·9	47·9	50·0	54·3	53·6	53·0	50·1	43·2	37·5	45·1
13	31·1	41·3	38·8	40·4	47·9	50·0	54·4	54·1	53·5	50·0	43·0	38·2	45·2
14	30·7	41·1	38·4	40·6	47·8	50·6	54·3	54·2	53·2	50·0	42·9	38·5	45·2
15	30·7	40·9	37·8	40·3	47·8	50·8	54·5	54·1	53·2	49·5	42·7	38·7	45·1
16	30·8	40·8	37·8	40·5	48·1	51·0	54·2	54·2	53·1	48·9	42·6	38·0	45·0
17	30·3	40·8	38·2	40·8	48·4	51·0	54·7	54·7	53·1	48·7	42·1	37·7	45·0
18	30·2	41·0	39·0	41·7	48·0	50·9	54·8	55·1	53·3	48·5	42·0	38·0	45·2
19	30·2	40·7	39·5	42·1	48·0	50·6	54·7	55·1	53·2	48·3	42·1	38·1	45·2
20	30·2	41·2	39·8	42·5	48·3	51·9	55·2	54·9	53·1	48·3	41·7	38·3	45·5
21	30·4	41·1	40·1	42·5	48·1	52·0	54·9	54·9	53·0	48·3	41·9	38·3	45·5
22	30·3	40·9	39·7	42·3	47·8	51·6	54·3	54·8	52·8	47·9	41·7	38·3	45·2
23	30·0	41·1	39·5	41·6	47·4	51·3	54·2	54·2	52·5	47·8	41·5	38·4	45·0
24	30·2	41·0	38·8	41·3	47·1	51·0	54·2	53·5	52·1	47·9	41·5	38·5	44·8
Means 0^h-23^h	30·1	40·9	38·6	41·5	47·3	50·6	54·2	54·0	52·8	48·6	42·2	37·8	44·9
Means 1^h-24^h	30·1	40·9	38·6	41·4	47·3	50·6	54·2	54·0	52·8	48·6	42·2	37·8	44·9

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

Hour Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
0^h	89	91	84	84	87	86	84	87	86	89	91	91	87
1	90	91	84	84	87	88	85	88	86	91	91	92	88
2	91	91	86	87	88	89	88	88	88	92	91	90	89
3	92	93	86	88	89	90	89	90	90	92	92	89	90
4	91	93	88	91	91	90	91	91	91	94	94	88	91
5	89	90	87	88	89	88	88	89	89	92	93	89	89
6	89	89	85	85	86	84	84	88	88	91	91	87	87
7	88	87	82	79	79	77	79	85	87	90	89	88	84
8	87	86	79	72	73	69	73	80	84	88	88	87	81
9	87	85	75	64	66	63	67	74	80	85	87	87	87
10	85	81	69	59	63	61	64	71	75	81	85	84	73
11	84	77	64	54	59	59	60	66	72	76	82	81	69
12	82	73	60	52	58	59	57	62	68	71	80	79	67
13	83	72	56	50	56	56	56	61	68	69	78	78	65
14	81	70	54	50	55	56	54	60	68	68	79	79	65
15	82	69	53	50	57	56	54	60	68	68	79	81	65
16	84	72	54	51	58	56	55	61	70	69	81	82	66
17	84	74	57	55	61	58	58	63	73	74	82	83	69
18	84	79	64	60	63	61	61	68	77	78	84	85	72
19	85	81	70	66	69	65	66	73	80	81	87	86	76
20	86	84	75	73	76	72	72	77	83	84	88	87	80
21	88	86	80	77	80	78	76	82	85	87	89	89	83
22	90	87	82	80	83	81	78	86	85	88	90	89	85
23	89	89	84	81	85	84	81	86	86	89	90	91	86
24	89	91	84	83	87	86	84	87	86	90	90	92	87
Means 0^h-23^h	87	83	73	70	73	72	72	77	80	83	87	86	79
Means 1^h-24^h	87	83	73	70	73	72	72	77	80	83	87	86	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

Month	Registered duration of Sunshine in the Hour ending:-																Total Registered Duration of Sunshine in each Month	Corresponding aggregate Period during which the Sun was above the Horizon	Proportion of Sunshine	Mean Altitude of the Sun at Noon
	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				
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		°
January ...	-	-	-	-	-	1·9	5·8	5·7	4·2	3·0	2·0	-	-	-	-	-	22·6	261·0	0·087	18
February ..	-	-	-	0·1	6·4	8·1	7·8	9·1	8·3	5·0	5·5	1·8	0·2	-	-	-	52·3	279·0	0·187	26
March	-	-	1·4	6·3	10·7	11·4	14·0	14·3	16·7	16·9	15·7	12·8	7·1	0·7	-	-	128·0	368·0	0·348	37
April	-	0·8	6·7	12·3	16·3	15·6	16·6	18·1	16·3	16·7	14·7	13·7	12·1	6·7	0·3	-	166·9	415·6	0·402	48
May	0·9	6·9	13·1	14·3	16·4	14·6	18·2	17·2	16·1	13·8	14·1	13·4	13·5	8·2	5·7	0·4	186·8	483·9	0·386	57
June	3·8	11·6	13·4	14·6	16·7	15·1	13·6	10·2	13·2	13·0	13·8	14·1	12·8	13·5	12·8	2·2	194·4	496·3	0·392	62
July	1·8	10·2	13·2	13·8	13·0	14·0	12·0	13·5	12·2	16·2	14·8	13·7	12·9	14·0	11·5	2·1	188·9	499·8	0·378	60
August	-	5·1	9·1	9·2	10·1	10·4	13·0	11·2	11·4	12·5	10·6	10·5	11·5	9·5	3·6	-	137·7	452·2	0·304	52
September .	-	-	0·9	2·7	3·7	5·3	6·0	7·5	9·6	8·1	5·6	5·5	5·2	1·3	-	-	61·4	380·1	0·162	41
October ...	-	-	-	2·7	8·1	12·0	14·4	15·3	16·2	16·4	15·4	11·8	1·7	-	-	-	114·0	331·6	0·344	30
November ..	-	-	-	-	2·1	5·7	5·1	5·9	5·1	2·9	3·3	1·3	0·2	-	-	-	31·6	267·3	0·118	20
December ..	-	-	-	-	0·2	2·6	5·6	7·5	6·5	4·2	0·3	-	-	-	-	-	26·9	245·6	0·110	16
For the year	6·5	34·6	57·8	76·0	103·7	116·7	132·1	135·5	135·8	128·7	115·8	98·6	77·2	53·9	33·9	4·7	1311·5	4480·4	0·293	..

The hours are reckoned from "Apparent" midnight.

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

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

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground		Wet-Bulb Thermometers 4ft above the Ground								Day of the Month	Dry-Bulb Thermometers 4ft above the Ground		Wet-Bulb Thermometers 4ft above the Ground							
	Maxi-mum	Mini-mum	9h	12h	15h	21h	9h	12h	15h	21h		Maxi-mum	Mini-mum	9h	12h	15h	21h	9h	12h	15h	21h
	January											March									
d	°	°	°	°	°	°	°	°	°	°	d	°	°	°	°	°	°	°	°	°	°
1	34·4	24·9	25·5	29·4	31·6	33·3	24·9	28·7	30·4	32·7	1	54·0	41·5	49·6	54·0	51·4	41·5	47·0	50·5	43·1	37·5
2	43·3	33·2	36·6	41·2	43·3	40·4	36·1	39·7	41·6	39·3	2	45·2	32·5	37·0	43·6	44·5	36·0	33·0	37·1	37·0	32·5
3	46·1	37·0	43·6	45·0	45·6	37·0	41·4	42·4	42·6	36·5	3	45·0	30·8	37·4	42·8	45·0	38·0	32·5	36·1	39·4	35·5
4	37·0	31·4	32·4	35·3	34·8	34·8	30·9	31·5	31·7	33·4	4	50·8	34·6	42·2	48·9	49·0	41·9	39·4	44·6	44·8	40·4
5	37·7	32·7	35·4	37·7	37·6	32·7	33·2	34·5	34·3	31·2	5	49·7	33·5	38·6	48·2	48·6	47·0	37·0	43·4	44·3	45·0
6	37·2	25·7	33·2	35·8	37·0	32·7	31·5	32·9	34·0	31·7	6	52·0	43·6	44·6	49·6	51·2	46·4	42·1	44·3	44·3	44·0
7	38·8	31·4	37·4	36·4	34·4	31·4	35·9	35·5	31·4	29·9	7	51·0	43·9	46·4	48·4	51·0	48·4	43·1	44·8	45·7	44·9
8	35·8	30·4	34·5	35·6	34·9	34·0	32·0	32·3	33·3	32·5	8	50·8	41·0	47·8	50·8	48·5	41·0	44·8	44·8	42·5	38·6
9	34·0	29·9	32·8	32·4	32·8	32·8	32·1	32·1	32·1	32·1	9	53·4	32·6	42·2	50·4	52·9	38·3	38·6	42·9	44·7	37·0
10	35·1	30·4	31·9	33·6	34·7	33·0	31·3	31·3	32·1	32·0	10	54·4	38·0	43·0	49·3	52·8	43·4	40·5	44·5	46·0	40·4
11	33·6	28·7	29·9	32·8	32·0	32·8	28·4	30·3	30·5	31·8	11	49·7	40·4	46·9	48·8	49·6	40·4	41·6	42·4	43·2	38·5
12	38·3	32·8	37·2	37·6	37·9	37·3	36·6	36·9	37·3	36·3	12	54·4	32·1	41·0	49·4	52·3	39·2	38·9	42·9	44·6	37·2
13	38·2	35·0	37·6	38·2	35·8	35·0	36·0	36·2	33·3	33·5	13	60·0	31·2	44·6	54·0	59·0	44·6	40·6	46·9	49·5	42·6
14	38·3	32·7	33·0	36·3	37·2	32·8	31·4	34·1	35·5	31·8	14	65·2	34·7	46·3	57·5	64·4	46·0	42·9	49·2	52·4	43·5
15	41·2	32·4	37·6	40·7	40·5	34·6	37·1	39·0	38·3	33·7	15	57·9	35·1	38·0	47·2	57·8	40·8	37·0	42·5	47·5	39·8
16	39·4	31·1	35·4	36·1	38·0	39·4	34·4	35·7	37·2	38·6	16	58·8	38·7	46·1	54·3	56·1	48·7	44·9	48·6	47·1	44·0
17	44·5	37·6	42·4	43·7	43·9	40·0	40·1	39·8	39·4	38·3	17	53·7	43·3	47·4	52·0	53·3	49·0	43·9	47·0	47·3	44·8
18	48·3	40·0	46·4	47·6	41·7	42·1	43·7	45·8	40·1	38·1	18	57·3	34·5	46·7	52·7	56·0	45·2	42·0	46·2	47·6	43·0
19	42·1	31·6	34·8	37·5	34·5	31·6	30·8	32·5	31·6	29·8	19	50·8	44·2	48·8	50·2	49·8	50·8	47·1	48·2	48·7	49·1
20	34·5	27·4	31·5	33·4	32·2	27·4	30·5	30·4	30·2	26·9	20	57·8	42·1	48·4	52·7	55·2	46·0	44·5	47·8	45·8	43·6
21	34·1	26·1	30·3	31·8	33·9	28·3	27·8	30·3	32·4	27·3	21	60·5	35·4	48·4	55·0	60·0	45·0	43·9	47·0	49·0	43·5
22	33·4	26·4	31·8	33·3	33·2	30·6	31·1	32·1	32·0	30·2	22	65·8	35·9	51·0	59·3	65·1	47·0	46·1	51·5	54·5	45·2
23	33·0	28·4	32·6	31·8	31·2	28·4	31·4	30·5	29·5	27·9	23	70·8	38·1	52·4	65·3	70·5	53·7	47·4	55·0	56·5	50·0
24	31·1	24·4	26·0	28·9	29·6	24·8	25·8	28·0	28·7	24·8	24	67·0	43·8	58·4	66·0	64·0	54·0	48·9	52·0	52·0	48·5
25	27·5	21·5	23·7	24·9	27·5	23·0	23·7	24·5	26·5	22·3	25	54·5	47·7	51·4	54·3	54·0	51·2	50·0	51·0	50·8	49·0
26	25·2	19·3	24·5	23·8	25·2	23·7	24·2	23·5	24·5	23·5	26	51·3	42·7	43·8	46·0	46·6	45·3	42·8	44·5	45·1	42·5
27	29·0	20·3	23·1	25·2	28·0	27·8	22·8	24·7	27·6	27·0	27	60·7	44·0	46·0	54·8	59·4	47·0	42·5	47·5	48·4	45·0
28	33·6	27·8	31·0	33·6	32·6	28·0	30·0	31·6	31·1	26·8	28	58·4	46·2	50·8	55·6	57·1	54·8	49·9	53·8	55·0	52·4
29	33·7	15·1	17·2	31·6	32·4	31·4	17·0	30·0	30·9	30·4	29	62·9	51·0	54·9	62·2	55·7	51·0	51·7	53·8	50·4	49·8
30	42·3	27·8	33·8	37·8	41·7	42·3	32·4	37·1	41·3	41·3	30	57·5	43·5	50·7	55·0	57·2	48·6	45·9	46·9	46·9	45·8
31	49·0	42·3	43·4	48·5	49·0	48·0	42·9	47·9	47·9	47·4	31	56·6	44·9	51·5	55·1	53·9	49·5	47·2	48·6	47·3	48·0
Means	37·1	29·5	33·1	35·4	35·6	33·3	31·9	33·6	33·8	32·2	Means	56·1	39·4	46·5	52·7	54·6	45·8	43·2	46·7	47·1	43·3
	February											April									
d	°	°	°	°	°	°	°	°	°	°	d	°	°	°	°	°	°	°	°	°	°
1	51·7	44·8	45·6	49·7	51·2	48·8	42·0	44·7	46·7	46·8	1	58·1	49·4	55·5	57·7	57·0	54·0	52·3	53·6	52·5	52·0
2	50·6	44·0	46·9	48·9	49·4	45·0	45·8	45·5	44·9	43·0	2	58·1	50·2	54·4	56·4	56·4	50·2	48·9	47·6	48·0	46·5
3	45·0	36·1	37·4	42·2	42·0	39·0	34·6	38·2	38·2	38·2	3	56·8	42·8	49·7	54·0	54·7	45·3	44·7	45·3	44·5	43·8
4	54·4	39·0	50·7	53·2	51·0	45·5	47·9	48·1	47·0	44·2	4	52·6	40·9	48·0	51·3	51·6	45·0	44·4	44·3	45·3	42·0
5	54·5	45·5	51·8	53·8	54·5	45·8	50·5	51·5	50·5	44·0	5	56·8	43·3	53·5	56·2	56·3	49·5	48·5	47·7	47·5	45·3
6	49·4	42·8	45·9	44·9	45·0	49·4	44·2	44·1	44·1	47·8	6	58·9	40·1	53·4	57·9	56·7	47·5	48·1	49·7	49·9	46·8
7	54·7	44·0	51·0	53·6	52·1	44·0	49·5	47·5	46·4	42·0	7	47·5	41·1	44·7	45·4	45·8	42·4	42·5	43·0	42·8	40·0
8	47·2	37·4	43·5	45·7	46·8	43·4	42·5	44·4	46·1	41·4	8	52·1	38·4	41·2	46·8	51·7	38·8	39·2	43·5	46·2	37·2
9	46·6	38·8	40·4	44·7	45·8	44·0	36·7	39·0	39·0	43·0	9	56·0	37·2	44·7	52·9	55·4	41·8	41·7	46·4	46·3	38·0
10	47·3	34·5	39·4	44·1	43·0	34·5	35·6	38·9	38·5	33·3	10	61·8	36·7	50·5	58·0	61·3	50·3	47·2	52·0	53·4	47·8
11	46·6	32·9	37·7	40·1	42·0	38·3	36·5	39·4	41·0	37·3	11	71·8	48·1	64·0	70·5	65·4	53·3	54·8	58·2	53·9	50·9
12	56·0	36·6	48·2	54·1	55·7	50·8	47·5	52·4	52·7	49·3	12	69·0	51·1	60·7	63·0	68·0	55·6	55·5	54·6	55·1	51·1
13	52·6	43·0	49·4	49·9	51·4	43·0	48·4	48·4	45·4	40·8	13	72·0	42·8	59·2	68·6	70·7	52·0	53·8	56·2	56·7	49·0
14	51·7	38·4	42·4	49·9	51·6	44·0	40·5	44·9	45·2	41·8	14	69·8	43·4	62·7	66·6	61·3	57·4	54·6	57·3	57·3	55·2
15	47·6	35·0	36·2	42·4	44·7	38·0	35·9	41·4	43·1	37·8	15	75·5	55·6	63·4	70·4	72·0	57·5	58·9	62·1	62·9	55·0
16	45·5	35·6	40·2	42·6	45·3	43·7	39·4	41·1	43·0	42·8	16	80·3	53·3	72·0	78·4	78·5	61·8	60·7	63·9	61·9	57·0
17	54·2	43·4	47·0	51·8	52·0	49·4	46·0	49·1	49·6	48·4	17	78·9	50·0	64·6	73·0	77·0	61·0	57·3	60·5	63·0	57·7
18	61·7	49·4	52·2	56·0	61·4	50·8	51·5	53·8	56·5	49·8	18	76·3	50·5	67·5	74·4	75·5	58·0	56·8	58·9	58·0	52·0
19	57·6	44·3	46·4	56·0	57·1	52·6	45·8	53·7	54·5	51·8	19	69·6	46·9	62·1	67·6	68·0	54·6	54·9	57·2	57·8	51·9
20	55·6	44·4	51·4	54·4	54·4	44·4	49·4	48·4	46·4	41·4	20	76·6	43·6	65·0	74·6	74·6	60·4	56·7	61·0	61·6	53·9
21	52·3	30·0	36·7	50·5	52·0	40·5	35·9	43·0	44·7	39·4	21	60·4	49·8	51·2	57·9	57·7	49·8	47·4	49·3	48·7	44·7
22	51·0	33·2	41·2	46·1	50·4	47·0	39·0	43·0	46·8	45·0	22	55·0	41·3	49·8	54·5	52·8	47·0	42·9	45·3	45·3	42·7
23	47·5	40·9	42·1	46·9	47·5	41·8	41·0	44·0	45·0	40·0	23	55·0	40·1	46·6	52·0	53·3	44·0	41·2	44·0	44·8	41·2
24	50·4	29·7	37·0	47·4	50·0	39·2	36·0	41·4	42·5	37·2	24	55·9	34·5	49·5	54·7	55·3	44·3	43·3	46·1	47·3	42·2
25	51·2	37·6	45·0	48·5	51·2	49·6	41·4	43·9	46·4	46·8	25	64·3	38·7	54·7	61·7	63·5	49·0	48·8	52·0	52·2	46·8
26	59·0	49·6	52·2	54·8	58·0	53·2	49·2	50·8	52·7	49·7	26	57·1	38·3	53·9	54·8	53·0	47·6	48·3	50·7	48·9	46·4
27	58·2	48·0	52·3	56·9	57·6	48·0	49·8	51·9	50·4	45·5	27	52·0	43·0	45·2	51·3	51·2	43·0	42·7	45·5	43·5	40·8
28	51·2	41·9	47·3	50·4	49·6	46·0	43·4	44·4	43·4	43·7	28	47·1	36·3	42·6	42·6	44·0	40·7	37·1	37·3	39·0	38·2
											29	49·4	33·0	43·7	46·4	45·0	38·2	38·9	39·9	38·5	34·0
											30	44·1	32·2	38·2	41·9	41·4	37·8	33·7	36·4	36·7	34·6
Means	51·8	40·0	44·9	49·3	50·5	45·0	43·1	45·6	46·1	43·3	Means	61·3	43·1	53·7	58·7	59·2	49·3	48·2	50·3	50·3	46·2

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

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

May

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground: Maximum	Minimum	9^h	12^h	15^h	21^h	Wet-Bulb Thermometers 4ft above the Ground: 9^h	12^h	15^h	21^h
d	°	°	°	°	°	°	°	°	°	°
1	53·0	32·6	41·7	50·0	48·1	42·2	38·3	42·3	40·6	37·7
2	52·9	33·7	46·8	47·6	50·0	42·6	40·0	39·7	41·1	38·6
3	51·0	37·6	43·4	47·3	44·1	38·0	40·9	41·7	42·4	37·5
4	54·7	35·6	44·2	50·1	54·3	46·0	40·7	43·1	45·3	43·0
5	56·7	39·1	43·8	49·0	52·2	54·0	42·8	47·7	51·2	53·0
6	65·9	54·0	60·8	63·7	63·0	55·6	54·8	57·5	57·0	54·2
7	74·4	52·7	62·3	69·8	71·3	59·5	57·6	60·5	63·3	55·2
8	78·0	55·5	72·1	75·2	77·4	62·0	63·7	65·9	67·6	59·5
9	75·1	58·0	72·5	74·6	68·0	58·8	61·9	63·3	60·0	54·8
10	71·0	47·5	59·5	68·0	69·1	57·9	55·3	57·7	59·1	53·4
11	79·6	50·6	65·6	76·1	76·5	66·4	59·9	69·1	68·1	62·4
12	86·0	55·4	77·1	83·6	85·7	67·8	66·7	67·9	70·2	63·1
13	78·9	56·2	76·6	74·5	68·5	56·2	64·1	63·3	58·5	49·0
14	67·0	48·7	60·2	60·7	64·5	55·2	53·0	54·5	55·9	52·4
15	71·2	50·9	60·2	64·6	69·7	56·5	52·7	53·8	56·6	54·0
16	76·1	53·2	64·2	68·1	74·9	63·7	58·2	61·0	63·4	59·2
17	78·2	53·9	64·9	75·1	77·6	64·0	58·3	61·6	61·6	58·0
18	71·8	54·3	62·2	72·0	69·3	54·3	57·9	62·7	61·5	51·3
19	57·0	49·3	53·6	54·0	56·7	52·0	51·1	51·6	53·0	49·4
20	62·0	48·9	61·0	60·8	56·0	53·0	57·5	59·8	54·0	51·4
21	68·9	46·6	64·0	64·8	63·0	52·2	56·5	56·0	55·0	51·6
22	67·2	47·5	58·5	64·2	66·9	54·4	52·2	54·6	55·6	52·2
23	64·8	49·4	50·6	62·0	62·4	50·5	49·6	55·2	54·8	48·6
24	57·0	44·7	48·2	51·1	55·0	45·3	43·1	45·1	47·7	43·9
25	70·6	39·1	58·3	66·4	67·2	56·0	53·8	56·8	57·7	53·2
26	57·5	49·2	54·3	56·6	54·1	51·4	51·8	51·6	51·1	49·4
27	64·2	46·1	55·1	57·6	59·6	49·2	50·1	50·3	51·0	46·8
28	60·2	39·2	57·7	58·3	56·7	52·4	50·7	52·3	52·7	51·4
29	65·0	48·3	58·2	61·9	63·9	52·8	51·2	52·9	52·0	48·8
30	67·1	43·7	59·7	64·2	61·5	52·6	52·3	53·7	52·5	49·5
31	66·3	50·7	61·6	65·6	61·6	54·5	53·9	57·6	55·3	52·7
Means	66·8	47·5	58·7	63·1	63·5	54·1	52·9	55·2	55·3	51·1

June

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

July

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground: Maximum	Minimum	9^h	12^h	15^h	21^h	Wet-Bulb Thermometers 4ft above the Ground: 9^h	12^h	15^h	21^h
d	°	°	°	°	°	°	°	°	°	°
1	67·8	51·1	60·0	63·4	62·0	54·4	53·9	54·1	55	52·0
2	63·0	51·7	56·8	62·5	60·0	56·3	51·6	55·3	54·0	54·3
3	72·6	49·1	60·1	65·9	69·0	61·0	54·1	56·9	59·5	55·5
4	66·7	52·2	62·8	64·2	64·5	61·4	58·8	59·8	60·4	59·4
5	79·0	59·8	64·6	73·6	76·0	69·0	61·7	66·2	65·5	63·0
6	80·8	57·4	72·7	79·6	78·4	66·4	62·7	65·7	65·9	60·2
7	77·9	57·3	66·7	70·5	77·0	64·5	58·7	59·2	62·0	56·5
8	78·4	49·5	67·2	73·7	76·5	61·7	57·1	60·2	62·5	56·0
9	78·4	54·3	73·6	73·6	78·2	62·5	63·6	63·4	65·2	61·0
10	62·5	58·2	61·9	60·3	60·0	60·0	61·2	59·3	59·1	58·0
11	72·0	53·6	56·6	60·2	69·0	60·2	54·9	57·2	60·6	56·9
12	79·7	54·5	72·3	73·8	76·5	64·0	63·8	64·2	65·0	59·6
13	79·8	57·9	75·0	79·3	79·0	67·4	65·2	65·3	65·3	62·4
14	84·7	61·5	68·2	79·1	78·0	68·2	63·2	68·3	70·0	67·0
15	86·0	62·3	74·7	80·0	81·5	63·8	67·9	71·5	69·3	59·8
16	68·3	57·3	63·3	67·6	66·0	58·8	55·3	58·1	57·2	54·8
17	75·6	48·4	68·3	70·5	75·3	61·0	57·8	60·5	61·1	57·0
18	82·2	55·5	71·6	81·2	75·4	67·2	63·1	63·8	63·9	61·7
19	76·0	60·7	69·9	74·6	74·6	63·6	61·2	62·9	63·2	58·4
20	70·0	58·2	64·6	69·7	66·0	60·5	59·6	60·7	59·3	57·7
21	76·4	58·9	66·7	72·5	75·0	65·0	63·2	66·3	67·5	62·0
22	72·0	57·2	64·6	67·8	70·0	63·0	56·7	58·7	59·8	58·2
23	80·1	55·5	69·2	75·2	79·9	65·6	61·0	64·0	66·3	59·8
24	77·8	53·6	65·6	73·4	75·0	65·0	59·4	61·6	62·4	59·6
25	74·0	56·7	65·1	70·6	72·6	66·5	60·1	61·9	62·9	61·0
26	66·5	58·0	64·9	63·0	62·5	58·0	59·6	57·0	58·5	54·2
27	67·6	52·3	57·6	62·2	64·9	58·6	54·7	54·7	55·1	53·3
28	70·7	51·6	62·7	67·6	70·3	59·3	53·3	55·7	58·3	54·0
29	73·9	50·5	62·3	70·6	72·0	61·6	57·6	61·0	62·0	57·6
30	71·1	56·2	61·6	61·7	69·9	61·7	59·6	59·7	59·9	52·2
31	70·4	56·6	63·4	65·2	70·0	62·7	59·4	61·2	63·3	61·4
Means	74·3	55·4	65·6	70·1	71·8	62·5	59·4	61·1	61·9	58·2

August

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground: Maximum	Minimum	9^h	12^h	15^h	21^h	Wet-Bulb Thermometers 4ft above the Ground: 9^h	12^h	15^h	21^h
d	°	°	°	°	°	°	°	°	°	°
1	63·8	57·1	59·6	61·4	61·4	60·0	55·8	56·9	56·7	56·3
2	78·1	52·1	62·7	72·6	77·2	60·8	56·5	60·1	61·0	57·8
3	81·5	50·7	68·0	76·3	80·6	66·7	60·7	62·3	65·2	63·4
4	87·8	53·6	72·4	82·2	87·0	69·4	62·2	63·3	65·0	63·0
5	79·2	57·3	70·0	76·0	76·0	63·5	61·7	64·5	64·0	58·0
6	65·8	51·4	57·0	64·6	65·0	54·0	53·2	54·9	55·8	51·0
7	60·3	47·1	54·5	57·7	59·4	52·6	49·5	52·3	53·1	51·8
8	65·7	50·6	57·8	61·6	60·6	55·9	54·8	55·7	55·5	54·3
9	62·3	51·7	57·6	62·1	60·4	55·0	54·9	56·5	55·1	54·4
10	77·7	55·0	63·1	73·7	77·5	65·5	56·2	61·2	64·1	58·8
11	71·5	54·3	61·1	64·3	66·0	63·8	56·7	60·5	63·0	61·5
12	70·9	58·4	60·9	68·9	70·2	61·7	59·9	62·6	63·4	59·2
13	64·5	54·5	57·5	60·7	63·6	61·0	55·5	58·3	60·2	58·0
14	67·0	57·2	59·9	61·6	63·6	60·0	58·3	59·3	60·2	58·6
15	70·9	57·9	63·2	61·0	69·9	60·5	60·4	58·9	60·9	54·5
16	71·0	51·1	63·2	66·0	67·4	58·5	55·6	54·8	56·0	57·0
17	74·3	56·5	64·5	67·6	71·5	62·3	60·0	60·1	61·2	57·0
18	66·6	56·7	61·9	66·4	65·5	60·5	56·9	58·2	59·5	57·0
19	60·5	53·8	57·6	58·3	59·6	56·3	53·7	53·3	53·4	51·8
20	67·1	53·3	59·7	64·3	65·6	59·0	53·6	57·1	59·0	56·0
21	72·0	54·1	63·6	69·0	69·4	60·0	62·3	63·2	62·2	57·2
22	69·4	56·2	65·0	69·0	58·7	58·8	59·2	60·6	57·7	57·5
23	69·5	54·3	60·7	66·2	69·0	60·0	54·8	57·2	60·0	56·5
24	66·9	55·9	63·6	63·9	63·6	63·1	59·8	61·4	61·6	61·1
25	72·4	60·9	65·7	68·1	68·0	62·2	62·2	63·1	62·5	58·2
26	74·2	50·4	63·4	70·0	72·7	59·5	58·3	58·5	60·7	56·5
27	74·9	50·3	67·0	73·7	72·2	62·0	60·7	63·3	63·1	59·3
28	75·9	56·9	67·8	75·0	73·6	64·4	64·2	66·4	65·9	62·4
29	70·4	59·8	65·6	69·0	68·5	60·5	62·9	64·7	64·6	58·7
30	67·6	57·8	61·8	65·2	65·6	59·0	59·4	60·9	61·2	56·5
31	71·3	56·2	59·8	66·6	68·1	56·5	55·8	57·8	58·7	55·0
Means	70·7	54·6	62·5	67·2	68·3	60·4	57·9	59·6	60·3	57·4

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

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

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground						Wet-Bulb Thermometers 4ft above the Ground			
	Maxi-mum	Mini-mum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h
	September									
d	°	°	°	°	°	°	°	°	°	°
1	65·3	51·3	61·2	63·2	65·0	58·5	54·8	56·5	58·8	57·5
2	69·0	57·6	65·6	68·1	64·6	57·6	59·1	59·7	56·6	54·6
3	65·9	54·3	62·6	63·6	64·0	60·0	58·9	59·4	59·8	57·0
4	61·2	56·9	58·1	59·0	60·4	61·2	57·1	58·2	58·5	60·0
5	61·4	56·6	58·7	60·2	60·6	56·6	56·8	56·9	56·1	52·8
6	62·3	52·4	58·0	60·6	60·6	56·2	51·8	53·1	53·3	51·7
7	66·5	53·1	60·8	65·1	64·2	55·2	52·9	55·6	55·7	53·3
8	60·5	53·8	54·8	58·4	59·5	56·5	54·3	55·7	55·8	53·8
9	65·0	54·1	58·4	61·4	62·0	57·8	55·3	56·4	57·2	55·4
10	66·3	54·9	60·6	64·5	65·5	60·0	56·8	58·0	59·3	57·9
11	72·9	59·5	66·9	69·3	70·7	64·0	65·5	66·4	67·2	63·0
12	76·2	63·2	68·4	75·0	74·3	66·4	65·9	69·1	68·1	63·8
13	71·0	56·5	64·3	67·0	66·6	56·5	60·3	57·7	59·4	54·7
14	63.0	54·9	59·4	63·0	60·6	61·4	55·9	58·3	59·4	59·7
15	66·0	52·7	61·5	61·0	64·6	58·8	57·5	56·4	57·6	55·3
16	73·6	57·7	67·3	69·2	73·2	63·3	63·7	64·7	65·4	59·5
17	76·9	55·7	66·1	74·9	76·2	66·8	62·0	65·9	68·0	64·1
18	75·7	61·1	66·3	72·6	73·3	61·5	63·7	65·4	62·8	58·5
19	71·8	57·0	61·4	69·6	69·0	62·4	58·7	60·9	59·8	58·7
20	63·5	56·8	62·0	63·2	62·6	56·8	60·9	60·6	61·3	56·0
21	67·0	49·9	58·2	63·8	60·1	54·3	56·3	57·3	56·9	53·7
22	65·1	52·5	60·1	62·4	64·5	52·5	57·2	54·7	54·0	48·5
23	64·0	47·5	54·3	62·1	58·0	54·2	49·8	52·6	50·5	50·0
24	58·9	50·9	54·8	57·4	58·5	51·0	51·3	52·7	52·7	46·6
25	57·5	46·9	51·4	56·1	55·0	48·3	47·4	49·7	48·8	45·3
26	61·0	46·4	51·5	58·1	58·5	55·6	47·5	50·6	52·5	54·8
27	66·0	52·3	58·1	62·5	63·5	58·0	52·3	56·1	57·5	56·0
28	63·0	50·5	51·5	57·9	60·6	52·7	50·2	54·0	54·7	49·7
29	63·7	40·7	48·6	60·1	63·2	48·5	47·8	54·9	56·2	47·0
30	62·5	44·5	56·2	61·8	62·0	54·4	53·2	55·6	56·7	52·7
Means	66·1	53·4	59·6	63·7	64·0	57·6	56·2	57·8	58·0	55·1
	October									
d	°	°	°	°	°	°	°	°	°	°
1	61·3	49·5	55·4	60·6	59·6	56·0	54·1	54·7	53·7	53·0
2	59·0	48·8	57·3	58·7	58·9	55·7	54·3	54·2	54·1	53·7
3	60·6	52·0	59·0	60·0	60·4	52·0	54·5	53·7	54·3	50·3
4	54·0	46·0	50·4	53·6	54·0	50·7	49·4	51·5	51·7	50·2
5	64·8	44·6	54·0	61·1	62·6	46·7	52·2	53·0	53·0	45·7
6	61·7	42·1	50·3	58·3	61·4	56·0	49·3	54·3	56·4	54·0
7	61·0	39·3	50·8	58·9	60·0	50·5	48·8	52·8	54·4	49·0
8	64·8	47·7	53·6	60·8	62·6	53·4	49·9	53·8	54·6	51·0
9	64·7	41·5	54·7	61·5	62·3	48·7	52·7	55·0	55·3	47·4
10	71·1	46·4	60·4	68·8	68·6	56·8	56·9	59·6	58·7	54·1
11	74·3	49·1	58·8	70·2	72·0	57·5	56·8	60·7	60·4	56·3
12	71·1	54·3	54·9	61·3	71·1	57·3	54·2	57·9	62·0	55·5
13	61·5	46·5	55·6	60·3	60·5	46·5	51·9	53·4	54·3	45·5
14	56·6	41·9	50·2	53·6	55·5	47·7	49·4	50·5	51·0	46·0
15	63·0	42·1	52·6	60·1	61·6	47·5	49·7	54·2	54·1	46·2
16	67·6	40·6	52·1	60·6	64·2	50·6	51·4	55·7	57·7	49·6
17	60·0	49·5	52·3	59·6	58·6	54·5	51·3	54·0	53·2	51·8
18	56·0	48·7	53·0	54·0	55·6	48·7	49·8	53·0	52·2	46·9
19	63·0	44·3	51·8	61·2	60·6	51·5	50·1	55·2	54·7	49·7
20	63·7	46·1	56·8	61·1	63·0	56·8	54·8	58·0	59·5	55·6
21	63·1	56·5	61·0	63·1	61·0	60·0	60·0	62·2	60·0	58·9
22	62·9	48·9	58·9	61·9	60·9	51·8	55·8	57·1	55·7	50·3
23	63·0	50·3	59·9	62·0	58·5	56·0	56·1	55·0	52·5	53·6
24	61·5	49·7	54·0	56·8	56·4	50·2	52·7	52·1	49·9	46·7
25	57·1	49·0	56·4	55·8	55·5	49·0	52·4	53·7	53·7	45·7
26	57·1	48·4	53·1	54·8	55·6	51·5	49·7	50·7	50·6	48·0
27	58·4	47·7	51·3	55·7	56·5	48·3	48·1	49·7	50·7	47·1
28	59·8	48·1	55·0	59·5	55·0	53·0	53·9	55·6	54·0	52·0
29	60·1	49·1	50·0	57·1	58·5	49·7	49·3	53·6	52·7	48·7
30	62·5	42·7	51·9	59·3	59·3	45·0	50·0	53·8	52·6	44·0
31	62·0	38·7	47·6	60·4	57·6	48·3	46·6	55·8	54·5	48·0
Means	62·2	46·8	54·3	59·7	60·3	51·9	52·1	54·7	54·6	50·1

Day of the Month	Dry-Bulb Thermometers 4ft above the Ground						Wet-Bulb Thermometers 4ft above the Ground			
	Maxi-mum	Mini-mum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h
	November									
d	°	°	°	°	°	°	°	°	°	°
1	54·0	42·6	46·0	53·0	53·1	52·0	45·1	50·7	51·1	50·6
2	53·5	50·6	52·5	52·3	53·5	52·0	51·7	51·8	52·1	51·1
3	62·6	49·6	53·1	59·3	58·5	52·0	52·4	56·2	55·0	50·8
4	60·6	50·9	54·3	57·4	58·4	52·3	52·9	55·4	55·6	52·0
5	56·0	50·5	53·3	56·0	55·4	50·6	52·8	54·5	53·1	48·9
6	54·0	46·1	51·0	53·2	53·7	46·3	49·7	50·3	49·8	44·5
7	52·0	43·7	47·6	49·6	50·7	47·3	45·5	46·1	46·8	45·8
8	57·0	47·3	52·5	56·1	56·7	51·5	49·8	52·6	52·0	48·0
9	51·5	44·2	47·0	48·6	50·6	45·8	44·3	46·3	46·9	43·2
10	50·0	41·1	46·0	49·6	45·3	41·1	42·7	44·7	43·8	40·1
11	49·0	39·3	42·5	48·1	46·7	42·9	40·7	43·6	43·3	41·5
12	48·5	41·2	44·2	47·6	47·4	46·0	42·3	45·0	45·8	45·0
13	50·7	44·0	46·5	49·7	49·8	46·0	44·0	45·1	45·4	44·4
14	48·0	41·4	43·6	46·7	46·7	41·4	42·5	44·7	43·4	40·4
15	47·0	36·0	41·0	46·8	45·5	38·0	39·7	43·5	40·8	36·5
16	45·5	34·1	39·8	44·4	43·4	39·0	36·8	39·1	38·4	37·4
17	46·5	38·6	43·5	45·0	45·9	44·5	38·9	40·5	41·2	43·0
18	48·3	40·3	46·4	48·2	47·4	45·8	44·2	44·4	44·7	43·6
19	48·5	43·0	47·2	47·9	47·2	43·0	45·1	44·9	44·7	42·6
20	48·0	40·7	42·6	44·7	47·0	48·0	42·4	44·5	46·7	48·0
21	54·0	48·0	50·2	52·4	54·0	52·6	49·7	51·8	53·5	52·2
22	53·0	44·7	52·3	51·8	48·4	44·7	52·0	51·3	47·8	43·5
23	46·4	42·3	43·6	45·9	45·5	43·0	42·7	43·9	43·7	42·0
24	47·7	41·8	43·2	47·7	43·7	42·0	42·5	44·7	41·7	41·4
25	48·9	36·9	39·2	47·0	47·4	41·0	38·9	44·2	44·6	39·5
26	49·1	39·5	45·4	49·1	46·7	39·5	43·4	46·7	43·5	38·2
27	41·6	33·0	35·2	37·1	41·4	34·4	33·5	35·5	36·9	33·4
28	43·0	32·0	36·5	41·0	42·9	38·4	35·5	38·9	41·1	38·0
29	47·1	35·4	44·4	47·0	47·1	44·2	43·1	44·6	44·1	42·7
30	48·4	37·7	44·3	48·0	44·7	38·8	42·1	44·8	42·2	38·0
Means	50·3	41·9	45·8	49·0	48·8	44·8	44·2	46·3	46·0	43·5
	December									
d	°	°	°	°	°	°	°	°	°	°
1	53·2	38·4	44·4	49·6	51·0	49·4	42·9	47·3	49·2	48·2
2	54·3	43·0	53·6	47·6	47·7	43·0	52·6	46·7	45·7	41·1
3	46·3	38·8	43·5	35·3	44·2	38·8	41·2	41·5	40·2	37·5
4	46·7	28·9	32·8	41·2	43·6	46·7	32·1	38·8	41·7	46·0
5	49·6	40·5	45·0	46·6	45·0	40·5	41·7	41·7	40·6	37·8
6	41·8	36·1	37·6	40·5	41·1	38·0	33·0	35·5	36·7	35·7
7	39·4	27·1	31·5	38·0	38·9	38·6	30·5	33·0	36·7	37·2
8	38·6	31·2	32·0	34·6	34·4	32·4	28·2	30·2	30·0	30·0
9	34·8	26·0	27·8	33·6	32·4	26·6	26·5	30·3	29·7	25·4
10	38·5	22·0	32·6	34·6	36·2	36·3	31·1	32·2	34·7	35·6
11	44·6	31·6	34·6	39·2	44·6	42·8	34·3	37·9	41·8	41·6
12	43·0	32·4	36·8	41·0	42·4	39·0	35·3	38·8	40·4	38·1
13	49·0	38·7	45·6	47·8	48·9	43·0	42·3	44·3	44·9	41·3
14	43·0	30·5	31·2	40·6	40·8	38·8	30·7	37·0	37·8	37·4
15	51·8	38·8	46·1	51·0	49·0	48·0	44·7	47·3	46·6	47·0
16	54·5	48·0	51·8	54·1	52·2	50·8	50·7	50·7	49·7	48·8
17	51·5	47·3	48·7	48·5	40·5	50·0	44·3	45·7	47·7	48·3
18	50·9	48·0	49·0	50·4	49·2	48·4	47·0	47·1	46·7	45·6
19	51·5	37·3	48·0	50·2	49·4	37·3	47·1	48·5	48·4	36·7
20	47·8	32·6	34·6	46·0	46·9	39·2	34·2	44·1	44·6	38·8
21	43·5	38·0	38·5	40·8	40·7	40·1	37·7	39·0	38·8	39·1
22	44·1	38·1	39·1	43·1	43·0	44·1	38·5	41·8	42·3	42·9
23	48·5	37·0	37·6	45·9	46·5	48·0	37·3	44·6	45·8	47·4
24	48·8	44·2	45·3	47·0	46·3	45·4	44·1	44·7	44·8	43·6
25	50·0	43·4	46·3	48·3	49·3	44·2	44·4	46·6	46·3	42·7
26	48·2	39·9	42·2	46·6	46·3	46·4	41·2	44·5	44·8	45·8
27	52·6	44·8	49·3	50·1	49·5	45·0	47·2	46·7	45·9	43·6
28	45·0	34·7	39·8	37·0	39·6	38·2	39·5	36·5	38·8	37·5
29	43·0	37·9	39·6	42·1	43·0	40·8	38·6	39·3	40·6	39·1
30	40·8	28·5	34·8	38·5	37·8	28·5	34·4	37·5	37·2	28·5
31	36·2	26·4	30·9	33·5	36·2	31·8	30·4	33·5	35·7	31·4
Means	46·2	36·5	40·3	43·7	44·1	41·3	38·8	41·1	41·8	40·0

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

1945	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	37·4	23·9	49·4	43·0	52·2	41·8	61·1	49·5	45·1	41·2	67·4	49·5	67·7	50·9	71·4	56·6	72·9	50·3	62·8	47·6	61·2	42·0	49·1	36·3
2	37·0	24·3	51·2	44·8	54·2	31·9	58·0	52·3	54·8	31·2	65·7	49·2	69·0	51·3	65·1	50·3	66·6	57·2	62·0	47·1	54·4	45·4	54·6	44·7
3	43·9	36·4	50·7	35·1	45·9	29·0	58·8	42·4	54·4	36·0	66·2	50·8	64·0	48·2	79·8	49·0	70·2	53·2	60·2	53·4	53·2	49·5	53·0	41·4
4	46·1	31·0	51·3	36·4	45·4	34·0	57·8	40·3	51·8	35·1	72·3	48·6	73·9	51·6	82·1	52·4	67·7	56·8	61·4	44·8	61·7	50·2	46·9	29·2
5	36·2	31·2	54·0	45·0	52·0	32·4	54·1	43·1	55·7	39·2	68·3	47·6	67·2	59·6	88·6	55·4	61·1	57·2	53·9	42·9	61·6	50·4	49·8	33·4
6	37·8	25·5	54·8	42·6	50·3	37·5	57·6	39·3	62·1	44·2	66·1	57·0	80·1	57·2	79·5	50·0	61·0	52·3	63·8	41·5	56·2	48·5	46·8	35·5
7	37·3	32·1	51·2	44·3	53·7	43·5	59·4	40·0	66·2	52·2	66·6	58·4	81·2	57·2	67·9	46·8	64·0	52·2	62·0	38·3	54·1	44·3	41·8	26·7
8	39·1	29·9	54·2	36·6	51·3	42·2	47·1	38·2	76·5	55·3	70·3	51·1	79·1	48·2	60·9	50·2	66·8	52·4	61·9	47·5	52·8	42·7	39·8	31·2
9	35·7	31·5	47·8	38·4	51·4	31·0	53·6	37·0	79·7	59·2	67·9	48·2	80·5	52·5	67·5	50·3	61·0	53·9	64·8	41·2	56·8	43·9	36·8	24·7
10	33·4	30·0	47·7	38·0	53·3	38·2	57·0	34·8	75·6	46·3	65·8	50·9	81·0	59·7	63·4	54·2	67·0	54·6	64·9	46·2	50·9	42·2	35·6	21·8
11	35·1	28·5	45·6	32·5	55·0	39·5	64·2	47·5	72·9	49·2	66·4	55·6	61·4	53·7	78·5	52·8	67·3	59·1	70·4	47·6	51·2	37·7	38·5	31·2
12	37·0	28·5	48·5	37·0	50·5	31·0	73·3	51·0	80·0	54·5	69·8	53·3	73·7	54·2	73·0	56·5	72·8	62·9	73·2	54·2	49·9	41·2	44·8	31·6
13	38·1	35·2	56·3	48·0	53·8	30·3	69·6	41·8	87·4	55·7	67·8	48·1	80·3	56·3	73·1	54·6	76·8	61·7	70·4	54·1	49·0	44·1	45·5	35·8
14	38·2	32·8	52·8	37·6	59·3	34·2	72·7	41·4	79·2	48·8	70·9	49·6	82·3	60·2	65·0	57·1	70·2	54·8	62·4	40·8	52·0	41·8	49·3	29·4
15	38·9	32·4	52·0	34·9	64·8	35·4	70·3	55·5	67·3	51·1	67·6	51·5	85·4	60·5	67·7	57·6	63·4	52·5	57·4	40·3	48·5	34·0	46·3	30·7
16	41·4	31·2	48·5	35·6	58·3	36·6	75·5	52·9	72·1	53·2	71·6	49·9	87·1	57·3	72·8	50·8	67·3	57·6	63·8	40·6	47·3	33·0	52·1	45·8
17	42·6	34·7	47·1	39·9	59·7	43·5	80·3	49·0	77·8	53·6	66·9	42·4	70·2	48·3	72·6	56·4	74·2	55·1	65·9	49·0	45·7	38·3	54·5	48·1
18	46·4	36·9	54·6	47·0	54·2	34·4	80·1	49·2	79·6	52·8	72·6	44·3	78·0	54·7	75·8	54·8	77·5	60·5	62·3	48·8	47·0	38·4	51·9	47·6
19	48·4	32·4	62·6	44·2	57·0	44·2	74·4	45·3	74·8	49·0	81·4	47·6	83·8	60·4	67·6	54·2	74·7	56·2	56·7	42·4	49·0	45·0	51·3	46·1
20	38·7	28·0	58·0	45·7	51·7	41·8	71·5	43·1	62·1	48·5	79·4	59·5	76·0	58·1	61·1	53·1	71·8	60·0	63·4	45·0	49·3	41·0	51·9	32·6
21	34·7	24·9	56·6	29·5	58·6	34·9	76·3	50·8	67·2	45·5	80·0	52·5	71·8	58·6	67·6	53·5	63·9	50·1	63·8	55·4	50·6	42·2	48·5	35·4
22	34·2	25·8	52·1	33·0	60·9	35·0	61·1	40·2	70·4	47·8	75·0	50·3	77·0	56·8	72·4	55·5	67·7	54·1	63·3	48·3	54·0	50·0	41·9	37·2
23	33·4	28·3	51·1	40·9	65·8	35·5	58·0	30·7	68·7	48·9	79·7	59·4	73·5	55·3	69·9	54·3	65·5	47·4	63·1	49·8	52·5	42·4	44·3	36·6
24	33·0	23·9	48·1	29·0	71·8	42·7	57·7	33·4	67·3	44·4	80·6	61·3	81·0	53·0	69·5	56·0	63·0	50·8	63·0	54·0	47·2	41·1	48·9	37·4
25	31·0	22·2	50·7	36·0	67·3	47·4	58·3	36·6	60·7	39·6	80·8	53·2	79·4	54·9	67·0	60·8	59·6	46·6	58·2	49·8	48·1	36·0	48·0	43·2
26	26·8	19·8	52·0	44·5	54·8	42·3	66·5	37·8	71·0	48·2	77·0	54·2	76·0	60·2	73·2	49·1	58·2	46·2	57·0	48·3	49·4	38·2	49·8	39·4
27	27·2	19·6	59·3	49·0	49·9	42·8	58·0	43·0	58·9	45·1	67·4	50·0	66·2	52·0	74·9	48·7	62·0	51·3	57·4	47·3	49·1	32·0	52·7	41·2
28	31·1	21·7	58·9	41·9	60·6	45·5	53·3	36·2	65·5	39·2	68·0	45·2	69·9	50·1	76·0	55·1	66·1	50·4	58·7	47·8	41·5	31·6	51·0	38·6
29	33·7	14·8			58·6	50·9	48·7	32·5	60·7	48·2	60·5	50·7	72·7	50·0	78·1	58·9	63·8	39·4	60·2	49·2	44·4	35·0	41·4	34·6
30	34·2	17·3			63·4	43·2	51·2	31·5	66·8	43·0	68·0	50·5	75·4	55·2	70·9	57·6	64·1	43·5	60·0	42·7	47·5	42·8	43·2	30·2
31	44·9	33·6			59·0	44·7			68·6	50·3			73·6	56·0	68·1	56·2			60·8	38·9			39·1	26·1
Means	37·2	28·0	52·4	39·6	56·3	38·6	62·9	42·2	67·8	47·0	70·9	51·3	75·4	54·9	71·6	53·8	66·9	53·3	62·2	46·6	51·2	41·5	46·7	35·6

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1945.

Gauge 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.	March	April	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	1·824	1·470	1·194	0·936	1·871	1·729	2·922	1·264	1·417	1·763	0·156	2·861	19·404	0 5	149 6
	8	1·806	1·393	1·110	0·922	1·837	1·618	2·919	1·283	1·407	1·800	0·146	2·842	19·083	1 0	150 1
Number of Rainy Days (0·005 in. or over).		17	14	9	12	13	18	13	12	18	12	8	17	163	....	....

TABLE XXIX. - MEAN HOURLY MEASURES OF THE HORIZONTAL MOVEMENT OF THE AIR, IN EACH MONTH, AND GREATEST HOURLY MEASURES, AS DERIVED FROM THE RECORDS OF ROBINSON'S ANEMOMETER*

Hour Ending	January	February	March	April	May	June	July	August	September	October	November	December	Mean for the Year
	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles
1h	11·9†	11·6	7·4	8·1	8·1	8·8	7·6	8·3	9·0	8·4	6·8	10·8	8·9
2	12·9	11·7	7·8	7·7	8·2	8·4	7·7	7·9	9·1	7·9	6·6	11·0	8·9
3	12·3	11·9	8·1	7·8	7·9	8·0	7·5	7·6	9·2	8·2	6·4	11·3	8·9
4	12·7	12·0	7·9	8·4	7·9	7·8	7·7	7·9	8·8	8·9	6·6	11·5	9·0
5	13·2	12·1	7·6	8·4	7·6	7·6	8·6	7·8	8·6	8·6	6·8	10·8	9·0
6	13·2	12·4	8·1	8·9	8·0	8·1	8·6	7·5	9·1	9·0	7·1	11·2	9·3
7	13·5	12·9	7·9	8·9	8·5	9·3	9·1	7·0	9·5	9·0	7·6	11·1	9·5
8	13·3	13·1	7·8	9·0	8·8	10·5	10·0	8·0	9·9	9·3	7·5	11·0	9·8
9	12·7	12·6	8·3	10·3	9·6	11·5	10·7	8·3	10·6	9·1	7·5	11·3	10·2
10	13·5	12·8	9·4	10·8	10·2	11·8	11·2	8·1	9·8	9·2	7·4	10·8	10·4
11	13·7	13·5	9·7	11·3	10·6	12·6	11·6	9·0	11·0	10·1	7·8	11·4	11·0
12	13·5	14·0	10·1	11·9	10·6	13·4	12·1	9·5	12·4	11·1	9·2	12·1	11·7
13	14·2	14·1	11·5	11·5	11·4	12·8	11·0	10·0	12·6	10·5	8·4	11·8	11·7
14	13·7	14·1	11·0	12·2	11·4	12·9	11·6	10·1	12·9	10·4	8·6	11·9	11·7
15	14·3	14·4	11·5	11·8	11·9	13·7	12·6	10·3	12·7	10·5	8·8	11·8	12·0
16	13·2	13·7	11·1	11·4	11·4	13·5	12·0	10·4	12·6	10·2	8·3	11·5	11·6
17	13·5	12·5	10·7	11·1	10·9	13·1	11·6	9·9	12·2	9·3	8·1	11·9	11·2
18	13·6	11·4	10·4	10·5	10·6	13·6	12·0	9·7	11·3	9·3	8·5	11·6	11·0
19	13·3	12·1	9·3	8·9	11·1	12·7	11·6	9·3	10·6	8·8	8·0	11·4	10·6
20	13·6	12·0	9·5	8·1	10·1	11·6	11·0	9·2	9·9	8·5	7·4	11·6	10·2
21	13·4	12·5	8·9	7·9	8·9	10·1	9·7	8·9	9·9	8·7	7·3	11·3	9·8
22	12·3	12·1	8·6	8·1	8·8	9·5	9·2	8·1	9·6	8·4	6·9	11·0	9·3
23	11·9	11·0	8·0	7·6	8·5	9·5	8·8	8·6	9·6	8·4	7·0	10·2	9·1
24	12·0	10·7	7·9	7·3	8·1	8·9	8·1	8·2	9·1	8·8	6·8	10·3	8·8
Means	13·1	12·5	9·1	9·5	9·5	10·8	10·1	8·7	10·4	9·2	7·6	11·3	10·1
Greatest Hourly Measures	37	38	30	36	28	27	28	24	27	38	24	28	..

* The measures are derived from the motion of the cups by the formula $V = 2{\cdot}7v$, where v is the hourly motion of the cups in miles. *See* Introduction p. xvii.

† Mean of 24 days only.