

RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS

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

1944

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

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E R R A T A

RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1938.

INTERNATIONAL DISTURBED DAYS: -

TABLE VIII

NORTH COMPONENT, 4TH HARMONIC

Page D 32	Winter:	<i>for</i>	- 2. 3,	- 2. 2	<i>read</i>	- 3. 0,	- 0. 9
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<i>for</i>	228°	<i>read</i>	255°
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Equinox:	<i>for</i>	- 0. 3,	- 1. 3	<i>read</i>	- 1. 3,	+ 0. 4
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<i>for</i>	192	<i>read</i>	290
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TABLE IX

WEST COMPONENT, 1ST HARMONIC

Equinox:	<i>for</i>	-14. 7,	-10. 7	<i>read</i>	-22. 1,	-11. 7
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<i>for</i>	18. 2,	234°	<i>read</i>	25. 0,	243°
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TABLE XI

Page D 33	Year:	<i>for</i>	+ 0. 10,	- 12. 3,	+ 4. 0	<i>read</i>	+ 0. 11,	- 13. 4,	+ 4. 3
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THE ROYAL OBSERVATORY, GREENWICH,

AND

ABINGER MAGNETIC STATION, SURREY.

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1944.

INTRODUCTION

STAFF

During the year 1944 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 J. Mounteney. Mr. Chamberlain, resident observer and assistant-in-charge, and his assistant Mr. Rickerby were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

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

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

ABINGER MAGNETIC OBSERVATIONS, 1944.

feet high and is supported on small concrete piers. The whole structure is contained within an outer chamber whose walls are constructed to have a low thermal conductivity and are nearly two feet thick. Between the walls of the two chambers is an air space of from 2 to 3 feet. The inner chamber is electrically heated by a series of low-temperature non-magnetic metallic resistances distributed along the base of the walls and fed by alternating current drawn from the public mains supply.

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

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

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

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

VARIOMETERS - *The La Cour Horizontal Intensity Variometer.* A complete description of this instrument is to be found in *Publikationer fra det Danske Meteorologiske Institut*, No. 11 (Copenhagen 1930), but for general information some details are given here. The magnet of cobalt steel is 8 millimetres long and weighs about 25 milligrams, the magnetic moment being 3.2 c.g.s. units. It is suspended at right angles to the Earth's horizontal field by means of a quartz fibre thickened at each end to form a small cone. Each cone fits into a conical brass socket having a fine slit in its side through which the fibre has passed. The focal length of the lens which projects the ray from the mirror attached to the magnet is 160 cms. Compensation for the effect of temperature on the moment of the magnet and the torsional constant of the quartz fibre is attained by optical means in which compensatory deflection of the emergent ray is produced by proportional curving (under temperature changes) of a bi-metallic lamina which supports a prism controlling the ultimate direction of the ray.

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A small Helmholtz-Gaugain coil, having a field of 7.43 gamma per 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 $0^{\circ}.5$. The adopted scale-value during 1944 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 1944 was $0'.92$ per millimetre. Expressed as magnetic intensity the scale-value would be 4.97 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 $3'.7$ per millimetre. The two instruments are located as described on p. vi. The present position of the D variometer is such that it is necessary to deflect the recording light rays towards the recording cylinder through a large angle, and an appropriate mirror rigidly supported between the variometer and cylinder forms part of the apparatus. The wide-range variometers have been in regular operation since 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 constitutes a second, interrupted, trace of the element. These marks, however, have been

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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 $3'$. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to $1''$. 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 $10''$ from a graduated circle on the base-plate by the usual vernier attachment. On the periphery of the cylinder, near each end and at a mean distance of 25 cms. from each other, are two windings, in series, of ten turns of bare silver wire, the method of winding in a double spiral being that adopted in the original instrument referred to above. The whole forms a Helmholtz-Gaugain system at the centre of which a very uniform magnetic field parallel to the axis exists when an electric current is passing through the coils.

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

To afford an easy means of reading the azimuth of the cylinder and the indications of the magnet, graduated ivorine scales are placed horizontally on stands at a distance of approximately 2 metres from the pier, and spots of light are reflected to them by small concave mirrors in the instrument.

Situated outside the observing pavilion, about 40 feet to the south, is a storage battery of 25 cells which produces the current required for the observation. The amount of current employed is very accurately adjusted to a specific quantity by rheostat according to the indications of a Broca galvanometer in a potentiometer circuit in which the fall of potential across a known resistance is brought to equality with the voltage of a Weston standard cell.

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

Theory of the observation:-

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

An observation proceeds as follows:-

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

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The current is now reversed in the coil by a commutator switch and the coil is turned until the resultant force on the magnet is in a direction at right angles to the earth's field. This is indicated on either the north or south scale by the magnet-mirror, which is carried round 90° by the magnet. The 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 and tube are turned by the observer as the magnet turns, so that no torsional change is introduced. The effect of any small error in the assumed direction of the Earth's horizontal field, due, say, to residual torsion on the suspension thread, is eliminated on taking the mean of the two results.

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

If F be the factor of the coil and i be the current passing, in amperes, then the intensity of the field at the centre of the coil, in gamma units, is $Fi \times 10^4$. The adopted value of the factor F of the coil is $3.59570 (1.0000043t)$, t being temperature Celsius.

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

The constants of the coil and of the potentiometer at various standard temperatures have been precisely determined at the National Physical Laboratory and are checked from time to time. The dimensions of the coil were re-examined in November 1931. The electrical constants on which the reduction of observations made in 1944 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 adopted has been .99988. The change introduced 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 collimator magnet were made during the year 1944. The mean observed value of $\log. K$ from these determinations was 2.42356. 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 +10.04 and -1796 respectively.

The values used in the reduction of the 1944 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

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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. v).

The Vertical Intensity Coil Magnetometer. This instrument, designed by D. W. Dye for direct measurement of vertical intensity and constructed under his supervision at the National Physical Laboratory, Teddington, is on loan to the Royal Observatory from the Laboratory. It is erected on the south-east pier of the observing pavilion and was adopted as the standard for measurement of vertical intensity from 1929 January 1.

A full description of the instrument is published in *Proceedings of the Royal Society*, Ser. A, Vol. 117 (1928), pp. 434-458. In brief, the instrument consists of a Helmholtz-Gaugain coil wound on a marble cylinder, the axis of which is vertical as truly as can be determined, together with accessory apparatus for accurately controlling and measuring the current passed through the coil, and for testing the resultant field at its centre.

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

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

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

The adopted value of the factor F of the coil is $F = 3.59643 (1-0000079t)$, t being temperature Celsius. The constants of the potentiometer in use during the year 1944 for the measurement of the current were verified at the National Physical Laboratory in 1943 August. The factor adopted for the conversion from international units 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 -3.9γ into the deduced values of Z .

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

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

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

Base-lines. Values of the base-lines are adopted from smooth curves drawn through points plotted upon charts, each point representing the mean of several independently observed values. Ten observations of declination, eight of horizontal intensity and six of vertical intensity are made, on an average, each week-day. Prior to 1929 the base-line values for vertical intensity traces were computed from absolute observations of inclination I, combined with simultaneous values of horizontal intensity H, taken from the magnetograms, in accordance with the relation $Z = H \tan I$. From 1929 January 1 the values have been obtained directly from observations of vertical intensity with the coil-magnetometer. The change introduces a discontinuity of about 30γ into the definitive values of vertical intensity, corresponding to $0'.9$ in inclination. The latter is to be attributed to hitherto unsuspected wear in the bearings of the Earth inductor which, at the time of its discovery, made 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 0h to 24h U.T. being assigned according to the principles described in an article published in *Terrestrial Magnetism and Atmospheric Electricity*, Vol. 44, pp. 411 *et seq* (December 1939).

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

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

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

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

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

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

Tables V to VII contain the mean diurnal inequalities obtained from "All" days and from "Quiet" and "Disturbed" days as selected by the International Committee. In addition to monthly and annual values there are given values for the seasons, viz. Winter (January, February, November, December), Equinox (March, April, September, October) and Summer (May, June, July, August). The values in these tables are *not* adjusted for the effect of non-cyclic change.

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

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

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

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

Table XII contains the mean monthly and annual values of the components collected together. In forming this table corrections are applied when necessary, to the values of H and Z taken from Table IV to remove the effect of any small secular changes in potentiometer constants found at the periodical re-measurement of the constants at the National Physical Laboratory.

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

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

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

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

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

The observations comprise eye observations of the ordinary meteorological instruments, including the barometer, dry-bulb and wet-bulb thermometers, radiation and earth thermometers; continuous autographic record of the variations of the barometer, dry-bulb and wet-bulb thermometers; continuous automatic record of the direction, pressure and velocity of the wind and of the amount of rain; registration of the duration of sunshine and at night of the visibility of stars near the celestial Pole; the general record of ordinary atmospheric changes of weather, including numerical estimation of the amount of cloud and estimations of "visibility"; registration and measurement of the pollution of the air by solid matter.

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

INSTRUMENTS. *Standard Barometer.* The standard barometer is Newman No. 64. Its tube is 0.565 inch in diameter, and the depression of the mercury due to capillary action is 0.002 inch, but no correction is applied on this account. The cistern is of glass and the graduated scale and attached rod are of brass. At its lower end the rod terminates in a point of ivory which in observation is made just to meet the reflected image of the point as seen in the mercury. The scale is divided to 0.05 inch, sub-divided by vernier to 0.002 inch.

The barometer was mounted in 1840 on the southern wall of the western arm of the Upper Magnet Room at a height above mean sea level of 159 feet. On 1917 April 3 it was transferred to the new magnetograph house in the Christie Enclosure, where the height above mean sea level is 152 feet (see also p. xix).

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The barometer is read at 9^h, 12^h (noon) and 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-angles 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 free surfaces 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.

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

The dry-bulb thermometer used throughout the year was Negretti and Zambra No. 45354. The correction $-0^{\circ}.4$ has been applied to the readings of this thermometer. The wet-bulb thermometer used throughout the year was Negretti and Zambra No. 94737. The correction $-0^{\circ}.3$ has been applied to the readings of this thermometer.

The dry-bulb and wet-bulb thermometers are read at 9^{h} , 12^{h} (noon) and 15^{h} every day. Readings of the maximum and minimum thermometers are taken at 9^{h} and 15^{h} every day. The readings are employed to correct the indications of the recording dry-bulb and wet-bulb thermometers.

Dry-bulb and Wet-bulb Recording Thermometers. The photographic apparatus which had been in use since 1887 was superseded on 1938 January 1 by a distant-recording thermograph. The action of this instrument depends on the pressure of mercury in a long flexible capillary tube of steel. The pressure alters the curvature of a Bourdon coil which in turn controls the position of a recording pen.

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

Radiation Thermometers. These thermometers are placed in an open position in the Christie Enclosure. The thermometer for solar radiation is a mercurial maximum thermometer with its bulb blackened and enclosed in a glass sphere from which the air has been exhausted. The thermometer employed was DB 3544. The thermometer for radiation to the sky is a spirit minimum thermometer. N.Z. No. CG 18256 was broken on April 19 and was replaced by 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.

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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 $V = 2.70 v$. Accordingly, from 1942 January 1, the formula $V = 2.70 v$ has been adopted to modify the velocity recorded by the instrument.

Rain Gauges. During the year 1944 three rain gauges were employed. The gauge No. 1 forms part of the Osler anemometer apparatus and is self-registering, the record being made on the sheet on which the direction and pressure of the wind are recorded. The apparatus is fully described in volumes previous to 1914.

Gauge No. 6 is an 8 inch circular gauge placed with the receiving surface 5 inches above the ground. No. 8 is a newer gauge of the same diameter, but of the modified Snowdon pattern adopted by the Meteorological Office, having its receiving surface 1 foot above the ground. It is fixed about 4 feet north of the standard gauge No. 6 which is read daily at 9^h and 15^h. No. 8 is used as a check on the readings of No. 6 and is normally read at 9^h only. The gauges are also read at midnight on the last day of each calendar month.

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 84 of the Meteorological Results.

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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

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corresponding to the limits "midnight to midnight". The hourly readings for the elements mentioned are measured direct from the traces and deduced 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 52-75). 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 79 and D 80) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pp. D 78 and D 79).

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 77 and D 84, 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.

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It may be understood 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 52-75, 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 53 to D 75, and in the abstract table, page D 77, 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
- 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 . indicates "slight"

A letter repeated indicates "continuous"

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CLOUD FORMS (*)

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

ADDITIONAL SYMBOLS

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

**ROYAL OBSERVATORY, GREENWICH.
ABINGER MAGNETIC STATION.**

**Results of Magnetic
Observations**

1944

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January																									
10° + Tabular Quantities																									
1	9.6	12.5	12.6	13.0	12.4	13.3	12.2	12.1	12.2	12.0	12.6	14.2	16.0	16.3	16.3	18.1	20.0	17.2	14.0	14.0	5.7	9.0	9.1	8.6	
2	9.1	9.6	10.8	10.6	11.2	11.4	11.9	11.7	11.7	12.4	13.2	13.7	15.0	14.6	14.1	14.0	12.9	13.0	13.0	11.6	7.7	10.1	11.0	11.2	
3 *	12.0	11.6	11.5	11.6	11.6	11.5	11.9	11.5	11.5	12.3	12.9	13.9	14.5	13.6	12.9	12.5	12.4	12.2	12.1	11.9	11.5	11.2	11.1	10.8	
4 *	10.7	10.9	10.1	9.6	9.5	10.5	11.1	11.7	11.6	12.5	13.9	14.5	14.8	13.9	12.9	13.7	13.3	13.7	12.9	12.8	10.8	11.0	11.2	9.1	
5	9.3	7.7	9.2	10.7	11.5	12.0	11.8	12.1	12.1	13.9	14.2	14.0	14.8	14.0	13.9	13.4	13.0	11.5	9.5	11.7	11.0	8.9	10.2	10.7	
6 *	11.2	11.2	11.5	11.9	11.5	11.8	11.9	11.3	11.2	11.5	12.5	13.2	14.2	14.8	14.2	13.7	13.4	13.0	13.0	12.1	8.7	8.0	8.6	10.4	
7 *	12.2	11.6	11.5	11.1	11.2	11.0	10.7	11.1	11.2	12.6	12.6	12.8	14.1	14.4	13.5	12.6	12.5	12.2	11.2	11.2	10.7	10.7	11.1	11.5	
8	12.1	11.8	11.3	11.7	11.9	11.4	11.8	11.2	11.5	12.5	13.8	14.8	16.2	15.8	14.9	13.7	12.5	12.8	11.7	10.3	8.8	10.7	10.7	9.9	11.3
9	10.9	11.4	11.3	10.2	11.4	11.7	11.7	11.5	11.7	12.3	13.2	12.7	13.6	13.7	13.3	13.9	13.5	11.8	12.3	11.6	11.3	10.7	10.3	6.4	
10	10.9	11.8	11.9	12.4	12.3	12.0	12.1	12.2	12.3	13.2	13.4	13.6	14.3	14.9	13.9	14.0	12.3	12.7	12.4	11.8	8.9	9.7	-1.7	-2.2	
11 **	8.7	8.9	12.1	9.7	10.3	13.4	12.9	13.3	13.2	13.5	13.3	13.3	13.5	13.3	13.6	13.7	9.9	-8.7	1.1	9.3	5.4	6.8	7.6	9.8	
12	7.8	10.7	12.2	11.6	10.9	14.3	15.1	15.2	14.3	13.7	13.5	13.8	12.6	14.0	12.6	5.8	13.3	11.9	7.2	9.8	10.1	9.3	9.9	7.2	
13 **	8.4	9.7	11.1	9.4	11.3	12.4	12.8	15.0	13.6	14.0	14.3	12.9	13.3	14.8	9.8	12.7	12.2	11.1	4.5	0.4	5.4	9.8	7.7	8.7	
14 **	9.0	12.7	14.5	13.0	11.9	13.3	14.5	14.4	13.8	14.5	14.7	13.7	15.4	11.9	14.8	10.7	8.7	-1.7	6.6	11.6	8.3	6.7	8.3	9.5	
15 **	15.3	12.0	15.3	14.3	9.3	12.3	12.4	12.8	11.7	12.4	13.3	13.7	13.8	14.1	12.7	8.2	10.3	12.5	5.3	-1.3	0.0	2.6	3.7	5.7	
16 **	9.6	14.8	9.3	9.7	11.7	12.3	12.7	11.4	12.4	12.3	11.3	12.7	14.3	13.4	8.3	7.9	7.5	2.9	11.7	11.6	8.7	7.8	6.7	8.9	
17	10.8	11.6	12.2	11.4	12.6	16.1	13.4	14.7	12.9	13.0	14.8	14.7	13.2	13.8	8.5	11.0	12.3	9.4	10.3	7.7	1.9	5.8	9.3	11.2	
18	10.7	11.0	11.9	12.8	14.0	13.0	12.7	12.7	12.8	14.3	17.1	14.8	13.8	11.4	12.5	9.1	3.2	10.7	11.9	4.3	5.4	7.0	9.3	11.3	
19	12.3	11.3	15.3	14.7	11.9	12.3	12.3	12.8	10.9	11.9	11.9	12.8	13.7	13.3	13.9	12.9	12.3	10.3	10.9	9.3	11.0	10.0	10.2	9.8	
20	8.7	10.3	11.9	12.3	12.3	12.5	12.4	12.3	11.5	11.3	12.6	14.7	15.2	15.3	13.9	13.1	11.7	12.3	10.0	9.2	8.3	5.4	5.3	9.7	
21	10.0	12.6	11.4	12.8	11.3	11.7	11.7	10.9	10.8	10.3	11.1	12.9	13.9	13.6	12.4	11.5	11.9	11.4	10.3	9.7	10.7	10.3	10.9	10.4	
22	11.5	8.7	10.4	10.8	11.3	12.0	12.3	11.7	10.8	10.9	11.9	13.2	14.4	14.6	14.3	12.9	12.7	11.7	11.9	10.3	8.3	10.2	10.5	11.0	
23	11.5	12.7	12.7	12.3	11.0	10.8	10.9	10.9	10.3	11.0	11.6	12.3	12.9	13.9	12.8	11.2	10.8	10.8	10.4	10.3	9.6	9.2	10.7		
24	8.7	10.5	11.4	11.7	11.4	11.3	11.3	11.1	11.0	10.5	10.3	11.3	12.5	13.4	14.2	13.6	12.7	11.9	13.8	12.3	11.3	11.1	10.4	11.2	
25	11.3	12.1	12.1	12.3	12.2	12.0	11.6	10.7	10.3	10.3	12.2	13.8	13.8	14.4	14.2	13.8	13.6	12.6	11.5	10.7	10.7	6.3	8.5	10.3	
26	11.3	11.7	11.9	12.2	12.1	11.9	11.7	11.3	10.3	11.0	13.4	13.4	15.6	16.3	14.9	14.4	14.4	14.8	13.8	13.3	8.0	5.5	-1.2	4.9	
27	8.0	9.3	9.9	11.7	9.7	10.1	10.1	10.3	10.2	11.2	12.3	15.0	15.3	14.0	14.0	12.9	12.6	13.2	10.3	8.3	8.7	11.2	9.3	9.4	
28	8.5	8.2	9.9	9.5	10.2	10.3	11.7	11.7	11.3	11.4	13.2	12.1	13.4	14.9	15.3	14.0	14.3	13.8	13.1	12.8	8.3	10.1	9.3	9.3	
29 *	9.8	10.5	10.4	11.3	11.8	12.0	11.7	10.8	10.3	10.7	12.0	13.3	13.3	14.3	14.7	14.9	14.8	15.2	12.6	11.6	10.2	8.3	9.9	10.2	
30 *	10.3	10.3	10.7	11.7	10.3	11.0	11.2	11.1	11.1	11.0	12.3	12.6	13.4	14.7	14.7	14.7	13.7	13.9	13.9	13.7	12.7	11.4	9.6	10.1	10.3
31	10.5	11.3	10.4	10.9	11.5	11.5	12.0	11.3	10.3	10.7	11.3	12.6	13.8	14.8	15.2	14.8	16.3	17.2	15.8	12.3	11.9	8.9	5.8	6.3	
Mean	10.3	11.0	11.6	11.6	11.4	12.0	12.1	12.0	11.6	12.1	12.9	13.5	14.2	14.2	13.4	12.6	12.3	11.2	10.9	10.1	8.7	8.8	8.5	9.1	
Mean *	11.3	11.1	11.1	11.2	10.8	11.2	11.4	11.3	11.4	12.0	12.8	13.4	14.2	14.3	13.6	13.2	13.1	13.0	12.6	12.1	10.6	10.1	10.4	10.4	
Mean **	10.2	11.6	12.5	11.2	10.9	12.7	13.1	13.4	12.9	13.3	13.4	13.3	14.1	14.1	13.5	13.6	11.8	10.6	9.7	3.2	5.8	6.3	5.6	6.7	8.5
February																									
1	7.5	7.7	9.3	10.0	11.3	11.7	11.6	10.9	9.9	9.7	10.5	11.3	13.2	14.9	15.0	14.3	13.9	13.7	13.4	10.9	11.3	11.2	10.3	9.7	
2	10.3	10.3	10.6	10.4	10.2	11.4	10.9	10.8	11.4	12.4	12.1	13.3	13.9	14.3	13.9	13.5	12.8	12.5	11.9	11.8	8.3	7.2	9.2		
3 *	9.8	9.9	10.3	11.3	11.1	11.6	11.4	11.2	11.2	11.8	10.8	13.4	13.7	14.0	13.9	13.4	12.5	12.5	12.1	11.3	10.3	10.8	11.1	11.0	
4	10.7	10.6	11.1	11.3	10.1	10.3	11.3	12.0	11.9	11.8	11.9	11.8	12.7	14.7	14.0	12.7	13.3	12.5	10.7	7					

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
March																										
10° + Tabular Quantities																										
1 *	9.4	9.6	8.7	9.8	8.0	7.4	8.4	9.2	9.0	9.3	10.3	11.5	12.6	13.4	13.0	12.3	11.4	11.7	11.8	11.4	10.9	10.5	10.4	10.4	8.1	
2	6.8	5.1	7.6	8.3	10.4	10.8	9.9	9.2	8.5	8.8	11.1	14.0	15.0	15.4	14.0	13.4	11.5	12.0	11.5	10.4	3.0	8.4	9.0	9.6	9.6	
3 *	9.8	10.4	10.4	10.1	8.4	9.4	9.5	9.5	8.6	8.8	10.8	13.3	14.3	13.8	12.8	11.4	10.8	10.9	10.8	10.5	10.4	9.6	10.4	10.1	10.1	
4	10.5	10.5	9.8	10.9	10.1	9.5	9.8	10.9	11.4	11.5	17.0	16.2	18.3	16.8	14.2	12.9	9.7	10.5	9.5	9.1	7.1	6.5	4.5	6.9	6.9	
5	9.0	9.9	10.4	10.8	10.0	9.4	9.1	8.3	8.2	8.7	10.5	12.3	14.0	14.1	14.8	12.7	13.1	13.4	10.1	10.6	9.5	8.6	7.6	7.6	7.6	
6	8.6	10.8	8.8	13.6	13.0	10.8	10.5	9.8	9.5	10.6	11.5	11.2	13.3	13.1	13.1	11.1	11.4	11.3	3.8	0.6	3.1	6.5	7.5	8.9	8.9	
7 **	10.2	10.2	15.0	12.0	8.2	8.2	9.5	10.1	10.0	9.5	11.3	14.0	13.6	14.7	12.3	2.6	9.9	10.1	8.2	9.7	10.4	9.5	8.1	9.1	9.1	
8	10.0	10.2	9.5	10.5	9.5	11.5	9.8	9.4	8.8	9.6	10.5	13.2	14.1	14.5	14.0	12.7	11.2	9.6	1.1	6.9	9.3	10.0	8.9	9.0	9.0	
9	9.2	13.6	9.7	7.9	10.4	14.2	11.0	10.1	9.4	10.3	11.4	13.9	13.5	14.4	12.5	10.9	7.5	9.4	8.1	5.5	6.2	7.1	8.1	10.5	10.5	
10 **	8.6	9.2	13.1	16.2	13.0	15.9	11.5	11.7	13.3	11.1	10.5	13.6	12.0	16.1	11.6	11.2	13.3	4.8	-3.0	3.1	6.4	4.6	5.1	6.8	6.8	
11	7.2	9.5	9.5	11.9	11.9	13.1	10.8	9.9	9.5	10.0	11.0	12.9	13.2	14.3	14.0	13.0	12.0	11.3	5.5	2.5	8.9	10.0	9.8	9.3	9.3	
12	8.4	10.4	8.0	8.6	12.5	13.3	12.1	9.5	9.2	10.0	11.1	12.5	12.5	13.2	14.5	12.0	10.3	9.5	8.5	3.6	6.1	6.5	9.1	7.4	7.4	
13	12.2	10.0	14.8	11.5	10.8	10.5	9.7	10.5	9.6	9.9	10.6	12.5	14.6	13.1	12.5	11.2	9.3	11.9	11.6	10.5	10.0	9.4	10.0	9.9	9.9	
14	10.0	9.2	10.7	7.0	9.5	11.2	11.1	11.4	9.4	10.5	10.0	12.9	12.9	13.5	12.5	11.6	10.9	10.1	8.9	5.1	9.9	9.9	9.5	9.0	9.0	
15 *	9.6	9.7	10.1	10.5	11.0	12.0	11.0	9.2	7.5	8.0	9.2	11.5	13.6	14.5	14.0	12.9	12.1	11.5	11.2	10.3	9.0	8.3	6.1	7.6	7.6	
16	8.1	8.4	7.5	11.1	11.8	9.9	9.8	8.5	7.8	8.6	10.5	13.5	14.0	13.9	14.4	13.5	11.9	11.9	11.5	10.7	10.4	9.8	9.8	9.8	9.8	
17 *	8.8	9.4	9.9	10.0	9.5	9.8	9.8	8.7	7.7	7.9	9.7	12.3	13.9	14.4	14.0	13.3	12.4	11.2	10.4	10.2	10.4	9.9	10.3	9.9	9.9	
18	9.7	9.8	9.8	9.8	10.0	9.8	9.5	8.5	7.4	7.7	9.5	12.8	14.9	15.6	15.1	13.2	12.4	11.4	11.2	11.2	10.4	3.3	3.8	-4.1	-4.1	
19 **	-6.2	-2.2	4.3	-0.6	4.7	7.1	7.4	6.4	6.3	6.8	10.9	12.5	13.5	15.4	14.7	12.2	11.1	10.5	9.9	10.0	1.4	1.4	2.7	7.0	7.0	
20	6.4	7.1	8.9	9.3	8.5	8.6	8.4	8.4	9.1	10.5	11.3	12.2	14.0	14.2	13.4	12.4	11.1	10.9	8.4	8.3	8.4	8.4	8.4	7.8	7.8	
21	7.5	8.3	7.3	7.7	9.3	7.4	7.7	6.8	6.3	6.7	8.4	11.0	13.7	13.9	13.4	12.3	11.9	10.7	9.9	8.2	8.0	5.7	7.3	7.3	7.3	
22	9.2	8.3	11.1	9.9	5.7	6.6	7.7	5.9	5.7	7.4	10.3	12.8	17.0	16.2	14.4	14.3	13.8	12.4	11.3	10.9	10.9	10.3	9.0	9.6	9.6	9.6
23	8.7	9.4	9.1	9.2	9.3	9.3	10.3	8.4	6.8	8.0	9.8	12.3	13.8	14.7	14.6	12.7	11.4	10.6	7.6	7.6	8.9	7.7	6.5	8.7	8.7	
24 *	9.8	9.8	9.6	10.0	9.7	9.0	8.2	6.7	5.9	7.2	10.1	13.0	14.8	15.1	14.7	12.3	11.3	10.8	10.3	10.2	9.9	9.7	10.3	9.9	9.9	
25	10.3	9.8	10.0	9.9	9.8	10.2	9.3	7.0	6.8	8.3	10.3	12.3	14.7	16.2	16.7	15.7	15.7	15.3	12.1	9.7	10.8	9.3	8.2	7.2	7.2	7.2
26 **	9.1	8.1	8.4	8.0	6.4	8.4	6.2	5.8	9.1	10.5	9.8	14.9	16.0	16.8	14.4	14.1	11.1	10.8	11.4	11.5	11.2	10.5	10.4	9.4	9.4	
27 **	15.0	3.4	6.0	5.3	20.4	13.4	10.8	12.9	9.0	8.8	9.0	10.0	13.6	13.5	13.4	9.4	8.9	8.5	5.9	8.6	8.8	8.4	8.4	8.1	8.1	
28	8.8	8.5	8.5	9.3	9.6	10.0	9.4	7.0	6.4	8.1	9.4	11.4	12.5	13.3	13.4	11.5	11.5	11.4	9.9	9.3	9.0	4.5	2.7	3.2	3.2	
29	4.8	5.4	-0.9	5.3	5.7	13.0	12.4	9.3	9.0	10.3	10.7	13.4	14.4	16.1	15.4	14.5	13.1	11.4	8.8	8.0	6.0	6.1	6.2	7.3	7.3	7.3
30	5.6	6.5	5.3	6.5	6.1	6.7	8.2	9.4	8.4	8.2	8.8	10.4	12.8	13.4	13.7	13.4	12.2	12.2	7.1	7.4	7.6	9.5	6.8	6.8	6.8	
31	4.4	5.4	5.4	7.4	9.4	9.8	8.5	7.6	7.3	9.0	10.7	14.2	16.3	14.7	13.8	12.1	11.0	10.0	9.7	9.8	9.4	7.4	6.8	7.6	7.6	
Mean	8.4	8.5	8.9	9.3	9.8	10.2	9.6	8.9	8.4	9.1	10.5	12.7	14.1	14.6	13.9	12.3	11.5	10.8	8.8	8.5	8.3	8.1	7.5	7.9	7.9	
Mean *	9.5	9.8	9.7	10.1	9.3	9.5	9.4	8.7	7.7	8.2	10.0	12.3	13.8	14.2	13.7	12.4	11.6	11.2	10.9	10.5	10.1	9.6	9.5	9.1	9.1	
Mean **	7.3	5.7	9.4	8.2	10.5	10.6	9.1	9.4	9.5	9.3	10.3	13.0	13.7	15.3	13.3	9.9	10.9	8.9	6.5	8.6	7.6	6.9	6.9	8.1	8.1	
April																										
10° + Tabular Quantities																										
1	8.0	9.8	9.7	8.3	7.7	8.3	7.8	6.7	6.3	8.0	9.7	12.3	15.3	15.9	14.8	13.6	12.8	12.2	11.0	3.3	0.7	2.7	7.0	6.0	6.0	
2 **	2.2	3.1	-2.3	-1.6	3.3	4.8	8.3	26.6	19.3	15.3	25.8	21.3	19.3	17.5	11.8	10.3	10.6	11.8	8.8	0.3	5.4	8.1	7.3	6.9	6.9	6.9
3	9.1	11.4	14.3	10.4	11.9	9.2	8.4	6.6	6.3	6.3	8.2	10.8	12.9	14.3	14.4	13.3										

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
May																									
10° + Tabular Quantities																									
1 **	6.1	7.8	5.8	5.1	5.1	5.1	7.2	6.7	7.6	10.1	13.4	15.1	16.5	19.7	18.5	13.8	13.7	7.3	10.0	3.6	7.6	7.9	4.0	5.0	
2 **	8.7	12.9	9.5	7.7	7.5	12.8	12.8	8.7	7.6	9.0	12.0	12.7	14.1	12.1	12.5	13.2	9.9	9.3	9.7	9.0	7.9	8.6	7.7	9.1	
3	9.6	8.8	10.3	10.0	9.7	8.5	5.5	4.6	4.7	6.6	9.7	11.8	14.2	13.2	12.3	10.2	9.1	8.6	8.1	8.6	8.6	8.2	8.7	8.6	
4 **	8.7	8.3	7.7	6.9	6.4	6.2	5.6	4.7	4.5	6.1	9.8	12.5	14.8	14.6	13.3	13.3	13.3	12.4	8.5	7.8	0.9	4.4	8.3	8.8	
5	8.4	7.9	5.6	5.3	5.0	5.2	5.1	4.0	4.4	5.4	7.9	9.5	11.8	12.7	9.9	11.9	11.4	10.8	7.9	8.7	8.3	9.4	9.3	8.5	
6 **	12.2	9.2	6.5	5.9	5.9	5.4	4.6	5.0	6.5	8.5	11.5	13.5	13.1	14.0	12.5	9.1	10.3	9.0	5.1	6.6	9.1	8.8	8.8	8.2	
7	9.0	8.2	9.4	9.1	8.1	7.6	9.6	10.7	7.9	8.4	11.0	13.1	13.3	12.9	12.0	10.0	8.4	8.0	9.3	7.7	8.5	5.9	7.7	8.8	
8	9.8	11.8	10.4	7.1	5.5	6.0	4.6	4.6	5.1	7.2	9.7	12.6	14.8	13.9	12.5	11.4	10.3	9.7	8.8	8.2	7.4	6.5	8.5	8.5	
9	8.5	8.2	8.3	7.9	7.2	6.1	5.5	5.1	5.2	6.4	9.1	12.1	14.1	14.5	13.6	12.6	11.4	10.1	8.6	5.3	6.4	7.6	8.1	8.1	
10	7.8	7.5	10.5	8.1	6.9	6.1	5.1	4.5	4.5	5.6	8.5	11.9	13.4	13.9	13.4	12.5	11.3	10.3	9.6	9.5	9.1	8.5	6.5	8.0	
11	5.4	6.2	6.7	7.1	6.9	5.2	4.4	4.6	5.8	6.5	8.5	11.2	12.9	12.9	12.7	12.6	11.9	11.3	10.7	10.3	9.7	8.5	7.4	7.9	
12	8.0	6.5	5.4	5.5	5.6	4.9	4.9	5.4	6.0	6.5	8.5	10.8	12.1	12.4	12.6	12.1	12.0	11.5	9.9	8.1	9.6	8.9	6.7	7.1	
13 *	7.0	7.1	7.0	6.9	6.8	6.0	5.7	5.5	5.5	6.0	8.2	10.6	12.5	12.9	12.9	12.9	13.0	13.1	11.8	10.6	10.3	9.5	8.4	8.5	8.9
14	8.5	7.8	7.9	7.3	5.9	5.4	4.9	5.0	4.5	5.2	6.5	8.1	10.0	11.4	11.6	11.0	9.9	9.1	8.5	8.5	8.2	7.9	8.1	7.9	
15	9.1	6.2	4.4	4.8	3.1	3.9	6.1	6.2	6.1	6.5	8.8	11.4	12.5	12.9	12.5	11.5	10.4	9.3	8.1	7.9	8.0	8.2	8.1	8.0	
16 *	8.1	7.9	7.6	7.5	6.9	5.5	5.5	4.6	5.0	6.6	9.1	11.3	12.7	13.5	12.6	11.4	10.0	9.2	8.1	8.1	8.5	8.5	8.1	7.9	
17	8.5	8.2	6.6	6.2	5.6	5.3	4.5	4.3	5.1	7.4	9.5	11.9	13.3	14.0	12.5	11.9	11.1	10.9	10.0	9.9	9.8	9.5	8.1	7.2	
18 *	7.0	7.7	7.0	6.5	5.5	4.7	4.7	5.9	7.5	9.9	12.2	13.5	13.4	14.2	12.6	11.9	11.4	10.6	10.2	10.1	10.3	10.2	9.9	8.9	9.0
19	9.4	8.9	7.4	6.1	5.0	3.6	4.0	4.1	5.9	9.0	12.1	14.2	14.9	14.8	13.2	12.1	9.8	8.9	7.6	8.9	9.7	9.9	9.2	9.3	
20 *	9.0	9.1	8.8	8.0	7.1	4.9	4.1	4.5	5.5	8.1	11.2	13.2	14.9	15.5	14.5	12.5	10.3	8.8	8.4	8.6	8.7	9.1	9.0	8.7	
21 *	9.0	8.5	8.5	7.7	6.3	4.1	3.1	2.6	2.8	4.5	7.8	10.8	13.6	14.3	14.1	13.0	10.6	8.5	7.9	8.1	8.5	8.5	8.1	6.5	
22	7.8	8.5	8.3	7.5	6.0	4.1	2.6	2.5	2.6	4.9	8.0	11.5	14.0	14.9	14.8	13.5	12.4	10.5	9.5	9.6	8.5	7.0	8.2	8.4	
23	8.1	7.7	7.5	7.1	7.1	4.4	2.5	2.6	3.9	7.1	10.8	13.9	15.6	15.5	16.7	15.9	13.6	11.6	11.0	9.5	8.6	8.5	8.3	8.0	
24	5.9	4.6	4.6	5.1	3.8	4.3	4.1	5.8	11.3	11.9	12.4	14.0	14.9	14.6	14.8	14.9	14.9	14.1	12.5	11.2	9.7	6.6	6.1	7.9	7.5
25	7.5	7.3	7.3	7.7	8.9	8.0	6.1	5.0	5.2	6.9	10.1	13.3	14.9	15.5	14.9	12.9	12.0	10.5	9.3	8.9	9.1	9.1	8.9	8.7	
26	8.4	8.4	6.8	5.9	6.1	5.3	4.4	3.4	3.0	4.2	7.4	9.9	12.3	13.2	13.2	12.0	10.8	9.4	8.4	8.6	8.4	8.3	8.0		
27	7.9	8.5	9.1	6.4	5.1	6.6	5.8	4.4	4.4	6.3	7.8	11.9	13.8	13.0	12.8	12.8	11.7	11.1	10.4	9.4	9.2	8.9	8.7	8.1	8.0
28	7.8	7.6	7.8	7.4	5.9	4.9	4.8	5.3	6.2	7.0	8.8	10.6	11.3	11.7	12.4	11.5	10.8	10.1	10.3	10.3	9.5	9.0	8.8	8.4	
29 **	4.2	5.9	6.6	6.2	7.2	5.4	6.2	7.1	6.3	8.1	9.5	11.4	13.3	14.2	13.5	13.4	12.3	8.3	10.3	10.3	7.8	5.9	5.9	8.3	
30	6.1	4.7	5.6	6.6	7.0	5.4	4.8	6.6	5.6	6.0	8.4	10.0	10.5	12.3	10.7	10.7	10.6	10.0	9.8	9.6	9.1	8.9	8.9	8.4	
31	8.3	7.9	8.4	8.3	7.2	6.4	6.3	4.8	5.5	7.8	10.4	12.2	12.3	11.4	11.3	11.5	10.8	8.7	9.6	10.6	10.5	8.3	7.3	5.9	
Mean	8.1	7.9	7.5	6.9	6.3	5.7	5.3	5.1	5.5	7.1	9.6	12.0	13.4	13.7	13.1	12.3	11.2	9.9	9.2	8.7	8.4	8.2	8.0	8.1	
Mean *	8.0	8.1	7.8	7.3	6.5	5.0	4.6	4.6	5.3	7.0	9.7	11.9	13.4	13.8	13.2	12.3	10.9	9.7	9.0	9.1	9.1	8.9	8.5	8.2	
Mean **	8.0	8.8	7.2	6.4	6.4	7.0	7.3	6.4	6.5	8.4	11.2	13.0	14.4	14.9	14.1	12.6	11.9	9.3	8.7	7.5	6.7	7.1	6.9	7.9	
June																									
10° + Tabular Quantities																									
1	7.6	9.5	8.8	6.8	5.7	3.9	2.3	1.8	3.0	5.5	8.3	11.4	12.9	12.4	11.9	10.7	8.9	8.7	7.1	8.1	8.7	8.9	8.9	9.0	
2	9.0	8.7	8.3	7.6	5.9	3.7	2.5	3.1	4.6	5.5	9.8	13.3	14.8	14.3	12.8	11.0	10.1	8.8	8.1	7.8	6.8	7.9	8.3	8.4	
3 *	8.3	8.0	7.8	7.2	6.9	6.0	5.9	5.8	5.8	6.7	9.0	12.5	14.0	13.6	12.8	10.9	9.4	8.9	8.9	8.8	8.4	8.7	8.7		
4	8.7	8.2	8.1	7.6	6.3	4.6	3.3	2.9	3.9	6.0	9.2	11.4	13.3	13.8	12.4	11.1	10.0	8.9	9.0	9.4	9.8	9.4	6.6	5.7	
5	7.3	6.9	7.2	5.4	5.1	4.3	4.0	4.8	5.9	8.4	11.8	13.8	14.3	14.4	12.8	12.1	12.3	11.8	10.0	9.4	7.8	8.5</			

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
July																									
10° + Tabular Quantities																									
1	6.8	5.8	8.3	5.3	3.7	3.2	3.8	4.2	4.0	4.2	6.7	10.2	13.0	14.6	13.3	10.7	8.8	9.7	10.3	9.5	8.8	7.9	8.2	7.4	
2	7.3	8.0	8.7	9.3	7.5	5.9	4.7	2.1	1.7	4.3	8.3	11.3	12.9	13.3	13.4	12.7	11.2	10.1	9.7	9.2	8.8	8.7	8.2	7.8	
3	7.2	7.6	7.2	7.1	5.6	4.2	3.8	3.1	3.9	6.8	9.8	13.9	15.8	16.3	13.9	11.3	9.8	8.7	8.2	8.1	7.4	8.3	8.2	6.8	
4	6.6	5.6	6.0	6.2	5.2	2.9	3.4	3.6	4.3	6.3	9.5	11.9	13.3	14.2	13.3	11.6	10.6	9.8	9.3	8.6	7.6	8.2	8.2	8.4	
5	8.3	9.8	8.7	6.8	5.2	2.1	1.7	2.8	4.7	6.8	8.4	12.2	13.8	15.2	16.0	14.6	12.7	10.7	8.1	7.9	7.6	7.6	7.8	7.9	
6	7.9	7.4	7.3	6.7	6.1	4.2	3.6	3.3	3.2	5.3	8.7	13.2	16.3	16.4	16.2	14.2	11.1	8.9	7.9	7.3	7.7	7.9	9.2	6.0	
7	6.3	8.0	7.6	3.6	1.9	1.6	0.9	0.7	1.2	3.1	5.9	9.8	13.2	16.0	15.0	13.6	10.9	9.2	8.4	7.8	7.2	6.7	7.0	7.1	
8	7.1	7.1	6.7	6.5	5.0	3.5	2.5	2.0	2.2	4.1	8.1	10.7	12.7	14.2	14.0	12.8	11.6	9.7	7.7	8.1	8.1	7.8	8.1	8.2	
9 **	8.0	11.1	6.3	6.5	6.7	6.5	2.3	1.4	2.5	5.1	7.8	10.9	13.2	15.9	15.8	13.6	11.5	10.5	9.5	8.1	7.4	7.1	6.5	5.5	
10	5.2	6.3	6.5	6.7	5.7	5.1	3.6	3.5	3.5	4.8	8.1	11.5	13.7	16.1	17.7	16.7	13.8	12.6	10.1	9.1	6.1	7.1	7.1	7.1	
11	6.6	6.5	7.7	6.2	5.1	6.5	6.1	5.7	5.2	5.5	8.4	10.6	12.2	13.1	13.5	12.7	11.2	10.1	8.9	8.2	7.8	7.7	7.8	7.3	
12	7.0	6.4	6.4	6.2	4.7	3.6	2.7	2.2	2.2	3.5	6.1	8.6	11.5	12.2	12.2	12.0	12.0	10.2	10.1	9.9	9.5	8.9	7.7	7.7	
13	7.8	5.4	4.6	4.5	4.3	3.5	3.7	4.6	5.0	6.0	7.3	9.0	10.8	12.4	13.2	11.9	11.0	10.6	9.7	8.7	8.4	8.4	8.3	7.2	
14	6.9	6.7	6.2	5.2	4.1	3.1	3.3	4.6	4.6	6.0	8.4	8.7	11.0	12.5	12.8	12.0	11.4	10.7	9.7	9.5	9.0	9.0	7.7	6.7	
15 **	4.7	6.4	8.2	7.4	5.0	3.4	5.1	7.1	6.5	9.2	12.4	13.6	13.6	12.4	11.0	9.9	8.4	7.2	6.4	6.1	7.5	8.0	7.4		
16	6.5	5.9	6.4	5.2	3.6	1.7	1.9	3.0	3.3	6.3	8.9	11.3	13.3	13.6	13.6	13.1	12.1	10.4	6.9	7.3	5.1	6.4	7.9	7.9	
17	7.2	6.9	6.5	7.4	8.8	7.6	5.4	4.3	3.7	5.0	8.3	11.0	13.1	14.9	14.3	12.0	10.3	8.9	7.6	7.1	7.4	7.5	6.9	7.3	
18	8.0	7.9	7.9	5.9	5.3	4.2	3.4	3.1	3.9	5.5	7.9	10.9	12.9	14.3	14.3	12.4	10.6	9.4	7.7	5.5	7.6	7.9	7.1	7.9	
19 **	2.8	2.0	5.1	5.3	4.5	4.9	5.4	4.9	4.4	4.6	6.3	10.4	13.3	14.3	12.8	12.5	9.9	8.5	8.7	8.8	9.0	8.5	7.9	9.9	
20 **	6.6	5.5	6.9	6.9	3.7	3.3	2.4	3.9	6.0	7.1	9.3	13.0	14.9	15.3	13.9	11.3	9.7	8.3	7.8	7.6	6.7	7.8	7.8		
21 **	7.2	6.9	6.0	4.9	5.3	3.8	3.9	5.1	5.4	7.0	8.9	10.6	11.7	11.6	11.9	11.8	11.8	10.0	8.5	7.6	6.7	7.5	5.9	6.4	
22	6.4	7.9	5.8	5.3	4.3	2.8	2.6	2.4	3.5	5.3	7.5	8.9	10.2	11.3	10.8	9.9	8.9	7.4	6.4	8.7	9.0	8.9	7.5	6.7	
23	7.2	6.0	5.5	5.0	4.7	3.7	3.4	4.1	5.3	7.1	8.9	10.8	11.9	12.3	11.6	10.5	9.3	9.6	9.0	8.3	7.4	7.3	7.9	7.3	
24 *	7.2	6.5	6.4	5.6	5.0	3.8	2.4	2.5	2.2	3.5	5.9	8.0	9.7	10.9	10.9	10.4	9.9	9.5	8.6	8.7	8.9	8.5	7.9	7.3	
25 *	6.7	6.3	6.5	6.6	7.3	6.2	5.0	3.7	3.4	4.6	7.1	9.7	11.4	12.7	13.0	12.9	11.5	10.3	8.9	7.9	7.9	7.5	7.2	6.9	
31	6.2	6.9	9.1	6.7	3.5	3.2	3.4	3.0	3.8	5.8	7.9	11.2	12.2	12.4	11.5	10.8	9.4	8.1	7.8	7.8	6.7	6.8	6.2	4.8	
Mean	6.6	6.6	6.7	6.1	5.1	4.0	3.5	3.5	3.8	5.3	7.9	10.6	12.6	13.5	13.3	12.2	10.8	9.7	8.7	8.3	7.8	7.6	7.3	7.1	
Mean *	6.4	6.2	6.2	5.9	5.7	4.6	3.6	3.1	3.2	4.3	6.6	9.0	10.8	11.7	12.3	12.0	11.2	10.5	9.6	9.1	8.6	7.7	6.4	6.4	
Mean **	5.9	6.4	6.5	6.2	5.0	4.4	3.8	4.5	5.0	6.1	8.3	11.5	13.3	14.1	13.4	12.0	10.2	8.8	8.2	7.5	7.3	7.1	7.3	7.6	
August																									
10° + Tabular Quantities																									
1	5.8	5.3	5.7	5.2	3.4	3.3	3.6	4.2	5.8	7.2	8.2	11.3	12.4	11.9	11.8	10.9	9.8	9.2	8.4	8.4	7.9	7.8	7.2	7.1	
2 **	6.8	6.8	6.5	5.1	4.7	4.2	5.3	4.8	4.7	5.4	7.4	10.1	12.0	12.6	11.8	10.1	9.7	8.8	10.4	8.8	6.3	3.9	0.5	-0.6	
3 **	1.8	-3.6	4.8	7.6	-1.5	-1.6	2.0	5.8	8.3	7.2	9.8	11.8	13.7	11.6	10.4	9.1	8.2	7.7	7.4	5.4	6.0	4.5	4.3	5.9	
4	5.3	6.0	6.0	5.3	3.8	2.9	2.7	2.3	2.8	3.8	6.2	9.2	12.2	12.2	10.8	9.4	8.4	7.3	7.0	7.4	6.8	6.3	6.2	6.4	
5	7.3	7.3	6.8	5.8	5.9	4.4	3.0	2.5	3.3	5.2	8.2	11.5	13.8	13.6	13.2	11.8	10.5	9.3	9.2	7.9	6.4	1.6	5.9	5.6	
6	5.0	5.4	5.2	6.8	4.8	2.4	1.9	2.1	3.1	6.5	8.7	11.1	12.1	13.0	11.8	10.2	9.2	8.4	7.8	7.8	7.4	6.9	6.2	6.4	
7	6.6	5.7	6.8	6.4	5.4	4.2	4.0	3.3	3.4	5.1	7.2	10.3	11.8	13.6	13.0	11.6	11.1	10.1	8.8	8.5	8.2	7.6	6.7	5.2	
8	5.7	6.1	6.1	5.7	4.7	3.0	3.7	4.6	5.2	5.1	6.4	8.5	11.3	13.7	14.7	14.1	11.7	10.6	8.9	8.3	7.5	7.1	6.9	6.6	
9	5.6	6.6	5.0	5.1	4.0	4.0	4.0	2.9	3.0	3.7	5.7	8.3	11.6	12.9	13.2	13.0	11.6	9.2	9.2	8.8	8.8	8.2	7.5	6.9	
10	6.6	5.6	5.3	4.6	4.1	4.0	5.0	6.5	6.1	7.1	7.3	9.1	10.0	11.8	14.2										

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
10° + Tabular Quantities																									
September																									
1	2.8	6.8	3.7	2.3	3.0	3.1	2.9	2.9	2.5	4.6	7.3	10.6	13.0	11.4	10.2	8.8	7.4	6.0	5.7	6.5	6.3	5.0	6.0	5.4	
2 **	2.4	1.9	1.6	2.5	1.6	4.7	7.9	7.2	5.5	7.6	10.6	13.6	14.8	14.5	13.3	11.6	7.7	3.3	2.6	2.6	5.0	3.7	4.3	1.2	
3	2.4	4.6	4.7	4.9	4.2	3.6	3.0	2.7	3.9	5.8	9.8	11.5	14.2	14.5	12.6	10.7	8.2	7.1	6.6	6.3	5.6	5.7	6.0	5.8	
4	5.6	4.7	5.4	3.9	4.6	3.7	3.1	2.6	2.7	4.8	7.6	10.4	11.7	12.6	11.2	10.2	9.0	8.0	8.0	5.2	0.9	-1.6	-0.5	1.9	
5	3.7	1.3	3.6	4.1	4.1	3.2	3.2	1.8	1.9	3.7	6.8	10.1	11.3	11.5	10.4	9.3	7.5	6.6	6.5	6.6	6.0	5.6	5.4	4.2	
6	5.6	5.9	5.6	5.5	5.3	5.1	4.6	4.6	4.2	5.8	8.6	11.7	13.2	13.0	11.7	10.7	10.0	9.1	9.0	9.0	7.7	6.7	5.0	4.0	
7	5.4	5.5	5.7	5.1	4.7	5.3	4.9	3.6	4.3	5.3	7.7	10.1	12.0	11.8	11.1	9.7	7.7	6.6	6.3	6.6	6.2	6.1	5.8	5.7	
8	5.2	5.3	5.3	5.1	4.7	4.6	4.1	3.2	3.4	4.9	6.7	9.6	12.7	13.8	13.3	12.5	10.2	8.4	7.2	5.8	1.7	0.3	1.6	4.7	
9 *	7.3	5.6	5.1	4.2	4.6	4.7	3.7	2.8	2.8	3.8	7.2	9.8	11.7	12.1	11.1	9.9	8.2	7.1	6.4	6.2	4.7	6.6	5.6	5.2	
10	4.7	3.8	4.5	3.7	2.8	3.4	3.4	3.3	3.0	3.6	5.3	8.7	10.4	11.6	11.1	9.3	8.0	8.2	7.7	7.1	6.3	6.6	4.6	4.8	
11	5.6	5.2	5.2	4.8	4.7	3.9	3.3	3.4	4.0	5.2	8.2	10.6	11.7	11.3	10.3	9.0	8.2	7.4	6.8	6.8	6.3	2.9	4.1	5.7	
12	4.2	4.7	5.9	3.7	3.4	3.8	3.4	3.7	3.8	5.9	7.8	10.8	12.5	11.2	10.2	8.7	7.2	6.9	5.9	5.4	5.8	4.6	5.4	6.8	
13	5.7	4.9	5.2	5.2	5.6	5.2	4.2	3.3	3.1	4.5	7.1	9.3	10.2	9.8	9.2	8.2	7.7	5.8	7.4	7.8	7.5	6.5	1.8	2.8	
14	3.5	4.2	7.8	2.8	4.6	3.7	3.8	2.8	3.1	3.8	6.2	8.7	10.4	11.8	10.8	9.2	8.8	8.2	7.8	8.1	7.3	6.8	6.0	5.4	
15 *	4.1	4.9	4.2	4.6	5.6	5.6	5.1	4.4	4.5	6.3	8.7	11.3	11.6	10.8	8.9	7.5	6.5	6.4	6.8	6.8	6.2	6.3	6.0	6.3	
16 *	6.3	6.0	5.9	4.3	4.9	3.9	3.5	3.8	4.1	5.1	7.6	9.9	11.9	11.0	9.7	8.1	6.9	6.3	6.0	6.1	5.3	6.0	6.0	5.9	
17 *	5.4	5.0	4.9	4.5	4.6	4.3	3.5	2.9	3.9	5.9	8.1	9.1	10.4	9.8	9.2	9.1	8.3	7.9	7.1	6.9	6.8	5.9	5.7		
18	4.4	5.5	2.9	3.5	5.1	6.3	4.4	4.7	5.3	6.4	8.9	10.7	10.5	9.7	7.9	7.9	6.9	6.4	5.1	4.4	4.9	4.6	4.2		
19 *	4.9	4.8	5.4	5.4	5.3	5.3	4.0	2.9	2.8	3.9	5.9	7.9	9.2	9.9	9.9	8.9	7.9	7.3	6.8	6.5	6.2	5.8	5.5	5.4	
20	5.1	5.4	5.5	5.4	5.3	4.9	4.0	3.0	2.7	3.5	6.8	10.0	12.1	12.5	12.1	10.8	9.0	9.4	9.9	8.4	8.3	6.7	3.5	-4.2	
21 **	1.9	-1.2	7.9	2.9	1.9	2.4	1.9	3.5	3.9	5.4	5.5	8.5	11.0	11.3	11.0	9.7	8.3	8.3	7.3	5.7	5.8	5.5	5.4	5.7	
22	5.9	4.9	3.7	4.4	4.5	5.4	5.2	3.9	2.9	2.9	4.4	7.5	9.9	10.9	11.0	10.7	9.5	8.4	8.3	1.4	4.0	0.9	-3.1	-2.7	
23	-1.3	0.9	4.3	7.4	6.1	5.6	4.6	3.6	3.8	4.2	6.4	9.0	11.4	12.4	11.0	9.9	8.5	8.5	8.7	8.4	7.4	1.4	-3.1	-1.1	
24 **	0.5	0.1	2.3	0.7	3.6	3.1	2.7	2.3	3.0	3.5	5.9	8.5	12.4	11.8	8.6	8.4	7.9	7.0	6.4	3.9	3.9	3.3	1.2	2.4	
25	4.0	7.8	6.8	5.8	4.8	5.3	4.4	3.3	3.2	4.3	6.4	9.9	10.5	10.8	10.3	8.6	8.2	7.2	6.1	0.5	3.2	2.9	5.5	5.5	
26	8.6	7.4	3.9	4.0	3.9	4.2	4.2	3.2	2.8	4.3	6.3	10.6	11.5	11.9	12.2	10.5	8.6	7.5	6.6	6.3	5.5	0.9	2.5	5.4	
27 **	5.4	5.3	5.5	5.3	3.9	4.0	4.1	2.8	2.5	3.5	6.1	10.5	12.3	11.8	10.6	8.9	7.8	5.9	4.0	3.5	0.2	1.8	5.0	5.3	
28	5.8	5.1	5.3	6.3	4.6	3.9	3.3	2.2	1.9	3.1	5.6	8.5	10.0	10.0	9.4	7.4	6.6	6.0	4.6	5.7	5.3	4.7	5.3	5.6	
29	5.2	5.9	5.3	5.3	6.6	5.6	3.9	2.9	2.6	2.9	4.2	6.7	9.2	11.1	10.3	8.9	7.9	6.8	6.6	6.3	2.8	1.5	4.7	4.9	
30 **	4.8	4.8	4.4	4.5	4.4	4.9	4.5	3.1	2.8	3.4	4.9	8.9	10.9	12.9	15.9	5.6	9.5	8.9	7.5	-3.9	2.6	4.1	2.5	0.1	
Mean	4.5	4.6	4.9	4.4	4.4	4.4	4.0	3.3	3.3	4.5	6.8	9.7	11.5	11.7	10.9	9.3	8.2	7.3	6.8	5.6	5.2	4.3	4.0	3.9	
Mean *	5.6	5.3	5.1	4.6	5.0	4.8	4.0	3.4	3.4	4.6	7.1	9.4	10.7	10.8	9.9	8.7	7.7	7.1	6.8	6.5	5.9	6.3	5.8	5.7	
Mean **	3.0	2.2	4.3	3.2	3.1	3.8	4.2	3.8	3.5	4.7	6.6	10.0	12.3	12.5	11.9	8.8	8.2	6.7	5.6	2.4	3.5	3.7	3.7	2.9	
October																									
1 **	0.9	1.4	3.3	4.0	4.5	5.4	4.5	3.9	3.0	4.5	7.2	10.4	8.5	9.6	10.9	10.0	7.9	2.9	5.6	7.2	1.9	5.8	2.3	3.2	
2	5.9	5.9	5.0	4.6	4.7	4.8	3.9	3.0	2.5	3.1	4.9	8.9	8.3	8.5	8.0	7.6	7.0	7.3	5.9	4.4	1.9	2.3	1.8	1.1	
3	4.1	6.9	5.4	4.0	6.7	6.8	5.2	2.4	1.4	1.6	5.3	9.2	12.4	11.5	10.3	6.5	3.2	5.5	6.0	4.5	-1.2	0.6	3.5	0.5	
4	4.9	4.9	5.6	4.8	4.4	4.8	3.7	2.6	2.5	4.9	9.0	11.6	12.3	11.3	9.4	8.4	7.3	7.0	5.8	1.9	3.5	5.1	5.3		
5 *	5.7	6.4	6.3	5.3	5.0	4.9	3.6	2.4	1.6	2.9	6.8	10.4	11.9	10.9	10.3	8.9	7.3	7.2	7.0	6.4	6.0	5.2	5.4	5.6	
6	5.2	5.9	5.9	5.4	4.9	5.5	5.9	3.4	3.0	4.3	7.0	10.9	12.2	12.2	10.7	9.8	9.4	9.5	5.9	2.5	5.3	0.8	-4.1	-0.5	
7	3.5	4.5	4.9	5.4	6.5	5.3	4.3	2.9	2.1	3.5	6.0	8.9	10.6	11.1	10.4	8.6	7.6	6.9	6.6	3.5	3.2	5.3	3.6	2.7	
8 *	3.5	4.3	4.5	4.6	4.9	4.9	4.5	3.3	2.4	3.4	5.3	8.3	10.5	10.6	9.9	8.4	7.8	7.2	6.8	6.1	5.5	5.3	3.3	3.9	
9 *</td																									

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
November.																										
10° + Tabular Quantities																										
1	4.6	4.6	4.9	5.3	5.0	5.2	4.9	4.4	3.3	3.3	4.8	7.6	9.1	8.4	7.0	6.2	6.3	6.1	4.9	4.9	4.9	4.6	3.3	3.6		
2	4.3	4.8	4.5	5.7	4.4	3.9	3.9	4.2	3.8	4.1	6.1	8.5	8.9	8.3	7.4	6.4	6.3	5.9	5.3	5.1	4.3	3.9	4.5			
3	4.9	5.3	5.3	5.5	5.3	5.2	5.0	4.1	4.3	4.0	6.6	8.8	10.0	9.9	9.9	10.5	8.1	8.0	6.0	5.3	4.8	4.4	4.3	4.3		
4 **	4.4	4.5	5.9	6.0	5.8	5.3	4.4	4.4	4.9	5.3	6.6	9.9	10.4	12.3	11.2	9.5	4.5	5.6	6.4	5.3	4.5	3.7	2.6	2.4		
5 **	3.6	4.1	3.5	6.9	2.3	5.5	6.6	5.5	6.2	5.1	5.7	8.1	9.8	7.9	8.4	4.3	5.1	2.3	2.9	0.9	1.7	-3.6	-6.7	-2.6		
6 **	-0.6	1.4	3.4	3.3	6.0	7.9	6.6	6.5	6.6	8.3	7.4	9.3	9.2	9.9	6.0	7.4	6.9	6.0	5.4	4.8	4.8	3.2	3.3	3.6		
7	3.9	3.9	4.3	4.5	4.5	4.4	4.4	4.5	4.1	4.2	4.9	6.6	7.5	6.7	5.9	5.0	5.9	5.7	5.0	3.8	2.5	1.2	1.0	3.5		
8	3.9	4.5	3.9	3.8	4.5	4.4	4.0	5.2	6.9	6.6	8.1	9.7	8.8	7.9	6.9	6.0	5.8	5.4	5.0	4.7	4.5	4.4	4.3	3.9		
9	3.6	3.1	5.6	4.6	4.1	4.4	3.9	4.2	5.4	5.8	6.3	7.3	7.2	6.8	6.5	5.8	5.5	5.2	4.9	4.9	0.4	3.2	4.3	4.3		
10 **	4.4	4.7	4.9	4.9	4.7	5.1	4.9	4.9	4.4	4.7	5.6	7.9	10.1	9.7	9.9	8.9	5.7	4.9	6.9	5.3	4.4	3.8	3.9	3.6		
11	3.9	4.4	4.3	4.5	4.4	4.3	4.2	3.6	3.3	3.8	5.3	7.4	7.9	6.6	6.2	5.9	5.6	3.1	4.9	4.3	4.4	4.3	4.3	4.2		
12	4.2	4.8	4.4	4.6	4.9	4.4	4.0	3.6	2.8	3.2	5.0	7.3	8.3	7.8	6.8	6.0	5.4	4.8	4.3	4.4	4.0	4.2	4.3	4.3		
13 *	4.4	4.8	4.9	5.0	4.6	4.9	4.4	4.1	3.3	3.6	5.3	7.1	7.5	6.8	6.0	5.7	5.9	5.0	4.7	4.3	4.3	3.9	4.2	4.4		
14	4.9	5.4	5.7	5.5	5.0	5.4	4.4	4.0	3.8	4.3	5.9	7.6	7.9	7.3	6.8	6.9	7.5	6.8	5.3	4.3	4.3	3.8	2.9	1.8		
15 *	2.3	4.3	4.9	5.3	4.9	4.7	4.4	4.2	3.8	3.9	5.1	6.7	7.4	6.9	6.2	6.3	6.9	6.0	5.5	4.7	4.1	4.1	2.8	2.9		
16	3.7	3.9	5.1	6.0	4.5	4.3	4.6	4.6	4.2	4.6	4.5	6.5	7.4	6.7	6.9	5.7	6.0	5.5	5.3	4.6	4.2	4.2	3.9	4.0		
17	4.5	4.9	5.2	5.4	5.0	5.2	4.6	4.0	3.8	3.8	4.3	5.4	6.6	6.9	6.4	6.3	5.9	5.6	5.3	4.9	4.5	4.0	3.9	2.0		
18	1.5	3.9	5.0	5.4	5.5	5.2	4.9	4.0	3.9	4.4	5.5	6.6	7.7	7.9	7.7	8.0	6.6	5.9	5.6	4.5	4.3	3.7	3.5	3.6		
19	3.6	3.9	8.0	5.4	5.0	3.7	3.8	3.8	3.7	3.4	4.8	6.2	7.3	7.4	7.0	6.0	6.5	6.2	5.5	4.3	2.9	3.0	2.7	3.3		
20 **	4.3	4.2	3.8	5.7	6.8	2.8	4.8	6.0	6.7	6.4	6.6	8.7	8.7	11.9	12.8	4.9	4.8	6.2	3.1	3.2	3.1	1.3	-3.5	-1.5		
21	2.2	3.7	4.3	4.6	4.8	4.9	4.8	4.6	4.3	4.2	4.5	4.8	5.6	5.4	4.8	4.7	5.4	4.9	4.8	4.4	3.3	3.1	2.8	3.0		
22	3.6	3.8	4.3	4.4	4.4	4.8	5.1	6.2	5.0	3.9	4.3	5.3	5.9	5.9	5.6	5.4	4.7	5.1	5.3	4.3	4.1	3.8	3.3	2.8		
23	3.3	5.1	4.7	4.7	4.3	4.1	4.2	4.7	4.6	4.3	3.9	5.2	5.6	5.8	5.8	6.0	6.2	5.4	4.2	4.2	4.0	3.7	3.1	2.8		
24 *	3.3	3.6	4.1	4.2	3.8	3.7	3.8	3.9	3.6	3.5	4.3	5.2	5.8	5.8	5.3	5.2	5.4	4.8	4.5	4.3	4.3	3.8	3.8	4.1		
25 *	4.5	4.8	4.8	5.1	4.7	4.7	4.5	4.3	3.9	4.1	4.1	5.7	6.7	7.0	7.2	7.7	6.0	5.5	4.8	4.4	4.1	3.3	0.7	-0.9		
26	4.1	3.2	0.7	2.8	3.4	3.2	3.4	2.8	2.4	3.0	4.6	5.7	7.0	7.2	6.2	6.2	5.0	4.3	4.2	3.8	3.4	3.4	3.3	3.4		
27 *	4.3	4.8	4.8	4.1	3.3	3.4	3.9	3.1	3.3	3.4	4.5	6.3	7.3	7.2	6.2	5.2	4.8	4.2	3.8	3.4	3.7	3.5	3.9	4.2		
28	4.4	4.7	4.4	4.0	3.7	3.6	3.6	3.7	3.4	3.7	4.6	6.0	6.6	6.1	5.7	5.4	4.8	4.4	4.3	3.7	4.0	3.9	3.6	4.0		
29	4.4	4.6	4.8	5.2	5.3	4.6	4.3	4.4	4.2	3.9	3.9	4.8	5.8	6.0	6.2	5.8	5.7	5.2	4.0	3.6	3.6	3.4	3.8	3.6		
30	3.2	3.7	4.5	4.8	4.4	4.2	4.2	4.2	4.5	4.8	4.8	6.4	7.9	9.2	9.4	7.8	5.3	4.6	3.9	3.3	3.1	1.6	2.8	3.8		
Mean	3.7	4.2	4.6	4.9	4.6	4.6	4.5	4.4	4.3	4.4	5.3	7.0	7.7	7.6	7.1	6.3	5.8	5.3	4.9	4.3	3.8	3.3	2.9	3.2		
Mean *	3.8	4.5	4.7	4.7	4.3	4.3	4.2	3.9	3.6	3.7	4.8	6.2	6.9	6.7	5.9	5.5	5.6	4.9	4.5	4.2	4.1	3.9	3.8	4.0		
Mean **	3.2	3.8	4.3	5.4	5.1	5.3	5.5	5.5	5.8	6.0	6.4	8.8	9.6	10.3	9.7	7.0	5.4	5.0	4.9	3.9	3.9	3.7	1.7	-0.1	1.1	
December.																										
10° + Tabular Quantities																										
1	3.7	4.0	5.2	4.6	4.2	4.7	4.4	4.3	3.8	3.9	4.7	6.8	7.5	7.5	8.2	7.1	7.2	5.6	4.7	3.6	2.2	2.2	2.7	2.9		
2	3.9	3.1	3.7	4.3	4.2	4.6	5.6	5.3	6.2	6.3	8.1	9.6	8.1	6.8	6.1	5.4	3.9	4.1	3.7	-6.6	-5.7	1.4	1.1	2.7		
3	3.5	4.5	3.7	5.9	4.9	4.7	5.6	4.3	3.3	4.5	4.7	6.0	6.1	5.1	4.2	4.6	4.7	4.1	3.7	3.5	2.5	2.8	1.2	1.4		
4	2.8	4.7	4.3	4.1	6.1	4.7	3.8	4.5	4.1	4.2	5.1	6.2	6.1	5.7	5.4	4.9	5.0	4.7	4.4	2.4	2.1	2.4	1.6	2.2		
5	2.7	3.3	4.7	4.7	3.6	3.9	4.1	4.2	4.1	4.1	5.7	6.7	7.0	7.2	7.7	6.0	5.5	4.8	4.4	4.1	3.3	3.3	0.7	-0.9		
6	0.6	-1.9	-0.3	2.4	2.6	3.7	4.3	4.2	3.8	4.3	5.6	5.8	5.8	5.1	4.9	5.1	6.0	5.4	4.7	4.0	2.2	2.7	2.8	2.9		
7 *	3.9	3.6	3.7	3.8	3.8	4.2	4.1	4.1	4.1	3.7	4.0	4.3	4.6	4.3												

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January		18000 γ + Tabular Quantities (in γ)																							
1	544	548	551	557	562	561	564	571	561	547	551	554	558	561	504	497	517	531	544	543	527	546	541	542	
2	540	538	541	543	547	552	557	558	554	550	546	545	548	554	557	547	554	559	554	548	547	549	553	553	554
3 *	557	553	553	553	556	560	559	561	561	554	552	553	555	552	555	563	564	565	564	560	559	558	557	557	553
4 *	553	564	554	558	558	560	567	567	564	562	558	562	566	568	569	567	566	567	566	567	561	562	557	557	553
5	594	547	545	549	555	548	561	569	560	551	554	562	568	568	565	547	535	545	561	554	556	556	560	559	559
6 *	554	554	554	553	558	560	562	564	560	553	548	552	553	552	564	569	569	569	562	561	551	551	547	551	551
7 *	563	556	556	559	562	564	565	567	564	558	557	558	560	564	567	568	567	563	561	562	561	562	562	563	563
8	563	562	561	561	569	568	571	573	566	561	554	557	563	561	561	555	549	558	562	562	565	563	562	564	564
9	561	578	565	562	565	571	574	574	570	570	569	568	573	576	573	565	558	550	560	563	562	560	554	569	569
10	557	558	562	565	566	570	571	573	579	578	576	572	567	568	568	562	562	558	561	563	548	568	573	553	553
11 **	541	543	553	572	573	560	565	566	556	538	537	554	558	554	556	538	519	515	531	531	551	561	555	555	552
12	544	545	552	557	551	550	569	560	534	543	552	535	535	539	538	523	534	547	545	552	556	558	555	565	565
13 **	585	562	548	559	561	558	551	558	539	533	542	542	540	518	552	551	548	534	525	544	551	560	573	555	555
14 **	543	552	560	562	563	552	564	560	564	552	525	538	542	534	530	527	553	506	544	535	540	561	554	558	558
15 **	564	552	552	566	558	558	558	556	555	552	555	548	542	546	552	516	544	535	552	524	561	533	586	550	550
16 **	543	564	550	551	553	554	558	547	548	542	528	536	535	542	522	542	514	553	544	548	554	552	563	564	564
17	569	557	548	553	561	565	562	561	558	559	549	535	528	544	529	552	552	554	560	549	547	552	548	572	572
18	555	553	556	561	568	570	564	561	557	532	502	532	532	539	551	548	552	553	542	545	544	553	552	542	562
19	554	553	557	558	562	562	565	567	553	556	554	553	551	548	552	553	542	557	567	564	562	565	573	573	573
20	556	552	560	560	561	564	568	559	563	555	542	533	538	540	551	545	557	552	543	556	549	562	569	558	558
21	556	564	558	556	556	558	562	564	564	558	548	542	543	546	548	558	565	565	560	557	558	562	560	560	560
22	573	574	558	562	560	563	570	569	560	553	548	548	548	548	553	556	555	557	556	558	560	560	558	561	561
23	558	562	562	562	560	564	568	567	557	547	549	557	552	555	558	558	562	563	564	561	552	551	558	579	579
24	564	557	557	558	563	566	568	568	568	566	553	548	550	554	562	562	558	548	559	566	570	568	569	570	570
25	570	569	569	568	568	568	572	576	572	571	565	565	571	568	559	555	558	559	568	568	563	555	564	562	562
26	564	564	567	568	569	573	576	578	574	566	558	565	573	591	595	590	577	558	548	527	531	536	541	542	542
27	535	542	548	549	555	558	560	557	552	543	544	554	555	568	568	562	563	559	559	529	538	552	560	557	557
28	554	565	558	558	568	563	568	572	572	570	560	555	550	558	562	560	562	563	562	554	567	562	558	558	558
29	554	554	559	558	564	567	568	568	569	568	558	558	559	559	565	554	547	558	563	564	561	558	560	560	560
30 *	558	560	564	567	564	563	566	567	567	562	558	558	559	558	561	564	565	567	563	563	561	559	560	560	560
31	559	564	565	564	567	572	574	574	571	567	564	565	571	568	568	562	554	555	558	544	542	543	549	548	548
Mean	558	557	556	559	561	562	565	566	561	555	550	551	553	556	555	552	552	552	555	553	554	556	559	559	559
Mean *	557	557	556	558	560	561	564	565	562	557	555	557	558	559	564	566	567	565	563	563	559	558	557	556	556
Mean **	555	555	553	562	562	556	559	557	552	543	537	544	543	539	542	535	536	529	539	536	551	553	566	556	556
February		18000 γ + Tabular Quantities (in γ)																							
1	548	550	551	555	559	562	564	564	561	558	557	554	553	560	563	567	569	565	563	558	559	557	558	561	561
2	561	562	559	561	563	567	576	574	564	566	564	563	560	558	558	559	563	566	567	565	559	554	559	556	556
3 *	556	558	558	560	565	564	567	570	571	571	565	565	564	564	565	565	565	565	563	565	565	567	567	567	567
4	563	565	564	570	578	578	577	581	583	583	585	577	573	564	565	572	568	560	556	557	568	572	565	567	567
5	565	565	567	567	568	571	574	577	577	577	577	577	574	574	577	574	574	578	558	555	557	557	568	570	570
6	560	563	564	565	566	567	569	571	574	574	573	567	562	560	560	558	562	567	570	571	572	572	571	571	571
7 **	579	573	571	572	581	589	582	591	584	557	531	553	532	503	490	495	525	521	552	521	583	578	538	528	5

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
March	18000 γ + Tabular Quantities (in γ)																									
1 *	565	564	561	566	572	568	567	568	574	571	564	564	566	569	571	573	573	571	576	576	576	574	573	566	566	
2	576	563	559	556	562	572	572	573	568	564	562	560	559	549	554	555	560	567	566	562	573	566	566	566	566	
3 *	564	565	562	566	567	570	572	571	569	562	558	562	567	567	573	572	573	571	573	571	573	573	573	574	574	
4	577	582	583	574	583	575	579	563	568	504	546	556	529	547	548	548	547	555	551	552	559	569	577	575	575	
5	557	559	558	561	563	562	565	566	561	555	557	562	564	568	562	548	551	549	541	563	564	572	567	568	568	
6	564	578	567	551	560	568	564	568	572	556	547	555	563	562	551	556	551	557	556	599	570	548	569	563	563	
7 **	572	562	557	557	563	551	547	553	543	553	551	555	541	552	520	534	538	545	560	566	562	564	558	587		
8	562	560	553	557	565	549	563	557	557	549	558	528	549	553	559	553	544	536	582	556	566	569	573			
9	567	597	575	561	567	557	577	573	565	558	553	522	531	546	538	541	556	547	551	583	561	569	564	590		
10 **	567	560	562	566	559	549	563	543	521	522	535	515	505	533	537	538	554	558	586	542	544	566	589	566		
11	554	550	554	555	561	556	557	567	545	526	541	561	563	559	560	560	562	535	543	561	563	561	568			
12	571	576	563	557	558	553	573	567	548	553	557	562	569	563	510	537	537	547	571	567	568	582	563	563		
13	567	563	567	553	558	561	560	567	562	553	550	551	551	536	561	553	569	566	567	567	569	567				
14	567	567	572	559	547	560	548	554	563	551	542	548	552	558	564	562	560	561	557	573	563	566	564	562		
15 *	563	565	563	563	566	565	571	568	562	553	543	546	549	554	557	563	567	567	567	566	567	555	557			
16	560	563	563	563	570	569	566	566	562	559	547	541	540	552	554	554	552	551	562	566	567	567	564	565		
17 *	563	562	562	564	567	567	568	571	568	562	554	553	556	558	562	563	564	565	569	571	573	572				
18	571	569	571	572	575	577	581	575	573	566	563	564	571	570	571	572	575	578	569	555	528	541	559	565		
19 **	537	523	540	543	542	543	549	551	552	545	538	515	534	547	537	555	559	558	561	555	559	541	530	576		
20	552	547	545	550	554	557	559	552	543	543	541	550	555	559	558	559	558	557	557	558	557	561	563	563		
21	558	556	554	552	563	565	561	558	552	546	541	541	544	548	561	561	561	555	558	549	552	557	573	581		
22	561	563	561	569	548	557	556	561	556	546	547	547	558	561	572	576	581	571	562	569	572	571	566	571		
23	571	570	569	570	567	564	565	566	551	546	543	542	551	558	559	562	559	560	546	564	562	575	577	563		
24 *	566	567	568	567	571	572	568	567	561	551	554	553	551	561	569	563	575	571	572	573	572	573				
25	574	576	573	575	577	578	582	578	572	567	553	552	557	567	577	581	588	576	557	567	564	592	572			
26 **	583	564	574	573	566	570	574	533	538	544	535	542	526	576	547	552	560	563	570	570	576	576	582	588		
27 **	546	560	542	521	507	561	532	522	513	494	467	509	512	523	537	538	546	546	566	553	580	558	553	565		
28	559	552	551	551	555	560	556	554	548	526	525	525	530	542	553	542	550	542	540	543	559	562	546	531		
29	554	581	546	543	550	579	559	552	518	528	509	521	535	537	535	550	550	548	551	563	549	546	550	551		
30	547	571	553	553	562	558	546	553	558	542	540	545	538	550	546	553	564	560	566	566	560	566	584	601		
31	556	553	556	550	556	560	559	558	541	537	530	525	530	544	553	555	556	562	566	566	562	562	563			
Mean	563	564	561	559	561	563	563	561	556	547	543	544	546	553	554	555	559	559	559	564	563	564	567	569		
Mean *	564	565	563	565	569	568	569	569	567	560	555	555	557	561	566	566	570	569	571	571	571	572	569	568		
Mean **	561	554	555	552	547	555	553	540	533	532	525	527	524	546	536	543	551	554	569	557	564	561	562	576		
April	18000 γ + Tabular Quantities (in γ)																									
1	552	564	559	556	560	559	556	552	546	542	544	553	562	558	560	562	566	565	562	551	561	541	570	596		
2 **	560	571	587	576	569	574	536	429	415	356	324	417	501	516	482	480	492	501	512	523	534	536	559	551		
3	527	543	523	532	515	536	548	540	532	531	532	534	531	531	540	546	550	560	551	560	556	562	569	576		
4 **	565	559	552	555	554	558	540	546	543	532	509	500	526	537	552	549	545	553	551	558	561	580	561			
5 **	569	560	551	560	556	567	559	558	548	530	530	519	546	556	551	556	559	544	557	557	551	564	590	564		
6 **	551	559	557	554	565	563	566	528	515	500	496	522	546	536	550	551	545	564	566	571	560	556	566	574		
7	561	561	576	560	558	562	562																			

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
May		18000 γ + Tabular Quantities (in γ)																							
1 **	585	569	569	574	570	566	574	566	550	542	544	539	547	541	545	576	549	568	558	556	569	579	577	570	570
2 **	552	552	552	555	559	536	561	561	557	552	538	518	533	549	561	571	557	567	570	572	578	578	569	570	578
3	570	567	564	564	557	560	560	559	549	550	548	551	552	535	555	559	569	572	573	568	565	569	568	570	570
4 **	570	570	567	568	569	568	565	560	557	554	555	535	539	553	555	579	559	590	547	573	565	576	574	580	580
5	597	599	564	563	560	559	557	552	549	548	538	537	550	540	544	554	568	581	558	570	574	571	573	574	574
6 **	595	582	569	563	560	556	560	546	540	544	544	520	548	558	551	558	573	579	598	570	573	574	574	575	570
7	569	568	566	566	551	557	548	537	553	546	548	540	548	553	552	553	563	581	572	574	582	579	568	571	571
8	574	560	567	569	560	558	559	551	529	538	554	557	555	560	566	570	574	574	573	568	566	568	569	570	570
9	568	569	568	568	569	571	570	568	560	554	555	558	559	559	566	574	580	585	582	571	574	570	574	576	576
10	573	567	570	570	573	576	570	567	558	554	553	555	566	574	574	582	586	586	583	585	585	584	577	585	585
11	579	572	574	576	579	579	573	568	562	559	559	560	560	565	575	585	590	595	590	593	591	588	581	580	580
12	584	586	578	576	575	571	567	564	560	558	556	558	553	566	574	579	588	585	588	592	586	584	593	584	571
13 *	575	574	574	577	577	578	571	567	561	554	554	554	558	561	568	578	578	585	589	584	583	580	581	585	585
14	583	584	584	585	582	577	572	574	565	556	554	549	551	558	559	563	570	579	584	585	578	578	578	578	578
15	586	580	567	573	580	578	578	580	573	563	560	558	550	553	561	566	570	576	578	574	574	572	572	572	572
16 *	572	571	570	570	573	571	574	571	567	564	566	562	560	564	564	574	573	579	582	584	584	580	580	577	577
17	578	578	574	576	574	573	569	570	566	570	572	573	574	574	572	581	584	585	583	584	587	582	585	585	585
18 *	578	573	569	569	571	571	564	557	559	561	568	575	575	574	574	574	574	579	586	591	595	593	592	586	586
19	586	585	582	575	575	573	568	560	558	562	567	568	569	568	572	581	583	585	586	588	585	585	582	582	582
20 *	580	582	579	579	579	578	571	562	555	554	559	564	567	564	568	575	581	583	584	585	585	587	587	587	587
21 *	587	585	587	584	584	584	583	583	579	573	566	558	564	570	571	574	573	577	583	583	586	585	589	584	584
22	579	580	580	583	583	583	575	569	567	563	568	569	572	575	579	579	588	587	583	588	587	594	589	590	590
23	588	588	585	582	583	587	578	568	564	563	559	562	567	572	586	579	573	576	583	584	583	587	587	587	587
24	596	593	583	586	581	577	563	549	554	549	562	573	573	573	574	569	569	569	581	581	575	569	581	577	577
25	573	571	572	569	567	575	573	563	559	558	553	553	554	558	557	574	584	587	579	589	587	584	587	585	585
31	572	572	569	574	572	572	558	566	565	560	558	562	562	562	559	567	596	587	582	575	581	579	577	576	575
Mean	580	577	573	574	573	571	569	564	559	556	556	554	557	560	564	574	575	581	580	581	581	580	578		
Mean *	578	577	576	576	577	576	573	567	563	560	561	564	566	567	570	575	576	581	585	586	586	584			
Mean **	579	569	566	568	569	562	567	561	554	550	545	531	543	543	550	552	571	562	578	572	576	584	578	572	572
June		18000 γ + Tabular Quantities (in γ)																							
1	572	576	572	574	574	570	568	563	559	557	553	552	555	561	569	564	574	582	571	586	586	583	582	582	582
2	581	579	576	576	574	572	567	561	556	548	542	545	556	558	563	562	566	568	575	578	584	581	579	578	
3 *	578	577	575	572	572	569	565	558	562	562	572	578	574	574	574	572	576	580	586	582	582	584	583		
4	584	582	580	579	577	574	569	566	564	566	570	572	571	572	578	582	581	588	588	594	602	602	603	602	
5	603	596	591	588	589	585	578	567	559	557	568	578	576	578	577	583	582	580	574	586	583	588	585	585	
6	579	578	573	576	578	576	573	569	566	566	572	578	581	584	582	580	580	583	572	582	582	582	581	579	580
7 *	580	580	583	584	581	581	576	569	566	566	576	576	588	596	596	592	581	580	588	592	587	588	587	586	586
8 *	582	581	580	580	582	580	575	571	566	565	566	571	572	578	586	589	587	582	585	586	587	587	586	586	586
9	588	591	596	599	593	592	590	583	572	558	556	558	564	567	580	589	587	583	588	588	584	586	580	582	582
10 *	580	585	582	582	580	580	577	572	566	563	563	562	558	566	568	582	584	595	594	590	586	586	586	582	582
11	584	580	583	583	585	583	573	562	549	542	542	551	562	573	588	596	577	588	588	577	575	573	575	581	
12 *	578	577	574	577	576	576	568	565	555	548	546	552	558	562	572	576	579	582	585	587	587	583	581		
13	579	578	5																						

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
July																										
1	580	573	571	575	578	577	571	565	562	555	552	562	571	581	575	585	573	587	594	595	591	591	589	586		
2	583	581	580	581	585	583	577	571	574	574	568	565	557	565	575	576	581	581	583	592	592	591	592	590	591	
3	586	587	585	585	582	585	576	577	568	551	558	562	577	577	576	581	578	587	585	586	596	599	591			
4	589	581	576	580	580	581	582	575	564	556	559	575	581	588	593	591	587	589	591	593	586	589	590	589	589	
5	585	584	585	585	589	585	578	571	565	561	558	565	573	583	586	591	585	581	591	591	593	592	591	592	591	
6	589	588	586	587	587	590	585	574	561	554	558	560	555	560	580	584	585	590	590	595	596	597	609	595		
7	585	593	599	591	582	580	580	571	564	555	555	555	557	566	566	581	586	587	588	586	581	580	580	580	580	
8	581	580	580	582	580	577	571	561	554	555	566	571	566	566	570	580	584	587	594	595	587	587	590	594		
9 **	601	612	596	598	585	593	588	571	544	531	536	543	558	569	562	577	582	583	584	577	576	575	576			
10	576	576	576	574	574	575	574	568	558	550	546	550	558	574	581	582	580	591	591	594	600	576	576	576	574	
11	572	574	573	574	570	566	570	569	565	552	547	551	558	561	567	574	581	586	592	589	586	581	582	580		
12	578	580	583	583	584	586	582	572	561	555	560	563	569	579	585	594	595	599	593	593	593	593	593	593	593	
13	597	586	581	581	583	585	577	573	565	556	551	553	565	575	586	577	580	589	594	589	595	590	590	586	586	
14	583	579	580	579	579	577	571	563	557	551	555	557	568	570	578	580	586	595	594	595	596	595	592	588		
15 **	582	579	579	581	580	574	560	561	563	557	551	547	548	559	564	570	570	569	576	583	585	583	583	580		
16	579	578	577	576	578	579	567	568	563	564	558	560	561	563	577	579	573	579	584	596	591	584	587	588		
17	584	585	579	577	584	578	573	563	566	559	546	538	551	563	566	569	571	580	577	582	579	579	579	579		
18	579	574	575	575	573	569	563	559	558	557	559	560	559	568	574	576	580	588	582	585	582	584	582	582		
19 **	582	571	569	576	574	569	571	571	559	569	569	553	560	576	585	583	579	584	591	594	589	588	593			
20 **	585	580	579	593	589	589	584	574	557	545	551	555	549	542	554	569	573	574	580	582	580	580	583	580		
21 **	583	585	586	587	584	584	576	572	564	549	549	547	535	550	566	578	583	585	576	576	584	579	572			
22	571	574	573	579	579	573	564	559	547	555	559	556	558	567	579	580	584	590	583	588	587	581	576			
23	579	575	575	579	579	575	575	568	559	552	554	560	561	565	565	565	565	565	585	585	579	579	579			
24 *	577	577	577	580	580	579	571	559	557	555	553	550	553	559	563	573	580	584	584	587	586	584	581	580		
25 *	579	577	577	577	579	579	574	569	563	559	559	555	553	559	565	577	581	583	585	588	587	587	585	585		
26 *	583	585	589	589	590	585	580	574	568	557	545	545	551	556	568	575	574	586	590	592	593	586	584	583		
27 *	582	582	582	584	584	583	580	578	575	569	560	559	567	568	575	574	579	591	595	599	596	590	584	579		
28 *	579	577	578	579	577	575	574	570	565	564	565	565	562	563	572	582	592	599	603	601	599	594	582			
29	578	576	578	580	581	580	576	574	572	568	565	570	573	573	581	580	583	588	592	589	588	581	581	581		
30	579	571	572	579	578	581	580	570	565	568	569	565	573	571	567	564	566	580	590	591	589	584	585	585		
31	582	579	579	583	583	592	583	578	566	564	567	575	564	572	575	575	582	583	589	595	589	582	584	576		
Mean	582	581	580	582	581	580	575	569	563	557	556	558	561	566	572	577	580	584	588	590	589	587	586	584		
Mean *	580	580	581	582	582	580	576	570	566	561	556	555	557	561	567	574	574	579	591	594	593	590	586	582		
Mean **	587	585	582	587	582	582	576	570	560	548	551	552	549	556	564	573	577	578	580	583	584	581	580			
August																										
1	577	581	580	584	588	584	582	569	564	561	559	556	551	569	565	572	579	585	585	589	585	583	581	579		
2 **	578	575	580	584	582	576	581	578	575	566	566	576	582	576	580	582	589	595	603	609	604	599	588	571		
3 **	579	594	604	626	586	573	522	523	522	493	502	506	519	538	546	551	550	554	559	568	569	569	565	560		
4	564	558	554	562	563	562	562	556	547	539	541	545	548	549	563	571	570	569	565	569	569	569	569	569		
5	569	569	566	568	569	569	561	554	543	535	536	550	553	559	569	582	577	578	574	579	578	581	571	574		
6	573	572	565	567	572	569	567	553	538	533	538	544	561	570	573	578	572	567	573	578	581	582	587	582		
7	582	578	575	580	577	571	564	559	555	552	550	554	554	562	564	582	578	583	584	588						

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
September																										
1	575	566	567	577	575	576	571	568	561	557	556	558	556	558	563	563	568	573	578	577	577	576	579	593	593	
2 **	622	566	573	571	573	571	542	542	541	543	551	538	560	574	563	561	560	581	567	564	571	574	597	578	578	
3	579	574	561	562	564	565	558	541	544	548	546	562	580	580	575	574	563	570	573	573	571	571	573	576	576	
4	575	573	576	571	571	572	569	564	560	553	551	557	567	577	579	581	583	581	583	571	571	571	560	573	573	
5	586	583	571	573	577	572	571	566	553	546	543	545	549	561	567	571	573	577	575	573	573	573	576	573	573	
6	577	577	576	577	577	574	574	571	560	551	548	558	573	574	576	582	590	593	586	588	590	590	583	574	574	
7	576	577	578	581	577	577	581	578	561	541	542	545	558	564	567	568	573	574	577	579	581	577	575	575	573	
8	573	573	573	580	577	577	576	572	562	552	540	536	542	547	543	556	568	575	581	574	575	572	562	567	567	
9 *	582	570	567	571	567	570	572	566	555	550	549	550	556	559	563	566	566	571	576	581	582	577	581	574	574	
10	576	571	573	573	572	573	575	566	558	554	554	557	561	562	562	562	576	583	586	589	576	577	576	573	573	
11	581	583	576	573	573	573	572	572	569	563	561	563	567	571	571	567	572	573	578	583	584	590	591	598	598	
12	582	576	576	576	580	582	574	574	562	552	553	556	569	571	570	568	568	571	574	582	575	584	584	584	584	
13	577	575	572	574	576	576	575	571	567	571	572	573	571	573	577	579	577	583	583	591	587	583	585	585	585	
14	580	572	582	584	576	594	582	567	558	557	562	562	567	571	557	567	565	557	565	577	581	582	581	578	578	
15 *	581	581	578	581	579	581	576	568	555	546	556	571	574	573	573	573	575	578	581	582	581	580	580	580	580	
16 *	579	577	576	576	576	575	568	560	558	552	553	562	571	569	561	566	566	573	578	579	573	573	576	576	576	
17 *	576	577	577	574	577	577	577	574	569	562	552	553	559	569	574	585	587	579	585	589	590	586	586	589	589	
18	588	584	592	577	573	571	583	569	557	551	550	556	563	561	560	567	569	574	577	571	568	571	574	573	573	
19 *	573	573	575	576	576	579	577	572	566	566	562	561	563	569	567	574	577	579	581	580	580	580	580	580	580	
20	580	579	579	581	581	582	582	580	572	565	563	567	570	570	574	576	583	591	584	592	587	573	571	571	571	
21 **	572	586	585	572	573	573	576	562	563	555	538	544	549	555	558	560	566	569	567	572	570	574	572	576	576	
22	577	580	570	567	569	573	574	573	571	567	561	558	559	560	566	566	572	567	571	571	581	583	567	567	593	
23	571	565	560	557	568	577	576	566	563	558	554	564	562	559	561	568	567	574	593	601	584	561	543	536	536	
24 **	561	590	550	557	553	559	556	557	528	527	550	556	550	536	528	557	563	567	572	558	562	568	602	570	570	
25	560	561	568	567	561	562	563	564	559	555	552	552	559	563	555	563	567	569	567	563	567	565	574	582	582	
26	587	575	563	567	572	572	564	558	552	547	543	543	550	560	561	554	569	573	573	576	574	580	577	571	571	
27 **	570	570	571	573	571	567	572	573	556	554	549	547	547	555	567	572	575	553	551	556	564	579	573	565	565	
28	566	563	563	566	570	576	571	571	557	553	552	553	554	561	562	563	563	566	566	571	572	578	577	574	574	
29	571	570	569	573	577	579	574	577	581	562	547	546	546	554	554	556	568	573	573	575	572	569	588	573	574	
30 **	572	577	577	574	576	578	581	578	571	568	568	571	565	549	541	526	534	563	570	582	547	547	560	610	610	
Mean	578	575	572	573	573	574	572	567	560	555	553	555	560	564	564	567	570	574	576	577	576	576	576	577	577	
Mean *	578	576	575	576	574	576	574	568	561	555	554	559	565	569	569	572	574	575	575	580	582	582	580	580	580	
Mean **	579	578	571	569	569	570	565	562	552	549	551	551	554	554	551	555	560	567	565	566	563	568	581	580	580	
October																										
1 **	553	551	553	557	556	560	561	563	559	553	553	537	551	563	562	557	554	541	560	562	579	603	564	555	555	
2	561	560	562	563	565	566	565	561	555	551	546	549	552	563	567	569	568	569	572	572	577	573	572	568	568	
3	565	564	567	567	558	567	571	565	544	539	543	547	552	556	557	551	568	567	572	573	592	560	578	571	571	
4	563	557	561	562	564	561	557	546	534	536	544	554	564	573	572	571	564	569	574	577	572	573	571	570	570	
5 *	570	577	581	569	569	569	568	558	547	537	531	540	549	562	562	573	575	573	576	575	573	571	574	574	574	
6	571	576	581	580	583	580	577	571	557	549	546	552	560	572	578	586	589	582	569	553	557	545	592	560	560	
7	560	562	562	563	569	573	573	568	557	548	543	543	545	557	563	565	566	572	574	574	576	576	571	571	571	
8 *	565	565	567	570	571	573	575	569	558	549	547	549	553	557												

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
November																										
1	568	570	571	571	574	575	576	578	572	561	554	558	562	563	569	572	575	578	576	577	577	576	576	578		
2	573	573	573	575	575	572	573	574	572	562	558	566	575	577	578	574	576	578	581	580	579	575	578	578	578	
3	575	578	579	582	582	581	584	581	578	565	561	554	544	555	571	561	562	574	577	574	577	577	577	576	576	
4 **	572	573	574	579	578	584	588	572	564	556	542	542	525	547	550	544	556	573	562	568	569	570	579	576	576	
5 **	572	574	577	581	585	587	582	559	545	537	535	542	536	549	548	547	563	534	528	527	550	588	548	559		
6 **	566	564	563	566	577	567	563	559	534	544	542	544	536	541	547	562	565	572	572	567	566	565	562	562	562	
7	562	563	567	567	570	573	574	575	572	568	563	564	562	560	554	547	558	564	564	562	558	565	568	568	568	
8	568	574	580	568	573	573	574	575	569	564	554	556	561	563	564	564	571	575	577	576	576	577	577	577		
9	578	574	571	575	575	577	579	582	568	573	568	568	564	564	565	564	566	571	574	569	577	573	573	573		
10 **	572	571	572	573	576	579	585	597	594	586	574	574	559	549	561	566	548	563	557	570	569	568	566	566	566	
11	565	566	568	568	569	571	572	568	564	559	555	555	558	563	571	571	575	564	568	571	573	575	572	571		
12	569	576	573	577	576	576	580	578	574	570	564	565	569	571	574	576	577	578	578	577	575	574				
13 *	574	572	574	574	577	579	581	581	575	570	571	574	579	583	581	582	581	579	579	577	580	578	578	579		
14 *	577	579	580	581	582	583	586	588	582	574	572	573	574	573	572	566	565	558	568	573	574	577	574	574		
15 *	569	570	571	572	576	581	584	585	582	578	576	575	577	576	579	577	575	575	574	573	575	578	574	574		
16	575	576	578	583	587	588	588	588	579	572	565	566	568	571	574	576	582	583	582	578	576	575	574	575		
17	574	575	577	578	581	581	581	583	577	569	566	565	568	574	579	581	584	582	580	575	577	578	572	577		
18	581	578	578	581	587	586	587	583	573	566	564	563	567	567	558	554	571	577	582	583	583	581	581	578		
19	577	573	574	581	586	591	588	585	581	578	571	574	577	573	571	563	579	577	573	570	573	574	575	572		
20 **	574	578	580	581	592	603	596	588	580	573	562	561	548	527	532	519	513	524	549	551	551	551	551	559	558	
21	550	557	561	564	568	568	569	567	567	564	563	563	566	566	564	567	569	571	571	571	568	563	564	564		
22	564	564	568	569	573	576	574	575	571	564	563	565	568	574	579	581	584	582	580	575	577	578	572	577		
23	568	570	576	576	578	581	582	577	575	570	564	563	558	562	560	561	567	570	571	573	574	576	573	573		
24 *	568	567	565	571	577	578	581	582	583	571	566	566	566	568	571	572	576	577	577	578	577	576	576	574		
25 *	573	573	575	578	582	583	586	587	584	578	574	571	575	577	577	580	580	580	580	582	583	579	578	578		
26	576	586	573	576	575	575	573	573	569	558	557	558	563	566	562	564	571	577	578	579	577	578	575	578		
27 *	577	577	579	578	577	577	574	576	572	567	561	560	563	571	576	575	578	577	578	581	582	581	580	580		
28	578	577	574	573	573	571	571	572	571	567	563	566	571	573	575	574	580	581	582	581	582	583	577	579		
29	577	578	577	578	581	587	590	590	585	581	576	573	574	577	575	573	575	578	578	580	581	577	576	576		
30	587	577	577	576	579	581	583	587	586	581	574	574	572	571	562	569	577	573	566	566	569	571	571	571		
Mean	572	573	573	575	578	579	580	579	573	568	563	563	563	565	567	565	569	570	571	572	573	575	574	573		
Mean *	572	572	572	575	578	580	581	582	579	573	571	569	572	575	577	576	578	578	578	578	579	578	578	577		
Mean **	571	572	573	576	582	584	583	575	563	559	551	553	541	543	548	548	552	551	549	557	561	569	567	564		
December																										
1	572	577	576	577	582	585	584	583	584	580	576	573	567	564	564	550	557	559	565	563	552	566	568	571		
2	574	586	575	573	582	582	584	583	572	561	553	559	567	571	568	562	533	537	548	551	562	559	559	566		
3	566	571	563	565	571	578	565	571	573	570	564	568	569	561	563	567	570	568	572	574	576	568	573	574		
4	568	572	573	572	570	575	579	578	571	572	569	568	571	574	573	571	573	573	573	566	569	568	567	564		
5	569	571	571	580	581	578	581	581	573	561	561	562	563	559	561	571	574	575	575	571	568	570	567	570		
6	568	565	563	567	573	574	579	576	572	573	573	573	571	570	567	556	557	562	570	572	567	569	569	570		
7 *	573	572	570	572	576	579	581	581	579	577	576	573	570	567	568	571	577	578	578	576	575	573	572	577		
8	574	575	577	579	583	583	587	587	590	583	581	576	570	566	567	568	571	572	576	580	582	581	576	572		
9	573	573	571																							

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

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January	43000 γ + Tabular Quantities (in γ)																								
1	182	183	185	186	189	189	189	189	189	187	188	189	187	186	192	200	224	224	220	216	212	213	208	203	198
2	196	195	195	195	194	194	194	193	192	194	194	195	193	192	194	195	195	198	197	199	197	194	194	194	194
3 *	190	188	188	189	191	190	189	190	188	190	193	192	194	195	196	195	194	193	193	193	194	190	190	190	190
4 *	188	188	186	187	188	188	188	189	189	192	192	190	192	192	193	194	191	190	192	192	193	194	195	195	193
5	185	177	182	185	186	188	189	188	187	188	189	188	187	187	189	188	190	194	200	198	196	194	194	193	190
6 *	189	189	188	187	189	188	188	189	188	189	189	189	188	188	193	194	190	188	188	190	193	197	197	197	195
7 *	193	189	189	188	189	187	187	188	186	192	191	186	189	189	188	189	189	189	191	191	191	189	189	189	189
8	188	187	187	187	187	184	184	183	182	185	189	185	190	194	194	193	194	192	192	190	189	188	188	188	188
9	189	184	182	182	184	184	184	183	180	181	184	183	181	185	187	189	188	191	190	188	188	187	187	189	189
10	184	186	186	185	187	184	183	184	180	180	182	182	182	185	189	190	189	191	190	189	192	192	187	174	174
11 **	179	181	182	176	173	177	180	182	183	184	189	190	189	189	192	197	203	218	214	204	202	192	187	187	187
12	184	187	188	188	190	188	188	190	194	194	190	194	198	199	214	210	204	205	202	196	194	193	189	189	189
13 **	185	166	177	180	184	182	187	187	188	192	193	193	192	199	208	204	201	208	208	200	188	184	179	179	179
14 **	183	185	182	182	186	184	186	184	186	184	187	190	190	200	206	211	214	212	200	200	197	189	189	188	188
15 **	179	174	180	177	179	182	184	186	187	186	184	179	183	190	194	202	204	207	206	201	193	182	174	174	174
16 **	182	176	179	184	188	188	188	189	190	189	195	193	192	195	202	212	207	210	201	197	198	194	188	185	185
17	174	176	180	183	187	184	182	185	184	186	188	192	194	198	204	209	202	200	200	202	199	195	195	189	189
18	183	186	187	187	187	183	187	190	192	192	194	197	195	198	199	201	202	200	198	199	197	193	186	186	186
19	183	184	183	180	186	186	188	189	189	192	192	192	189	191	192	192	196	198	197	198	194	195	192	185	185
20	182	185	186	184	188	188	188	191	189	190	188	191	192	195	196	196	195	198	200	199	198	192	188	188	188
21	188	186	183	185	187	189	190	191	191	190	192	193	195	198	199	198	192	192	192	192	190	190	190	190	190
22	189	181	183	184	185	185	187	190	190	189	187	187	189	193	198	197	195	193	193	193	192	190	191	191	191
23	189	191	187	185	185	187	188	189	189	189	188	188	187	187	191	193	193	193	191	191	191	189	189	189	189
24	179	183	185	187	189	188	189	188	189	186	184	188	189	193	193	193	193	193	190	190	189	189	185	185	185
25	186	186	185	185	186	186	186	186	183	179	176	181	187	190	194	195	196	195	194	194	191	191	189	189	189
26	189	190	190	190	190	188	188	186	185	183	181	182	180	180	182	183	185	187	191	196	205	214	202	198	192
27	191	190	190	192	194	193	194	191	186	186	184	183	187	194	195	194	194	196	196	199	204	202	194	194	193
28	192	189	188	190	191	190	189	186	184	183	184	187	186	186	189	191	194	194	196	197	195	194	192	191	191
29	*	189	190	190	190	193	193	192	190	188	186	184	183	181	181	181	180	185	188	190	192	191	193	191	191
30	*	189	190	189	187	186	187	190	188	185	181	181	181	180	180	185	188	188	190	192	191	193	192	191	191
31	189	187	186	185	187	186	187	188	186	185	184	183	181	184	189	193	194	194	196	203	207	207	204	200	189
Mean	186	185	185	186	187	187	188	188	187	187	188	188	188	191	194	197	197	198	197	197	197	197	195	191	189
Mean *	190	189	188	188	189	188	188	188	189	187	187	189	188	188	190	192	191	191	192	192	193	194	192	192	192
Mean **	182	176	180	180	182	183	185	186	187	187	190	189	189	189	200	205	205	209	208	203	200	193	186	183	183
February	43000 γ + Tabular Quantities (in γ)																								
1	195	192	192	191	192	190	192	194	190	188	186	182	177	183	186	189	188	190	191	194	195	196	195	194	194
2	191	190	189	187	190	190	189	189	187	186	183	181	181	189	189	190	191	193	192	194	196	196	195	194	194
3 *	191	190	189	188	189	187	187	186	186	182	180	181	181	184	189	189	190	190	190	190	190	190	188	187	187
4	186	185	185	182	180	180	180	180	182	183	184	182	182	188	187	186	188	188	190	190	194	190	189	186	187
5	186	185	184	183	184	182	182	181	181	177	178	178	176	179	183	185	184	185	186	190	190	190	188	188	185
6	185	186	186	184	184	185	185	184	186	186	186	183	185	186	189	191	187	187	186	186	184	184	184	184	186
7 **	185	181	182	182	184	181	179	180	178	177	183	185	185	203	216	220	226	216	215	206	176	174	180	180	180
8 **	166	156	170	180	184	181	182	180	182	183	184	186	188	196	203	203	206	205	205	200	192	182	180	186	186
9 **	187	189	189	190	187	187	185	178	178	182	186	187	189	204	210	206	205	204	200	192	192	190	190	190	190
10	185	188	185	180	179	179	178	184	183	185	187	194	192	197	200	204	206	202	200	195	194	190	190	190	190
11	184	181	179	176	181	180	180	182	184	186	186	190	190	196	200	204	201	196	196	195	195	190	189	188	188
12	186	184	182	179	180	184	186	184	181	182	184	188	186	191	200	200	199	197	196	195	193	193	190	190	190
13	188	190	190	189	189	189	190	190	189	187	185	184	183	186	193	197	197	196	195	195	193	187	185	184	184
14 **	181	173	154	159	152	138	136	150	164	171	185	189	193	204	202	209	204	201	203	203	204	202	196	193	191
15 **	186	184	1																						

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h		
March																											
43000 γ + Tabular Quantities (in γ)																											
1 *	183	182	182	184	181	181	183	184	183	181	181	180	175	177	181	184	185	185	184	184	186	186	184	184	184		
2	181	175	180	181	182	180	181	186	184	181	177	175	176	180	185	188	190	190	191	194	190	186	186	186	186		
3 *	185	184	182	182	184	184	185	186	185	182	177	174	176	179	181	184	184	184	185	186	185	187	185	184	184		
4	182	180	179	180	180	180	181	182	180	176	180	176	180	188	190	199	200	198	196	198	196	194	188	182	182		
5	182	183	184	184	183	184	186	188	185	181	179	177	176	180	184	189	194	195	200	199	195	195	192	190	190		
6	186	181	175	177	178	180	184	184	181	175	176	176	176	181	185	193	195	194	195	194	183	186	184	184	183		
7 **	183	181	174	171	179	180	180	184	180	180	176	175	179	190	197	224	214	204	199	195	193	193	191	184	184		
8	177	182	185	186	187	186	186	189	186	184	182	180	176	185	186	190	194	198	203	195	191	191	189	189	189		
9	184	174	164	173	180	176	177	180	180	179	178	176	184	190	195	201	210	203	198	189	189	184	176				
10 **	169	178	181	174	170	175	182	184	182	183	186	184	195	202	216	222	210	209	206	197	197	189	181	176			
11	176	184	186	188	188	188	190	190	185	179	176	179	179	184	189	194	195	199	205	199	194	190	190	190	190		
12	185	179	180	183	181	179	180	183	181	179	175	174	178	182	194	204	214	213	207	204	188	189	174	176			
13	172	174	169	169	180	182	184	185	179	177	176	174	175	189	195	205	203	199	192	193	192	191	188	186			
14	185	184	183	180	184	183	183	185	183	179	176	175	180	185	190	193	195	193	195	195	191	190	189	187			
15 *	185	185	186	188	188	188	188	190	185	180	178	175	174	176	180	184	189	190	189	190	191	188	188	188			
16	184	183	183	181	176	179	183	186	185	183	179	174	169	176	183	188	193	195	194	193	192	192	188	188	188		
17 *	186	185	185	185	187	186	186	189	185	181	173	165	163	167	174	181	185	186	186	187	186	186	185	184			
18	184	184	183	183	185	184	183	184	182	182	173	163	164	168	174	180	185	188	194	203	194	194	194	194	194		
19 **	156	155	129	143	164	176	184	188	186	183	179	179	182	187	193	200	198	196	195	196	197	197	191	188			
20	175	183	185	187	191	189	190	188	184	183	179	176	177	181	185	189	192	192	191	195	194	195	193	190			
21	188	189	189	188	188	185	188	189	188	183	184	184	183	183	184	188	193	193	193	197	200	201	195	187			
22	185	188	185	177	178	183	183	183	182	179	175	170	169	167	175	181	183	185	185	189	188	188	188	189			
23	188	189	188	187	187	187	186	189	187	183	174	174	173	179	183	190	195	196	197	198	193	193	183	187			
24 *	187	188	188	188	187	187	188	189	188	185	181	177	173	173	179	185	193	193	187	186	185	187	186	186			
25	185	186	186	187	188	187	187	188	188	187	188	182	175	174	173	174	177	181	185	191	191	198	195	188	181		
26 **	178	179	180	178	173	173	176	174	174	169	168	165	165	176	174	188	190	192	188	187	188	186	185	183			
27 **	166	136	157	139	133	143	152	166	175	176	180	188	183	189	197	206	210	208	207	199	194	186	187	186			
28	183	185	188	189	193	193	193	195	187	182	179	177	181	187	193	200	205	204	203	204	199	196	185	184			
29	183	165	164	174	181	170	159	165	164	166	167	169	175	183	189	200	206	213	214	208	200	199	195	193			
30	189	181	174	181	184	183	185	189	184	184	183	179	179	185	193	193	197	203	200	198	195	194	190	173			
31	168	176	179	181	185	183	186	189	185	184	179	174	175	183	188	193	193	195	195	193	192	193	190	188			
Mean	181	179	179	179	181	181	182	185	182	179	177	175	176	182	187	193	196	196	195	195	193	192	188	185			
Mean *	185	185	184	185	186	185	186	188	185	181	177	173	172	176	180	184	187	187	186	187	186	187	185	185			
Mean **	170	166	164	161	163	169	175	179	179	178	178	178	181	189	195	208	204	202	199	195	194	190	187	183			
April																											
43000 γ + Tabular Quantities (in γ)																											
1	184	184	181	185	189	188	190	192	183	178	172	167	168	173	180	186	190	190	193	199	199	199	195	193	173		
2 **	174	164	154	154	163	170	174	166	157	156	162	192	201	201	203	206	208	209	222	233	222	213	206	192			
3	194	185	181	183	183	190	195	196	195	194	190	186	184	186	192	198	202	205	205	203	200	196	184				
4 **	181	184	189	192	193	194	194	196	196	190	184	192	198	197	203	209	212	213	200	207	206	204	195	191	191		
5 **	191	188	191	190	186	188	193	197	198	192																	

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
May																										
1 **	173	174	179	183	184	186	184	179	182	180	174	171	179	184	217	243	252	241	223	222	211	200	190	179		
2 **	177	180	179	188	191	184	177	177	178	174	168	170	179	196	197	198	201	203	203	200	198	192	189	187		
3	185	186	186	184	185	185	188	188	183	173	169	172	183	194	196	197	195	194	193	193	193	192	190			
4 **	191	191	190	191	191	190	192	186	183	175	171	166	170	178	187	193	190	199	194	193	193	192	190	188		
5	183	166	163	175	182	188	190	188	185	179	174	174	175	181	200	195	195	203	206	204	200	194	193	192		
6 **	190	173	176	185	189	192	191	189	189	182	176	172	181	185	196	199	200	205	209	201	197	193	190	189		
7	190	190	190	187	187	190	184	178	176	177	176	176	184	192	200	206	210	213	207	206	195	190	191	190		
8	187	182	180	185	184	188	186	185	181	182	181	176	180	186	190	192	196	196	194	191	191	190	189			
9	190	190	191	193	194	194	189	186	184	178	170	168	172	176	185	192	196	199	200	199	198	193	191	186		
10	186	188	189	190	192	192	190	187	186	176	170	165	166	174	181	184	190	194	194	192	190	189	190	188		
11	184	186	187	190	190	190	189	184	177	174	172	165	170	174	181	186	187	188	190	190	190	186	187	187		
12	186	181	180	186	188	187	185	180	176	171	165	164	170	176	180	184	187	192	197	195	192	189	186	181		
13 *	181	184	185	189	189	188	186	184	180	174	170	166	168	173	180	180	184	189	191	191	189	186	188	186		
14	186	185	185	186	189	189	186	185	184	180	173	169	169	174	179	185	194	194	192	191	190	189	188	188		
15	185	176	178	185	186	184	184	182	177	175	170	162	165	169	176	184	188	192	195	192	190	189	188	186		
16 *	186	186	185	187	189	190	188	187	186	180	174	168	170	174	180	185	190	191	192	191	191	189	190	188		
17	186	184	187	189	188	188	188	184	179	174	169	163	166	174	180	183	185	185	185	184	185	186	186	186		
18 *	183	182	182	186	188	190	189	183	173	164	160	159	166	172	176	180	183	184	184	182	182	184	184	182		
19	184	182	181	184	185	184	183	176	170	162	158	156	166	174	179	182	185	188	188	185	184	183	183	183		
20 *	183	183	182	184	185	184	181	180	177	171	162	162	165	170	176	182	189	188	187	182	182	184	184	184		
21 *	185	185	185	186	186	186	184	184	184	182	175	170	171	173	180	182	185	187	190	186	185	185	186	184		
22	184	184	186	186	188	189	187	187	184	176	170	170	174	175	183	186	190	192	192	190	189	185	185	184		
23	184	185	187	184	180	180	179	174	167	159	157	159	165	172	180	181	185	189	190	188	189	186	186	185		
24	184	176	180	185	185	185	180	184	184	174	174	171	174	180	186	193	196	197	204	204	203	197	190	180		
25	185	187	188	192	190	189	188	188	188	180	171	160	164	171	180	185	190	194	197	197	194	190	188	186		
26	184	180	176	184	188	189	186	183	179	175	171	171	174	176	184	189	194	194	194	192	191	189	188	186		
27	186	186	185	185	186	187	186	185	180	178	174	170	176	185	189	196	201	202	200	195	192	191	190	189		
28	188	189	189	190	191	192	192	192	189	178	171	168	175	182	187	191	194	194	193	190	189	189	186	186		
29 **	179	176	180	185	185	186	186	184	183	179	176	177	180	185	194	196	205	215	208	204	200	191	175	166		
30	154	164	170	180	184	187	187	185	185	180	174	181	185	194	201	200	199	197	197	193	193	190	190	189		
31	187	187	187	190	190	189	188	187	186	180	177	174	181	186	193	200	206	215	206	201	199	196	192	190		
Mean	184	182	183	186	188	188	186	184	181	176	171	168	173	179	187	191	195	195	193	193	190	188	186			
Mean *	184	184	184	186	187	188	186	184	180	174	168	165	168	172	178	182	186	188	189	186	186	185	185	185		
Mean **	182	179	181	186	188	188	186	183	183	178	173	171	178	186	198	206	210	213	210	207	202	194	187	182		
June																										
1	189	187	185	189	191	191	190	188	190	187	181	174	177	182	187	189	195	199	194	193	192	191	190	188		
2	188	187	186	189	190	191	191	187	185	178	178	174	179	184	190	192	194	193	194	194	194	192	190	189	188	
3 *	187	187	186	189	190	190	191	189	186	182	173	166	166	177	187	187	190	191	190	189	189	187	187	187		
4	187	187	187	188	190	190	190	189	189	187	179	169	161	161	169	179	180	188	190	188	187	187	184	184		
5	181	180	182	186	186	186	186	183	179	171	164	162	170	179	186	190	195	192	195	196	194	190	189	188		
6	186	186	186	190	189	189	188	184	181	176	175	166	166	172	178	183	189	190	192	192	190	187	186	186		
7 *	186	187	187	190	190	189	186	184	183	185	176	168	172	171	179	183	185	189	189	185	185					

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
July	43000 γ + Tabular Quantities (in γ)																								
1	186	185	184	187	189	191	191	185	181	175	168	166	167	172	180	188	191	195	195	192	191	188	187	186	
2	188	187	185	184	183	182	181	181	183	180	179	171	172	178	182	189	191	190	191	191	191	187	188	185	
3	184	185	185	187	188	188	185	181	182	175	172	172	173	177	188	193	197	195	194	191	193	190	189	187	
4	187	187	186	191	190	189	186	185	184	177	174	175	178	184	188	190	187	187	189	188	186	186	185	185	
5	186	187	184	186	186	186	185	180	179	176	177	177	177	177	181	185	192	193	195	194	192	187	187	185	
6	186	185	186	188	187	187	186	185	184	179	172	166	165	168	185	192	197	197	195	193	191	187	182	177	
7	181	180	172	171	175	177	178	181	184	180	175	173	177	181	188	191	195	201	201	195	191	188	185	185	
8	185	186	186	190	189	188	185	181	177	171	157	150	153	161	172	177	185	191	192	190	187	185	185	184	
9 **	184	180	175	180	179	181	178	175	174	170	165	166	170	175	185	192	198	200	200	195	194	191	188	187	
10	185	184	181	185	186	187	191	187	185	184	175	167	171	175	182	185	191	197	200	197	195	187	187	186	
11	186	186	185	187	188	190	192	191	185	178	175	174	174	176	184	190	191	192	193	193	192	189	187	186	
12	185	186	186	188	190	192	191	189	186	181	173	164	167	170	174	176	182	186	189	188	187	186	184	184	
13	176	176	180	184	185	186	185	186	187	184	178	179	179	182	185	191	193	193	191	187	187	186			
14	186	184	183	187	187	189	188	186	182	177	172	171	173	173	178	182	188	189	190	191	187	187	186		
15 **	186	186	184	185	185	187	189	183	180	177	173	176	176	182	185	184	187	192	196	193	191	189	189	189	
16	189	188	187	185	186	186	187	187	180	177	170	170	170	175	183	187	194	198	197	198	191	191	191	190	
17	190	190	190	190	185	177	177	175	175	176	172	175	175	184	191	197	198	196	193	191	190	189			
18	188	186	186	188	188	189	188	187	187	189	184	177	173	172	175	184	186	188	192	197	199	193	188	185	
19 **	181	180	183	186	187	187	187	185	185	178	169	165	166	173	175	183	187	191	191	188	187	185	183	183	
20 **	183	185	183	183	181	184	181	181	183	181	176	171	171	177	184	192	197	195	192	191	191	190	188	187	
21 **	187	187	188	189	188	190	187	184	180	177	172	171	176	181	187	190	192	195	197	198	197	192	189	186	
22	187	188	189	193	193	195	191	187	186	184	180	175	173	177	189	195	197	199	201	195	193	190	189	188	
23	187	188	190	191	191	192	191	189	185	183	183	180	185	187	193	192	196	197	197	193	192	187	188		
24 *	186	187	187	191	192	194	191	186	182	181	179	176	178	185	190	191	191	191	192	191	191	188	188	187	
25 *	187	187	188	189	190	189	189	189	180	188	183	181	177	180	181	186	192	193	193	192	191	187	185	185	
26 *	185	185	184	187	187	190	188	185	179	168	164	162	162	168	177	183	184	187	187	186	186	185	185	184	
27 *	184	183	183	185	186	187	187	187	183	177	174	169	171	175	181	183	188	187	195	195	196	186	186	186	
28 *	185	185	183	186	187	188	189	190	191	189	181	171	166	167	172	178	177	181	185	185	186	185	184	184	
29	183	182	182	185	186	187	187	187	185	182	172	162	154	151	155	167	176	183	185	187	187	188	185	182	
30	181	181	182	182	184	187	185	185	180	177	173	171	170	170	172	177	181	184	186	186	185	185	185	184	
31	182	182	181	179	181	185	181	179	177	175	172	172	174	178	184	186	186	187	186	185	187	185	186	183	
Mean	185	185	184	186	186	187	186	184	183	178	173	170	171	175	182	186	190	192	193	192	190	187	187	185	
Mean *	185	185	185	188	188	190	189	188	184	178	174	170	172	176	182	184	187	189	189	188	188	186	186	185	
Mean **	184	184	183	185	184	186	184	184	182	177	171	170	172	178	183	188	192	195	195	193	192	189	188	186	
August	43000 γ + Tabular Quantities (in γ)																								
1	185	185	184	184	182	182	180	178	177	170	168	164	166	172	176	181	185	186	186	186	187	186	186	186	
2 **	185	185	184	185	183	182	181	178	173	172	164	163	167	172	181	185	186	190	191	192	172	165	161		
3 **	135	132	102	96	103	129	142	148	153	163	170	176	185	192	203	205	203	198	196	196	192	191	187		
4	182	181	184	191	192	193	193	192	189	184	183	179	177	179	187	192	193	194	190	191	191	190	189		
5	189	187	188	191	193	193	189	182	178	173	177	177	177	187	192	195	194	196	196	195	193	191	190		
6	191	191	192	190	188	193	192	188	185	184	178	170	169	176	188	196	199	199	197	194	193	190	188		
7	187	187	187	188	189	193	194	190	185	180	179	175	172	175	184	194	193	194	194	193	192	189	186		
8	188	188	187	190	193	194	190	188	181	174	175	173	174	180	186	188	190	194	199	202	195	189	189		
9	190	188	183	188	189	191	188	187	184	184	180	176	171	174	181	186	190	194	194	193	190	188			

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
September																										
1	179	175	175	183	184	185	187	186	183	179	173	167	171	179	187	191	195	193	189	191	191	192	189			
2 **	183	169	173	172	174	171	173	177	179	174	167	169	180	187	190	195	197	204	204	202	194	193	187	180		
3	180	177	179	187	189	193	194	191	189	183	179	173	171	176	183	188	193	193	191	190	189	187	189	191		
4	190	188	188	190	190	191	192	190	185	178	173	177	184	188	189	191	191	196	193	199	196	196	194	184		
5	176	175	180	188	188	190	193	189	184	176	169	171	176	185	192	195	198	197	194	193	193	191	190	189		
6	189	188	189	192	193	193	194	191	191	186	179	176	178	183	189	194	195	194	190	189	190	189	188	189		
7	189	189	189	189	189	192	190	188	190	186	179	173	180	185	190	193	199	199	198	196	194	190	190	188		
8	188	189	189	190	189	192	194	194	194	194	189	184	180	183	187	191	195	198	198	198	196	196	194			
9 *	187	184	188	193	192	194	194	191	188	183	177	174	176	181	185	188	192	193	194	194	194	192	191	190		
10	190	189	190	189	189	191	193	191	188	184	179	172	172	178	183	187	189	188	189	193	194	193	196	196		
11	192	188	185	189	188	190	192	190	185	182	180	178	179	187	194	195	195	194	193	193	193	187	180			
12	179	183	184	184	184	186	187	187	187	180	172	169	175	184	189	193	197	193	192	194	194	193	192	190		
13	187	187	187	189	189	190	192	191	189	183	176	173	178	183	189	189	190	193	192	190	190	189	187			
14	186	186	185	183	183	184	187	187	187	184	180	179	178	179	187	193	195	198	198	197	194	193	193	193		
15 *	193	193	191	192	189	188	189	189	189	186	181	177	176	180	184	188	186	186	188	188	188	189	189	189		
16 *	189	189	189	189	188	187	189	189	186	181	179	177	182	187	193	194	195	193	193	192	191	190	191	191		
17 *	192	193	192	192	190	189	190	190	192	187	184	182	184	188	193	193	189	189	188	188	188	188	189	189		
18	189	188	179	180	183	187	188	187	186	184	182	181	184	190	193	196	196	195	194	194	194	192	192	192		
19 *	192	192	192	190	192	191	193	193	192	187	184	177	173	177	184	186	190	191	193	192	190	188	189	189		
20	189	189	189	189	190	190	190	190	189	185	182	173	172	177	180	185	189	194	191	193	193	190	190	189		
21 **	191	188	178	167	181	185	188	188	184	180	180	179	179	185	188	193	198	198	197	198	197	196	195	195	193	
22	189	185	187	187	189	189	190	190	193	192	187	182	184	184	188	193	193	198	199	199	193	193	189	182		
23	174	179	183	185	188	189	192	194	191	183	175	171	169	174	179	189	192	190	192	191	199	199	197			
24 **	186	167	172	183	187	190	195	194	189	191	187	181	180	186	194	199	198	197	199	201	202	197	188	182		
25	185	185	181	183	187	189	192	192	194	190	188	181	176	177	183	187	193	193	194	197	202	199	197	194	184	
26	180	169	179	186	189	191	194	196	195	190	183	177	178	184	189	194	194	196	196	196	195	194	193	192		
27 **	192	191	190	189	189	190	193	193	191	187	182	179	182	185	188	194	194	200	207	208	208	207	197	189	193	
28	194	194	193	192	193	191	195	197	197	192	184	185	187	193	194	198	196	194	194	197	196	193	193			
29	192	193	192	191	191	187	189	192	192	188	184	184	182	179	184	188	194	194	195	196	197	197	194	193		
30 **	193	192	190	190	192	189	189	193	193	189	183	177	176	177	186	199	227	221	209	204	213	198	203	201	189	
Mean	187	185	185	187	188	189	191	191	188	184	178	176	178	184	189	193	195	195	195	195	194	193	191	189		
Mean *	191	190	190	191	190	190	191	191	187	183	178	176	180	185	189	191	191	191	191	191	191	190	190	189	190	
Mean **	189	181	181	180	185	185	188	188	189	186	183	179	177	180	186	192	202	202	202	202	204	200	197	192	187	
October																										
1 **	176	188	193	194	193	192	194	195	191	193	193	189	195	194	196	198	198	203	210	208	203	202	188	178	188	
2	190	192	193	194	196	194	197	198	197	195	188	186	188	195	198	201	200	197	198	196	195	192	190			
3	190	189	188	191	191	187	191	195	193	191	185	183	186	186	194	201	206	204	201	198	194	188	186	178		
4	176	182	188	191	195	196	198	197	189	186	186	187	191	196	200	203	201	198	197	196	193	190	192	192		
5 *	192	192	190	188	192	193	197	199	199	196	190	182	182	186	193	197	199	198	195	195	193	192	191	191		
6	190	191	190	189	192	192	196	196	196	189	181	177	180	179	182	188	196	195	196	196	197	198	198	188		
7	189	192	192	193	195	195	198	198	196	191	186	182	183	188	195	201	199	198	197	197	198	196	192	191		
8 *	192	192	194	193	194	194	197	200	198	194	187	183	187	188	193	197	196	196	194	194	193	193	193	193		
9 *	189	187	184	187	189	189	193	193</td																		

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h		
November																											
1	196	197	197	197	197	198	196	195	196	194	191	187	185	190	198	199	200	195	195	195	194	194	192	192	193	192	
2	192	193	194	193	192	191	189	189	187	184	184	179	184	184	193	194	194	194	193	193	191	192	192	192	192	192	
3	192	193	193	193	194	193	193	192	189	183	179	182	188	196	198	200	202	203	203	200	197	197	196	196	196	196	
4 **	193	194	194	192	196	193	193	194	193	192	192	193	197	205	207	214	218	210	208	207	204	203	198	193	193	193	
5 **	195	195	195	189	184	189	187	189	191	189	193	194	197	203	207	212	209	211	219	220	216	201	181	185			
6 **	185	182	182	182	183	179	183	188	189	194	197	196	197	203	211	207	203	203	202	202	202	203	201	199			
7	197	197	197	197	199	198	198	197	194	193	189	189	192	197	199	203	202	201	202	203	204	199	197				
8	195	193	188	189	192	190	192	194	191	191	192	192	192	195	196	198	197	197	197	197	197	196	196	195			
9	193	191	191	189	192	192	195	197	194	193	190	190	190	195	197	200	199	199	198	197	199	196	194	197			
10 **	194	194	194	194	195	194	193	193	189	184	185	186	189	193	195	196	200	212	209	203	201	200	199				
11	199	198	197	197	197	195	197	199	197	197	192	191	195	199	199	198	199	198	199	200	198	197	195	196			
12	195	194	193	193	192	192	193	194	197	197	192	192	196	197	199	198	196	195	195	193	193	192	192	194			
13 *	194	194	193	192	192	190	191	192	192	191	187	188	193	196	195	195	195	194	193	193	193	194	190	192			
14	191	191	190	190	188	189	190	190	189	189	186	190	194	197	197	197	197	199	199	197	196	195	194	194			
15 *	193	193	193	193	193	194	194	192	187	183	187	187	193	198	198	196	195	196	196	196	196	196	193	193			
16	193	193	193	192	192	189	189	191	191	192	191	187	190	194	197	197	197	197	197	196	195	194	193	193			
17	193	193	193	193	191	191	191	193	193	192	190	189	192	196	197	195	195	194	194	193	193	192	189	193			
18	189	185	189	190	193	192	191	193	193	193	192	193	193	193	196	200	203	201	200	197	197	195	194	193			
19	193	194	193	189	192	192	192	192	190	192	188	184	185	187	189	194	197	197	196	196	196	195	192	193			
20 **	194	194	192	193	190	187	186	185	184	186	187	188	192	200	208	222	234	234	233	226	215	213	206	199			
21	199	200	200	200	201	201	199	200	196	195	191	192	195	200	201	203	203	203	203	202	202	198	198				
22	198	199	199	198	200	198	198	198	195	191	192	198	199	190	197	198	199	200	202	201	200	198	197				
23	195	194	193	193	195	195	196	196	195	195	196	195	195	195	198	200	202	203	204	204	202	200	198	197			
24 *	195	195	195	195	195	196	196	195	195	194	193	189	190	193	197	198	196	197	197	198	197	196	196	196			
25 *	194	194	194	194	193	193	194	194	194	190	189	188	190	190	191	194	195	195	195	195	195	194	194	194			
26	194	189	188	188	189	191	193	194	194	192	191	193	195	198	200	200	198	198	197	196	197	197	194	196			
27 *	197	196	194	192	193	193	194	194	194	192	192	193	194	197	196	195	195	195	194	195	195	193	195	195			
28	194	194	194	193	194	193	193	193	192	190	189	188	190	192	196	198	199	199	199	199	198	196	194	194			
29	193	193	193	192	193	191	190	189	186	187	184	184	187	192	193	195	195	195	195	194	194	192	190	192			
30	189	189	188	189	192	191	188	188	183	183	185	186	185	185	189	192	195	198	197	195	195	196	197	194	195		
Mean	194	193	193	192	193	192	192	193	192	191	189	189	192	196	198	200	200	200	200	199	198	197	195	195			
Mean *	195	194	194	193	193	193	194	193	192	190	188	189	192	195	195	196	195	195	195	195	195	195	193	194			
Mean **	192	192	191	190	190	188	188	190	189	189	191	191	194	201	206	210	213	214	214	212	208	204	197	195	195		
December																											
1	194	193	194	194	195	193	189	191	188	187	188	188	193	198	199	202	204	204	204	203	200	199	199	198	197		
2	195	187	186	190	194	193	193	193	191	189	189	187	190	197	200	202	204	213	211	212	207	200	199	198			
3	197	193	191	194	196	196	194	196	191	185	182	196	190	195	199	200	198	202	199	197	196	194	194	193			
4	193	193	192	192	194	192	194	192	194	193	192	189	191	193	197	197	197	196	196	196	197	194	194	194			
5	194	194	193	191	193	192	193	194	194	194	190	192	192	193	196	197	198	198	198	198	198	198	196	195			
6	192	187	189	191	193	193	192	192	191	191	193	193	194	194	196	197	197	199	200	201	200	198	198	194	194		
7 *	194	192	193	194	196	196	197	195	194	193	192	191	190	194	194	197	198	198	197	195							

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

Date	DECLINATION WEST					HORIZONTAL INTENSITY					VERTICAL INTENSITY							
	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range		
January	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+		
1	13.0	16 31	81.9	58.9	20 42	23.0	545	7 30	573	472	14 41	101	197	15 55	230	179	0 35	51
2	11.9	12 21	75.9	65.3	20 13	10.6	550	7 13	565	534	1 40	31	195	20 25	204	190	12 35	14
3 *	12.1	12 55	74.7	70.7	23 30	4.0	557	16 50	568	546	13 55	22	192	14 12	198	187	8 32	11
4 *	11.9	12 2	75.1	63.7	24 0	11.4	562	14 2	573	547	23 45	26	191	21 18	196	184	2 10	12
5	11.7	9 57	75.5	66.3	18 28	9.2	557	0 21	634	531	16 16	103	189	17 50	203	170	0 58	33
6 *	11.9	12 59	75.3	66.9	21 2	8.4	557	17 41	574	543	23 28	31	190	22 52	199	185	3 50	14
7 *	11.9	13 0	75.3	69.8	20 25	5.5	562	16 52	569	553	2 33	16	189	0 0	196	183	12 55	13
8	12.3	12 50	77.0	67.0	20 26	10.0	562	4 50	575	540	16 2	35	188	14 20	196	179	8 35	17
9	11.7	12 52	74.7	64.1	23 20	10.6	566	1 4	592	541	17 7	51	185	17 50	196	179	12 30	17
10	11.2	13 18	75.6	47.7	22 52	27.9	566	22 55	636	521	23 42	115	186	21 5	195	170	23 30	25
11 **	9.9	7 12	75.0	40.4	17 48	34.6	549	3 48	581	471	17 23	110	190	17 45	229	171	4 39	58
12	11.5	7 52	76.1	61.5	15 17	14.6	547	23 38	580	495	14 53	85	194	15 40	217	182	0 16	35
13 **	10.6	13 20	77.9	55.2	19 38	22.7	550	0 59	617	482	13 56	135	191	18 46	218	160	1 25	58
14 **	11.3	7 16	77.5	45.6	17 48	31.9	547	18 0	578	448	17 22	130	193	17 55	224	179	3 41	45
15 **	10.1	0 18	78.2	50.7	19 54	27.5	551	22 47	592	493	19 16	99	188	20 0	213	169	0 58	44
16 **	10.4	1 8	77.8	58.1	16 56	19.7	546	22 4	585	491	14 26	94	193	15 20	215	169	1 46	46
17	11.4	5 24	78.2	58.6	20 49	19.6	553	5 50	580	512	14 37	68	191	15 17	217	169	0 36	48
18	11.2	10 31	78.9	59.8	19 38	19.1	549	19 55	587	491	10 12	96	193	16 14	205	181	5 30	24
19	11.7	3 0	78.6	63.1	16 33	15.5	558	23 0	584	521	16 22	63	190	16 42	202	178	3 30	24
20	11.3	13 41	76.2	61.4	22 0	14.8	554	21 45	578	529	11 29	49	191	19 10	201	181	0 15	20
21	11.4	12 15	74.2	66.9	19 7	7.3	557	16 10	569	538	11 40	31	191	13 50	203	182	2 10	21
22	11.6	12 50	75.3	66.4	20 10	8.9	559	0 45	592	542	12 4	50	190	14 30	200	180	1 32	20
23	11.3	13 48	74.2	67.8	22 40	6.4	560	23 30	603	542	10 18	61	189	15 25	196	178	24 0	18
24	11.6	13 46	75.0	67.5	0 38	7.5	561	19 21	574	540	16 35	34	188	15 18	196	176	0 31	20
25	11.7	13 40	75.1	63.2	21 42	11.9	566	7 45	577	544	15 29	33	188	16 30	197	174	10 25	23
26	11.5	13 40	77.3	55.6	22 29	21.7	564	14 10	600	515	20 15	85	190	20 34	218	178	10 25	40
27	11.2	11 41	76.7	67.0	0 6	9.7	553	13 45	575	524	19 52	51	193	20 25	207	177	11 40	30
28	11.5	14 40	75.7	65.2	1 3	10.5	561	20 26	577	545	11 16	32	190	20 15	198	180	10 20	18
29	11.9	15 59	75.5	66.9	21 9	8.6	560	8 0	572	540	15 18	32	191	17 20	198	180	13 2	18
30 *	11.9	13 22	75.1	67.8	21 40	7.3	562	15 15	572	552	9 34	20	188	17 20	192	174	13 10	18
31	12.0	16 59	77.7	64.7	23 24	13.0	561	6 10	577	535	21 21	42	191	20 25	208	179	12 50	29
Mean	11.5	-	76.4	61.8	-	14.6	557	-	584	522	-	62.3	190	-	205	178	-	27.9
Mean *	11.9	-	75.1	67.8	-	7.3	560	-	571	548	-	23.0	190	-	196	183	-	13.6
Mean **	10.5	-	77.3	50.0	-	27.3	549	-	591	477	-	113.6	191	-	220	170	-	50.2
February	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+		
1	11.4	14 50	75.1	66.9	1 35	8.2	559	16 7	572	541	0 2	31	190	21 20	197	175	12 38	.22
2	11.6	15 48	75.0	66.1	22 21	8.9	563	6 50	579	549	21 40	30	190	21 16	198	179	11 40	19
3 *	11.7	14 0	74.4	69.2	20 27	5.2	565	9 10	574	551	0 15	23	187	19 25	193	177	13 0	16
4	11.5	14 9	75.1	65.3	19 15	9.8	570	10 10	587	547	18 52	40	185	19 25	197	177	13 2	20
5	11.8	13 55	74.4	66.6	21 58	7.8	570	10 3	584	549	19 50	35	184	21 20	193	173	12 56	20
6	11.2	13 31	73.9	68.1	0 10	5.8	567	9 35	577	554	15 33	23	185	15 20	192	179	11 58	13
7 **	10.9	13 34	87.0	50.5	19 58	36.5	551	20 52	612	457	13 1	155	191	16 20	236	168	22 21	68
8 **	11.2	6 59	78.9	56.6	20 54	22.3	548	21 15	649	500	13 21	149	187	18 0	214	147	1 2	67
9 **	11.5	7 1	82.1	58.0	19 19	24.1	548	19 31	601	491	13 0	110	192	15 20	214	172	7 31	42
10	10.4	3 22	76.7	57.9	18 39	18.8	553	19 5	595	509	10 21	86	190	16 10	206	173	3 51	33
11	10.9	2 13	78.3	65.1	20 3	13.2	550	21 9	586	503	10 21	83	189	15 44	209	174	2 57	35
12	11.1	3 26	76.1	65.3	19 36	10.8	554	15 51	577	511	13 20	66	189	14 22	204	178	3 56	26
13	10.6	15 5	74.2	56.5	23 21	17.7	561	23 23	635	531	16 20	104	190	16 55	200	175	23 53	25
14 **	10.7	6 1	89.6	59.8	1 11	29.8	543	4 33	633	472	9 52	161	181	15 10	210	127	6 16	83
15 **	9.2	2 10	77.3	56.7	17 59	20.6	549	22 53	585	515	12 45	70	190	19 40	209	168	2 40	41
16	11.0	11 45	74.2	68.7	21 36	5.5	552	21 44	574	523	10 39	51	192	21 30	200	179	0 0	21
17	10.8	13 44	74.6	65.8	21 18	8.8	557	21 10	573	538	14 12	35	189	17 30	195	181	0 45	14
18 *	11.2	11 28	74.3	69.4	4 14	4.9	560	16 28	570	541	11 0	29	190	15 19	194	181	10 53	13
19	11.4	12 21	76.2	69.1	7 0	7.1	564	8 10	574	542	11 20	32	186	1 10	191	178	13 0	13
20	11.2	14 48	79.8	61.8	18 50	18.0	557	23 21	592	521	14 32	71	190	21 30	207	172	10 40	35
21	10.1	11 44	74.5	63														

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

Date	DECLINATION WEST					HORIZONTAL INTENSITY					VERTICAL INTENSITY						
	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum		
March	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m	
1 *	10.3	13 45	73.7	65.6	24 0	8.1	570	20 33	584	555	23 20	29	183	21 38	189	173	12 35
2	10.2	13 0	76.2	58.5	20 17	17.7	564	20 30	599	534	20 4	65	184	20 29	198	173	10 44
3 *	10.6	12 10	74.8	67.9	9 5	6.9	569	23 0	577	554	10 45	23	183	7 51	189	171	11 0
4	11.0	12 40	80.4	63.3	22 15	17.1	560	2 41	591	485	9 33	106	186	16 43	202	172	9 5
5	10.5	17 34	75.5	66.1	23 13	9.4	560	21 40	580	530	18 20	50	187	18 50	204	174	12 10
6	9.7	3 45	77.1	55.7	19 17	21.4	562	19 24	620	533	18 21	87	183	18 50	199	172	9 50
7 **	10.3	2 33	77.2	55.4	15 20	21.8	554	23 10	606	482	14 40	124	188	15 40	230	166	2 52
8	10.2	12 14	77.3	55.0	18 58	22.3	557	19 10	620	495	18 3	125	187	19 3	207	170	12 20
9	10.2	1 1	77.2	61.7	19 0	15.5	560	19 3	606	499	11 42	107	185	16 25	212	163	2 22
10 **	10.0	13 42	78.4	54.1	18 13	24.3	549	22 29	608	474	12 4	134	190	15 35	228	164	0 1
11	10.5	13 10	75.2	58.4	18 45	16.8	555	23 48	580	506	18 40	74	188	19 2	207	172	0 3
12	10.0	14 10	75.8	59.3	19 25	16.5	559	21 55	636	473	15 31	163	187	16 0	218	169	22 40
13	11.1	2 23	76.4	64.4	16 42	12.0	560	0 16	580	510	14 42	70	185	16 48	206	164	2 45
14	10.3	11 53	74.2	60.4	19 7	13.8	559	19 22	583	530	10 13	53	185	19 16	200	173	12 10
15 *	10.4	13 21	74.6	65.6	22 14	9.0	560	21 30	576	539	11 22	37	185	21 29	196	171	13 0
16	10.7	12 18	75.2	66.8	2 36	8.4	559	4 40	574	532	11 58	42	184	17 25	196	168	12 40
17 *	10.6	13 33	74.9	67.1	8 45	7.8	565	21 46	577	551	10 30	26	182	7 20	191	161	13 0
18	9.1	13 30	76.5	52.2	22 40	24.3	567	22 55	597	511	20 39	86	182	20 50	208	160	24 0
19 **	7.0	13 30	76.8	51.7	0 29	25.1	545	23 55	608	509	11 34	99	181	15 20	204	121	2 26
20	9.8	12 58	74.8	66.3	18 58	8.5	554	23 13	568	534	11 45	34	187	19 25	197	170	0 6
21	9.3	13 1	74.2	63.2	22 52	11.0	556	23 6	604	538	11 30	66	189	21 25	203	181	12 55
22	10.4	13 11	80.2	65.0	8 4	15.2	563	16 20	588	541	4 38	47	181	23 20	192	163	13 15
23	9.8	13 42	75.3	62.8	18 46	12.5	561	21 50	612	527	18 36	85	187	18 56	201	170	10 40
24 *	10.3	13 30	75.7	65.4	8 11	10.3	566	16 11	578	547	12 40	31	185	16 25	194	171	11 40
25	11.1	13 52	77.8	64.5	22 53	13.3	572	22 32	607	534	18 25	73	185	19 15	200	170	11 5
26 **	10.5	13 46	80.1	64.3	7 31	15.8	562	23 42	643	496	14 16	147	179	23 43	197	156	14 17
27 **	10.0	4 41	86.9	57.3	1 36	29.6	535	1 2	665	452	9 51	213	178	18 10	214	111	1 12
28	9.1	14 40	74.5	58.7	24 0	15.8	546	21 47	585	517	9 57	68	191	16 32	209	176	11 0
29	9.4	13 25	76.5	56.5	2 10	20.0	546	1 18	595	505	10 20	90	183	17 50	217	155	2 1
30	8.8	14 41	74.5	62.0	23 3	12.5	557	23 16	629	530	13 27	99	187	17 47	211	165	24 0
31	9.5	12 14	76.9	63.3	0 30	13.6	553	23 19	571	521	11 40	50	185	17 45	196	165	0 2
Mean	10.0	-	76.6	61.2	-	15.4	558	-	598	518	-	80.7	185	-	203	165	-
Mean *	10.4	-	74.7	66.3	-	8.4	566	-	578	549	-	29.2	184	-	192	169	-
Mean **	9.6	-	79.9	56.6	-	23.3	549	-	626	483	-	143.4	183	-	215	144	-
April	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m
1	9.1	13 40	76.9	57.5	19 56	19.4	558	22 50	638	536	21 50	102	185	20 0	204	165	12 40
2 **	10.2	8 1	92.8	55.3	19 35	37.5	504	2 18	596	259	10 3	337	188	19 0	241	136	9 36
3	10.1	2 33	78.2	64.5	0 10	13.7	542	22 55	602	503	4 19	99	193	18 32	207	174	2 45
4 **	9.5	13 45	76.3	64.1	17 25	12.2	547	22 10	598	463	10 53	135	197	17 30	217	180	10 50
5 **	9.0	13 56	75.9	54.3	18 35	21.6	554	22 15	617	502	11 11	115	195	18 41	221	178	23 7
6 **	9.8	12 58	77.0	58.3	17 31	18.7	548	17 40	598	484	10 17	114	195	17 37	223	179	2 39
7	8.6	2 16	78.5	55.7	21 32	22.8	554	20 42	633	520	8 45	113	191	19 7	215	171	2 35
8	9.4	12 44	76.5	60.3	20 31	16.2	558	20 38	603	490	12 58	113	191	17 21	205	174	0 42
9	9.2	13 22	77.3	53.9	22 21	23.4	562	22 38	608	524	10 30	84	189	7 10	197	170	11 35
10	10.4	13 3	77.6	63.1	0 0	14.5	558	5 30	606	506	9 28	100	188	15 15	209	172	1 20
11	8.8	12 45	74.0	60.7	21 19	13.3	561	21 26	605	520	17 28	85	190	18 3	217	177	1 50
12	9.5	1 46	76.8	65.7	0 31	11.1	562	1 23	584	536	12 0	48	186	18 32	200	164	1 56
13 *	9.4	13 40	73.9	65.5	9 3	8.4	563	21 6	576	539	11 40	37	188	7 0	195	170	11 50
14 *	9.4	13 44	74.0	65.0	9 11	9.0	570	7 5	585	546	11 33	39	186	6 20	194	168	12 0
15	10.8	14 46	78.3	64.8	9 9	13.5	577	21 30	629	540	11 14	89	186	21 27	201	171	12 5
16 **	10.8	2 38	83.7	51.3	17 1	32.4	545	2 42	628	480	11 2	148	197	17 18	256	157	3 12
17	9.4	13 50	76.0	63.1	24 0	12.9	555	18 20	575	520	11 36	55	191	20 42	200	177	12 5
18	8.6	13 41	75.1	63.1	0 20	12.0	561	22 50	588	543	11 18	45	188	18 25	200	170	11 20
19 *	8.8	13 40	74.0	64.3	7 40	9.7	566	21 20	577	552	10 28	25	189	15 46	196	175	10 58
20	9.1	12 59	74.7	64.6	7 15	10.1	568	16 10	582	549	10 42	33	186	20 30	195	164	12 4
21	9.3	12 50	77.0	64.8	7 55	12.2	569	15 35	592	546	12 40	46	184	4 20	193	167	11 35
22 *	9.6	13 0	75.8	65.3	7 45	10.5	568	17 8	583	546	10 32	37	184	16 28	194	158	12 0
23 *	9.4	13 50	75.0	64.5	8 30	10.5	571	17 51	583	549	10 41						

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

Date	DECLINATION WEST					HORIZONTAL INTENSITY					VERTICAL INTENSITY						
	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	
May	10°+	U.T. h m	9°+	9°+	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m
1 **	9.3	14 13	84.4	60.2	22 36	24.2	562	17 30	623	492	17 1	131	195	16 24	266	169	11 15
2 **	10.2	5 58	76.9	65.7	0 0	11.2	557	20 52	590	494	11 19	96	187	18 2	205	164	10 49
3	9.1	12 18	74.9	63.4	7 26	11.5	561	23 41	576	520	13 4	56	187	16 5	198	165	11 52
4 **	8.7	12 22	75.3	51.2	20 55	24.1	564	21 3	626	525	13 39	101	189	18 55	215	164	11 30
5	8.1	13 21	75.0	63.1	7 46	11.9	562	0 38	621	517	13 37	104	187	18 18	211	158	2 29
6 **	8.7	0 50	75.2	58.5	18 18	16.7	563	18 22	637	507	11 28	130	190	18 23	219	167	11 11
7	9.4	11 57	74.3	64.3	21 20	10.0	560	20 22	596	516	7 23	80	191	16 10	215	172	11 2
8	9.0	12 41	75.5	63.4	7 11	12.1	562	16 30	579	522	8 30	57	187	16 36	200	174	11 50
9	8.8	13 10	75.2	63.0	19 39	12.2	569	17 58	592	553	8 59	39	188	18 40	201	166	11 54
10	8.9	13 7	74.4	64.0	7 40	10.4	573	23 38	591	551	9 50	40	185	17 35	195	161	11 59
11	8.6	12 41	73.5	63.9	6 25	9.6	576	19 50	597	554	12 32	43	184	18 32	200	162	11 35
12	8.4	14 11	73.2	64.3	6 0	8.9	575	22 35	603	548	12 38	57	182	18 40	200	162	10 54
13 *	8.9	16 18	73.5	64.7	7 50	8.8	573	18 20	592	549	11 18	43	183	18 25	192	164	11 50
14	7.9	14 3	72.2	64.3	8 45	7.9	572	19 10	588	546	11 40	42	185	16 45	195	167	11 51
15	8.1	13 15	73.4	62.7	4 20	10.7	571	0 45	595	547	12 37	48	182	18 20	196	158	12 0
16 *	8.5	13 15	73.7	63.4	7 41	10.3	572	18 45	588	553	12 47	35	185	18 40	194	166	12 0
17	8.8	13 40	74.4	63.8	6 50	10.6	577	20 42	589	565	7 52	24	182	4 45	190	160	11 38
18 *	9.2	11 50	74.0	64.3	5 50	9.7	575	21 10	596	551	8 2	45	179	5 25	190	157	11 36
19	9.1	13 2	75.6	62.9	5 55	12.7	576	19 30	591	555	8 5	36	179	17 20	189	155	10 56
20 *	9.3	13 33	75.8	63.7	6 22	12.1	575	22 23	589	552	8 27	37	179	16 50	190	158	10 50
21 *	8.2	13 20	74.4	62.2	7 58	12.2	578	22 30	595	555	10 30	40	183	18 23	194	167	11 40
22	8.6	13 50	75.3	62.1	8 5	13.2	580	21 3	603	559	9 40	44	184	17 10	193	168	10 40
23	9.4	14 25	77.2	62.2	7 12	15.0	578	21 0	594	555	10 20	39	179	18 8	193	154	9 50
24	9.3	15 8	75.4	62.9	7 0	12.5	573	0 46	611	541	9 30	70	186	19 10	205	167	11 40
25	9.5	14 5	76.2	64.6	7 50	11.6	572	19 43	601	549	11 36	52	185	19 2	200	157	11 36
26	8.3	15 32	73.9	62.4	8 18	11.5	573	1 32	609	541	10 43	68	184	16 55	198	167	11 7
27	8.7	12 32	74.5	63.3	7 37	11.2	576	3 0	605	546	12 46	59	187	17 25	204	168	11 31
28	8.7	14 39	72.7	64.0	6 40	8.7	577	19 41	600	555	14 43	45	187	17 17	196	164	11 36
29 **	8.7	23 31	77.3	60.2	23 2	17.1	574	21 57	642	526	11 6	116	187	17 10	223	153	23 54
30	8.2	13 39	73.3	63.6	1 50	9.7	566	0 12	600	519	11 42	81	185	16 0	202	150	0 28
31	8.8	11 50	73.3	64.1	7 30	9.2	572	15 30	614	554	13 2	60	191	17 22	220	171	11 40
Mean	8.8	-	75.0	62.8	-	12.2	571	-	601	539	-	61.9	185	-	203	163	-
Mean *	9.8	-	74.3	63.7	-	10.6	575	-	592	552	-	40.0	182	-	192	162	-
Mean **	9.1	-	77.8	59.2	-	18.7	564	-	624	509	-	114.8	190	-	226	163	-
June	10°+	U.T. h m	9°+	9°+	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m
1	8.0	12 51	73.3	61.3	7 42	12.0	570	20 3	592	549	10 36	43	188	17 18	201	171	11 40
2	8.4	12 52	75.3	61.5	6 20	13.8	568	20 44	590	538	10 41	52	188	20 24	197	171	11 45
3 *	8.8	12 42	74.3	65.3	7 20	9.0	574	22 1	589	556	7 20	33	185	17 10	193	161	12 2
4	8.3	12 55	74.5	62.6	7 35	11.9	581	20 50	635	563	7 45	72	183	14 50	198	160	11 19
5	9.0	12 57	75.2	62.8	6 10	12.4	581	0 24	612	554	17 41	58	184	16 50	198	160	11 38
6	8.4	12 0	74.5	61.2	7 35	13.3	577	17 40	594	561	18 13	33	184	19 6	196	162	12 0
7 *	9.3	12 46	77.5	63.5	8 4	14.0	582	14 10	602	562	8 40	40	183	17 27	193	165	11 38
8 *	9.0	13 0	74.0	64.2	8 37	9.8	580	16 40	597	560	9 34	37	183	16 40	194	165	11 0
9	8.6	14 11	76.1	62.6	5 53	13.5	581	3 40	602	548	10 43	54	182	16 30	197	161	10 44
10 *	8.8	13 35	74.4	64.1	4 16	10.3	578	18 50	601	549	12 36	52	181	18 19	194	160	12 0
11	8.8	14 13	76.3	63.6	7 58	12.7	574	15 35	607	538	9 30	69	184	18 25	204	161	12 28
12 *	8.7	13 20	75.1	64.1	5 30	11.0	572	20 5	590	543	10 10	47	183	16 50	193	167	10 50
13	8.6	14 10	75.6	63.2	8 55	12.4	583	17 50	609	558	10 25	51	183	20 20	196	157	12 2
14	8.8	12 45	76.2	63.2	7 20	13.0	578	23 12	600	549	13 19	51	185	18 3	204	164	10 45
15 **	7.0	13 58	75.8	60.4	22 54	15.4	573	18 3	613	533	12 55	80	184	18 2	215	166	3 12
16	8.0	14 10	75.8	60.8	6 28	15.0	569	19 32	601	538	7 46	63	184	18 33	200	172	11 50
17	7.4	12 28	72.4	61.5	6 56	10.9	572	23 25	597	550	9 40	47	184	15 54	200	162	11 27
18	7.9	12 45	73.3	63.5	6 10	9.8	575	21 0	594	545	12 30	49	184	17 25	197	163	11 32
19	8.1	14 22	74.2	62.4	6 0	11.8	574	19 20	600	550	10 40	50	187	5 30	196	173	10 1
20	7.6	13 13	75.7	59.2	5 48	16.5	574	23 20	616	537	9 30	79	181	20 32	198	152	10 2
21 **	8.0	13 41	75.9	61.2	4 41	14.7	576	5 37	616	526	8 53	90	182	17 50	202	163	8 46
22 **	7.6	15 26	76.2	60.1	0 29	16.1	577	15 24	619	523	15 51	96	188	16 20	218	166	5 2
23 **	8.4	13 2	77.0	62.4	5 55	14.6	571	16 13	602	516	7 24	86	187	16 12	213	172	10 5

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	'	Y	Mean Daily Value	Maximum	Minimum	'	Y			
July	10°+	U.T. h m	9°+	9°+	U.T. h m	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m			
1	7.9	13 59	75.1	62.6	5 30	12.5	577	19 51	602	550	10 24	52	184	17 48	197	163	12 2	34
2	8.5	13 45	73.8	61.2	8 0	12.6	579	23 22	610	553	12 8	57	184	16 30	194	167	11 48	27
3	8.5	13 8	77.6	62.2	7 38	15.4	580	22 39	606	545	9 38	61	185	16 35	202	165	11 52	37
4	8.1	13 15	74.3	62.6	5 35	11.7	582	19 30	614	551	9 41	63	185	19 28	194	172	11 55	22
5	8.6	14 10	76.7	61.0	6 5	15.7	581	15 12	599	553	10 25	46	185	18 50	197	173	12 48	24
6	8.6	12 48	77.2	62.7	8 2	14.5	581	22 15	623	549	9 20	74	184	16 40	199	161	11 56	38
7	7.2	13 47	76.8	59.7	6 0	17.1	577	2 14	608	549	11 9	59	184	18 0	203	168	3 5	35
8	7.9	14 0	74.9	61.5	7 12	13.4	577	24 0	603	551	9 30	52	179	18 10	195	148	11 22	47
9 **	8.3	13 31	77.1	60.5	8 0	16.6	574	1 24	619	524	9 13	95	183	17 20	205	162	10 20	43
10	8.7	14 36	78.4	63.0	6 40	15.4	574	20 16	626	542	10 40	84	185	20 10	202	165	11 55	37
11	8.4	14 31	73.9	64.6	9 2	9.3	572	18 30	594	542	10 26	52	186	18 40	194	172	11 5	22
12	7.6	15 10	72.4	61.9	8 4	10.5	582	23 50	610	552	10 26	58	183	5 45	193	162	11 46	31
13	7.8	14 7	74.0	62.3	5 49	11.7	579	0 0	609	546	11 9	63	185	18 30	195	174	0 36	21
14	7.9	14 34	73.6	62.4	5 50	11.2	578	17 40	609	540	11 16	69	184	19 25	194	167	11 15	27
15 **	8.1	13 15	74.5	62.1	6 3	12.4	570	0 0	595	537	12 24	58	185	18 10	198	172	10 40	26
16	7.6	14 0	74.7	60.8	5 30	13.9	575	19 1	614	552	12 51	62	186	19 1	205	168	11 24	37
17	8.3	13 12	75.7	62.1	8 0	13.6	571	4 50	590	535	11 35	55	185	16 55	199	170	11 50	29
18	8.0	14 0	74.5	62.9	7 35	11.6	573	19 15	595	553	12 21	42	186	19 15	202	170	11 47	32
19 **	7.7	13 19	75.8	61.2	1 27	14.6	576	18 50	599	539	12 44	60	182	16 45	194	159	11 40	35
20 **	8.0	13 33	75.8	60.9	6 36	14.9	572	3 40	597	526	13 45	71	185	16 50	200	167	12 1	33
21 **	7.6	14 52	72.9	62.0	5 30	10.9	572	17 57	601	530	12 30	71	187	19 20	200	166	10 50	34
22	7.0	13 30	71.8	61.7	6 45	10.1	572	18 12	603	536	8 40	67	189	18 15	205	169	12 10	36
23	7.7	13 35	72.9	62.6	5 56	10.3	572	18 10	588	546	8 10	42	189	18 11	200	177	11 37	23
24 *	7.1	14 6	71.4	61.8	7 57	9.6	572	19 31	591	546	11 43	45	187	5 33	198	173	11 45	25
25 *	8.0	13 52	73.8	63.1	7 45	10.7	574	21 30	591	547	12 39	44	187	17 25	195	175	11 40	20
26 *	7.3	15 39	73.1	61.2	8 32	11.9	576	20 50	598	535	11 34	63	181	5 40	191	159	12 0	32
27 *	7.7	14 35	73.4	62.7	6 35	10.7	580	18 58	607	555	10 50	52	183	16 44	193	167	11 45	26
28 *	7.7	12 8	72.2	63.2	22 46	9.0	578	19 20	610	558	9 23	52	182	7 0	195	162	12 7	33
29	7.5	13 30	73.7	63.6	5 40	10.1	579	20 50	606	560	10 45	46	179	5 41	190	147	12 10	43
30	7.2	14 15	72.6	61.4	6 26	11.2	576	19 11	596	553	15 40	43	181	5 27	190	168	13 0	22
31	7.3	11 48	73.4	62.2	7 0	11.2	579	19 40	600	555	12 11	45	181	17 30	189	168	10 45	21
Mean	7.9	-	74.5	62.1	-	12.4	576	-	604	545	-	58.2	184	-	197	166	-	30.7
Mean *	7.6	-	72.8	62.4	-	10.4	576	-	599	548	-	51.2	184	-	194	167	-	27.2
Mean **	7.9	-	75.2	61.3	-	13.9	573	-	602	531	-	71.0	184	-	199	165	-	34.2
August	10°+	U.T. h m	9°+	9°+	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y
1	7.6	12 12	74.5	62.3	4 25	12.2	575	4 10	592	535	12 29	57	180	21 30	189	159	12 15	30
2 **	6.9	13 40	74.5	56.1	23 10	18.4	583	18 55	635	553	16 49	82	178	18 50	198	149	24 0	49
3 **	6.1	12 41	75.4	51.0	1 45	24.4	553	3 13	643	478	9 10	165	167	15 30	208	79	2 40	129
4	6.4	12 48	72.8	61.8	7 49	11.0	560	0 0	578	535	10 40	43	188	16 45	199	175	12 0	24
5	7.5	12 21	75.3	58.5	21 14	16.8	565	21 19	596	529	9 50	67	189	17 25	200	174	12 0	26
6	7.1	13 20	74.3	61.0	6 22	13.3	566	22 18	590	528	8 46	62	188	16 43	204	166	11 40	38
7	7.7	13 10	74.1	62.8	8 10	11.3	572	19 16	593	543	11 48	50	187	6 10	197	170	12 4	27
8	7.5	14 34	75.2	61.7	19 30	13.5	573	19 49	618	539	10 35	79	187	19 40	205	171	12 0	34
9	7.4	14 53	73.8	62.5	7 45	11.3	573	18 8	596	543	12 48	53	186	17 45	197	168	12 49	29
10	8.1	14 12	75.1	63.4	5 22	11.7	574	23 12	597	542	10 46	55	183	19 5	195	164	12 3	31
11	6.7	23 33	73.3	61.7	6 0	11.6	578	23 47	615	558	10 39	57	184	18 50	195	168	2 58	27
12	7.5	12 55	72.8	61.7	4 6	11.1	574	23 2	606	540	13 40	66	179	17 52	196	163	3 35	33
13	6.5	12 46	70.8	62.8	6 27	8.0	571	20 8	585	553	7 43	32	187	20 20	196	178	2 10	18
14	7.1	12 45	72.6	62.8	6 30	9.8	579	21 21	615	558	8 40	57	183	21 18	195	154	11 35	41
15	7.2	12 31	75.4	61.6	6 43	13.8	573	1 51	591	550	10 46	41	187	15 35	195	173	10 45	22
16	7.2	12 50	74.3	62.0	7 50	12.3	574	23 40	607	543	9 36	64	185	16 50	193	158	11 26	35
17	6.9	12 50	73.3	62.1	1 41	11.2	573	0 13	598	541	9 29	57	185	16 45	195	173	13 33	22
18 **	7.4	11 50	75.9	59.9	5 55	16.0	570	6 0	606	509	8 48	97	188	18 35	207	167	10 26	40
19	7.7	12 41	75.5	62.4	6 50	13.1	566	1 40	594	539	9 2	55	187	16 30	201	170	11 40	31
20 *	6.1	14 5	71.2	61.2	1 50	10.0	570	0 54	589	546	10 40	43	189	17 20	197	176	11 30	21
21 *	7.2	13 11	74.3	62.5	8 20	11.8	573	19 22	590	545	11 36	45</td						

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum
September	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m	Y
1	6.0	12 35	74.0	60.9	0 41	13.1	570	23 36	615	545	13 2	70	184	17 30	195	164	11 2	31
2 **	6.3	12 54	76.1	59.5	4 10	16.6	566	0 40	646	523	11 36	123	183	17 30	208	165	1 20	43
3	6.9	12 56	75.6	61.8	0 27	13.8	566	0 33	589	535	7 54	54	186	6 30	197	169	11 56	28
4	5.7	13 7	74.0	57.5	21 1	16.5	570	23 39	590	542	10 40	48	188	20 20	200	171	12 0	29
5	5.8	13 0	72.6	59.5	1 1	13.1	568	1 7	601	537	11 45	64	186	16 25	201	165	10 41	36
6	7.6	12 44	74.4	63.3	23 2	11.1	576	17 30	606	545	10 30	61	189	15 30	198	173	12 9	25
7	6.8	13 0	72.7	62.6	7 7	10.1	570	20 31	585	535	9 31	50	189	16 50	201	172	11 1	29
8	6.4	13 55	75.1	58.0	20 55	17.1	565	21 20	584	531	11 50	53	192	16 50	200	178	11 40	22
9 *	6.5	13 10	72.7	61.9	7 54	10.8	568	20 15	594	542	10 10	52	188	19 0	196	170	12 10	26
10	6.1	13 52	72.7	61.9	4 50	10.8	570	19 37	593	549	10 30	44	188	20 38	199	169	11 40	30
11	6.4	12 6	73.9	61.6	21 20	12.3	575	21 50	617	555	10 39	62	188	16 51	199	175	11 55	24
12	6.3	12 11	73.7	62.6	6 4	11.1	571	23 31	595	533	10 50	62	186	16 25	200	165	10 50	35
13	6.2	11 49	70.8	60.1	22 41	10.7	577	20 51	598	563	8 36	35	187	17 12	196	170	11 41	26
14	6.5	13 45	73.4	61.8	3 32	11.6	572	5 28	598	541	14 37	57	188	17 11	201	175	12 55	26
15 *	6.6	12 0	72.2	63.5	8 7	8.7	574	5 3	587	541	9 40	46	187	3 47	193	174	11 0	19
16 *	6.4	12 34	73.3	63.0	6 3	10.3	570	19 50	581	550	9 37	31	189	16 18	199	174	11 31	25
17 *	6.3	13 21	71.0	62.5	7 40	8.5	576	16 10	595	550	10 16	45	189	15 25	196	179	10 54	17
18	6.0	12 24	71.2	60.0	2 39	11.2	570	2 12	605	545	9 36	60	189	15 20	197	176	2 36	21
19 *	6.2	14 0	71.1	62.1	8 8	9.0	574	18 30	582	558	11 5	24	188	6 33	195	170	11 3	25
20	6.7	12 58	74.0	53.6	23 45	20.4	578	20 41	608	556	22 46	52	187	16 30	196	169	11 4	27
21 **	5.8	2 31	74.9	54.0	1 47	20.9	566	2 45	598	530	10 0	68	188	16 46	202	160	3 10	42
22	5.2	13 18	72.0	53.6	22 52	18.4	571	23 26	624	550	23 9	74	188	19 40	204	168	11 24	36
23	5.8	13 41	73.0	53.0	23 6	20.0	567	19 48	608	524	23 20	84	186	22 22	202	167	11 53	35
24 **	4.7	12 40	73.5	55.8	0 24	17.7	557	22 5	613	501	8 51	112	189	20 15	204	159	1 43	45
25	6.1	14 5	72.1	58.0	19 50	14.1	563	23 1	597	544	11 32	53	189	20 0	205	172	11 32	33
26	6.4	14 23	73.1	59.1	21 55	14.0	565	0 43	625	533	10 30	92	189	6 59	199	167	1 30	32
27 **	5.7	12 18	73.7	55.6	20 15	18.1	564	22 0	597	529	17 52	68	192	20 20	212	177	11 36	35
28	5.7	13 31	71.1	61.2	8 1	9.9	565	21 32	585	546	10 32	39	193	8 5	203	181	10 32	22
29	5.8	13 40	72.3	59.1	21 0	13.2	569	21 10	598	541	10 36	57	190	21 10	200	177	12 30	23
30 **	5.5	14 45	78.6	42.0	19 41	36.6	566	19 53	648	484	15 8	164	195	15 36	243	174	11 55	69
Mean	6.1	-	73.3	59.0	-	14.3	569	-	602	539	-	63.5	188	-	201	171	-	30.5
Mean *	6.4	-	72.1	62.6	-	9.5	572	-	588	548	-	39.6	188	-	196	173	-	22.4
Mean **	5.6	-	75.4	53.4	-	22.0	564	-	620	513	-	107.0	189	-	214	167	-	46.8
October	10°+	U.T. h m	9°+ h m	9°+ h m	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m	Y
1 **	5.4	14 8	72.4	58.7	22 53	13.7	559	21 0	632	515	11 35	117	194	17 35	215	171	0 10	44
2	5.1	11 50	70.9	59.1	22 55	11.8	564	23 0	589	541	12 0	48	194	16 30	203	184	12 0	19
3	5.1	12 44	73.6	54.5	20 35	19.1	562	20 42	615	534	8 32	81	193	16 28	215	176	23 40	39
4	6.1	12 2	72.9	58.7	19 40	14.2	562	0 3	585	531	8 48	54	193	15 20	205	173	0 25	32
5 *	6.4	12 5	72.3	61.1	8 18	11.2	565	2 22	587	530	10 20	57	192	15 20	203	179	11 5	24
6	5.9	12 54	72.9	54.5	22 25	18.4	569	22 35	602	537	21 40	65	192	19 40	213	175	10 45	38
7	5.7	13 0	72.3	59.4	20 26	12.9	564	20 32	591	535	12 20	56	193	15 40	204	182	12 0	22
8 *	5.8	12 50	71.3	62.1	8 25	9.2	567	17 48	584	543	10 52	41	193	7 30	202	182	11 25	20
9 *	5.9	12 30	70.3	61.8	8 12	8.5	570	0 15	603	546	10 20	57	190	7 50	197	177	11 55	20
10	5.2	12 38	70.2	54.5	22 20	15.7	572	20 47	591	550	23 45	41	191	15 22	199	183	11 8	16
11 **	6.4	15 38	82.1	54.1	1 25	28.0	564	15 37	598	501	16 42	97	189	17 25	225	138	3 36	87
12	5.4	12 27	70.3	60.4	21 26	9.9	556	20 20	596	537	11 32	59	196	17 19	210	188	23 3	22
13	5.7	12 30	72.4	58.7	21 18	13.7	563	24 0	590	528	15 22	62	193	15 40	210	178	10 40	32
14 **	4.6	13 15	74.2	37.2	23 22	37.0	552	0 5	594	476	23 23	118	195	16 13	225	139	24 0	86
15 **	3.8	3 13	74.7	49.3	0 0	25.4	540	22 27	651	490	0 18	161	190	19 50	216	125	1 3	91
16	4.9	12 50	70.3	59.7	18 18	10.6	556	23 27	574	538	6 54	36	198	18 30	211	181	0 0	30
17	5.4	12 16	71.2	56.7	23 11	14.5	563	21 49	578	532	23 42	46	195	0 8	203	182	11 4	21
18	5.2	12 23	70.3	60.8	1 26	9.5	564	18 51	577	536	11 26	41	198	15 18	206	187	11 20	19
19 *	5.6	12 45	69.2	62.6	8 12	6.6	565	0 35	577	536	9 45	41	196	15 20	205	186	11 3	19
20	5.1	13 5	69.2	55.0	22 8	14.2	567	22 9	595	545	18 54	50	198	19 0	206	187	11 32	19
21 *	5.4	13 16	69.7	61.9	22 10	7.8	567	22 0	585	548	11 6	37	197	19 51	206	186	11 14	20

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	'	Y	Mean Daily Value	Maximum	Minimum	'	Y			
November	10°+	U.T. h m	9°+ ,	9°+ ,	U.T. h m	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m			
1	5.3	12 20	70.0	62.6	22 40	7.4	571	22 59	595	547	10 20	48	194	15 23	202	180	11 3	22
2	5.5	11 48	70.1	62.8	9 12	7.3	574	18 50	582	553	10 51	29	190	15 17	196	172	11 11	24
3	6.2	15 26	71.3	63.6	8 40	7.7	571	6 52	589	538	12 27	51	194	17 57	206	177	10 32	29
4 **	6.1	13 50	72.9	61.6	22 45	11.3	564	22 45	593	515	12 10	78	199	16 34	222	187	9 58	35
5 **	3.9	3 30	71.1	50.1	21 39	21.0	556	21 48	621	519	19 12	102	198	19 40	224	173	22 11	51
6 **	5.7	13 50	70.8	57.4	0 3	13.4	559	4 40	581	520	14 0	61	195	14 25	212	177	5 10	35
7	4.5	12 35	68.3	58.9	21 56	9.4	565	7 14	579	541	15 30	38	198	21 25	206	187	10 45	19
8	5.5	11 15	70.1	62.5	2 57	7.6	570	2 12	584	552	10 10	32	194	15 20	202	186	2 50	16
9	4.9	11 32	67.9	57.7	20 20	10.2	572	7 25	588	559	15 15	29	195	15 40	201	187	11 1	14
10 **	5.8	13 0	71.9	58.3	16 55	13.6	571	8 5	603	522	16 44	81	196	17 20	215	182	10 0	33
11	4.8	12 12	68.3	61.8	17 39	6.5	567	16 8	579	553	10 45	26	197	14 0	202	188	11 50	14
12	4.9	12 45	69.0	62.0	8 45	7.0	574	6 40	586	562	10 42	24	194	14 25	200	190	11 7	10
13 *	5.0	11 57	68.2	62.9	21 29	5.3	578	14 28	586	567	9 40	19	192	13 35	197	185	10 45	12
14	5.3	12 0	68.4	61.1	23 1	7.3	575	22 45	589	555	17 35	34	193	17 50	201	185	10 10	16
15 *	4.9	12 55	67.7	61.8	0 0	5.9	576	8 0	586	566	0 33	20	193	14 15	200	178	10 31	22
16	5.0	12 10	67.7	63.2	0 0	4.5	577	6 10	589	560	11 48	29	193	13 50	200	186	5 35	14
17	4.9	13 10	67.6	60.2	23 56	7.4	576	16 55	586	560	10 55	26	193	14 50	197	187	11 4	10
18	5.2	15 1	70.1	59.4	0 24	10.7	575	4 50	591	548	15 15	43	194	15 40	203	184	1 20	19
19	4.9	2 43	70.4	61.7	20 10	8.7	577	4 58	595	558	15 20	37	192	15 55	198	180	10 50	18
20 **	5.1	14 24	74.5	52.8	22 47	21.7	560	5 9	610	496	15 30	114	202	17 50	238	179	8 58	59
21	4.3	12 36	66.1	61.8	0 3	4.3	566	17 55	573	545	0 0	28	199	15 20	205	186	10 33	19
22	4.6	7 10	66.7	62.1	22 55	4.6	570	22 30	577	558	10 30	19	198	17 15	203	187	11 10	16
23	4.6	1 51	66.8	62.7	23 51	4.1	571	6 9	587	553	14 33	34	198	16 30	205	191	2 24	14
24 *	4.3	12 59	66.3	62.9	0 51	3.6	574	7 45	586	562	12 26	24	195	15 22	199	186	11 10	13
25 *	4.8	13 9	67.3	63.6	8 45	3.7	579	7 32	589	568	11 20	21	193	17 30	197	186	11 10	11
26	4.0	12 50	67.8	58.4	1 55	9.4	572	1 15	589	552	10 36	37	194	15 20	201	184	1 51	17
27 *	4.4	12 40	67.7	62.5	7 27	5.2	575	21 37	584	558	11 30	26	194	13 45	199	191	22 20	8
28	4.4	12 32	66.8	63.2	8 45	3.6	575	20 10	597	559	10 41	38	194	15 18	202	185	10 20	17
29	4.6	13 58	66.6	63.3	21 0	3.3	579	7 16	592	570	11 53	22	191	17 45	198	182	11 10	16
30	4.9	14 40	70.0	60.7	21 33	9.3	575	0 14	599	554	16 2	45	191	16 40	201	181	8 55	20
Mean	4.9	-	69.0	60.8	-	8.2	571	-	590	549	-	40.5	195	-	204	184	-	20.8
Mean *	4.7	-	67.5	62.7	-	4.7	576	-	586	564	-	22.0	193	-	198	185	-	13.2
Mean **	5.3	-	72.2	56.0	-	16.2	562	-	602	514	-	87.2	198	-	222	180	-	42.6
December	10°+	U.T. h m	9°+ ,	9°+ ,	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y
1	4.8	15 11	71.8	61.5	21 38	10.3	571	7 58	591	529	15 22	62	195	15 50	207	185	9 0	22
2	4.0	11 42	70.0	43.7	19 45	26.3	565	20 2	602	511	16 40	91	197	17 28	217	184	2 21	33
3	4.1	3 18	67.5	59.8	22 40	7.7	569	22 58	594	552	13 40	42	194	17 40	204	178	11 0	26
4	4.2	4 34	67.2	60.6	19 24	6.6	571	7 18	582	558	19 20	24	194	19 45	200	188	9 45	12
5	4.4	14 15	68.3	56.9	22 50	11.4	570	7 22	582	554	10 26	28	195	16 40	200	188	10 26	12
6	3.6	11 50	66.3	57.0	1 22	9.3	569	6 20	582	550	15 50	32	194	17 50	204	186	1 10	18
7 *	4.0	16 30	65.1	63.0	1 58	2.1	575	7 30	584	562	13 29	22	195	17 59	200	188	12 40	12
8	4.6	15 32	67.5	59.8	24 0	7.7	577	8 10	594	562	13 20	32	195	17 52	203	188	11 4	15
9	4.0	14 40	66.3	59.7	0 8	6.6	575	8 39	586	563	2 54	23	193	19 35	202	183	13 2	19
10 *	3.9	11 59	67.3	60.6	1 2	6.7	573	16 58	581	560	2 16	21	195	8 20	199	188	12 18	11
11 *	4.5	12 30	67.3	62.4	9 36	4.9	575	6 46	585	563	12 43	22	194	15 20	201	188	9 2	13
12	4.0	13 0	66.7	61.8	4 52	4.9	581	17 9	593	569	10 30	24	192	21 50	196	186	10 1	10
13 **	4.6	13 13	71.9	55.1	22 37	16.8	567	22 47	611	500	16 20	111	197	18 30	226	178	10 0	48
14	4.4	6 3	70.4	59.8	0 10	10.6	559	3 57	608	530	14 43	78	194	15 10	212	164	5 21	48
15	3.4	12 50	65.9	53.4	23 1	12.5	570	22 43	603	557	15 35	46	196	15 18	204	187	10 18	17
16 **	2.9	15 8	96.6	27.9	16 44	68.7	534	7 24	625	359	14 16	266	233	16 41	586	173	11 22	413
17 **	2.7	5 18	77.7	42.0	17 26	35.7	506	22 55	608	444	14 46	164	226	17 3	283	191	23 16	92
18 **	3.1	5 54	68.3	57.1	0 50	11.2	532	20 59	561	496	0 50	65	216	16 12	228	197	0 2	31
19	2.8	12 11	65.5	58.8	20 40	6.7	547	21 17	568	534	9 23	34	213	16 40	222	202	10 5	20
20	3.4	18 38	65.8	59.7	22 55	6.1	552	23 27	586	536	6 6	50	213	20 5	219	200	23 51	19
21	3.3	14 10	67.5	57.5	1 49	10.0	556	0 1	571	531	1 18	40	210	17 40	220	194	0 56	26
22	3.5	12 51	67.8	55.4	20 10	12.4	558	12 0	569	537	23 56	32						

MAGNETIC OBSERVATIONS, ABINGER 1944.

TABLE IV(A). - THREE-HOUR-RANGE INDICES "K" FOR THE YEAR 1944.* (SEE INTRODUCTION PAGE xi).

Date	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3132 5453	26	2111 2121	11	2231 1123	15	3112 3355	23	4233 5644	31	3111 3330	15
2	2221 1331	15	0221 1122	11	3311 3242	19	4467 5454	39	4444 4433	30	1322 1121	13
3	1101 2010	6	0111 1021	7	2201 1101	8	4432 3244	26	3322 4321	20	1012 2121	10
4	3111 1123	13	0111 3332	14	3244 4333	26	3345 4334	29	2114 3455	25	1111 2343	16
5	5233 1432	23	0021 1233	12	2111 3343	18	3434 3454	30	5223 4332	24	3122 2431	18
6	1111 2133	13	2012 2111	10	3433 4354	29	4344 3543	30	4234 4553	30	2212 2330	15
7	2011 1111	8	2334 6555	33	4433 5534	31	4243 2355	28	1343 4433	25	0012 1321	10
8	1212 1231	13	4333 4456	32	2322 4464	27	4213 5243	24	3333 1123	19	0111 1311	9
9	3112 1313	15	2243 4453	27	4425 4454	32	2123 2344	21	1111 1232	12	2222 3322	18
10	1122 2236	19	3334 3453	28	3345 5554	34	4453 3323	27	3211 2112	13	2122 2321	15
11	3334 3663	31	4334 3434	28	2333 2243	22	4222 2434	23	2220 3212	14	1131 3433	19
12	3343 4433	27	3333 4331	23	3333 4555	31	4222 3120	16	2112 3333	18	1210 1210	8
13	5343 5354	32	1022 2345	19	3232 4421	21	0111 1101	6	1111 1111	8	0111 3332	14
14	4333 3653	30	4654 3343	32	3333 3241	22	0113 0100	6	1221 2211	12	2112 4224	18
15	4432 3455	30	4333 3444	28	1221 2233	16	2122 4335	22	3221 2110	12	4343 3443	28
16	4234 4534	29	3222 2303	17	2313 2311	16	5344 3643	32	0111 2211	9	3233 3333	23
17	3333 4444	28	2011 3123	13	1011 1111	7	4322 3223	21	2111 2112	11	3121 2313	16
18	2224 3453	25	1112 2100	8	0122 2355	20	4010 1103	10	2112 2111	11	2221 2211	13
19	3331 1433	21	0112 2100	7	5524 3245	30	3011 2121	11	2121 2121	12	1112 1213	12
20	3122 2334	20	0213 4344	21	4222 2121	16	2211 1320	12	1111 2210	9	3333 3334	.25
21	3211 1231	14	3322 1223	18	1301 2234	16	0111 3311	11	1211 1212	11	3443 3332	25
22	3121 1131	13	3321 1210	13	3323 3322	21	0110 0201	5	1111 3222	13	3433 4524	28
23	1212 0134	14	1121 2113	12	2231 1244	19	0010 2110	5	0221 3332	16	2142 3423	21
24	3111 2320	13	1222 1113	13	1021 2200	8	3332 4323	23	3233 3333	23	3232 2211	16
25	0001 2224	11	3110 1201	9	1123 3344	21	3221 2133	17	1311 2232	15	1112 1331	13
26	1022 3444	20	1121 1121	10	3343 5335	29	3221 2333	19	3222 3321	18	1213 4444	23
27	3222 3243	21	1112 1011	8	6645 3343	34	3213 3344	23	3333 3221	20	4323 2322	21
28	3222 1131	15	2111 1121	10	2222 3334	21	3223 3342	22	1123 3322	17	1213 3312	16
29	2111 3232	15	1221 2233	16	4443 3333	27	1233 4321	19	3323 4435	27	4422 2311	19
30	1211 1112	10			4332 3435	27	3344 3423	26	4224 4221	21	2132 3312	17
31	1111 1333	14			2332 3122	18			1221 2423	17		

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

TABLE IV(A). - THREE-HOUR-RANGE INDICES "K" FOR THE YEAR 1944.* (SEE INTRODUCTION PAGE xii).

Date	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3111 3321	15	2222 3210	14	4113 3214	19	4124 3455	28	0012 1103	8	2112 2332	16
2	2222 2223	17	1213 4544	24	5433 3443	29	1002 3133	13	0212 1111	9	4232 1453	24
3	1122 2322	15	5543 4233	29	3133 3321	19	3332 3343	24	0012 3311	11	3322 3123	19
4	3112 1131	13	3111 3121	13	2112 3244	19	3023 1331	16	2132 3423	20	2221 1021	11
5	2222 1310	13	1122 2223	15	3121 2201	12	2232 3111	15	2443 3455	30	1122 1223	14
6	1122 3213	15	2332 2322	19	1113 2323	16	2122 2344	20	3332 4222	21	3211 1221	13
7	3211 1211	12	2202 3312	15	1232 1111	12	3221 3132	17	0111 3323	14	1100 1111	6
8	0112 2122	11	0212 3442	18	1112 2344	18	1010 0112	6	2122 1101	10	0111 1112	8
9	3342 3321	21	2113 3321	16	3111 1122	12	3111 0000	6	3131 1131	14	2211 1122	12
10	2111 3341	16	2233 3322	20	1221 1333	16	0011 2133	11	0033 3440	17	3111 1111	10
11	1211 1211	10	3222 2234	20	2213 3214	18	5521 3534	28	0011 2310	8	2112 1100	8
12	1112 2313	14	3422 3323	22	2133 2113	16	1222 2333	18	1021 1111	8	1112 0121	9
13	3122 2221	15	3033 3121	16	2001 1333	13	3111 3434	20	0011 1001	4	1123 3544	23
14	1123 2322	16	1013 3233	16	3332 3331	21	3023 3445	24	1011 1122	9	3432 3210	18
15	3232 3232	20	2231 2211	14	1223 1001	10	5433 2346	30	2111 1111	9	1011 1234	13
16	1222 3343	20	1122 3323	17	0211 2210	9	3232 3333	22	1211 1110	8	4345 7853	39
17	1323 3221	17	3212 2121	14	0111 3311	11	2222 2114	16	0011 1112	7	2554 5656	38
18	1111 1233	13	3353 3333	26	3332 2121	17	3223 2211	16	3121 3312	16	4332 3333	24
19	3223 3322	20	3231 1312	16	0011 3000	5	2112 0010	7	3212 2321	16	1222 1233	16
20	3333 3112	19	3121 2112	13	0011 2334	14	0021 1234	13	2332 4544	27	1221 1234	16
21	2223 3323	20	1121 1121	10	5333 3322	24	2121 1122	12	2111 1011	8	4321 2211	16
22	2122 2232	16	2212 1103	12	3112 2245	20	1111 2321	12	1011 1211	8	1111 2243	15
23	1122 2211	12	4232 3122	19	4312 2344	23	2232 2445	24	2000 1111	6	2120 1112	10
24	0111 1111	7	3432 4311	21	5344 4134	28	5233 3243	25	0111 1000	4	0011 1111	6
25	1111 1200	7	1121 1210	9	3212 2143	18	3211 1143	16	0001 1011	4	1111 1111	8
26	1112 2211	11	1101 2223	12	4212 3323	20	4333 1133	21	4121 1210	12	0113 2333	16
27	0112 2322	13	3121 1242	16	1233 3443	23	3111 3422	17	0111 2110	7	3323 4655	31
28	1101 2323	13	2254 4334	27	1221 1222	13	1222 2132	15	1101 1131	9	5223 3321	21
29	2111 2232	14	2112 3321	15	1232 2133	17	1002 1233	12	0100 1101	4	1321 1243	17
30	2212 3312	16	3223 3332	21	1112 4565	25	2121 0101	8	3111 2322	15	4321 3334	23
31	3323 2122	18	3334 2333	24			2232 2343	21			2112 3124	16

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

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

"All" Days

DECLINATION WEST (Unit 0.'01)

Month and Season, 1944	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
January	-116	-051	+006	+007	-011	+053	+057	+052	+013	+059	+144	+198	+267	+273	+190	+108	+075	-029	-063	-137	-285	-275	-305	-236
February	-136	-112	-049	-051	-057	+009	+045	+019	-034	-029	+070	+192	+285	+308	+242	+128	+078	+014	-044	-140	-185	-185	-193	-179
March	-165	-151	-111	-073	-026	+020	-043	-112	-160	-097	+050	+271	+409	+457	+384	+223	+145	+076	-118	-155	-174	-195	-253	-211
April	-124	-066	-049	-153	-140	-146	-196	-206	-274	-208	+011	+260	+459	+544	+459	+337	+220	+073	-022	-143	-131	-147	-184	-174
May	-075	-088	-128	-188	-248	-309	-348	-369	-327	-172	+082	+314	+460	+490	+431	+344	+240	+114	+040	-006	-038	-065	-080	-076
June	-135	-114	-089	-204	-287	-391	-450	-455	-402	-233	+020	+284	+465	+560	+530	+431	+279	+182	+112	+057	+010	-022	-060	-100
July	-125	-124	-114	-177	-275	-381	-438	-439	-402	-252	+002	+278	+471	+568	+546	+434	+290	+181	+085	+042	-008	-027	-052	-077
August	-132	-171	-155	-203	-298	-363	-359	-320	-282	-127	+096	+372	+548	+558	+473	+348	+215	+108	+056	-011	-056	-071	-103	-132
September	-164	-157	-122	-174	-176	-176	-212	-280	-283	-165	+066	+353	+531	+556	+476	+315	+206	+112	+065	-055	-096	-184	-219	-221
October	-126	-101	-073	-023	-077	-070	-100	-190	-243	-126	+108	+361	+448	+433	+369	+244	+145	+092	+007	-133	-181	-230	-280	-267
November	-123	-070	-032	-004	-031	-037	-047	-056	-067	-056	+033	+201	+277	+269	+215	+134	+083	+032	-008	-069	-110	-161	-202	-174
December	-154	-094	-048	+013	-009	+050	+043	+025	+023	+045	+100	+163	+220	+194	+185	+180	+073	+042	+029	-139	-214	-208	-287	-227
Year	-131	-108	-080	-102	-136	-145	-171	-194	-203	-113	+065	+271	+403	+434	+375	+269	+171	+083	+012	-074	-122	-148	-185	-173
Winter	-132	-082	-031	-009	-027	+019	+025	+010	-016	+005	+087	+190	+262	+261	+208	+138	+077	+015	-022	-121	-199	-207	-247	-204
Equinox	-145	-119	-089	-106	-105	-093	-138	-197	-240	-149	+059	+311	+462	+498	+422	+280	+179	+088	-017	-122	-146	-189	-234	-218
Summer	-117	-124	-122	-193	-277	-361	-399	-396	-353	-196	+050	+312	+486	+544	+495	+389	+256	+146	+073	+021	-023	-046	-074	-096

INCLINATION (Unit 0.'01)

January	-020	-019	-013	-031	-043	-048	-069	-069	-041	+003	+037	+026	+013	+009	+021	+051	+046	+049	+029	+044	+038	+019	-015	-021
February	-015	-008	-017	-018	-051	-057	-065	-061	-038	+006	+044	+031	+045	+069	+056	+054	+026	+040	+017	+015	-011	-029	-007	-019
March	-044	-056	-035	-020	-029	-043	-041	-017	+010	+058	+082	+068	+060	+022	+030	+047	+029	+026	+023	-013	-010	-020	-053	-075
April	-056	-063	-058	-053	-040	-053	-032	+028	+084	+132	+145	+116	+063	+034	+027	+005	-001	-012	-008	-015	-039	-044	-074	-086
May	-066	-048	-024	-016	-007	+002	+016	+043	+068	+070	+056	+060	+052	+053	+048	-004	-004	-035	-028	-039	-045	-056	-053	-049
June	-039	-024	-020	-027	-029	-022	+010	+063	+098	+109	+090	+053	+041	+025	+008	-001	+002	-016	-040	-052	-050	-056	-059	-066
July	-039	-028	-024	-031	-026	-017	+013	+047	+086	+113	+102	+079	+067	+041	+022	+001	-007	-030	-051	-071	-070	-061	-052	-052
August	-056	-059	-041	-054	-039	-023	+014	+040	+096	+106	+095	+064	+040	+037	+032	+020	+017	+007	-026	-052	-055	-057	-052	-056
September	-058	-046	-031	-028	-025	-033	-012	+019	+064	+087	+083	+057	+032	+024	+040	+031	+012	-011	-023	-033	-029	-032	-035	-051
October	-034	-026	-023	-030	-033	-039	-025	-016	+024	+063	+073	+062	+039	+012	+006	+010	+013	+015	+018	+016	-019	-024	-063	-028
November	-007	-013	-018	-032	-050	-063	-066	-055	-021	+013	+040	+039	+049	+047	+041	+056	+029	+022	+020	+010	-001	-017	-018	-011
December	-011	-008	-010	-027	-061	-082	-082	-067	-054	-035	-031	-019	-014	+008	+059	+079	+079	+067	+049	+035	+026	+012	-012	-012
Year	-37	-33	-26	-31	-36	-40	-28	-04	+31	+60	+68	+53	+41	+32	+33	+29	+22	+11	-00	-12	-21	-29	-40	-44
Winter	-013	-012	-015	-027	-051	-063	-071	-063	-039	-003	+023	+019	+023	+033	+044	+060	+050	+048	+033	+030	+015	-000	-007	-016
Equinox	-048	-048	-037	-033	-032	-041	-028	+004	+046	+085	+096	+076	+049	+023	+026	+023	+013	+005	+003	-011	-024	-030	-056	-060
Summer	-050	-040	-027	-032	-025	-015	+013	+048	+087	+100	+085	+064	+050	+039	+028	+004	+002	-019	-036	-054	-055	-058	-056	-056

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+ 11	+ 05	- 03	+ 25	+ 49	+ 55	+ 89	+ 91	+ 45	- 20	- 67	- 51	- 31	- 10	- 15	- 48	- 42	- 42	- 15	- 37	- 29	- 09	+ 25	+ 24
February	+ 17	+ 03	+ 14	+ 14	+ 69	+ 70	+ 79	+ 76	+ 40	- 24	- 85	- 68	- 86	- 99	- 65	- 53	- 12	- 33	+ 02	+ 05	+ 35	+ 56	+ 13	+ 30
March	+ 47	+ 59	+ 26	+ 04	+ 25	+ 48	+ 50	+ 25	- 26	- 110	- 155	- 143	- 126	- 48	- 37	- 33	+ 04	+ 09	+ 10	+ 63	+ 48	+ 60	+ 90	+ 110
April	+ 75	+ 79	+ 68	+ 68	+ 53	+ 77	+ 52	- 42	- 134	- 218	- 259	- 227	- 141	- 77	- 38	+ 14	+ 35	+ 64	+ 61	+ 70	+ 96	+ 88	+ 122	+ 123
May	+ 90	+ 58	+ 24	+ 28	+ 19	+ 07	- 19	- 70	- 119	- 144	- 144	- 164	- 132	- 109	- 65	+ 31	+ 48	+ 104	+ 92	+ 99	+ 100	+ 101	+ 90	+ 75
June	+ 53	+ 31	+ 25	+ 45	+ 50	+ 40	- 10	- 98	- 159	- 196	- 185	- 145	- 118	- 75	- 17	+ 19	+ 35	+ 71	+ 107	+ 117	+ 108	+ 102	+ 99	+ 99
July	+ 60	+ 44	+ 35	+ 54	+ 47	+ 39	- 10	- 69	- 135	- 193	- 198	- 179	- 155	- 99	- 41	+ 07	+ 35	+ 79	+ 113	+ 137	+ 131	+ 105	+ 102	+ 82
August	+ 83	+ 80	+ 46	+ 70	+ 50	+ 37	- 13	- 59	- 151	- 185	- 186	- 153	- 110	- 83	- 46	- 07	+ 09	+ 30	+ 77	+ 113	+ 115	+ 104	+ 9	

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

"All" Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1944	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
January	+ 22	+ 10	- 04	+ 24	+ 49	+ 49	+ 82	+ 85	+ 43	- 25	- 80	- 69	- 56	- 36	- 33	- 58	- 49	- 39	- 09	- 23	- 02	+ 17	+ 54	+ 46
February	+ 30	+ 14	+ 18	+ 19	+ 73	+ 68	+ 74	+ 73	+ 43	- 21	- 90	- 85	- 112	- 127	- 87	- 64	- 19	- 34	+ 06	+ 18	+ 52	+ 73	+ 31	+ 47
March	+ 62	+ 72	+ 36	+ 11	+ 27	+ 45	+ 53	+ 35	- 10	- 99	- 157	- 167	- 163	- 91	- 73	- 54	- 10	+ 02	+ 21	+ 77	+ 64	+ 78	+ 113	+ 128
April	+ 86	+ 84	+ 72	+ 82	+ 66	+ 90	+ 70	- 22	- 106	- 195	- 256	- 248	- 182	- 127	- 81	- 18	+ 14	+ 56	+ 62	+ 83	+ 107	+ 101	+ 138	+ 138
May	+ 96	+ 65	+ 36	+ 45	+ 42	+ 36	+ 14	- 34	- 86	- 126	- 150	- 191	- 174	- 154	- 105	- 02	+ 25	+ 92	+ 87	+ 98	+ 102	+ 106	+ 96	+ 81
June	+ 65	+ 41	+ 33	+ 64	+ 77	+ 77	+ 33	- 53	- 119	- 171	- 184	- 170	- 160	- 127	- 67	- 22	+ 08	+ 53	+ 95	+ 110	+ 106	+ 103	+ 104	+ 107
July	+ 71	+ 55	+ 45	+ 70	+ 72	+ 75	+ 32	- 26	- 95	- 166	- 195	- 203	- 197	- 151	- 92	- 34	+ 07	+ 61	+ 103	+ 131	+ 130	+ 106	+ 105	+ 88
August	+ 94	+ 95	+ 60	+ 88	+ 78	+ 71	+ 21	- 28	- 122	- 170	- 192	- 186	- 160	- 135	- 90	- 40	- 12	+ 19	+ 71	+ 112	+ 119	+ 109	+ 102	+ 105
September	+ 96	+ 69	+ 43	+ 51	+ 51	+ 67	+ 48	+ 25	- 69	- 130	- 171	- 170	- 141	- 109	- 102	- 55	- 10	+ 34	+ 56	+ 81	+ 76	+ 85	+ 86	+ 100
October	+ 39	+ 24	+ 19	+ 26	+ 48	+ 60	+ 51	+ 54	- 13	- 98	- 148	- 157	- 118	- 62	- 31	- 11	- 05	- 01	+ 04	+ 22	+ 70	+ 73	+ 115	+ 53
November	+ 18	+ 21	+ 23	+ 37	+ 69	+ 83	+ 90	+ 79	+ 24	- 31	- 88	- 99	- 110	- 89	- 66	- 73	- 28	- 12	- 07	+ 10	+ 26	+ 50	+ 45	+ 32
December	+ 14	+ 03	+ 02	+ 21	+ 75	+ 94	+ 94	+ 78	+ 54	+ 21	+ 08	- 13	- 15	- 28	- 82	- 79	- 97	- 77	- 67	- 28	- 10	- 05	+ 10	+ 31
Year	+ 58	+ 46	+ 32	+ 45	+ 61	+ 68	+ 55	+ 22	- 38	- 101	- 142	- 147	- 132	- 103	- 76	- 43	- 15	+ 13	+ 35	+ 58	+ 70	+ 75	+ 83	+ 80
Winter	+ 21	+ 12	+ 10	+ 25	+ 67	+ 74	+ 85	+ 79	+ 41	- 14	- 63	- 67	- 73	- 70	- 67	- 69	- 48	- 41	- 19	- 06	+ 17	+ 34	+ 35	+ 39
Equinox	+ 71	+ 62	+ 43	+ 43	+ 48	+ 66	+ 56	+ 23	- 50	- 131	- 183	- 186	- 151	- 97	- 72	- 35	- 03	+ 23	+ 36	+ 66	+ 79	+ 84	+ 113	+ 105
Summer	+ 82	+ 64	+ 44	+ 67	+ 65	+ 25	- 35	- 106	- 158	- 180	- 188	- 173	- 142	- 89	- 25	+ 07	+ 56	+ 89	+ 113	+ 114	+ 106	+ 102	+ 95	

WEST COMPONENT (Unit 0.1γ)

January	- 60	- 26	+ 03	+ 08	+ 03	+ 38	+ 46	+ 44	+ 15	+ 28	+ 65	+ 97	+ 137	+ 144	+ 99	+ 49	+ 33	- 23	- 36	- 79	- 157	- 148	- 158	- 121
February	- 69	- 59	- 24	- 25	- 18	+ 17	+ 38	+ 23	- 11	- 20	+ 22	+ 90	+ 137	+ 147	+ 117	+ 59	+ 39	+ 02	- 23	- 74	- 92	- 89	- 100	- 90
March	- 80	- 70	- 55	- 38	- 09	+ 19	- 14	- 55	- 90	- 71	- 01	+ 119	+ 196	+ 235	+ 198	+ 113	+ 78	+ 42	- 61	- 72	- 84	- 93	- 119	- 93
April	- 53	- 21	- 14	- 70	- 65	- 64	- 95	- 102	- 169	- 149	- 39	+ 99	+ 220	+ 276	+ 238	+ 182	+ 123	+ 50	- 01	- 64	- 53	- 63	- 77	- 71
May	- 24	- 37	- 64	- 95	- 129	- 163	- 189	- 209	- 195	- 117	+ 18	+ 138	+ 222	+ 242	+ 218	+ 188	+ 136	+ 79	+ 37	+ 14	- 03	- 17	- 27	- 27
June	- 63	- 55	- 43	- 101	- 144	- 201	- 241	- 259	- 242	- 158	- 22	+ 126	+ 227	+ 285	+ 279	+ 233	+ 155	+ 109	+ 78	+ 51	+ 24	+ 06	- 14	- 36
July	- 56	- 58	- 55	- 85	- 138	- 196	- 235	- 246	- 238	- 168	- 34	+ 117	+ 224	+ 285	+ 283	+ 232	+ 160	+ 110	+ 65	+ 46	+ 19	+ 04	- 10	- 27
August	- 56	- 77	- 74	- 96	- 150	- 187	- 193	- 181	- 177	- 100	+ 19	+ 171	+ 272	+ 282	+ 244	+ 184	+ 116	+ 63	+ 43	+ 14	- 10	- 20	- 38	- 54
September	- 73	- 74	- 59	- 87	- 88	- 85	- 108	- 153	- 168	- 114	+ 06	+ 164	+ 266	+ 286	+ 243	+ 163	+ 111	+ 68	+ 46	- 16	- 39	- 86	- 105	- 104
October	- 62	- 51	- 37	- 08	- 34	- 28	- 46	- 95	- 136	- 87	+ 33	+ 170	+ 225	+ 227	+ 197	+ 132	+ 79	+ 50	+ 05	- 69	- 87	- 113	- 133	- 137
November	- 64	- 35	- 14	+ 04	- 05	- 06	- 10	- 17	- 33	- 36	+ 03	+ 93	+ 133	+ 132	+ 106	+ 61	+ 41	+ 15	- 06	- 36	- 56	- 80	- 103	- 90
December	- 82	- 51	- 26	+ 11	+ 08	+ 44	+ 40	+ 28	+ 22	+ 29	+ 56	+ 87	+ 118	+ 102	+ 87	+ 85	+ 23	+ 09	+ 04	- 81	- 119	- 115	- 156	- 119
Year	- 62	- 51	- 38	- 49	- 64	- 68	- 84	- 102	- 119	- 80	+ 11	+ 123	+ 198	+ 220	+ 192	+ 140	+ 91	+ 48	+ 13	- 31	- 55	- 68	- 87	- 81
Winter	- 69	- 43	- 15	- 01	- 03	+ 23	+ 29	+ 20	- 02	+ 00	+ 37	+ 92	+ 131	+ 131	+ 102	+ 64	+ 34	+ 01	- 15	- 68	- 106	- 108	- 129	- 105
Equinox	- 67	- 54	- 41	- 51	- 49	- 40	- 66	- 101	- 141	- 105	- 00	+ 138	+ 227	+ 256	+ 219	+ 148	+ 98	+ 53	- 03	- 55	- 66	- 89	- 109	- 101
Summer	- 50	- 57	- 59	- 94	- 140	- 187	- 215	- 224	- 213	- 136	- 05	+ 138	+ 236	+ 275	+ 256	+ 209	+ 142	+ 90	+ 56	+ 31	+ 08	- 07	- 22	- 36

VERTICAL COMPONENT (Unit 0.1γ)

January	- 44	- 57	- 51	- 50	- 33	- 37	- 30	- 28	- 37	- 35	- 26	- 26	- 26	+ 08	+ 39	+ 66	+ 63	+ 72	+ 69	+ 66	+ 62	+ 44	+ 09	- 18
February	- 14	- 22	- 29	- 31	- 19	- 33	- 40	- 33	- 38	- 35	- 45	- 52	- 46	+ 06	+ 42	+ 64	+ 63	+ 62	+ 61	+ 46	+ 30	+ 08	+ 05	
March	- 43	- 56	- 64	- 60	- 42	- 38	- 24	- 00	- 25	- 55	- 77	- 96	- 88	- 33	+ 19	+ 86	+ 109	+ 112	+ 104	+ 101	+ 77	+ 68	+ 26	- 02
April	- 21	- 36	- 43	- 23	- 15	- 03	+ 09	- 00	- 21	- 53	- 101	- 129	- 112	- 64	+ 05	+ 47	+ 80	+ 106	+ 115	+ 109	+ 89	+ 51	+ 28	- 11
May	- 16	- 31	- 27	+ 10	+ 22	+ 25	+ 09	- 14	- 40	- 93	- 143	- 174	- 128	- 68	+ 13	+ 60	+ 96	+ 120	+ 119	+ 97	+ 76	+ 43	+ 28	+ 03
June	- 09	- 10	- 09	+ 12	+ 16	+ 17	+ 09	- 11	- 31	- 80	- 121	- 156	- 130	- 86	- 12	+ 40	+ 90	+ 112	+ 111	+ 92	+ 80	+ 44	+ 28	+ 03
July	+ 08	+ 06	00	+ 19	+ 22	+ 32	+ 22	+ 02	- 16	- 59	- 107	- 143	- 129	- 90	- 21	+ 20	+ 60	+ 81	+ 88	+ 74	+ 62	+ 33	+ 26	+ 12</td

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, 1944	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
January	-066	-082	-088	-076	-112	-078	-058	-060	-054	+004	+090	+146	+226	+234	+170	+130	+116	+106	+064	+020	-132	-184	-152	-152
February	-140	-184	-128	-118	-108	-098	-096	-090	-094	-002	+192	+288	+308	+256	+174	+114	+100	+066	-004	-060	-052	-116	-112	
March	-098	-068	-072	-038	-114	-094	-108	-180	-272	-222	-044	+186	+338	+378	+324	+198	+114	+076	+044	+006	-034	-086	-096	-134
April	-067	-061	-059	-107	-127	-159	-237	-343	-385	-301	-119	+159	+361	+465	+407	+277	+151	+067	+049	+039	-001	-003	+003	-011
May	-081	-077	-105	-151	-231	-379	-421	-421	-357	-181	+087	+305	+459	+493	+437	+343	+209	+087	+019	+025	+025	+005	-031	-063
June	-071	-033	-115	-175	-279	-359	-361	-365	-357	-259	-023	+259	+475	+563	+497	+369	+225	+101	+035	+009	-013	-027	-043	-051
July	-117	-131	-133	-165	-185	-293	-393	-449	-437	-327	-099	+145	+325	+417	+473	+447	+363	+297	+201	+153	+109	+019	-113	-113
August	-092	-146	-134	-126	-168	-242	-310	-352	-354	-232	+026	+324	+524	+542	+438	+334	+180	+086	+048	-032	-046	-012	-114	-146
September	-082	-116	-132	-182	-142	-166	-246	-306	-300	-182	+064	+298	+428	+442	+346	+230	+130	+066	+036	+012	-056	-012	-062	-072
October	-131	-075	-081	-105	-123	-113	-153	-271	-331	-217	+007	+271	+417	+401	+329	+211	+137	+095	+073	+017	-011	-087	-145	-105
November	-093	-023	+001	+005	-043	-041	-049	-077	-111	-099	+009	+153	+219	+197	+121	+083	+087	+021	-015	-051	-057	-079	-087	-067
December	-106	-114	-054	-070	-062	-048	-060	-074	-040	000	+090	+132	+202	+144	+092	+104	+070	+044	+026	+002	-038	-072	-074	-090
Year	-095	-093	-092	-109	-141	-173	-208	-249	-258	-176	+007	+214	+355	+382	+324	+242	+158	+096	+054	+016	-026	-049	-086	-093
Winter	-101	-101	-067	-065	-081	-066	-066	-075	-075	-047	+047	+156	+234	+221	+160	+123	+097	+068	+035	-008	-072	-097	-107	-105
Equinox	-095	-080	-086	-108	-127	-133	-186	-275	-322	-231	-023	+229	+386	+422	+352	+229	+133	+077	+051	+019	-026	-047	-075	-081
Summer	-090	-097	-122	-154	-216	-318	-371	-397	-376	-250	-002	+258	+446	+504	+461	+373	+244	+143	+076	+039	+019	-004	-075	-093

INCLINATION (Unit 0.'01)

January	+022	+016	+022	+009	+001	-013	-028	-037	-021	+015	+035	+021	+007	+006	-019	-040	-042	-032	-017	-010	+020	+024	+032	+033
February	+022	+023	+035	+022	+013	-008	-029	-038	-026	000	+036	+033	+020	+003	-017	-012	-014	-007	-010	-016	-010	-011	-016	+004
March	+016	+012	+020	+008	-013	-012	-016	-010	-004	+033	+057	+044	+025	+011	-010	+004	-015	-012	-030	-025	-027	-028	-018	-012
April	-027	-012	-003	-009	-010	-019	-012	+003	+023	+057	+078	+065	+042	+016	+028	+017	+002	-018	-029	-040	-040	-041	-039	-036
May	-020	-012	-001	+006	+002	+006	+025	+055	+074	+078	+053	+025	+019	+025	+024	-002	+006	-022	-047	-058	-066	-057	-061	-052
June	-011	-015	-003	+003	+005	+018	+045	+074	+095	+097	+067	+017	+007	-021	-025	-034	-009	-016	-040	-060	-060	-053	-048	-040
July	-022	-019	-027	-027	-026	-011	+017	+053	+072	+087	+104	+104	+092	+079	+056	+013	-011	-061	-083	-106	-101	-085	-061	-035
August	-025	-021	+005	+001	+002	-001	+010	+037	+089	+094	+079	+045	+011	-007	+005	-001	+014	-003	-042	-048	-053	-064	-082	-054
September	-033	-017	-009	-018	-009	-023	-004	+035	+074	+098	+092	+052	+027	+015	+023	+011	-004	-015	-040	-058	-056	-046	-050	-047
October	-037	-029	-036	-021	-023	-035	-025	+016	+072	+130	+114	+079	+052	+030	+016	000	-028	-039	-038	-033	-036	-044	-045	-037
November	+030	+032	+027	+008	-012	-024	-033	-042	-021	+011	+022	+033	+024	+012	-002	+005	-011	-006	-004	-004	-017	-016	-004	
December	+031	+037	+041	+027	+017	000	-014	-018	-020	-031	-019	-010	+008	+010	+012	-001	-006	-014	-022	-017	-009	-002	+010	
Year	-005	-000	+006	+001	-004	-010	-005	+011	+034	+057	+059	+042	+026	+015	+007	-002	-009	-020	-033	-040	-038	-036	-034	-023
Winter	+026	+027	+031	+017	+005	-011	-026	-034	-022	+002	+016	+017	+010	+007	+009	-017	-013	-011	-013	-004	-003	-001	+011	
Equinox	-020	-012	-006	-010	-014	-022	-014	+011	+041	+080	+085	+060	+037	+018	+014	+008	-011	-021	-034	-040	-040	-038	-033	
Summer	-020	-017	-007	-004	-004	+003	+024	+055	+083	+089	+076	+048	+032	+019	+015	-006	000	-026	+053	-068	-070	-065	-063	-045

HORIZONTAL INTENSITY (Unit 0.1γ)

January	-32	-28	-40	-22	-06	+12	+36	+50	+20	-32	-54	-36	-18	-08	+36	+62	+64	+52	+28	+24	-16	-18	-36	-42
February	-24	-26	-42	-26	-08	+18	+46	+56	+32	-08	-74	-86	-64	-20	+24	+22	+26	+18	+22	+36	+24	+24	+28	00
March	-16	-12	-26	-06	+28	+26	+34	+32	+10	-60	-112	-108	-86	-50	00	-02	+38	+32	+56	+50	+52	+58	+34	+26
April	+47	+27	+17	+33	+33	+45	+39	+09	-29	-99	-161	-163	-127	-67	-49	-15	+17	+51	+63	+73	+73	+67	+65	+59
May	+37	+23	+11	+11	+21	+17	-21	-75	-117	-149	-137	-109	-87	-77	-51	+03	+11	+59	+101	+107	+117	+99	+111	+91
June	+24	+28	+10	+16	+18	00	-50	-102	-142	-164	-146	-94	-72	-20	+20	+54	+34	+58	+92	+110	+104	+88	+80	+64
July	+38	+34	+44	+56	+58	+40	-04	-62	-106	-154	-198	-214	-190	-152	-92	-20	+30	+110	+144	+176	+166	+134	+98	+56
August	+44	+32	-04	+06	+10	+20	+06	-42	-128	-162	-162	-130	-76	-22	-14	+08	+02	+36	+90	+92	+98	+100	+126	+80
September	+60	+34	+24	+40	+22	+42	+18	-42	-116	-170	-178	-128	-76	-36	-30	-04	+16	+32	+74	+98	+94	+74	+80	+76
October	+50	+38	+46	+24	+36	+54</																		

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

International Quiet Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1944	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
January	- 25	- 20	- 31	- 15	+ 05	+ 19	+ 41	+ 55	+ 25	- 32	- 62	- 49	- 39	- 30	+ 19	+ 49	+ 52	+ 41	+ 22	+ 22	- 03	- 00	- 21	- 27
February	- 10	- 08	- 29	- 14	+ 02	+ 27	+ 54	+ 64	+ 41	+ 01	- 73	- 103	- 90	- 49	- 01	+ 05	+ 15	+ 08	+ 15	+ 36	+ 29	+ 29	+ 39	+ 11
March	- 07	- 05	- 19	- 02	+ 38	+ 35	+ 44	+ 49	+ 36	- 38	- 106	- 124	- 117	- 85	- 31	- 21	+ 27	+ 24	+ 51	+ 49	+ 54	+ 65	+ 43	+ 38
April	+ 53	+ 32	+ 22	+ 43	+ 45	+ 59	+ 61	+ 41	+ 08	- 69	- 147	- 176	- 159	- 110	- 87	- 41	+ 02	+ 44	+ 58	+ 68	+ 72	+ 66	+ 64	+ 59
May	+ 44	+ 30	+ 21	+ 25	+ 43	+ 53	+ 19	- 34	- 81	- 130	- 143	- 136	- 129	- 123	- 92	- 30	- 09	+ 50	+ 98	+ 103	+ 113	+ 97	+ 112	+ 96
June	+ 30	+ 31	+ 21	+ 32	+ 44	+ 34	- 15	- 66	- 106	- 137	- 142	- 117	- 116	- 73	- 27	+ 18	+ 12	+ 48	+ 87	+ 108	+ 104	+ 89	+ 83	+ 68
July	+ 49	+ 46	+ 56	+ 71	+ 75	+ 67	+ 33	- 19	- 63	- 121	- 186	- 225	- 218	- 189	- 135	- 62	- 05	+ 80	+ 123	+ 159	+ 153	+ 130	+ 107	+ 66
August	+ 52	+ 45	+ 09	+ 18	+ 26	+ 43	+ 35	- 08	- 93	- 138	- 162	- 159	- 125	- 73	- 55	- 24	- 15	+ 27	+ 84	+ 94	+ 101	+ 100	+ 135	+ 93
September	+ 67	+ 45	+ 36	+ 57	+ 35	+ 57	+ 41	- 12	- 86	- 150	- 181	- 154	- 116	- 77	- 62	- 26	+ 04	+ 25	+ 70	+ 95	+ 98	+ 74	+ 85	+ 82
October	+ 62	+ 45	+ 53	+ 34	+ 47	+ 64	+ 64	+ 26	- 67	- 180	- 202	- 181	- 146	- 95	- 47	- 02	+ 40	+ 62	+ 64	+ 63	+ 66	+ 83	+ 81	+ 67
November	- 31	- 41	- 38	- 14	+ 22	+ 37	+ 54	+ 68	+ 36	- 20	- 56	- 84	- 62	- 31	- 02	- 06	+ 15	+ 14	+ 15	+ 19	+ 25	+ 39	+ 30	+ 14
December	- 33	- 44	- 58	- 39	- 22	+ 01	+ 27	+ 37	+ 26	+ 26	+ 23	+ 07	- 15	- 26	- 19	- 18	- 01	+ 16	+ 25	+ 37	+ 33	+ 25	+ 05	- 05
Year	+ 21	+ 13	+ 04	+ 16	+ 30	+ 41	+ 38	+ 17	- 27	- 82	- 120	- 125	- 111	- 80	- 45	- 13	+ 11	+ 37	+ 59	+ 71	+ 70	+ 66	+ 64	+ 47
Winter	- 25	- 28	- 39	- 21	+ 02	+ 21	+ 44	+ 56	+ 32	- 07	- 42	- 57	- 52	- 34	- 01	+ 08	+ 20	+ 20	+ 19	+ 29	+ 21	+ 23	+ 13	- 02
Equinox	+ 44	+ 29	+ 23	+ 33	+ 41	+ 54	+ 53	+ 26	- 27	- 109	- 159	- 159	- 135	- 92	- 57	- 23	+ 18	+ 39	+ 61	+ 69	+ 73	+ 72	+ 68	+ 62
Summer	+ 44	+ 38	+ 27	+ 37	+ 47	+ 49	+ 18	- 32	- 86	- 132	- 158	- 159	- 147	- 115	- 77	- 25	- 04	+ 51	+ 98	+ 116	+ 118	+ 104	+ 109	+ 81

WEST COMPONENT (Unit 0.1γ)

January	- 41	- 49	- 54	- 44	- 61	- 39	- 25	- 23	- 25	- 04	+ 38	+ 71	+ 117	+ 123	+ 97	+ 80	+ 73	+ 66	+ 39	+ 15	- 73	- 101	- 87	- 88
February	- 79	- 103	- 76	- 67	- 59	- 49	- 43	- 38	- 46	- 51	- 14	+ 87	+ 142	+ 160	+ 140	+ 97	+ 65	+ 56	+ 39	+ 04	- 28	- 24	- 57	- 60
March	- 55	- 38	- 43	- 21	- 56	- 45	- 52	- 90	- 143	- 129	- 43	+ 80	+ 165	+ 192	+ 172	+ 105	+ 67	+ 46	+ 33	+ 12	- 09	- 36	- 45	- 67
April	- 28	- 28	- 28	- 51	- 62	- 77	- 119	- 181	- 210	- 178	- 92	+ 56	+ 170	+ 236	+ 208	+ 145	+ 83	+ 45	+ 37	+ 34	+ 12	+ 10	+ 13	+ 04
May	- 37	- 37	- 54	- 78	- 119	- 199	- 228	- 237	- 211	- 122	+ 22	+ 143	+ 229	+ 249	+ 224	+ 183	+ 113	+ 57	+ 28	+ 32	+ 34	+ 20	+ 03	- 18
June	- 34	- 13	- 59	- 90	- 145	- 191	- 201	- 212	- 215	- 167	- 38	+ 121	+ 240	+ 297	+ 268	+ 206	+ 126	+ 64	+ 35	+ 24	+ 11	+ 01	- 09	- 16
July	- 56	- 64	- 63	- 78	- 88	- 149	- 210	- 250	- 251	- 201	- 87	+ 40	+ 140	+ 195	+ 236	+ 234	+ 199	+ 177	+ 132	+ 112	+ 87	+ 34	- 43	- 50
August	- 41	- 72	- 72	- 66	- 88	- 125	- 164	- 195	- 211	- 152	- 15	+ 150	+ 266	+ 285	+ 231	+ 179	+ 96	+ 52	+ 41	- 01	- 07	+ 11	- 39	- 64
September	- 33	- 56	- 66	- 90	- 72	- 81	- 128	- 170	- 180	- 127	+ 03	+ 136	+ 214	+ 229	+ 179	+ 122	+ 72	+ 41	+ 32	+ 24	- 13	+ 07	- 19	- 25
October	- 61	- 33	- 35	- 52	- 59	- 51	- 73	- 144	- 194	- 151	- 32	+ 117	+ 203	+ 203	+ 172	+ 116	+ 82	+ 63	+ 51	+ 21	+ 06	- 33	- 65	- 46
November	- 57	- 20	- 06	- 00	- 20	- 16	- 17	- 30	- 55	- 58	- 05	+ 69	+ 109	+ 103	+ 66	+ 45	+ 52	+ 14	- 06	- 25	- 27	- 36	- 42	- 34
December	- 64	- 71	- 40	- 45	- 38	- 26	- 28	- 34	- 17	+ 05	+ 54	+ 74	+ 108	+ 75	+ 47	+ 54	+ 38	+ 27	+ 19	+ 08	- 15	- 35	- 40	- 50
Year	- 49	- 49	- 50	- 57	- 72	- 87	- 107	- 134	- 147	- 111	- 17	+ 95	+ 175	+ 196	+ 170	+ 131	+ 89	+ 59	+ 40	+ 22	- 02	- 15	- 36	- 43
Winter	- 60	- 61	- 44	- 39	- 45	- 33	- 28	- 31	- 36	- 27	+ 18	+ 75	+ 119	+ 115	+ 88	+ 69	+ 57	+ 41	+ 23	+ 01	- 36	- 49	- 57	- 58
Equinox	- 44	- 39	- 43	- 54	- 62	- 64	- 93	- 146	- 182	- 146	- 41	+ 97	+ 188	+ 215	+ 183	+ 122	+ 76	+ 49	+ 38	+ 23	- 01	- 13	- 29	- 34
Summer	- 42	- 47	- 62	- 78	- 110	- 166	- 201	- 224	- 222	- 161	- 30	+ 114	+ 219	+ 257	+ 240	+ 201	+ 134	+ 88	+ 59	+ 42	+ 31	+ 17	- 22	- 37

VERTICAL COMPONENT (Unit 0.1γ)

January	00	- 10	- 18	- 22	- 12	- 18	- 14	- 10	- 28	- 24	- 04	- 12	- 18	+ 02	+ 18	+ 06	+ 02	+ 10	+ 08	+ 22	+ 30	+ 40	+ 26	+ 18
February	+ 22	+ 20	+ 24	+ 16	+ 26	+ 14	+ 06	00	- 14	- 18	- 48	- 86	- 78	- 36	- 04	+ 12	+ 12	+ 16	+ 28	+ 20	+ 16	+ 10	+ 14	
March	+ 17	+ 13	+ 09	+ 15	+ 21	+ 17	+ 25	+ 41	+ 11	- 25	- 63	- 101	- 113	- 79	- 33	+ 09	+ 37	+ 33	+ 27	+ 31	+ 29	+ 39	+ 19	+ 17
April	+ 18	+ 22	+ 28	+ 46	+ 40	+ 38	+ 50	+ 32	+ 12	- 34	- 104	- 156	- 148	- 100	- 16	+ 24	+ 44	+ 54	+ 46	+ 32	+ 32	+ 14	+ 18	+ 14
May	+ 19	+ 23	+ 21	+ 45	+ 57	+ 59	+ 39	+ 19	- 17	- 75	- 135	- 167	- 137	- 93	- 33	+ 01	+ 45	+ 61	+ 71	+ 47	+ 45	+ 35	+ 47	+ 31
June	+ 18	+ 14	+ 14	+ 50	+ 58	+ 64	+ 38	+ 18	- 04	- 46	- 108	- 158	- 142	- 116	- 42	+ 06	+ 50	+ 78	+ 76	+ 50	+ 36	+ 22	+ 22	+ 12
July	+ 14	+ 14	+ 10	+ 38	+ 44	+ 56	+ 50	+ 38	+ 02	- 60	- 102	- 140	- 124	- 78	- 22	00	+ 32	+ 46	+ 48	+ 40	+ 38	+ 16	+ 16	+ 12
August	+ 17	+ 05	+ 07	+ 17																				

MAGNETIC OBSERVATIONS, ABINGER 1944.

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, 1944	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
January	-027	+115	+199	+075	+043	+227	+259	+291	+247	+287	+291	+279	+359	+303	+137	+017	-075	-725	-463	-415	-491	-373	-367	-195
February	-118	-128	-022	-088	-020	+302	+462	+338	+156	+136	+238	+278	+404	+404	+254	+112	-032	-406	-388	-482	-604	-412	-208	-184
March	-220	-380	-018	-136	+100	+106	-046	-016	000	-020	+076	+346	+420	+576	+374	+036	+132	-060	-306	-096	-190	-266	-260	-146
April	-180	-174	-128	-238	-130	-066	+044	+330	+022	-060	+310	+366	+538	+626	+434	+276	+154	-216	-312	-510	-272	-222	-282	-316
May	-112	-028	-188	-274	-268	-212	-182	-266	-260	-074	+214	+394	+526	+582	+496	+346	+280	+016	-038	-164	-244	-198	-216	-122
June	-297	-285	-115	-285	-339	-413	-487	-465	-403	-177	+045	+293	+539	+741	+707	+629	+357	+267	+235	+137	-039	-211	-239	-203
July	-208	-156	-144	-174	-290	-356	-412	-346	-298	-182	+036	+352	+540	+620	+542	+410	+226	+090	+022	-042	-060	-080	-062	-032
August	-137	-205	-169	-239	-411	-477	-253	-071	-083	+051	+267	+553	+699	+581	+461	+319	+175	-039	-027	-139	-161	-197	-209	-285
September	-261	-343	-127	-243	-253	-179	-139	-183	-207	-093	+099	+439	+667	+685	+627	+323	+263	+107	-005	-325	-211	-193	-193	-267
October	-397	-365	-175	+167	-051	-089	-109	-185	-217	-063	+247	+525	+535	+575	+621	+549	+293	+107	-067	-185	-401	-353	-361	-599
November	-208	-152	-100	+006	-018	+002	+016	+016	+046	+066	+108	+348	+434	+504	+436	+170	+010	-030	-036	-140	-160	-362	-538	-420
December	-120	+054	+074	+034	+082	+320	+202	+210	+210	+190	+112	+030	+112	+190	+378	+494	-048	-056	-006	-346	-450	-524	-616	-536
Year	-190	-171	-076	-116	-130	-070	-054	-029	-065	+005	+170	+350	+481	+532	+456	+307	+145	-079	-116	-226	-274	-283	-296	-275
Winter	-118	-028	+038	+007	+022	+213	+235	+214	+165	+170	+187	+234	+327	+350	+301	+198	-036	-304	-223	-346	-426	-418	-432	-334
Equinox	-265	-316	-112	-113	-084	-057	-063	-014	-101	-059	+183	+419	+540	+616	+514	+296	+211	-016	-173	-279	-269	-259	-274	-332
Summer	-189	-169	-154	-243	-327	-365	-334	-287	-261	-096	+141	+398	+576	+631	+552	+426	+260	+084	+048	-052	-126	-172	-182	-161

INCLINATION (Unit 0.01)

January	-073	-084	-060	-124	-115	-078	-090	-076	-039	+023	+070	+027	+029	+076	+067	+133	+127	+186	+113	+116	+007	-029	-134	-074
February	-112	-077	-121	-059	-211	-146	-144	-145	-083	+026	+106	+070	+157	+264	+223	+189	+117	+154	+035	+044	-104	-143	-030	-018
March	-116	-081	-094	-083	-047	-077	-049	+048	+096	+104	+146	+133	+166	+037	+127	+111	+047	+022	-084	-021	-070	-059	-078	-183
April	-192	-210	-238	-229	-220	-216	-115	+103	+182	+333	+432	+331	+105	+069	+100	+105	+094	+041	+031	-007	-035	-085	-201	-175
May	-123	-066	-038	-035	-039	+003	-034	-002	+044	+062	+080	+166	+105	+082	+107	-004	+071	-032	+005	-006	-049	-124	-104	-081
June	-069	-004	-048	-088	-109	-097	-040	+084	+114	+137	+106	+056	+079	+039	+021	+006	+030	+043	-021	-031	-015	-036	-077	-080
July	-092	-086	-063	-094	-065	-055	-019	+015	+077	+144	+108	+097	+128	+095	+054	+013	-006	-003	-014	-044	-052	-047	-043	
August	-103	-136	-154	-180	-112	-078	+009	+020	+136	+121	+117	+106	+077	+091	+076	+072	+072	+079	+011	-045	-066	-060	-035	-004
September	-105	-117	-075	-064	-050	-051	-015	+009	+072	+079	+053	+048	+036	+057	+091	+094	+064	+017	+027	+026	+036	-008	-107	-113
October	-069	-063	-045	-096	-068	-067	-030	-033	-029	+038	+063	+080	+025	-034	-030	+001	+092	+094	+101	+089	+073	-021	-066	-001
November	-077	-085	-094	-117	-155	-174	-166	-110	-034	-006	+054	+045	+133	+139	+120	+134	+114	+122	+138	+073	+034	-026	-038	-022
December	-153	-150	-174	-188	-214	-272	-265	-194	-171	-172	-150	-068	-070	000	+256	+329	+469	+365	+357	+233	+156	+108	+044	-071
Year	-107	-097	-100	-113	-117	-109	-080	-023	+030	+074	+099	+091	+081	+076	+101	+099	+108	+091	+058	+036	-007	-045	-073	-072
Winter	-104	-099	-112	-122	-174	-168	-166	-131	-082	-032	+020	+019	+062	+120	+167	+196	+207	+207	+161	+117	+023	-023	-040	-046
Equinox	-121	-118	-113	-118	-096	-103	-052	+032	+080	+139	+174	+148	+083	+032	+072	+078	+074	+044	+019	+022	+001	-043	-113	-118
Summer	-097	-073	-076	-099	-081	-057	-021	+029	+093	+116	+103	+106	+097	+077	+065	+022	+042	+022	-005	-032	-046	-068	-066	-052

HORIZONTAL INTENSITY (Unit 0.1Y)

January	+ 68	+ 62	+ 42	+ 136	+ 132	+ 80	+ 108	+ 90	+ 40	- 50	- 110	- 48	- 50	- 96	- 60	- 136	- 128	- 198	- 92	- 120	+ 30	+ 50	+ 178	+ 74
February	+134	+ 64	+ 118	+ 42	+ 272	+ 156	+ 150	+ 158	+ 76	- 78	- 176	- 112	- 230	- 336	- 254	- 192	- 86	- 150	+ 24	- 06	+ 184	+ 212	+ 26	+ 10
March	+120	+ 48	+ 60	+ 30	- 16	+ 58	+ 40	- 86	- 156	- 174	- 238	- 218	- 254	- 28	- 134	- 56	+ 24	+ 50	+ 196	+ 82	+ 152	+ 120	+ 134	+ 274
April	+236	+ 256	+ 290	+ 266	+ 264	+ 274	+ 136	- 190	- 310	- 546	- 692	- 510	- 156	- 84	- 106	- 90	- 52	+ 42	+ 40	+ 96	+ 114	+ 166	+ 314	+ 238
May	+150	+ 52	+ 20	+ 38	+ 50	- 14	+ 36	- 26	- 94	- 142	- 190	- 326	- 206	- 140	- 122	+ 76	- 20	+ 146	+ 82	+ 84	+ 126	+ 202	+ 142	+ 86
June	+ 85	- 11	+ 55	+ 113	+ 133	+ 113	+ 33	- 157	- 209	- 251	- 211	- 139	- 165	- 89	- 27	+ 39	+ 39	+ 33	+ 115	+ 113	+ 77	+ 85	+ 125	+ 99
July	+ 137	+ 125	+ 89	+ 141	+ 95	+ 89	+ 29	- 31	- 131	- 247	- 217	- 207	- 243	- 169	- 85	- 01	+ 43	+ 49	+ 69	+ 103	+ 111	+ 99	+ 87	+ 73
August	+136	+ 176	+ 166	+ 204	+ 108	+ 82	- 34	- 58	- 234	- 216	- 214	- 200	- 142	- 134	- 78	- 54								

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1944	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
January	+ 70	+ 50	+ 23	+ 127	+ 126	+ 57	+ 82	+ 61	+ 16	- 77	- 136	- 74	- 83	- 123	- 72	- 136	- 119	- 126	- 47	- 79	+ 76	+ 85	+ 210	+ 91
February	+ 143	+ 75	+ 118	+ 50	+ 270	+ 125	+ 104	+ 124	+ 60	- 90	- 196	- 137	- 265	- 369	- 274	- 200	- 82	- 109	+ 60	+ 40	+ 239	+ 248	+ 45	+ 27
March	+ 138	+ 82	+ 60	+ 42	- 26	+ 46	+ 43	- 84	- 155	- 171	- 243	- 249	- 291	- 83	- 169	- 60	+ 10	+ 54	+ 221	+ 89	+ 167	+ 142	+ 156	++ 283
April	+ 250	+ 269	+ 298	+ 285	+ 272	+ 276	+ 130	- 219	- 308	- 532	- 711	- 537	- 205	- 142	- 146	- 115	- 66	+ 62	+ 69	+ 143	+ 138	+ 185	+ 336	+ 264
May	+ 158	+ 54	+ 38	+ 63	+ 75	+ 06	+ 53	- 00	- 68	- 133	- 208	- 359	- 253	- 193	- 167	+ 42	- 46	+ 142	+ 84	+ 98	+ 147	+ 218	+ 160	+ 96
June	+ 112	+ 16	+ 65	+ 138	+ 163	+ 151	+ 79	- 111	- 168	- 230	- 212	- 165	- 214	- 158	- 94	- 21	+ 05	+ 07	+ 91	+ 98	+ 80	+ 104	+ 146	+ 117
July	+ 155	+ 138	+ 101	+ 155	+ 121	+ 121	+ 68	+ 02	- 101	- 226	- 217	- 237	- 291	- 225	- 135	- 40	+ 21	+ 40	+ 66	+ 106	+ 115	+ 105	+ 92	+ 75
August	+ 147	+ 193	+ 180	+ 224	+ 145	+ 126	- 10	- 50	- 223	- 218	- 236	- 249	- 206	- 187	- 121	- 83	- 54	- 34	+ 62	+ 145	+ 171	+ 137	+ 89	+ 41
September	+ 177	+ 169	+ 84	+ 77	+ 76	+ 73	+ 28	+ 03	- 100	- 134	- 135	- 167	- 159	- 164	- 183	- 116	- 67	+ 17	+ 15	+ 55	+ 09	+ 63	+ 185	+ 182
October	+ 50	+ 40	+ 02	+ 42	+ 55	+ 86	+ 57	+ 82	+ 61	- 58	- 131	- 185	- 83	+ 08	+ 11	- 06	- 92	- 72	- 66	- 39	- 06	+ 102	+ 120	+ 20
November	+ 109	+ 112	+ 119	+ 136	+ 194	+ 216	+ 202	+ 126	+ 08	- 35	- 120	- 127	- 251	- 240	- 184	- 159	- 104	- 107	- 130	- 35	+ 06	+ 98	+ 103	+ 61
December	+ 168	+ 154	+ 181	+ 205	+ 241	+ 290	+ 283	+ 184	+ 147	+ 143	+ 124	+ 22	+ 46	- 37	- 328	- 278	- 432	- 368	- 406	- 209	- 132	- 85	- 19	+ 103
Year	+ 140	+ 113	+ 106	+ 129	+ 143	+ 131	+ 93	+ 10	- 69	- 147	- 202	- 205	- 188	- 159	- 155	- 98	- 86	- 41	+ 02	+ 34	+ 84	+ 117	+ 135	+ 113
Winter	+ 123	+ 98	+ 110	+ 130	+ 208	+ 172	+ 168	+ 124	+ 58	- 15	- 82	- 79	- 138	- 192	- 215	- 193	- 184	- 178	- 131	- 71	+ 47	+ 87	+ 85	+ 71
Equinox	+ 154	+ 140	+ 111	+ 112	+ 94	+ 120	+ 65	- 55	- 126	- 224	- 305	- 285	- 185	- 95	- 122	- 74	- 54	+ 15	+ 60	+ 62	+ 77	+ 123	+ 199	+ 187
Summer	+ 143	+ 100	+ 96	+ 145	+ 126	+ 101	+ 48	- 40	- 140	- 202	- 218	- 253	- 241	- 191	- 129	- 26	- 19	+ 39	+ 76	+ 112	+ 128	+ 141	+ 122	+ 82

WEST COMPONENT (Unit 0.1γ)

January	- 03	+ 72	+ 113	+ 64	+ 46	+ 135	+ 157	+ 171	+ 138	+ 144	+ 136	+ 140	+ 182	+ 144	+ 62	- 15	- 62	- 421	- 263	- 242	- 256	- 190	- 164	- 91
February	- 39	- 57	+ 09	- 39	+ 37	+ 188	+ 272	+ 208	+ 96	+ 59	+ 96	+ 128	+ 175	+ 156	+ 91	+ 26	- 32	- 243	- 202	- 258	- 289	- 182	- 106	- 96
March	- 96	- 194	+ 01	- 67	+ 50	+ 66	- 18	- 24	- 28	- 41	- 01	+ 146	+ 179	+ 301	+ 175	+ 09	+ 74	- 23	- 129	- 37	- 75	- 121	- 115	- 30
April	- 55	- 48	- 17	- 80	- 23	+ 13	+ 47	+ 141	- 43	- 128	+ 44	+ 105	+ 259	+ 318	+ 212	+ 131	+ 73	- 108	- 159	- 255	- 125	- 89	- 95	+ 126
May	- 33	- 06	- 97	- 139	- 134	- 115	- 91	- 146	- 155	- 64	+ 81	+ 153	+ 244	+ 285	+ 243	+ 197	+ 146	+ 34	- 06	- 73	- 108	- 70	- 90	- 50
June	- 143	- 154	- 52	- 132	- 157	- 200	- 253	- 275	- 251	- 138	- 13	+ 132	+ 258	+ 379	+ 372	+ 342	+ 197	+ 148	+ 145	+ 93	- 07	- 97	- 105	- 91
July	- 87	- 61	- 61	- 68	- 138	- 174	- 214	- 190	- 182	- 140	- 19	+ 151	+ 245	+ 300	+ 274	+ 218	+ 128	+ 57	+ 24	- 04	- 13	- 25	- 18	- 04
August	- 49	- 78	- 61	- 92	- 200	- 239	- 141	- 48	- 85	- 11	+ 105	+ 259	+ 347	+ 286	+ 232	+ 160	+ 86	- 28	- 04	- 51	- 58	- 84	- 99	- 149
September	- 112	- 158	- 55	- 120	- 125	- 85	- 71	- 100	- 131	- 75	+ 31	+ 211	+ 338	+ 347	+ 312	+ 157	+ 132	+ 62	- 00	- 169	- 114	- 95	- 73	- 114
October	- 209	- 193	- 96	+ 99	- 18	- 34	- 50	- 87	- 108	- 45	+ 112	+ 255	+ 279	+ 317	+ 343	+ 300	+ 145	+ 46	- 49	- 108	- 221	- 176	- 177	- 325
November	- 95	- 64	- 34	+ 28	+ 25	+ 39	+ 45	+ 31	+ 27	+ 30	+ 38	+ 169	+ 194	+ 234	+ 207	+ 65	- 13	- 35	- 43	- 83	- 87	- 181	- 277	- 220
December	- 36	+ 57	+ 73	+ 55	+ 88	+ 227	+ 161	+ 148	+ 141	+ 130	+ 84	+ 20	+ 70	+ 98	+ 149	+ 222	- 103	- 96	- 76	- 227	- 270	- 303	- 342	- 276
Year	- 80	- 74	- 23	- 41	- 15	- 13	- 14	- 48	- 23	+ 58	+ 156	+ 231	+ 264	+ 223	+ 151	+ 64	- 51	- 64	- 118	- 135	- 134	- 138	- 131	
Winter	- 43	+ 02	+ 40	+ 27	+ 49	+ 147	+ 159	+ 140	+ 101	+ 91	+ 89	+ 114	+ 155	+ 158	+ 127	+ 75	- 53	- 199	- 146	- 203	- 226	- 214	- 222	- 171
Equinox	- 118	- 148	- 42	- 42	- 29	- 10	- 23	- 18	- 78	- 72	+ 47	+ 179	+ 264	+ 321	+ 261	+ 149	+ 106	- 06	- 84	- 142	- 134	- 120	- 115	- 149
Summer	- 78	- 75	- 68	- 108	- 157	- 175	- 165	- 168	- 88	+ 39	+ 174	+ 274	+ 313	+ 280	+ 229	+ 139	+ 53	+ 40	- 09	- 47	- 69	- 78	- 74	

VERTICAL COMPONENT (Unit 0.1γ)

January	- 93	- 145	- 109	- 111	- 89	- 83	- 59	- 53	- 41	- 39	- 13	- 19	- 17	+ 37	+ 95	+ 143	+ 143	+ 185	+ 175	+ 121	+ 93	+ 19	- 49	- 83
February	- 75	- 119	- 145	- 107	- 97	- 141	- 149	- 135	- 109	- 89	- 41	- 19	+ 07	+ 131	+ 181	+ 207	+ 205	+ 183	+ 177	+ 137	+ 69	- 01	- 45	- 37
March	- 125	- 171	- 187	- 219	- 199	- 135	- 81	- 37	- 35	- 47	- 51	- 47	- 21	+ 59	+ 125	+ 251	+ 215	+ 189	+ 161	+ 119	+ 109	+ 73	+ 41	+ 05
April	- 113	- 133	- 149	- 173	- 147	- 109	- 81	- 85	- 95	- 119	- 117	- 43	+ 01	+ 41	+ 99	+ 151	+ 203	+ 239	+ 201	+ 199	+ 147	+ 95	+ 33	- 51
May	- 76	- 108	- 88	- 32	- 16	- 20	- 36	- 66	- 66	- 116	- 166	- 184	- 118	- 40	+ 86	+ 162	+ 200	+ 230	+ 208	+ 178	+ 124	+ 40	- 28	- 78
June	- 42	- 38	- 38	- 42	- 66	- 72	- 64	- 76	- 94	- 112	- 124	- 130	- 112	- 74	- 12	+ 112	+ 194	+						

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

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

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT								
	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	
"All" Days																									
1944	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Jan.	+ 3.6	+ 3.5	- 1.9	- 1.4	+ 1.6	- 2.5	+ 0.5	+ 0.9	- 9.9	+ 3.4	+ 0.5	+ 5.3	- 0.7	+ 0.1	+ 1.3	+ 1.7	- 0.5	- 5.8	- 2.4	- 0.5	+ 0.0	- 0.6	- 0.6	- 0.3	- 0.3
Feb.	+ 6.2	+ 3.2	- 3.9	- 2.8	+ 1.2	- 1.3	- 0.3	- 0.1	- 8.5	+ 0.2	+ 0.6	+ 4.3	- 0.8	- 2.0	+ 1.3	+ 1.3	+ 0.9	- 5.1	- 2.1	+ 0.6	+ 0.8	- 0.3	- 0.8	- 0.1	- 0.1
March	+ 10.5	- 0.2	- 3.4	- 1.5	+ 2.8	- 2.2	+ 0.2	+ 1.2	- 10.2	- 3.2	+ 2.0	+ 7.8	- 2.1	- 3.9	+ 1.8	+ 0.8	+ 1.6	- 7.4	- 5.1	- 1.2	+ 2.0	- 0.6	- 0.9	- 0.3	- 0.3
April	+ 15.2	- 2.2	- 6.1	+ 1.8	+ 1.8	- 3.4	+ 0.8	+ 0.6	- 8.5	- 8.5	+ 4.2	+ 10.2	- 1.7	- 3.8	+ 1.3	+ 1.9	+ 3.6	- 5.7	- 6.4	- 1.1	+ 1.5	- 0.3	- 0.7	+ 0.3	+ 0.3
May	+ 12.2	- 3.4	- 5.3	- 0.2	+ 1.5	- 0.0	+ 0.5	- 0.6	- 7.7	- 13.6	+ 6.9	+ 7.5	- 2.5	- 1.4	+ 1.2	+ 0.2	+ 5.1	- 5.6	- 7.6	+ 1.0	+ 1.7	- 1.0	- 0.4	- 0.5	- 0.5
June	+ 12.5	- 3.3	- 5.5	+ 0.8	- 0.3	- 2.3	+ 1.3	- 0.5	- 7.6	- 17.6	+ 6.8	+ 9.1	- 3.6	- 2.0	+ 0.0	+ 0.6	+ 5.4	- 4.8	- 6.9	+ 0.3	+ 1.6	+ 0.0	- 0.6	- 0.2	- 0.2
July	+ 13.7	- 3.0	- 6.7	- 0.1	+ 0.1	- 1.5	+ 0.5	+ 0.2	- 7.4	- 17.3	+ 6.6	+ 9.4	- 3.2	- 2.5	+ 0.1	+ 0.5	+ 5.4	- 2.8	- 6.0	+ 0.0	+ 1.7	+ 0.1	- 0.5	0.0	0.0
Aug.	+ 14.1	- 2.0	- 4.6	+ 0.9	- 0.4	- 1.8	+ 0.6	+ 0.6	- 10.1	- 13.6	+ 7.5	+ 6.9	- 3.4	- 1.9	+ 0.8	+ 1.1	+ 4.3	- 4.9	- 5.6	- 0.5	+ 2.7	- 1.1	- 0.4	+ 0.1	+ 0.1
Sept.	+ 11.6	- 0.7	- 4.4	- 0.3	+ 1.2	- 1.6	+ 1.4	+ 1.0	- 11.3	- 10.2	+ 4.4	+ 8.7	- 3.9	- 2.5	+ 2.3	+ 1.8	+ 3.3	- 3.7	- 5.2	- 0.7	+ 2.3	- 1.2	- 1.0	+ 0.2	+ 0.2
Oct.	+ 7.9	0.0	- 3.8	- 0.4	+ 2.1	- 3.7	- 0.8	+ 0.6	- 10.8	- 4.8	+ 3.0	+ 9.0	- 3.7	- 1.6	+ 2.3	+ 0.9	+ 0.0	- 4.5	- 4.8	- 0.7	+ 1.1	- 1.3	- 0.8	+ 0.8	+ 0.8
Nov.	+ 5.8	+ 3.6	- 4.0	- 1.7	+ 1.2	- 1.8	+ 0.0	+ 0.2	- 7.0	- 1.2	+ 0.7	+ 4.8	- 2.1	- 0.9	+ 0.8	+ 1.3	+ 0.8	- 4.2	- 2.1	+ 1.0	+ 0.8	- 0.6	- 0.5	+ 0.6	+ 0.6
Dec.	+ 1.6	+ 6.6	- 0.5	- 2.3	- 0.3	- 1.9	+ 1.0	+ 0.2	- 9.3	+ 2.1	- 1.0	+ 4.3	- 0.9	+ 0.1	+ 0.9	+ 0.6	- 0.1	- 7.6	- 3.4	+ 1.7	+ 1.3	- 0.3	- 1.0	- 0.6	- 0.6
Year	+ 9.6	+ 0.2	- 4.2	- 0.6	+ 1.0	- 2.0	+ 0.5	+ 0.4	- 9.0	- 7.0	+ 3.5	+ 7.3	- 2.4	- 1.8	+ 1.2	+ 1.1	+ 2.5	- 5.2	- 4.8	- 0.0	+ 1.4	- 0.6	- 0.7	+ 0.0	+ 0.0
Winter Equinox	+ 4.3	+ 4.2	- 2.6	- 2.1	+ 0.9	- 1.9	+ 0.3	+ 0.3	- 8.7	+ 1.1	+ 0.2	+ 4.7	- 1.1	- 0.7	+ 1.1	+ 1.2	+ 0.3	- 5.7	- 2.5	+ 0.7	+ 0.7	- 0.4	- 0.7	- 0.1	- 0.1
Summer	+ 13.2	- 2.9	- 5.5	+ 0.3	+ 0.2	- 1.4	+ 0.7	- 0.1	- 10.2	- 6.2	+ 3.4	+ 8.9	- 2.8	- 2.9	+ 1.9	+ 1.3	+ 2.1	- 5.3	- 5.4	- 0.9	+ 1.7	- 0.9	- 0.9	+ 0.3	+ 0.3
INTERNATIONAL QUIET DAYS																									
Year	+ 6.9	- 0.8	- 4.5	- 0.5	+ 1.0	- 1.3	+ 0.1	+ 0.7	- 6.1	- 9.0	+ 3.5	+ 6.2	- 2.9	- 2.1	+ 1.2	+ 1.0	+ 3.7	- 1.2	- 3.8	+ 0.2	+ 1.7	- 0.5	- 0.6	+ 0.2	+ 0.2
Winter Equinox	+ 0.7	+ 0.5	- 3.2	- 1.2	+ 1.6	- 1.0	- 0.3	+ 0.6	- 6.3	- 3.1	+ 0.8	+ 3.0	- 1.3	- 0.5	+ 1.1	+ 0.8	+ 1.5	- 1.7	- 1.1	+ 0.1	+ 0.6	- 0.6	- 0.4	+ 0.3	+ 0.3
Summer	+ 8.7	- 0.4	- 5.3	+ 0.1	+ 1.6	- 1.6	+ 0.3	+ 1.1	- 5.3	- 8.8	+ 3.7	+ 7.3	- 3.6	- 3.2	+ 2.0	+ 1.5	+ 3.9	- 0.9	- 4.2	+ 0.1	+ 2.3	- 0.6	- 1.0	+ 0.4	+ 0.4
INTERNATIONAL DISTURBED DAYS																									
Year	+ 16.3	+ 1.7	- 4.2	- 1.0	+ 0.1	- 3.7	+ 0.6	- 0.5	- 13.5	- 1.3	+ 4.1	+ 7.9	- 1.3	- 3.3	+ 0.5	+ 1.7	- 1.1	- 13.7	- 6.7	+ 0.4	+ 1.8	- 0.2	- 0.7	- 0.3	- 0.3
Winter Equinox	+ 12.0	+ 11.3	- 1.6	- 4.9	- 0.8	- 3.6	0.0	- 1.1	- 12.8	+ 11.4	+ 1.5	+ 6.1	+ 0.7	- 2.7	- 0.0	+ 3.0	- 3.3	- 16.8	- 6.4	+ 3.3	+ 1.9	+ 0.7	- 1.3	- 1.1	- 1.1
Summer	+ 19.2	- 2.8	- 4.0	+ 1.5	+ 1.4	- 5.2	+ 1.8	+ 0.6	- 15.2	- 1.4	+ 3.8	+ 9.9	- 2.3	- 4.8	+ 0.9	+ 0.9	- 2.9	- 12.8	- 6.2	- 2.1	+ 1.9	- 1.3	- 0.3	+ 0.4	+ 0.4
-	+ 17.8	- 3.4	- 6.9	+ 0.5	- 0.2	- 2.5	- 0.1	- 1.0	- 12.6	- 14.1	+ 7.1	+ 7.9	- 2.4	- 2.2	+ 0.5	+ 1.3	+ 2.9	- 11.5	- 7.5	+ 0.1	+ 1.7	- 0.1	- 0.5	- 0.2	- 0.2

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								WEST COMPONENT								VERTICAL COMPONENT									
	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4		
"All" Days																										
1944	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	o	Y	
Jan.	5.0	46	2.4	235	3.0	148	1.0	28	10.4	289	5.3	6	0.7	280	2.1	40	5.8	186	2.4	259	0.6	178	0.7	243		
Feb.	7.0	64	4.8	235	1.7	138	0.3	260	8.5	272	4.3	9	2.1	202	1.9	47	5.2	171	2.2	286	0.8	110	0.8	266		
March	10.5	92	3.7	247	3.5	129	1.2	11	10.7	253	8.1	15	4.4	210												

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1944

Month and Season	"All" Days			Quiet Days			Disturbed Days			"All" Days			Quiet Days			Disturbed Days		
	D	I	H	D	I	H	D	I	H	X	Y	Z	X	Y	Z	X	Y	Z
January	'	'	Y	'	'	Y	'	'	Y	Y	Y	Y	Y	Y	Y	Y	Y	
February	5.78	1.20	15.8	4.18	0.77	11.8	10.84	3.20	37.6	16.5	30.2	12.9	11.7	22.4	6.8	34.6	60.3	33.0
March	5.01	1.34	17.8	4.92	0.74	14.2	10.66	4.75	60.8	20.1	24.7	11.6	16.7	26.3	11.4	63.9	56.1	35.6
April	7.10	1.57	26.5	6.50	0.87	17.0	9.56	3.49	52.8	29.5	35.4	20.8	18.9	33.5	15.4	57.4	49.5	47.0
May	8.18	2.31	38.2	8.50	1.19	23.6	11.36	6.70	100.6	39.4	44.5	24.4	24.8	44.6	21.0	104.7	57.3	41.2
June	8.59	1.36	26.8	9.14	1.44	26.6	8.56	2.90	52.8	29.7	45.1	29.4	25.6	48.6	23.8	57.7	44.0	41.4
July	10.15	1.75	31.3	9.30	1.57	27.4	12.28	2.46	38.4	29.4	54.4	26.8	25.0	51.2	23.6	39.3	65.4	35.6
August	10.07	1.84	33.5	9.22	2.10	39.0	10.32	2.38	38.4	33.4	53.1	23.1	38.4	48.7	19.6	44.6	51.4	25.4
September	9.21	1.65	30.1	8.96	1.76	28.8	11.76	3.16	43.8	31.1	47.5	22.9	29.7	49.6	21.8	47.3	58.6	33.0
October	8.39	1.65	24.9	7.48	1.56	27.6	10.28	2.11	31.4	27.1	45.4	19.8	27.9	40.9	15.0	36.8	51.6	27.6
November	7.28	1.36	23.0	7.48	1.75	28.0	12.20	1.97	22.4	27.2	36.4	15.3	28.5	39.7	15.0	30.5	66.8	38.8
December	4.79	1.22	17.3	3.30	0.75	13.2	10.42	3.13	43.2	20.0	23.6	11.7	15.2	16.7	7.8	46.7	51.1	25.8
Mean for Year	5.07	1.80	19.1	3.16	0.72	10.2	11.10	7.41	76.8	19.1	27.4	19.6	9.5	17.9	5.4	72.2	56.9	80.6
Winter	7.47	1.59	25.4	6.85	1.27	22.3	10.78	3.64	49.8	26.9	39.0	19.9	22.7	36.7	15.6	53.0	55.8	38.8
Equinox	5.16	1.39	17.5	3.89	0.75	12.4	10.76	4.62	54.6	18.9	26.5	14.0	13.3	20.8	7.9	54.4	56.1	43.8
Summer	7.74	1.72	28.2	7.49	1.34	24.1	10.85	3.57	51.8	30.8	40.4	20.1	25.0	39.7	16.6	57.4	56.3	38.7

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

Month 1944	"All" Days			Quiet Days			Disturbed Days		
	Declination	Horizontal Intensity	Vertical Intensity	Declination	Horizontal Intensity	Vertical Intensity	Declination	Horizontal Intensity	Vertical Intensity
January	'	Y	Y	'	Y	Y	'	Y	Y
February	+0.06	+0.1	+0.5	-0.30	+5.0	-0.8	+1.52	-1.4	+0.4
March	+0.09	+0.7	-0.4	+0.56	+2.8	-1.8	+1.14	-7.4	-0.2
April	-0.05	-0.3	+0.1	-0.28	+5.6	-1.6	+1.92	-3.0	+4.0
May	-0.03	+1.1	-0.2	+0.62	+0.8	-0.2	-0.06	-11.6	+6.8
June	-0.01	-0.5	+0.4	+0.36	+3.0	+1.0	+0.28	-4.6	-4.4
July	0.00	+0.4	-0.1	+0.04	+3.0	-1.4	-0.40	-7.2	-1.8
August	-0.05	-0.3	-0.1	-0.34	+0.4	-0.6	+0.04	-7.4	+1.8
September	-0.04	+0.0	-0.1	0.00	+5.0	-2.2	-1.28	-11.4	-1.6
October	-0.11	+0.1	+0.0	0.00	+3.2	-1.6	+0.84	-0.8	-4.2
November	+0.13	-0.4	+0.4	+0.86	+3.0	+0.4	+1.64	-9.8	+6.8
December	-0.02	+0.1	0.0	+0.62	+2.8	-1.4	-0.92	-7.6	+2.2
Year	..	..	..	+0.19	+3.0	-0.9	+0.16	-7.4	+1.0

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

Month 1944	Declination West	Inclination	Intensity				
			Horizontal	North	West	Vertical	Total
January	o 1	o 1	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
February	10 11.5	66 44.9	.18557	.18264	.03284	.43190	.47008
March	10 10.9	66 44.7	.18559	.18267	.03281	.43188	.47007
April	10 10.0	66 44.7	.18558	.18267	.03276	.43185	.47003
May	10 9.4	66 44.7	.18560	.18269	.03273	.43188	.47007
June	10 8.8	66 43.8	.18571	.18281	.03272	.43185	.47009
July	10 8.2	66 43.6	.18575	.18285	.03269	.43185	.47010
August	10 7.9	66 43.5	.18576	.18286	.03268	.43184	.47010
September	10 7.1	66 43.8	.18571	.18282	.03264	.43185	.47009
October	10 6.1	66 44.1	.18569	.18281	.03257	.43188	.47011
November	10 5.4	66 44.4	.18564	.18277	.03250	.43195	.47016
December	10 4.9	66 44.0	.18571	.18284	.03251	.43195	.47019
Year	10 3.6	66 45.1	.18560	.18274	.03242	.43204	.47022
	10 7.8	66 44.3	.18566	.18277	.03265	.43189	.47011

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 50.6	9 50.2	9 50.4	9 50.3	9 50.1	9 50.3	9 50.3	9 49.8	9 49.6	9 50.0	9 49.9	9 49.7
2	50.6	50.2	50.4	50.3	50.1	50.4	50.3	49.8	49.7	50.0	49.9	49.7
3	50.5	50.2	50.4	50.3	50.2	50.4	50.2	49.8	49.6	50.0	49.9	49.7
4	9 50.5	50.3	50.5	50.3	50.3	50.4	50.2	49.8	49.6	50.0	49.9	49.7
5	9 50.2	50.3	50.4	50.3	50.4	50.4	50.2	49.7	49.6	49.9	49.9	49.7
6	50.2	50.3	50.5	50.3	50.5	50.4	50.2	49.8	49.6	50.0	49.9	49.7
7	50.3	50.3	50.5	50.3	50.6	50.3	50.2	49.7	49.6	49.9	49.9	49.7
8	50.3	50.3	50.5	50.2	50.5	50.3	50.1	49.7	49.6	49.9	49.9	49.7
9	50.2	50.3	50.4	50.2	50.5	50.3	50.1	49.6	49.7	49.9	49.9	49.7
10	50.2	50.3	50.5	50.2	50.5	50.3	50.1	49.6	49.7	49.9	49.9	49.7
11	50.3	50.3	50.5	50.2	50.5	50.3	50.1	49.6	49.7	49.8	50.0	49.6
12	50.3	50.3	50.5	50.2	50.5	50.3	50.1	49.6	49.8	49.9	49.9	49.6
13	50.3	50.4	50.5	50.2	50.5	50.3	50.1	49.7	49.9	49.9	49.9	49.6
14	50.3	50.3	50.4	50.1	50.5	50.3	50.0	49.7	49.8	49.9	49.9	49.7
15	50.3	50.3	50.5	50.1	50.5	50.3	50.0	49.6	49.9	49.9	50.0	49.6
16	50.3	50.3	50.4	50.1	50.5	50.3	49.9	49.7	49.9	49.8	49.9	49.6
17	50.3	50.3	50.4	50.0	50.5	50.4	49.9	49.6	50.0	49.8	50.0	49.6
18	50.3	50.4	50.4	50.1	50.5	50.4	50.0	49.6	49.9	49.8	49.9	49.6
19	50.3	50.4	50.3	50.1	50.5	50.3	49.9	49.6	49.8	49.8	49.8	49.7
20	50.3	50.4	50.4	50.0	50.4	50.3	49.9	49.6	49.9	49.8	49.8	49.7
21	50.3	50.5	50.3	50.1	50.5	50.4	50.1	49.6	49.9	49.9	49.8	49.7
22	50.3	50.4	50.4	50.1	50.4	50.3	50.0	49.7	49.9	49.8	49.8	49.6
23	50.3	50.4	50.3	50.1	50.5	50.3	50.0	49.6	49.9	49.9	49.8	49.6
24	50.3	50.4	50.3	50.0	50.5	50.4	49.9	49.6	49.9	49.9	49.8	49.6
25	50.3	50.4	50.4	50.0	50.5	50.3	49.9	49.6	50.0	49.9	49.7	49.7
26	50.1	50.4	50.4	50.0	50.4	50.3	49.8	49.6	50.0	49.8	49.8	49.8
27	50.3	50.4	50.4	50.1	50.4	50.3	49.8	49.6	49.9	49.9	49.8	49.7
28	50.2	50.4	50.4	50.0	50.4	50.3	49.8	49.6	49.9	49.9	49.8	49.7
29	50.2	50.5	50.4	50.1	50.3	50.3	49.8	49.6	49.9	49.9	49.8	49.7
30	50.3		50.3	50.1	50.2	50.3	49.8	49.5	49.9	49.9	49.8	49.7
31	50.2		50.3		50.3		49.8	49.6		49.9		49.7

Jan. 4. The Recording-Room Temperature was lowered from 18° C to 11° C.
 May 2. " " " " raised " 11° C " 16° C.
 May 30. " " " " " 18° C " 21° C.
 Oct. 2. " " " " " lowered " 21° C " 16° C.
 Dec. 11. " " " " " 16° C " 11° 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				No. of Obs.	Observed Horizontal Intensity	Deducted Value of Base-line	Universal Time				No. of Obs.	Observed Horizontal Intensity	Deducted Value of Base-line	Universal Time				No. of Obs.	Observed Horizontal Intensity	Deducted Value of Base-line									
	h	m	h	m	Y	Y		h	m	h	m	Y	Y		h	m	h	m	Y	Y									
Jan.	1	9	17	-	9	26	8	18550	18377	Apr.	1	9	20	-	9	29	8	18542	18376	June	21	8	13	-	8	30	8	18550	18372
	3	9	15	-	9	26	8	18554	18378		3	8	13	-	8	22	8	18532	18375		22	8	16	-	8	25	8	18561	18371
	5	9	5	-	9	18	8	18554	18379		4	8	19	-	8	28	8	18544	18376		23	8	10	-	8	22	8	18556	18372
	6	9	13	-	9	23	8	18554	18378		5	8	20	-	8	29	8	18546	18375		24	8	12	-	8	23	8	18546	18372
	7	9	15	-	9	26	8	18562	18379		6	8	23	-	8	34	8	18519	18377		26	8	10	-	8	20	8	18564	18371
	8	9	11	-	9	23	8	18566	18378		7	8	19	-	8	30	8	18529	18376		27	8	12	-	8	27	8	18561	18371
	10	9	10	-	9	20	8	18581	18378		11	8	21	-	8	30	8	18555	18376		28	8	19	-	8	31	8	18562	18372
	12	11	55	-	12	6	8	18532	18378		12	8	17	-	8	27	8	18554	18375		29	8	18	-	8	32	8	18573	18371
	13	9	21	-	9	32	8	18531	18378		13	8	11	-	8	29	8	18563	18374		30	8	8	-	8	21	8	18566	18371
	14	9	13	-	9	25	8	18556	18378		14	8	20	-	8	30	8	18584	18377										
	15	9	11	-	9	21	8	18552	18377		15	9	22	-	9	34	8	18553	18377										
	17	9	9	-	9	18	8	18559	18378		17	8	16	-	8	27	8	18550	18376										
	18	9	15	-	9	24	8	18539	18377		18	8	23	-	8	31	8	18555	18375										
	19	9	18	-	9	29	8	18557	18378		19	8	20	-	8	30	8	18557	18375										
	20	9	10	-	9	20	8	18559	18377		20	8	26	-	8	35	8	18564	18376										
	21	9	14	-	9	24	8	18559	18377		21	8	24	-	8	33	8	18559	18375										
	22	9	10	-	9	23	8	18553	18377		22	8	16	-	8	26	8	18559	18375										
	24	9	16	-	9	26	8	18555	18379		24	8	16	-	8	27	8	18554	18375										
	25	9	5	-	9	18	8	18573	18378		25	8	20	-	8	30	8	18551	18375										
	26	8	53	-	9	5	8	18566	18378		26	8	24	-	8	34	8	18570	18375										
	27	9	14	-	9	24	8	18543	18378		27	8	20	-	8	31	8	18565	18375										
	28	9	9	-	9	21	8	18561	18378		28	8	21	-	8	33	8	18562	18376										
	29	9	8	-	9	20	8	18561	18378		29	8	9	-	8	21	8	18553	18375										
	31	9	15	-	9	25	8	18567	18378																				
Feb.	2	9	16	-	9	27	8	18564	18376	May	1	8	19	-	8	28	8	18551	18375	Aug.	18	7	41	-	7	52	8	18559	18369
	4	9	26	-	9	35	8	18582	18377		3	8	14	-	8	24	8	18550	18373		19	8	36	-	8	46	8	18570	18370
	7	9	19	-	9	28	8	18559	18377		4	8	26	-	8	35	8	18555	18373		20	8	32	-	8	40	8	18555	18370
	9	14	21	-	15	8	8	18521	18377		5	8	17	-	8	26	8	18550	18374		21	7	56	-	8	5	8	18570	18369
	11	9	13	-	9	27	8	18540	18377		6	9	22	-	9	33	8	18545	18374		22	7	49	-	7	59	8	18555	18369
	14	9	11	-	9	23	8	18504	18376		8	7	51	-	8	4	8	18544	18373		24	8	45	-	8	53	8	18558	18369
	16	14	9	-	14	18	8	18552	18378		9	7	46	-	7	57	8	18564	18374		25	7	44	-	7	55	8	18568	18369
	18	15	37	-	15	50	8	18563	18376		10	7	49	-	7	59	8	18561	18374		26	8	45	-	8	54	8	18565	18370
	21	9	12	-	9	23	8	18548	18376		11	8	18	-	8	30	8	18561	18375		27	8	42	-	8	51	8	18575	18369
	23	9	45	-	9	54	8	18568	18377		12	8	48	-	8	57	8	18557	18374		28	7	47	-	7	57	8	18570	18370
	25	9	18	-	9	27	8	18564	18376		13	8	45	-	8	54	8	18558	18374		29	8	19	-	8	28	8	18571	18369
	28	8	39	-	8	54	8	18567	18378		15	8	46	-	8	56	8	18569	18373		31	10	22	-	10	32	8	18564	18370
	29	9	19	-	9	28	8	18557	18378		16	8	47	-	8	57	8	18566	18374										
Mar.	1	9	18	-	9	27	8	18574	18378	June	18	8	54	-	9	6	8	18558	18373	Sept.	1	8	40	-	8	49	8	18563	18369
	2	9	19	-	9	30	8	18568	18378		19	8	46	-	8	55	8	18558	18372		2	7	53	-	8	3	8	18577	18369
	4	9	16	-	9	27	8	18505	18377		20	8	9	-	8	21	8	18555	18373		3	8	38	-	8	50	8	18507	18368
	6	9	21	-	9	32	8	18555	18377		22	8	14	-	8	24	8	18566	18372		4	8	1	-	8	11	8	18550	18368
	7	9	18	-	9	30	8	18556	18376		23	7	29	-	7	41	8	18566	18373		8	7	52	-	8	4	8	18563	18368
	8	9	27	-	9	36	8	18558	18376		24	8	42	-	8	51	8	18554	18373		9	8	39	-	8	48	8	18562	18368
	9	9	17	-	9	28	8	18559	18376		25	10	3	-	10	12	8	18558	18373		10	8	47	-	8	58	8	18569	18367
	10	9	19	-	9	29	8	18519	18377		26	8	9	-	8	22	8	18557	18372		11	8	2	-	8	14	8	18561	18366
	11	10	21	-	10	33	8	18529	18377		31	9	33	-	9	44	8	18560	18372		12	8	52	-	9	0	8	18561	18367
	13	9	15	-	9	28	8	18552	18377		32	8	0	-	8	15	8	18556	18371		14	9	29	-	9	40	8	18563	18367
	14	9	17	-	9	26	8	18554	18377		33	8	9	-	8	21	8	18562	18372		15	9	19	-	9	32	8	18564	18368
	15	10	30	-	10	41	8	18541	18376		34	8	15	-	8	24	8	18558	18372		16	8	40	-	8	51	8	18548	18367
	16	9	24	-	9	33	8	18561	18377		35	8	15	-	8	24	8	18564	18372		17	8	42	-	8	54	8	18551	18367
	17	9	18	-	9	27	8	18562	18377		36	8	51	-	9	0	8	18564	18373		18	8	41	-	8	53	8	18516	18367
	18	9	21	-	9	30	8	18568	18377		37	8	0	-	8	10	8	18569	18372		19	8	42	-	8	54	8	18542	18366
	20	9	21	-	9	31	8	18540																					

MAGNETIC OBSERVATIONS, ABINGER 1944.

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		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line
Sept. 4	8 7 - 8 17	8	18560	18367	Oct. 13	8 52 - 9 2	8	18561	18366	Nov. 20	9 45 - 9 53	8	18567	18366
5	9 19 - 9 32	8	18544	18366	14	9 49 - 9 58	8	18541	18366	21	9 39 - 9 47	8	18567	18368
6	8 14 - 8 24	8	18563	18366	16	9 47 - 9 54	8	18550	18368	22	9 49 - 9 57	8	18565	18368
7	8 44 - 8 52	8	18549	18366	17	9 21 - 9 32	8	18557	18367	23	9 45 - 9 54	8	18567	18367
8	7 56 - 8 7	8	18570	18367	18	9 35 - 9 43	8	18560	18367	24	8 55 - 9 6	8	18578	18367
9	8 7 - 8 17	8	18559	18367	19	9 42 - 9 49	8	18536	18367	25	9 45 - 9 53	8	18578	18368
11	8 13 - 8 22	8	18573	18368	20	8 59 - 9 10	8	18556	18368	27	9 42 - 9 51	8	18564	18367
12	8 39 - 8 49	8	18556	18367	21	9 50 - 9 58	8	18553	18367	28	9 47 - 9 55	8	18565	18368
13	8 52 - 9 17	8	18570	18367	23	9 41 - 9 50	8	18563	18368	29	9 16 - 9 26	8	18581	18368
15	8 1 - 8 11	8	18561	18368	24	9 39 - 9 49	8	18556	18367	30	9 37 - 9 44	8	18580	18367
16	8 59 - 9 7	8	18555	18367	25	9 44 - 9 53	8	18557	17368					
18	9 52 - 10 0	8	18550	18367	26	9 37 - 9 46	8	18543	18368					
19	10 27 - 10 39	8	18562	18367	27	9 41 - 9 49	8	18550	18368					
20	11 10 - 11 22	8	18566	18367	28	9 44 - 9 52	8	18557	18369					
21	11 32 - 11 43	8	18545	18368	30	9 40 - 9 47	8	18560	18368					
22	10 21 - 10 33	8	18560	18367	31	8 44 - 8 53	8	18551	18367					
23	10 18 - 10 29	8	18556	18367										
25	9 43 - 9 51	8	18553	18367										
26	9 11 - 9 40	8	18545	18367										
27	9 38 - 9 46	8	18555	18368										
28	9 29 - 9 37	8	18552	18367										
29	9 14 - 9 23	8	18567	18368										
30	9 50 - 9 58	8	18572	18368										
Oct. 3	8 55 - 9 6	8	18538	18367										
4	9 39 - 9 48	8	18536	18368										
5	9 42 - 9 49	8	18532	18367										
6	9 34 - 9 42	8	18549	18367										
7	9 50 - 10 1	8	18547	18367										
9	9 40 - 9 48	8	18552	18367										
10	8 46 - 8 58	8	18562	18366										
11	9 50 - 9 57	8	18570	18366										
12	9 44 - 9 52	8	18554	18368										

Jan. 4. The Recording-Room Temperature lowered from 16° C to 11° C.
 May 2. " " " raised " 11° C " 16° C.
 May 30. " " " " " 16° C " 21° C.
 Oct. 2. " " " " lowered " 21° C " 16° C.
 Dec. 11. " " " " " 16.0 C " 11.0 C.

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

Universal Time		Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time		Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time		Observed Horizontal Intensity	Deduced Value of Base-line		
May 9	10 11 - 11 19	18556	18373	July 25	8 16 - 9 37	18565	18372	Oct. 3	9 3 - 10 3	18542	18369		
23	8 35 - 9 51	18563	18371	Aug. 2	8 19 - 9 39	18571	18369	10	9 13 - 10 8	18559	18367		
June 8	8 34 - 9 56	18566	18371	29	8 18 - 9 40	18554	18364	17	9 17 - 10 19	18556	18369		
20	8 36 - 9 52	18555	18377	Sept. 5	8 8 - 9 30	18546	18362	24	9 17 - 10 20	18558	18367		
July 11	8 35 - 9 56	18556	18370	12	8 6 - 9 30	18564	18368	Nov. 1	9 17 - 10 17	18562	18371		
18	8 28 - 9 50	18561	18372	26	9 0 - 10 15	18548	18367	7	9 26 - 10 22	18569	18370		

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

Universal Time		No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line	Universal Time		No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line	Universal Time		No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line				
			h m	h m	Y	Y			h m	h m	Y	Y			h m	h m	Y	Y
Jan.	1	9 36 - 9 49	8	43189	43010	Apr.	1	9 52 - 10 0	4	43175	43009	June	21	8 43 - 9 3	8	43164	43010	
	3	9 36 - 9 56	8	43192	<u>43009</u>		3	8 32 - 8 51	8	43192	43007		22	8 40 - 8 59	8	43176	43011	
	5	9 26 - 9 46	8	43188	43008		4	8 35 - 8 58	8	43196	43010		23	8 31 - 8 50	8	43180	43010	
	6	9 32 - 9 51	8	43189	43009		5	8 41 - 8 58	8	43196	43010		24	8 31 - 8 50	8	43193	43011	
	7	9 37 - 9 58	8	43187	43008		6	8 45 - 9 0	8	43192	43011		26	8 31 - 8 49	8	43181	43011	
	8	9 33 - 9 50	8	43186	43008		7	9 37 - 9 51	8	43196	43009		27	8 41 - 9 8	8	43184	43012	
	10	9 29 - 9 47	8	43181	43009		11	8 40 - 9 1	8	43193	43011		28	8 38 - 8 58	8	43189	43011	
	12	9 27 - 9 51	8	43195	43009		12	9 34 - 9 55	8	43191	43010		29	8 41 - 8 56	8	43183	43012	
	13	9 45 - 10 9	8	43193	43007		13	8 37 - 8 55	8	43191	43011		30	8 28 - 8 46	8	43184	43012	
	14	9 39 - 9 57	8	43183	43007		14	8 37 - 8 57	8	43184	43010							
	15	9 28 - 9 51	8	43189	43010		15	8 34 - 8 58	8	43188	43010							
	17	9 32 - 9 48	8	43187	43009		17	8 34 - 8 50	8	43186	43008							
	18	9 30 - 9 49	8	43193	43009		18	8 41 - 9 9	8	43194	43013							
	19	9 40 - 9 57	8	43191	43007		19	8 35 - 8 58	8	43191	43012							
	20	9 34 - 9 47	8	43189	43008		20	8 42 - 9 3	8	43184	43014							
	21	9 33 - 9 54	8	43191	43009		21	8 41 - 9 0	8	43180	43010							
	22	9 32 - 9 54	8	43189	43010		22	8 35 - 8 57	8	43185	43010							
	24	9 35 - 9 55	8	43186	43010		24	8 33 - 8 51	8	43178	43009							
	25	9 30 - 9 54	8	43177	43010		25	8 38 - 9 1	8	43183	43010							
	26	9 15 - 9 39	8	43179	43007		26	8 40 - 8 57	8	43175	43008							
	27	9 34 - 9 53	8	43183	43009		27	8 37 - 8 55	8	43178	43007							
	28	9 31 - 9 50	8	43183	43010		28	8 50 - 9 17	8	43182	43007							
	29	9 27 - 9 45	8	43184	43010		29	8 30 - 8 48	8	43179	43007							
	31	9 43 - 9 59	8	43184	43010	May						July						
Feb.	2	9 41 - 9 56	8	43186	43009		1	8 36 - 8 54	8	43181	<u>43007</u>		1	8 23 - 8 45	8	43182	43011	
	4	9 45 - 9 59	5	43185	43010		3	8 32 - 8 59	8	43186	<u>43008</u>		3	8 43 - 8 58	8	43182	43011	
	7	9 38 - 9 57	8	43177	43009		4	8 51 - 9 25	8	43183	43012		20	8 10 - 8 27	8	43183	43011	
	9	9 33 - 10 11	8	43182	43009		5	8 37 - 9 0	8	43185	43011		21	8 17 - 8 41	8	43181	43012	
	11	9 37 - 9 53	8	43185	43010		6	8 28 - 8 54	8	43188	43011		22	8 10 - 8 26	8	43185	43010	
	14	9 35 - 9 52	8	43173	43012		8	8 21 - 8 43	8	43182	43011		24	8 22 - 8 40	8	43181	43011	
	16	13 44 - 14 4	8	43194	43010		9	8 5 - 8 32	8	43182	43008		25	8 8 - 8 37	8	43188	43011	
	18	15 15 - 15 31	8	43191	43008		10	8 13 - 8 56	8	43184	43008		26	8 17 - 8 39	8	43179	43010	
	21	9 38 - 10 6	8	43182	43005		11	8 38 - 9 1	8	43174	43009		27	8 15 - 8 36	8	43182	43010	
	24	9 32 - 9 52	8	43183	43009		12	8 25 - 8 44	8	43176	43010		28	8 6 - 8 23	8	43189	43011	
	25	9 38 - 9 58	8	43182	43010		13	8 24 - 8 40	8	43179	43010		29	8 36 - 8 56	8	43182	43012	
	28	9 7 - 9 32	8	43183	43009		15	8 23 - 8 40	8	43175	<u>43009</u>		31	8 12 - 8 34	8	43177	43011	
	29	9 35 - 9 59	8	43182	43011		16	8 1 - 8 22	8	43185	43008							
Mar.	1	9 38 - 9 55	8	43180	43010		17	8 19 - 8 39	8	43176	43008							
	2	9 41 - 9 57	8	43178	43009		18	8 38 - 8 50	8	43172	43012							
	4	9 34 - 9 53	8	43176	43009		19	8 23 - 8 42	8	43171	43012							
	6	9 46 - 10 8	8	43174	43010		20	8 28 - 8 47	8	43179	43012							
	7	9 39 - 9 58	8	43179	43009		22	8 37 - 8 56	8	43182	43010							
	8	9 43 - 9 59	8	43182	43009		23	7 49 - 8 10	8	43167	<u>43007</u>							
	9	9 36 - 9 55	8	43180	43011		24	8 17 - 8 35	8	43183	43008							
	10	9 37 - 9 59	8	43185	43010		25	8 39 - 9 4	8	43183	43007							
	11	9 29 - 9 50	8	43177	43010		26	8 31 - 8 48	8	43179	43011							
	13	9 38 - 9 53	8	43179	43010		31	8 39 - 9 0	8	43189	43014							
	14	9 37 - 9 56	8	43182	43012	June	1	8 28 - 8 50	8	43187	43008	Aug.	1	8 17 - 8 35	8	43179	43011	
	15	9 43 - 9 59	8	43179	43010		2	8 25 - 8 43	8	43187	43011		2	8 23 - 8 44	8	43175	43009	
	16	9 43 - 9 59	8	43181	43010		3	8 29 - 8 47	8	43185	43009		3	8 8 - 8 29	8	43151	43010	
	17	9 34 - 9 52	8	43180	43009		5	8 33 - 8 59	8	43179	43011		4	8 20 - 8 43	8	43192	43016	
	18	9 38 - 9 56	8	43172	43009		6	8 18 - 8 44	8	43186	43013		8	8 14 - 8 36	8	43184	43015	
	20	9 37 - 9 55	8	43181	43008		7	8 21 - 8 36	8	43184	43010		9	8 17 - 8 35	8	43184	43014	
	21	9 33 - 9 47	8	43184	43009		8	8 0 - 8 24	8	43180	43009		10	8 21 - 8 41	8	43178	43015	
	22	9 35 - 9 52	8	43178	43010		9	8 26 - 8 43	8	43175	43009		12	8 11 - 8 34	8	43187	43012	
	23	9 42 - 9 58	8	43179	43009		10	8 33 - 8 50	8	43184	43012		17	8 11 - 8 34	8	43187	43013	
	24	9 35 - 9 53	8	43180	43008		12	8 40 - 9 0	8	43177	43011		18	8 8 - 8 33	8	43178	43013	
	25	9 40 - 9 57	7	43176	43011		13	8 36 - 8 59	8	43180	43							

MAGNETIC OBSERVATIONS, ABINGER 1944.

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

Jan. 4. The Recording-Room Temperature lowered from 16° C to 11° C.
 May 2. " " " " raised " 11° C " 16° C.
 May 30. " " " " " " 16° C " 21° C.
 Oct. 2. " " " " lowered " 21° C " 16° C.
 Dec. 11. " " " " " " 16.0 C " 11.0 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
1	43010	-	43012	43013	43014	43019	43003	43008	43013	-	43015	43018
2	-	43013	-	-	-	43018	-	43014	43014	-	43015	43019
3	43011	-	43010	43015	43022	43018	43011	-	-	43013	43015	-
4	-	43010	43014	43014	43016	-	43002	43012	43017	43013	43012	43018
5	43012	-	-	43013	43018	43018	43008	-	43016	43012	-	-
6	43010	-	43013	43014	43017	-	43009	-	43011	43011	43014	43017
7	43010	43010	43012	43013	-	43019	43008	-	43012	43010	-	43018
8	43012	-	43012	-	43017	43018	43008	43011	43017	-	43009	43015
9	-	-	43013	-	43015	43018	-	43014	43009	43011	43016	43014
10	43010	-	43012	-	43015	43018	43007	43017	-	43008	43016	-
11	-	43013	43012	43011	43014	-	43007	43013	43007	43014	43013	-
12	43010	-	-	43010	43013	43018	43013	43014	43010	43015	-	43015
13	43012	-	43014	43012	43014	43021	42993	-	43012	43013	43012	43017
14	43012	43014	43013	43014	-	43016	42996	43010	43012	43011	43016	43016
15	43011	-	43019	43017	43012	43017	43009	43011	43012	-	43018	43019
16	-	-	43014	-	43015	43019	-	43012	43010	43014	43013	43019
17	43010	-	43014	43014	43015	-	43008	43010	-	43016	43015	-
18	43013	-	43014	43015	43017	-	43009	43011	43009	43015	43015	43017
19	43015	43012	-	43014	43019	-	43008	43012	43013	43009	-	43015
20	43013	-	43014	43013	43019	43018	43011	-	43011	-	43013	43016
21	43013	43011	43018	43017	-	43019	43010	43010	43010	43014	43015	43016
22	-	-	43015	43011	43015	43017	43011	-	43011	-	43013	43017
23	-	-	43014	-	43015	43020	-	43014	43009	43012	43013	-
24	43016	43014	43014	43013	43015	43016	43011	43008	-	43017	43016	-
25	43016	43012	-	43015	43019	-	43014	43013	43012	43014	43017	-
26	43014	-	-	43014	43018	43018	43009	43010	43009	43011	-	-
27	43010	-	-	43016	-	-	43012	-	43011	43014	43013	43013
28	43013	43010	43011	43013	-	-	43012	43012	43010	43013	43016	43014
29	43012	43012	43014	43014	-	43011	43007	43014	43010	-	43014	43015
30	-	-	43013	-	-	43011	-	43012	43009	43013	43019	43015
31	43012	-	43013	-	43015	-	43011	43014	-	43014	-	-

Jan. 4. The Recording-Room Temperature was lowered from 16°C to 11°C .
 May 2. " " " " raised " 11°C " 16°C .
 May 30. " " " " " " 16°C " 21°C .
 Oct. 2. " " " " " " 21°C " 16°C .
 Dec. 11. " " " " " " 16°C " 11°C .

On June 29 the bearings of the inductor were tightened.

Following a complete overhaul of the inductor formerly in use at Greenwich, this instrument was employed (by way of a test) during the periods June 30 - August 1 and August 3 - September 14. On August 30 the axis of this instrument was adjusted and on September 6 the bearings were tightened.

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

Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip	Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip
	° ′	C.G.S.Unit	C.G.S.Unit	° ′		° ′	C.G.S.Unit	C.G.S.Unit	° ′
1818	24 19 †	..	..	..	1882	18 22.3	0.1806	0.4375	67 34.2
1819	24 21	..	..	..	1883	18 15.0	0.1812	0.4381	67 31.7
1820	24 21	..	..	..	1884	18 7.6	0.1814	0.4379	67 29.7
1841	23 16.2	..	..	..	1885	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.5	..	..	..	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					
1870	19 53.0	0.1784	0.4392	67 52.5	1914	15 6.3	0.1853	0.4333	66 50.8
1871	19 41.9	0.1786	0.4389	67 50.3	1915	14 56.5	0.1851	0.4331	66 51.6
1872	19 36.8	0.1789	0.4383	67 47.8	1916	14 46.9	0.1848	0.4326	66 52.2
1873	19 33.4	0.1793	0.4386	67 45.8	1917	14 37.1	0.1848	0.4330*	66 53.0
1874	19 28.9	0.1797	0.4387	67 43.6	1918	14 27.8	0.1846	0.4325	66 52.8
1875	19 21.2	0.1797	0.4383	67 42.4	1919	14 18.2	0.1845	0.4324	66 53.3
1876	19 8.3	0.1799	0.4383	67 41.0	1920	14 8.6	0.1845	0.4325	66 53.6
1877	18 57.2	0.1800	0.4381	67 39.7	1921	13 57.6	0.1845	0.4322	66 53.0
1878	18 49.3	0.1802	0.4382	67 38.2	1922	13 46.7	0.1844	0.4318	66 52.3
1879	18 40.5	0.1805	0.4382	67 37.0	1923	13 35.1	0.1843	0.4314	66 51.9
1880	18 32.6	0.1805	0.4380	67 35.7	1924	13 22.6	0.1843	0.4311	66 51.6
1881	18 27.1	0.1807	0.4379	67 34.7	1925	13 9.9	0.1841	0.4308	66 51.4

In 1818, 1819 and 1820 numerous observations of Declination were made with a Dollond 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 a 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 1925-1944

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

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.

* Discontinuities of -1.7° in H and -3.9° in Z were introduced in 1938. See Introduction p. x and xi.

January. There was a short-lived disturbance on 1^d, beginning at 12^h with fluctuations in D, nearly regular in period (about one hour) and amplitude (3'). These were accompanied by a steady rise in Z (50γ) until 16h and by a sharp fall in H (90γ) at 14h. The disturbance ended with a wave in D (15' E) at 20^h. During the next three days conditions were practically quiet, though a few small isolated bays appeared on the traces. At 5^d 0^h-1^h a prominent wave occurred in H (+100γ). Smaller movements were recorded in D and Z, of no special significance, and these were followed by a period of slight general unsteadiness which lasted until 10^d 18^h. At 10^d 20^h a period of moderate disturbance began, continuing with scarcely any intermission until 19^d 0^h. There were several large movements during the earlier stages, but the greatest activity was shown on 14th and 15th after which a general decline took place. Some of the principal movements will be mentioned. In H, a wave at 10d 23h (+100γ); at 14d 17 $\frac{1}{2}$ h, a wave (-130γ); between 15d 15h and 16d 0h several movements approaching 100γ; in D, a wave at 10d 23h (28' E); at 11d 17h-19h a wave (30' E); at 14d 17 $\frac{1}{2}$ h a wave (26' E); between 15d 17h and 16d 2h many irregular fluctuations covering a range of 25'; at 16d 17h a wave (15' E). The disturbance in Z was relatively much smaller than in the other two elements. After 19d 0h the traces were still frequently disturbed by irregularities, but they were of an unimportant character. From 24^d 18^h to 25^d 20^h conditions were quiet. Unsteadiness then set in. There was a decrease in H (85γ) between 26^d 14 $\frac{1}{2}$ h and 20 $\frac{1}{2}$ h, followed by markedly irregular fluctuation. Declination moved 22' E between 26^d 19h and 22 $\frac{1}{2}$ h, but had recovered by 27^d 4h. From 28^d 0h unsteadiness rapidly died away. Minor irregularities continued to affect the traces at intervals, however, especially during 31^d.

The range in declination during the month was from 9° 40'.4 on 11th to 10° 21'.9 on 1st; in horizontal intensity, from .18448 on 14th to .18636 on 10th; in vertical intensity, from .43160 on 13th to .43230 on 1st.

February. During the first four days only a few irregularities, and these of small amplitude, appeared on the traces. A short period of unsteadiness occurred from 5^d 17^h to 6^d 2^h but the first period of pronounced activity did not begin until 7^d 8^h. It lasted (with an intermission of about eighteen hours on 13th) until the end of 15th. In the early stages, and again between 13^d 22^h and 14^d 12^h, the disturbance reached the dimensions of a small storm. On 7^d there were numerous movements approaching 100γ in H and a range of 36' in D; there was also a fluctuating decrease in Z between 7^d 20h and 8^d 1h (65γ). A prominent wave in H (+100γ) appeared at 8^d 21 $\frac{1}{2}$ h, after which the movements became much smaller though still very numerous. Moderate activity prevailed until 12d 6h and then almost ceased, the period from 12d 22h to 13d 16h being practically quiet. From 13^d 20^h disturbance rapidly increased, and by 22^h the larger movements in H were again of the order of 100γ. The most prominent of these was at 14d 3 $\frac{1}{2}$ h to 5 $\frac{1}{2}$ h (+120γ). It was followed by a temporary westerly movement in D (20') and accompanied by an irregular decrease in Z (40γ). By 14d 11^h, however, the main disturbance was virtually over and the succeeding movements were on a smaller scale, the largest of them being a wave in D (14' E) at 15d 18h. From 16d 10h to 20d 10h conditions were nearly quiet. A short period of moderate activity extended from 20d 10h to 21d 2h, of which the chief feature was the oscillatory character of the movements in H during the earlier hours. A period of rather unsteady conditions followed, from 21d 19h to 22d 6h, after which, for the remainder of the month, the traces were disturbed only by occasional short spells of slight unsteadiness.

The range in declination during the month was from 9° 50'.5 on 7th to 10° 29'.6 on 14th; in horizontal intensity, from .18457 on 7th to .18649 on 8th; in vertical intensity, from .43127 on 14th to .43236 on 7th.

March. There was a small wave in each trace at 2d 20^h, (11' E in D; +70γ in H), but apart from these the first significant movement occurred at 4^d 8 $\frac{1}{2}$ h when a rapid decrease in H (100γ) was followed by considerable unsteadiness in all elements, which gradually increased until at 6^d 18^h the movements were sufficiently large to constitute a state of mild disturbance. This degree of disturbance persisted until the end of 12^d with only slight intermission. The largest movements averaged 15' in D, and scarcely any movements in H exceeded 100γ but smaller movements were very numerous. The daily range in Z was about 30γ greater than on undisturbed days. After 13d 3h there was a marked decline in activity and the period from 16d 20h to 18d 17h was quiet. A spell of brisk activity between 18d 17 $\frac{1}{2}$ h and 19d 6h, in which a range of 100γ in H, 85γ in Z and 25'

in D occurred, was followed by a further period of considerable unsteadiness, but by 20^d 2^h relatively quiet conditions were restored. There were still isolated movements recorded on the traces, however, and the only truly quiet period was from 24^d 0^h to 25^d 10^h. Renewed activity then set in, increasing rapidly after 25^d 18^h. Between 26^d 12^h and 14^h there was a wave in H (+110γ) upon which many sharp oscillations were superposed, the last two being notable for an amplitude of 70γ within three minutes of time in each case. These also had counterparts in Z (20γ). After a short quiet interval from 26^d 15^h to 23^h the largest disturbance of the month began abruptly at 26^d 23^h 10^m. The early stages of this disturbance, also, were characterised by rapidly succeeding oscillations, which in the case of Z comprised the whole range of intensity during the disturbance (86γ) and in the case of H included several movements exceeding 100γ. The most conspicuous movements in D were between 27^d 0^h and 1^h (25' W) and between 27^d 3^h and 5^h (20' W). Activity subsided to a marked extent after 27^d 6^h, but continued as a more or less regular fluctuation in the values of the elements until 28^d 0^h. A further quiet period then ensued, lasting for about eighteen hours, followed by renewed activity on a considerable scale (chiefly confined to the hours of darkness) during 29th and 30th. Several movements of 50γ in H and 10' in D appear on the traces for these two days, but activity had practically ceased by 31st.

The range in declination during the month was from 9° 51'.7 on 19th to 10° 26'.9 on 27th; in horizontal intensity, from .18452 to .18665, both on 27th; in vertical intensity, from .43111 on 27th to .43230 on 7th.

April. A disturbance began at 1^d 18^h which at first showed no remarkable features. A rather rapid easterly movement in D (15') ceased at 1^d 20^h and was followed by a wave in H (+90γ) at 1^d 23^h. At 2^d 6^h a notable decrease in H began, which, in two stages, amounted to 330γ. The first stage ended at 7^h 50^m; the second, beginning at 9^h 10^m ended at 10^h 2^m. The whole decrease was then recovered by 12^h 30^m in one fluctuating rise. Declination experienced a wave (25' W) between 6^h and 9^h and a further temporary shift west (25') from 9^h to 10^h; but Z was scarcely affected during these large changes in the other elements. The subsequent course of the disturbance was uninteresting. There were numerous small irregular fluctuations but these virtually ceased by 3^d 8^h. There was renewed and pronounced unsteadiness, however, from 3^d 18^h which continued with little intermission and with occasional brisk, if short-lived, activity until 12^d 8^h. The most active periods were: 5^d 15^h to 6^d 3^h (a wave in D, 16' E, at 18^h); 7^d 18^h to 8^d 3^h (a wave in H, +110γ, and in D, 16' W, at 20^h); 9^d 20^h to 10^d 6^h; 11^d 17^h to 12^d 3^h. The period from 12^d 12^h to 15^d 12^h was practically quiet. Activity was then apparent and was occasionally brisk, until 17^d 3^h. The most conspicuous movement, a wave in D (23' E), occurred at 16^d 17^h. After 17^d 3^h there was a spell of almost quiet conditions lasting until 24^d 1^h. At 24^d 1^h 14^m a small abrupt movement occurred in all traces. The sequel, however, was no more than general unsteadiness, which persisted for the remainder of the month but did not rise to the dimensions of a "disturbance" at any time.

The range in declination during the month was from 9° 51'.3 on 16th to 10° 32'.8 on 2nd; in horizontal intensity, from .18259 on 2nd to .18638 on 1st; in vertical intensity, from .43136 on 2nd to .43256 on 16th.

May. From 1^d 12^h to 24^h there was a brisk disturbance, with a range of 135γ in H, 100γ in Z and 25' in D. Activity on a smaller scale was sustained during the next six days, though the period from 3^d 18^h to 4^d 10^h was practically quiet. After 8^d 6^h movements were few and of no significance until 22^d 12^h, (that is during an interval of quiet by far the longest since the year began). Slight unsteadiness then appeared and gradually increased. It was considerable on 28^d, and from 29^d 0^h 2^m to 0^h 55^m exhibited the phenomenon of "pulsation". There were at least 32 quite regular oscillations recorded in H and D and on the open time-scale traces these were well shown as 'sine curves' having a total amplitude of 5γ at maximum. Pulsations were again recorded between 29^d 23^h 20^m and 23^h 55^m, but of a less regular character and rather smaller amplitude. Activity was also considerable on 29th and 30th, diminishing to a negligible amount on 31st.

The range in declination during the month was from 9° 51'.2 on 4th to 10° 24'.4 on 1st; in horizontal intensity, from .18492 on 1st to .18642 on 29th; in vertical intensity, from .43150 on 30th to .43266 on 1st.

June. During the first eight days conditions were quiet, in general, but there was usually a short spell of unsteadiness each day, the most frequent period being between 14^h and 20^h. After 8^d 10^h unsteadiness was nearly continuous until 12^d 6^h. A period of quiet followed lasting until 13^d 10^h. Unsteadiness was then resumed and gradually increased, reaching a climax of mild disturbance between 14^d 21^h and 16^d 3^h. The largest movements, however, seldom reached 50γ and the state of continuous unsteadiness, varying in magnitude, persisted practically through the remainder of the month. Features worthy of mention occurred at 22^d 16^h (a wave in H, -100γ); from 26^d 10^h to 27^d 4^h (many movements, approaching 50γ in H and 10' in D); and at 29^d 5^h (a broad wave in D, 10' W).

The range in declination during the month was from 9° 59'.2 on 20th to 10° 22'.1 on 26th; in horizontal intensity, from .18516 on 23rd to .18635 on 4th; in vertical intensity, from .43152 on 20th to .43220 on 26th.

July. The general characteristic of the magnetic conditions throughout the month was moderate unsteadiness. There were no periods of marked disturbance, but, on the other hand, no day was strictly quiet during the whole twenty-four hours. The days of greatest unsteadiness were 7th, 9th, 10th and 14th to 19th. The quietest day was 24th. The largest single movement in H did not exceed 50γ, while very few movements in D exceeded 5'. It was the most featureless month for several years past.

The range in declination during the month was from 9° 59'.7 on 7th to 10° 18'.4 on 10th; in horizontal intensity, from .18524 on 9th to .18626 on 10th; in vertical intensity, from .43147 on 29th to .43205, which was reached on three days, 9th, 16th and 22nd.

August. During the first two days numerous small irregular movements were recorded on the traces. The movements increased rapidly in amplitude after 2^d 12^h and by 2^d 21^h a brisk disturbance of moderate intensity was in progress. There was a decrease in Z of about 100γ in three stages spaced roughly two hours apart, accompanied by several prominent oscillations in D and irregularities in H, between 2^d 21^h and 3^d 4 $\frac{1}{2}$ ^h, the largest movement in D occurring around 3^d 2^h (21' W). Z then gradually recovered while H decreased 130γ between 3^d 3 $\frac{1}{2}$ ^h and 7 $\frac{1}{2}$ ^h. All traces continued to show irregular fluctuations, greatly diminished in amplitude, which did not finally cease until 4^d 3^h. The unsteadiness was resumed at 4^d 9^h and continued with little intermission until 18^d 6^h but very few movements exceeded 50γ in H or 10' in D. At 18^d 7^h to 8 $\frac{1}{2}$ ^h there was a rapid decrease in H (90γ), which however was not followed by any significant change in the general conditions, and was partially regained during the next hour. A nearly quiet period supervened from 21^d 0^h to 22^d 21^h. This was followed, at 23^d 1^h, by a prominent movement in all traces, that in D (10' W) being the greatest. Persistent unsteadiness continued to be the most marked feature of the traces, however, until 28^d 6^h. A short-lived disturbance lasted from 28^d 6^h to 23^h, in which the chief movement was a wave in D (15' W). A series of nearly regular oscillations in H, with amplitudes averaging 30γ succeeded the movement in D, but by 15^h the regularity had disappeared and the amplitudes had considerably diminished. Unsteadiness continued in a marked degree for the remainder of the month.

The range in declination during the month was from 9° 51'.0 on 3rd to 10° 20'.9 on 24th; in horizontal intensity, from .18478 to .18643 both on 3rd; in vertical intensity, from .43079 on 3rd to .43211 on 31st.

September. From 1^d 23^h to 3^d 2^h a state of slight general disturbance existed, though the largest movement - which was in H - did not exceed 100γ. Unsteadiness continued until about 7^d 10^h and then a nearly quiet period followed lasting twenty-four hours. General irregularity was resumed, after this short spell, with occasional prominent waves (chiefly in H) none of which, however, exceeded 40γ. The period from 15^d 6^h to 17^d 12^h was almost quiet, and after further unsteadiness another nearly quiet period was shown, extending from 18^d 6^h to 20^d 12^h. During the remainder of the month there were several active spells, mostly of short duration. The principal examples were:- 20^d 22 $\frac{1}{2}$ ^h to 21^d 4^h (range in D, 20'); 22^d 19^h to 23^d 4^h (range in D, 13'; range in H, 80γ); 23^d 18^h to 24^d 4^h (range in D, 16'; range in H, 85γ and in Z, 45γ); and 30^d 13^h to 24^h. The last was

the most considerable, and reached the dimensions of a small storm. It comprised waves in H at 15^{h} (+90γ), at 20^{h} (-120γ) and $23\frac{1}{2}^{\text{h}}$ (-90γ); in D, at $15\frac{1}{2}^{\text{h}}$ (20' E), at $19\frac{1}{2}^{\text{h}}$ (25' E); and a total range of 70γ in Z.

The range in declination during the month was from $9^{\circ} 42'.0$ to $10^{\circ} 18'.6$, both on 30th; in horizontal intensity, from .18484 to .18648 both on 30th; in vertical intensity, from .43159 on 24th to .43243 on 30th.

October. The prevailing magnetic condition during the month was similar to that in September, namely a general tendency to continual unsteadiness with few intervals of complete quiet. There was slight activity on 1^d, between 11^h and 24^h, chiefly in D, but no movement exceeded 10'. Marked irregularity persisted from 2^d 19^h to 4^d 1^h, the largest movement being one of -60γ in H at 3^d 20^h-21^h. A further period of slight disturbance was shown from 6^d 16^h to 7^d 3^h, with a range of 18' in D and 65γ in H. From 8^d 0^h to 10^d 18^h conditions were almost quiet. Activity was then resumed on an increasing scale. A wave in D (17' W) at 11^d 3^h was preceded by a fluctuating decrease in Z (60γ). The latter, however, was quickly restored and was normal by 11^d 6^h. On 11^d there was a decrease in H (100γ) between 15^h 40^m and 16^h 40^m together with an abnormal diurnal range in D (28'). Considerable unsteadiness on 12th and 13th led up to the largest disturbance of the month on 14th. This lasted from 14^d 15^h to 16^d 0^h, but the main portion was over by 15^d 6^h. At the culmination, which occurred at about 15^d 0^h, there were two steep waves in H (-100γ) and movements in D up to 20' E, while the value of Z decreased by 90γ and did not recover for six hours. The final movement was an isolated wave in H (+125γ) at 15^d 22^h which was accompanied by a sharp decrease in Z (50γ). Periods of unsteadiness continued until 19^d 0^h. Then a quiet period ensued, lasting from 19^d 3^h to 20^d 18^h. Slight unsteadiness was followed at 23^d 15^h, by a rapid increase in activity, which included oscillatory changes in H - the largest being a wave at 23^d 22^h (+80γ) - several prominent waves in D - the largest (also at 23^d 22^h) (18' E) - and a temporary decrease in Z (40γ). The normal condition was restored by 24^d 4^h, and, with the exception of a period of slight disturbance from 25^d 19^h to 26^d 3^h, continued until the end of the month. There was, however, a nearly quiet interval from 30^d 4^h to 31^d 2^h.

The range in declination during the month was from $9^{\circ} 37'.2$ on 14th to $10^{\circ} 22'.1$ on 11th; in horizontal intensity, from .18476 on 14th to .18651 on 15th; in vertical intensity, from .43125 on 15th to .43236 on 23rd.

November. Apart from a few minor irregularities, conditions were quiet until 3^d 12^h. Unsteadiness then became general and gradually increased. During 5th there was a period of brisk disturbance lasting from 14^h to 24^h. The most active part of this disturbance extended from 17^h to 23^h during which interval there were five waves in D approaching 10' in amplitude and a range of 100γ in H. There was also a marked decrease in Z (50γ) between 5^d 21^h and 22^h. From 6^d 0^h to 10^d 10^h moderate unsteadiness was general, and increased to the dimensions of slight disturbance between 10^d 10^h and 10^d 20^h, there being a wave in D (13' E) at 17^h, accompanied by a wave in H (-60γ). A quiet period ensued, lasting, with negligible interruptions, until 18^d 0^h. Unsteadiness then returned and was the prevailing condition until 20^d 12^h, when a short disturbance began, which lasted about twelve hours. The most prominent movement was a wave in D (15' E) at 20^d 16^h. From 21^d 6^h until 29^d 0^h conditions were practically quiet, with a short intermission at 26^d 0^h to 3^h. General unsteadiness was resumed on 30th.

The range in declination during the month was from $9^{\circ} 50'.1$ on 5th to $10^{\circ} 14'.5$ on 20th; in horizontal intensity, from .18496 on 20th to .18621 on 5th; in vertical intensity, from .43172 on 2nd to .43238 on 20th.

December. Small irregularities on 1^d were succeeded on 2^d by a short disturbance of mild intensity, beginning at 16^h and ending at 23^h. The chief movement was a temporary easterly movement in D (17'). There were also several oscillations in H, the largest being a wave at 20^h (+80γ). The next ten days were nearly quiet, though a brief period of unsteadiness was shown from 5^d 22^h to 6^d 3^h, and irregularity occurred also on 9th and 10th. On 13^d signs of an approaching disturbance appeared on the traces at 8^h. The disturbance, however, did not develop until 13^d 15^h and then

NOTES ON MAGNETIC ACTIVITY

was only of slight intensity, consisting of a series of irregular oscillations, the largest of which did not exceed 70γ in H and 8' in D. Quiet conditions were temporarily restored by 14^d 10^h and lasted until 15^d 18^h. At 15^d 18^h 52^m there was an abrupt increase of 30γ in H which was the initial movement of what proved to be the largest disturbance registered at the station since 1942 March 1. The first movement in D occurred at 22^{1/4}h. It was accompanied by a second movement in H and then at intervals of roughly one and one half hours a sequence of single sharp oscillations followed in each trace, ending at 16^d 5^{1/2}h. Between 16^d 6^h 40^m and 8^h 0^m movements were crowded closely, there being an oscillation every two or three minutes though none exceeded about 30γ in amplitude. Following this stage there was a lull until 16^d 10^{1/2}h. The main storm then developed rapidly to its climax which was reached between 15^h and 17^h. The disturbance collapsed quite suddenly at about 19^h, but revived after an interval of eighteen hours though in a much less intense degree. The extreme ranges in the elements were: in D, 69'; in H, 265γ; in Z, 410γ. From 17^d 13^{1/2}h to 18^d 2^h disturbance was still considerable and large irregular movements were continuous. Notable instances in D were shown at 17^d 15^h, (a wave, 25'E) and at 17^d 17^{1/2}h (a wave, 27'E). Accompanying changes in H reached 100γ in each case; while the outstanding movement in this element (a wave, +130γ) occurred at 17^d 23^h. Smaller related changes in Z were apparent also, the largest (+45γ) taking place at 17^d 15^h. The traces continued to exhibit great unsteadiness until 19^d 0^h. Conditions then became nearly quiet until 26^d 10^h, although a few short spells of unsteadiness occurred, notably from 20^d 22^h to 21^d 6^h and from 22^d 19^h to 23^d 1^h. At 26^d 10^{1/2}h traces began to show irregularity, and this increased after 21^h, from which time until 27^d 4^h movements though small, were very numerous. At 27^d 12^h a period of considerable activity began, which lasted until 28^d 3^h. The characteristic was a long series of oscillations at more or less regular intervals in all traces, there being a temporary easterly shift in declination of about 15'. Between 27^d 16^{1/2}h and 28^d 1^h Z decreased 120γ, after a previous rise of 80γ, which coincided with a rapid change in declination (25'E) between 15^{1/2}h and 16^{1/2}h. The disturbance ended with a brief temporary increase in H (80γ) near 28^d 0^h and a rapid return to normal declination shortly afterwards. During the remainder of the month spells of unsteadiness occurred at irregular intervals but the only movements calling for comment were in declination, namely a rapid westerly movement of 15' between 30^d 2^h and 3^{1/4}h and a prominent wave (12'E) at 30^d 22^h.

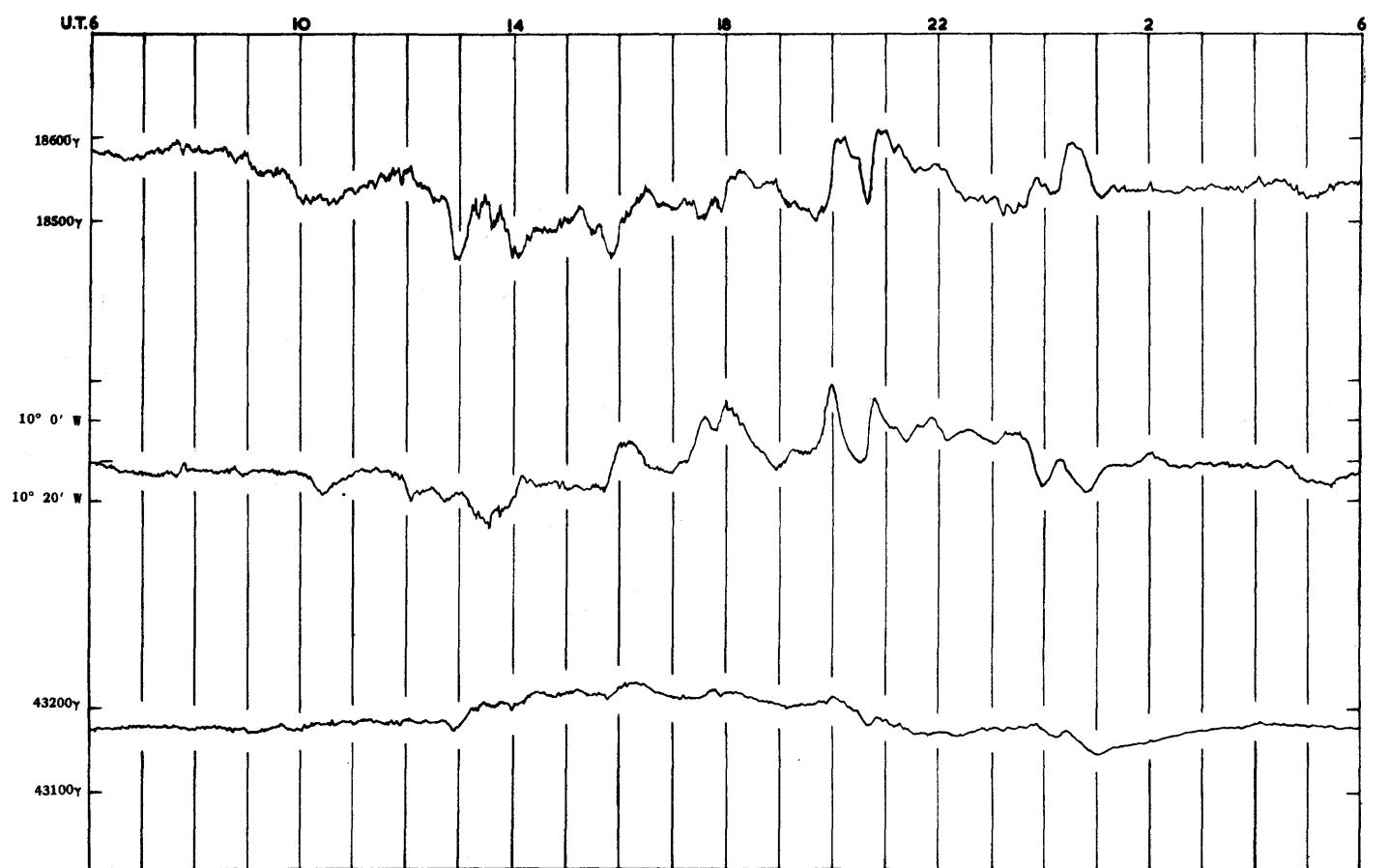
The range in declination during the month was from 9° 27'.9 to 10° 36'.6, both on 16th; in horizontal intensity, from .18359 to .18625 both also on 16th; in vertical intensity, from .43164 on 14th to .43586 on 16th.

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

Declination, 10° 36'.6 W on December 16th; 9° 27'.9 W on December 16th.
Horizontal Intensity, .18665 on March 27th; .18259 on April 2nd.
Vertical Intensity, .43586 on December 16th; .43079 on August 3rd.

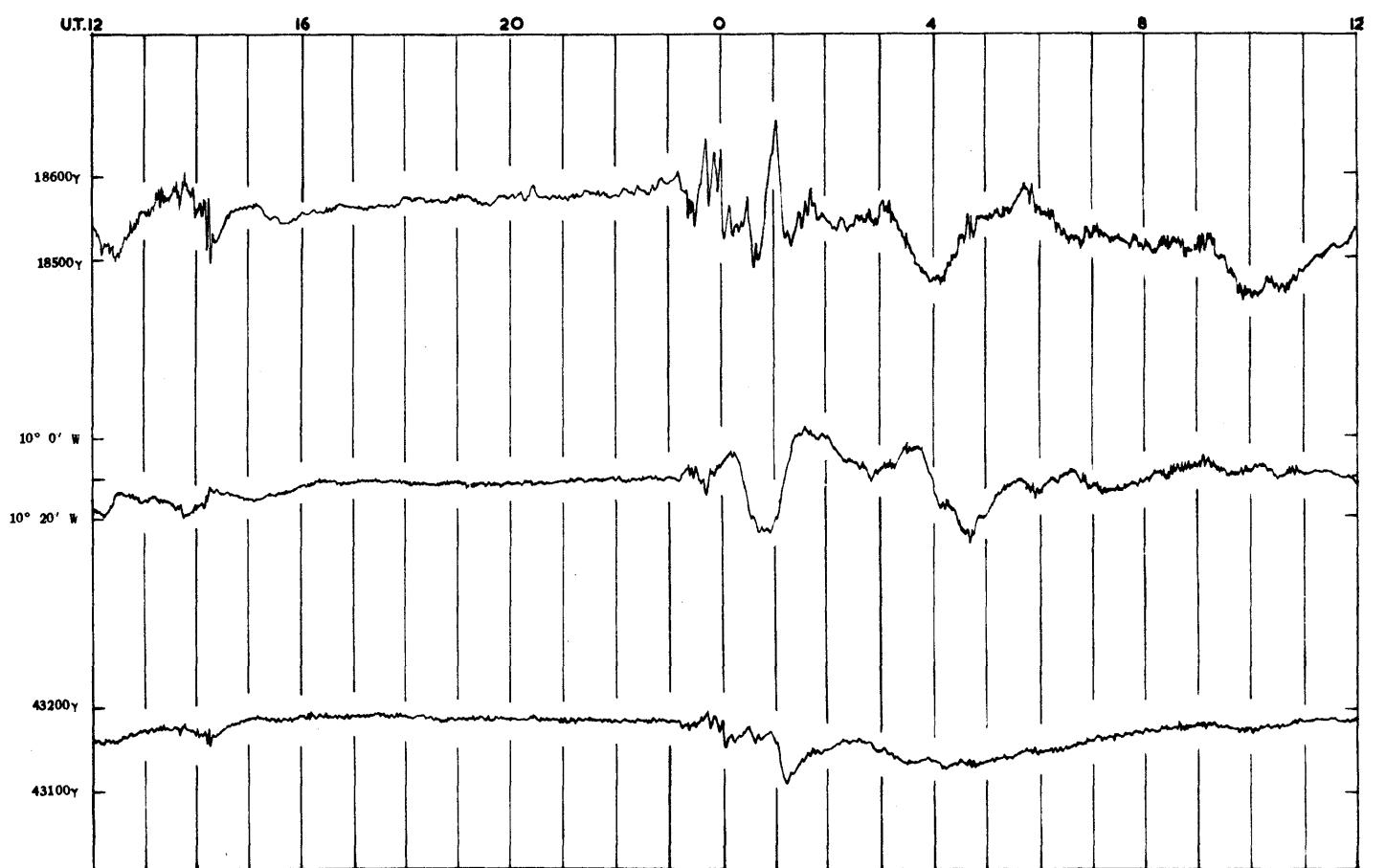
1944 FEB 7-8

Plate I



1944 MARCH 26 - 27

Plate II



SCALES FOR THE MAGNETIC ELEMENTS



Plate III

1944 APRIL 1 - 2

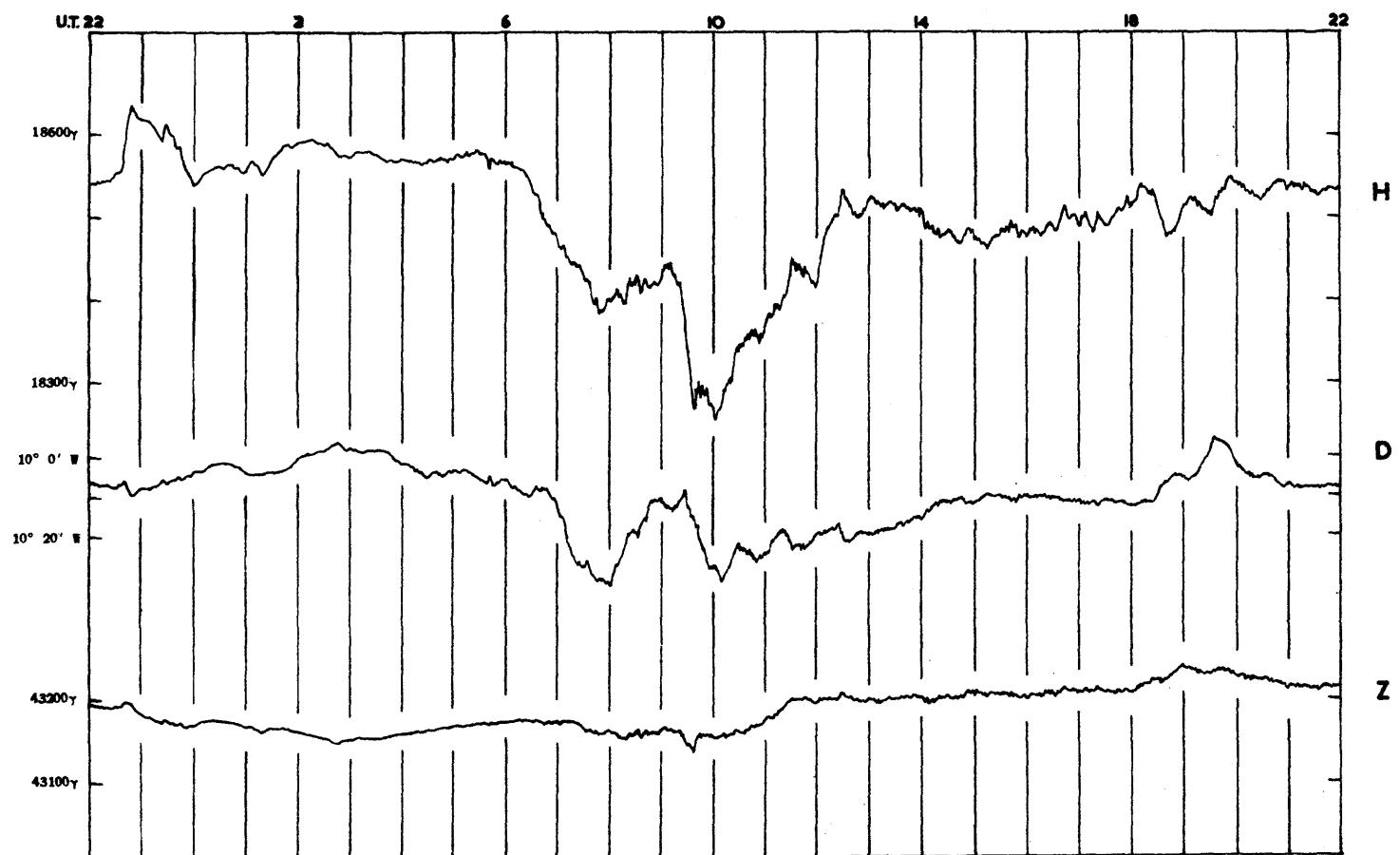
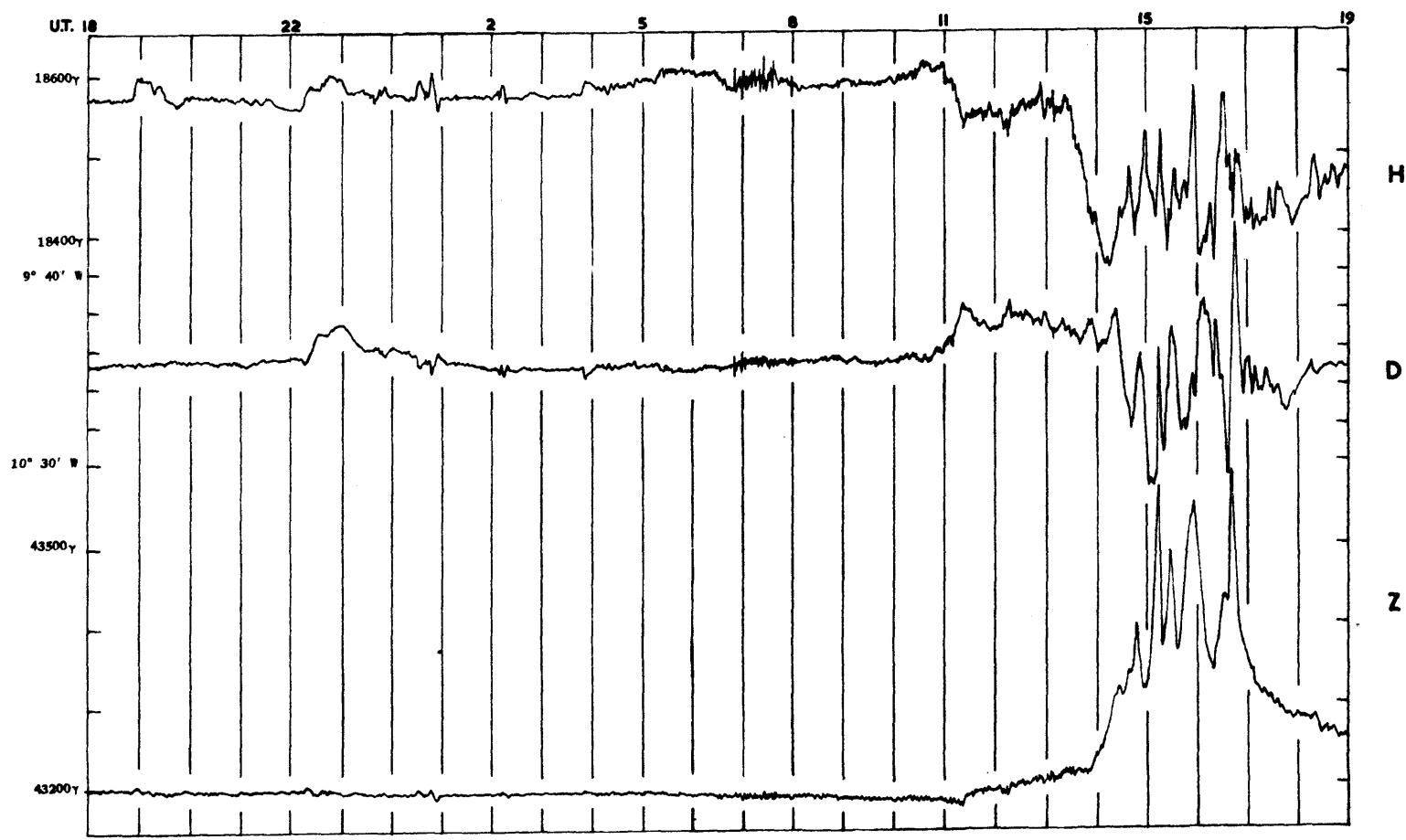


Plate IV

1944 DEC 15 - 16



SCALE FOR THE MAGNETIC ELEMENTS



ROYAL OBSERVATORY, GREENWICH.

**Results of
Meteorological Observations**

1944

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected to 32° and Reduced to Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity = $\frac{E}{E_0}$ (Saturation = 100)	TEMPERATURE			Rain Collected in Gauge No. 6, Whose Receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon
		Of the Air				Or Evapo- ration	Or the Dew Point	Mean					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil				
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours
Jan. 1	30.038	49.4	42.6	6.8	46.1	+ 7.5	43.5	40.2	5.9	10.0	1.8	80	62.3	37.0	45.3	0.000	0.3	7.9
2	30.010	49.5	44.0	5.5	47.1	+ 8.7	43.5	38.9	8.2	12.6	5.0	73	56.2	35.1	45.2	0.000	0.0	7.9
3	29.838	50.8	42.2	8.6	48.2	+ 9.9	45.5	42.3	5.9	7.4	3.2	80	56.0	36.0	45.2	0.050	0.0	7.9
4	30.083	42.8	33.1	9.7	38.9	+ 0.6	35.4	29.5	9.4	14.1	2.1	68	56.2	25.5	45.1	0.000	4.5	8.0
5	30.384	42.2	28.4	13.8	35.2	- 3.0	32.9	28.9	6.3	11.2	0.0	77	51.0	20.8	45.1	0.000	2.1	8.0
6	30.189	47.4	42.0	5.4	45.2	+ 7.1	41.0	34.9	10.3	11.7	6.3	67	53.6	38.0	45.1	0.000	0.0	8.0
7	30.059	48.6	41.9	6.7	44.6	+ 6.6	41.8	37.9	6.7	10.3	2.8	77	62.8	36.4	45.0	0.000	1.4	8.0
8	29.780	48.1	41.3	6.8	45.7	+ 7.8	43.2	40.0	5.7	7.9	1.6	80	58.5	35.1	45.0	0.000	0.1	8.1
9	29.601	51.6	48.1	3.5	49.9	+12.0	47.9	45.7	4.2	7.0	2.5	86	54.6	45.5	45.1	0.060	0.0	8.1
10	29.767	51.6	28.2	23.4	39.8	+ 1.9	37.7	34.5	5.3	11.1	2.6	81	45.4	24.7	45.0	0.207	0.0	8.1
11	29.942	45.0	26.2	18.8	35.0	- 2.9	34.2	32.8	2.2	6.3	0.0	92	45.0	22.7	45.0	0.230	0.0	8.2
12	29.918	51.2	44.6	6.6	47.6	+ 9.7	46.5	45.2	2.4	3.9	0.6	91	53.5	42.0	45.1	0.000	0.0	8.2
13	29.863	52.9	46.6	6.3	51.6	+13.6	49.7	47.8	3.8	5.5	2.8	87	55.0	42.0	45.1	0.000	0.0	8.2
14	30.314	48.6	33.4	15.2	41.6	+ 3.6	39.2	35.6	6.0	12.8	1.1	79	57.6	27.9	45.1	0.000	6.5	8.3
15	30.487	37.5	27.7	9.8	32.1	- 6.0	32.1	32.1	0.0	1.9	0.0	100	43.7	24.6	45.1	0.000	2.0	8.3
16	30.449	45.5	29.0	16.5	33.3	- 5.0	32.6	31.4	1.9	6.1	0.0	93	65.0	28.1	45.0	0.003*	2.9	8.3
17	30.359	47.8	31.4	16.4	40.6	+ 2.1	39.7	38.5	2.1	3.6	0.7	92	56.1	30.5	45.0	0.000	0.0	8.4
18	30.159	48.5	47.0	1.5	47.7	+ 9.1	46.8	45.8	1.9	3.0	1.2	93	54.4	41.5	45.0	0.118	0.0	8.4
19	30.031	49.1	42.4	6.7	47.3	+ 8.6	46.4	45.3	2.0	4.2	0.6	93	59.7	34.1	45.0	0.240	0.0	8.5
20	30.051	46.4	37.5	8.9	41.3	+ 2.5	39.8	37.8	3.5	9.0	1.5	87	65.4	29.9	45.0	0.000	3.2	8.5
21	30.055	49.6	39.0	10.6	43.6	+ 4.8	40.8	36.9	6.7	10.3	3.2	77	79.2	31.4	45.0	0.000	5.7	8.6
22	29.709	51.0	44.4	6.6	48.7	+ 9.9	46.2	43.4	5.3	8.7	2.0	81	59.0	40.6	45.0	0.010	0.0	8.6
23	29.257	50.0	38.6	11.4	44.7	+ 5.8	41.8	37.8	6.9	13.2	3.0	76	72.1	33.0	45.0	0.327	3.4	8.6
24	29.423	49.1	34.6	14.5	42.6	+ 3.7	40.6	37.7	4.9	8.2	1.9	83	64.3	29.0	45.0	0.058	0.6	8.7
25	29.267	48.0	40.2	7.8	44.6	+ 5.5	40.0	33.0	11.6	14.5	8.1	64	74.9	32.0	45.0	0.009	2.9	8.7
26	29.874	52.6	36.8	15.8	44.0	+ 4.7	41.9	39.2	4.8	12.9	1.8	83	53.0	28.6	45.0	0.092	0.0	8.8
27	30.037	55.6	48.7	6.9	52.3	+12.8	50.0	47.7	4.6	8.7	3.0	84	61.8	40.8	45.1	0.000	0.1	8.9
28	30.229	52.6	47.2	5.4	51.3	+11.7	47.6	43.4	7.9	12.5	4.6	74	59.3	41.0	45.1	0.000	0.0	8.9
29	30.239	50.1	44.6	5.5	47.3	+ 7.6	44.6	41.5	5.8	8.7	3.2	79	55.9	38.3	45.2	0.000	0.0	8.9
30	30.243	54.4	40.5	13.9	47.6	+ 7.9	45.1	42.2	5.4	11.2	2.0	81	84.8	33.5	45.5	0.000	4.4	9.0
31	30.180	45.9	38.9	7.0	42.1	+ 2.4	40.5	38.3	3.8	5.9	1.2	86	77.8	29.6	45.4	0.000	0.9	9.1
Means	29.995	48.8	39.1	9.8	44.1	+ 5.5	41.9	38.9	5.2	8.9	2.3	82.1	59.8	33.4	45.1	Sum 1.404	1.3	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.

* Rainfall (Column 16). The amount entered on January 16 is derived from wet-fog.

The mean reading of the Barometer for the month was 29.995 in., being 0.194 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°.6 on January 27; the lowest in the month was 26°.2 on January 11; and the range was 29°.4.

The mean of all the highest daily readings in the month was 48°.8, being 5°.7 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 4°.9 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 9°.8, being 0°.9 greater than the average for the 65 years, 1841-1905.

The mean for the month was 44°.1, being 5°.5 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER				
	Polaris		δ URSAE MINORIS		OSLER'S			Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Jan. 1	hours	hours	hours	0.33	W:WSW	W:WSW	lbs.	lbs.	miles				
2	5.2	0.38	4.5	0.29	WSW	WSW	2.9	0.26	378	c m m o	c Ast Frst Ci Acu	c Stcu Frst bc	
3	5.1	0.37	4.0	0.29	WSW	WSW	4.0	0.52	440	b c	c Stcu	c Stcu bc	
4	7.7	0.56	7.4	0.54	WSW	WSW:NN	6.0	0.87	502	c	c Nbst Ast Frst ro	r o c Nbst Stcu q	
5	13.7	0.99	13.4	0.98	NW:NNW	N:NNW	11.0	0.55	392	c b q d	b Cicus Frcu y	b Frcu y	
6	6.3	0.46	5.1	0.37	W:WSW	WSW	3.0	0.10	246	b x f	c Aci Cicus b f	b c f m	
7	0.8	0.06	0.5	0.04	SW:WSW	WSW	3.2	0.42	417	c	c Stcu	c Nbst	
8	0.5	0.04	0.4	0.03	WSW	WSW	3.3	0.17	299	c	c Aci Stcu Ast	bc Ci Acu	
9	0.3	0.02	0.0	0.00	SW:WSW	WSW	5.0	0.37	353	c	c Nbst Stcu iro	c Ro c	
10	0.6	0.05	0.3	0.02	WSW	WSW	4.8	0.71	464	c	c Nbst	c Nbst iro d	
11	12.5	0.93	12.1	0.90	WSW	NE	2.7	0.17	273	i r o r r o	i r o c	c b	
12	0.0	0.00	0.0	0.00	Calm:SSE	SSE:Calm	0.5	0.02	129	b x	c Stcu Nbst r	rr o Nbst c	
13	0.0	0.00	0.0	0.00	WSW:SW	WSW:SW	2.0	0.10	262	c m	c Nbst m m o	c do	
14	7.3	0.54	7.3	0.54	SW	SW:NNW	8.7	0.88	439	c ido	c Nbst Stcu	ido c	
15	12.3	0.91	12.2	0.90	NW:SW	WSW:SW	0.3	0.03	167	b m x	b Ci m	b f m	
16	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	63	b m x	Fe Fe	Fe Fe	
17	0.0	0.00	0.0	0.00	Calm	Calm	0.1	0.00	61	Fe Fe x	b Fe b f	fe fe	
18	3.1	0.23	3.0	0.22	SS:SW	SW:SS	1.2	0.08	189	ffe	o St fe fe c	dodo mo	
19	0.0	0.00	0.0	0.00	SW:SSW	SS:SW	1.2	0.15	282	do r do	do Nbst c	d c	
20	11.0	0.83	10.6	0.80	NNW:SW	SW	1.0	0.11	260	c bc c	c Stcu Ast	rr c	
21	..	..	..	..	WSW	WSW:SW	2.8	0.27	221	c	c Stcu b m	b dc Ci Aci Cicu so-ha mo
22	0.0	0.00	0.0	0.00	SW:WSW	SW	13.8	2.72	371	b x m	b Ci m	c b c	
23	9.6	0.74	9.1	0.70	SW:WSW:W	WSW:WNW	14.3	2.47	677	c q	c Nbst Stcu q	c iro c q	
24	10.7	0.82	9.7	0.75	W:WSW:SSW	SSW:SW	14.0	1.37	629	c iro r r c q	c Aci Cicus b Cu Stcu q	b c Nbst q r do	
25	11.5	0.89	11.1	0.86	WSW	W:NW	12.5	2.28	473	b mo	b c Aci Ci Nbst ir	c ro d r q	
26	1.4	0.11	1.0	0.08	W:WSW	SW:WSW	4.7	0.36	640	c b q gale	b Ci Cicus Aci bc q	bc y Aci Stcu c p c q	
27	3.2	0.24	2.4	0.18	WSW	WSW	8.0	1.08	341	b bc m	c Ast Nbst ro r mo	c b c d c	
28	2.9	0.22	2.4	0.18	WSW	WSW	3.6	0.57	476	c	c Nbst	c	
29	4.8	0.38	4.4	0.35	WSW	WSW:SW	3.0	0.27	395	c	c Stcu	c	
30	4.1	0.33	3.8	0.30	WSW	WSW:SW	1.6	0.18	320	b c	c Stcu	c	
31	0.0	0.00	0.0	0.00	SW:WSW	WSW:SW	0.9	0.13	291	b bc w f	b bc f m	bc c	
Means	4.5	0.34	4.2	0.31	..	..	..	0.56	345	b c	c St Stcu mo	c Stcu Frst
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 $41^{\circ}9$, being $4^{\circ}7$ higher than

The mean Temperature of the Dew Point for the month was $38^{\circ}9$, being $3^{\circ}8$ higher than

The mean Degree of Humidity for the month was 82.1 , being 4.7 less than

The mean Elastic Force of Vapour for the month was 0.237 in., being 0.032 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.9.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.158. The maximum daily amount of Sunshine was 6.5 hours on January 14.

The highest reading of the Solar Radiation Thermometer was $84^{\circ}8$ on January 30; and the lowest reading of the Terrestrial Radiation Thermometer was $20^{\circ}8$ on January 5.

The Proportions of Wind referred to the cardinal points were N. 6, E. 2, S. 27, W. 54, calm or nearly calm conditions 11, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 14.3 lbs. on the square foot on January 23. The mean daily Horizontal Movement of the Air for the month was 345 miles; the greatest daily value was 677 miles on January 22, and the least daily value was 61 miles on January 16.

Rain (0.005 in. or over) fell on 11 days in the month, amounting to 1.404 in., as measured by gauge No. 6 partly sunk below the ground; being 0.477 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected to 30° and Reduced to 32° Fahrenheit)	TEMPERATURE								Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Dur- ation of Sun- shine	Sun above Horizon				
		Of the Air				Of Evapo- ration	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the Surface of the Soil	Highest in Sun's Rays	Lowest on the Grass							
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values			Mean	Greatest	Least											
Feb. 1	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours			
2	30.009	52.4	41.4	11.0	47.7	+ 8.1	46.1	44.3	3.4	6.0	1.4	88	62.6	38.0	45.7	0.000	0.0	9.1			
3	29.841	55.6	50.6	5.0	53.3	+13.8	51.0	48.8	4.5	7.5	1.8	84	61.6	45.0	45.7	0.037	0.0	9.2			
4	29.654	52.5	40.4	12.1	49.2	+ 9.7	44.6	38.8	10.4	13.8	4.6	67	77.9	33.0	45.8	0.000	1.1	9.2			
5	29.857	42.0	35.4	6.6	39.4	- 0.1	35.0	27.3	12.1	17.4	6.0	60	80.6	27.9	45.8	0.014	3.6	9.3			
6	30.208	41.4	32.3	9.1	36.4	- 3.2	32.6	25.7	10.7	13.4	6.3	62	80.7	27.1	45.8	0.000	3.7	9.3			
7	30.293	43.7	24.3	19.4	35.8	- 3.8	32.8	27.4	8.4	18.7	2.9	70	64.6	18.1	45.6	0.056	1.2	9.4			
8	29.946	54.0	43.4	10.6	48.6	+ 9.1	45.6	41.9	6.7	11.4	2.9	78	61.0	36.3	45.5	0.002	0.3	9.4			
9	29.925	46.2	38.2	8.0	42.8	+ 3.5	38.4	31.3	11.5	17.9	5.9	64	77.0	31.5	45.3	0.000	4.0	9.5			
10	29.822	47.2	36.3	10.9	41.5	+ 2.4	39.0	35.2	6.3	12.1	2.1	78	80.7	29.6	45.2	0.055	1.4	9.6			
11	29.672	46.0	33.9	12.1	37.7	- 1.2	34.7	29.7	8.0	12.4	2.5	72	67.5	29.1	45.0	0.076	3.7	9.6			
12	29.958	44.5	36.4	8.1	39.6	+ 0.8	37.6	34.5	5.1	8.6	2.3	82	69.3	30.0	45.0	0.019	1.9	9.7			
13	29.980	41.8	34.3	7.5	38.9	+ 0.1	36.7	33.2	5.7	8.3	1.5	79	77.5	28.9	45.0	0.070	0.9	9.7			
14	30.054	39.6	32.4	7.2	36.4	- 2.6	34.3	30.6	5.8	10.3	1.5	79	63.8	27.9	44.8	0.000	0.0	9.8			
15	30.110	43.0	34.4	8.6	38.4	- 0.9	35.3	30.0	8.4	10.3	6.7	71	61.3	30.0	44.6	0.003	0.0	9.9			
16	30.167	46.0	31.7	14.3	37.5	- 1.9	34.7	29.9	7.6	13.2	3.0	73	92.7	28.1	44.6	0.000	5.7	9.9			
17	29.932	41.2	36.0	5.2	39.3	- 0.2	38.1	36.3	3.0	5.4	0.5	89	48.0	33.0	44.4	0.347	0.0	10.0			
18	29.996	40.6	33.0	7.6	36.2	- 3.4	34.5	31.6	4.6	5.9	1.7	83	39.0	31.7	44.2	0.004	0.0	10.0			
19	30.165	36.0	31.8	4.2	33.3	- 6.2	31.5	29.5	4.8	7.0	2.1	81	53.5	29.1	44.1	0.007	0.0	10.1			
20	30.169	35.8	32.5	3.3	34.4	- 5.1	32.2	28.3	6.1	7.5	3.0	77	48.4	29.8	44.1	0.000	0.0	10.2			
21	30.276	39.7	32.9	6.8	35.7	- 3.8	32.7	27.3	8.4	13.6	5.4	70	86.7	30.1	44.0	0.000	2.1	10.2			
22	30.263	40.6	32.8	7.8	36.2	- 3.4	32.8	26.7	9.5	15.4	4.1	66	87.2	27.2	44.0	0.000	0.8	10.3			
23	30.107	39.0	30.8	8.2	33.9	- 5.8	31.5	27.7	6.2	11.3	1.6	76	82.5	25.2	43.6	0.008	0.2	10.4			
24	30.037	38.3	28.8	9.5	33.6	- 6.2	32.2	29.9	3.7	6.8	1.3	85	61.7	22.2	43.5	0.024	0.0	10.5			
25	30.176	40.2	26.6	13.6	33.3	- 6.7	30.3	25.2	8.1	17.0	1.3	69	95.5	20.0	43.4	0.000	8.4	10.5			
26	29.984	41.0	30.7	10.3	36.3	- 3.8	34.1	30.2	6.1	9.7	1.3	78	53.0	23.1	43.2	0.000	0.0	10.6			
27	29.479	40.9	33.8	7.1	37.0	- 3.2	35.8	33.8	3.2	5.2	0.5	89	57.4	30.7	43.0	0.040	0.0	10.7			
28	29.222	37.3	32.0	5.3	35.7	- 4.6	34.4	32.1	3.6	6.3	0.0	87	47.0	28.0	43.1	0.011	0.0	10.7			
29	29.323	41.1	28.7	12.4	33.7	- 6.6	31.4	27.7	6.0	14.0	1.1	77	91.7	23.3	43.0	0.000	5.2	10.8			
Means	29.932	43.0	33.9	9.1	38.5	- 1.1	35.9	31.7	6.8	11.5	2.6	75.8	69.4	28.8	44.5	Sum 0.773	1.8	9.9			
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 29.932 in., being 0.123 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 55°.6 on February 2; the lowest in the month was 24°.3 on February 6; and the range was 31°.3.

The mean of all the highest daily readings in the month was 43°.0, being 1°.9 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 33°.9, being 0°.8 lower than the average for the 65 years, 1841-1905.

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

The mean for the month was 38°.5, being 1°.1 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				Horizontal Movement of the Air	CLOUDS AND WEATHER					
	Polaris		δ URSAE MINORIS		OSLER'S			Robinson's		0 ^h to 6 ^h		6 ^h to 12 ^h		12 ^h to 18 ^h	18 ^h to 24 ^h
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Greatest Mean of 24 Hourly Measures							
					A.M.	P.M.									
Feb. 1	hours	hours	hours	0.00	SW:SSW	SW	lbs.	lbs.	miles	c Ast Frst ido	c Nbst ido	c Ast Frst	c		
2	0.0	0.00	0.0	0.00	WSW	WSW	4.6	0.69	401	c rr ido	c	c lu-ha	c		
3	6.5	0.52	4.7	0.37	WSW	W:NW	6.2	0.96	489	c Nbst Stcu q	c	c b q	c		
4	6.6	0.53	5.8	0.47	WSW	N:NNW	14.0	1.86	579	c Acu Ci iro ps prhn	c	b Frcu c Stcu y	b		
5	10.8	0.87	9.9	0.79	W:NW	N	10.0	1.75	541	b bc Cist so-ha prhn y	b	bc Ci Cist c Stcu y	bc		
6	7.7	0.63	6.2	0.51	NNW		2.5	0.23	257	b m x	b	c b c	c		
7	1.6	0.13	1.0	0.08	Calm	WSW:SW	2.6	0.12	216	c b x f	b f m bc Cist y	c Ast	do rrc		
8	4.0	0.33	3.9	0.32	SW:WSW	W:NW	3.2	0.36	391	c Nbst Frst ro	c Nbst c Stcu Acu	c	c		
9	12.3	1.00	12.3	1.00	W:NW	NW	6.8	0.80	475	c b	b bc Frcu Stcu y	bc c Ast Stcu Frcu y	bc	bc b	
10	1.9	0.15	1.9	0.15	NW:W	W:WSW:NW	4.2	0.37	387	b bc x m	bcc Cicu Cist so-ha prhn	c Nbst ro r	r o r iro		
11	6.1	0.50	5.2	0.42	N:NNW	N:NNW	14.6	1.43	510	r o r c b	b c Frcu Cu q	c So b c irs	b c		
12	4.9	0.40	4.5	0.36	NNW:N	N	3.5	0.34	321	c b Cu Acu c Cicu Frcu	c Nbst Acu ro r ig	c Nbst Acu	r o r c		
13	0.0	0.00	0.0	0.00	NNW:N	N:NNE	2.0	0.12	219	c b x m	b c Acu Stcu m	c ro c	dod rr		
14	2.0	0.16	1.8	0.15	Calm:SSE	S:Calm	0.1	0.00	108	c	c Ast Nbst iso c	c Stcu Acu Cu	b c		
15	1.2	0.10	1.1	0.09	S:SSW	SSW	0.2	0.03	175	c	c Nbst Ast iro c	c iro	ro c		
16	1.3	0.10	0.3	0.03	S:SSE	SSW:S	0.4	0.02	146	c b c	bc c Acu b	b Cu Frcu	c		
17	0.6	0.05	0.3	0.03	S	Calm:N	3.0	0.20	261	c	c Nbst rr	rr g G f ro Mo	c id		
18	0.0	0.00	0.0	0.00	N:NE	NE	4.5	0.54	409	c id mo	c Nbst d ro	c ro iso	iso		
19	1.5	0.13	1.1	0.09	NE:NNE	NE:NNE	2.4	0.20	294	c iso	c Nbst sso	c ss o c ps c	bc c		
20	1.1	0.09	0.4	0.04	NNE:NE	NNE:NE	4.0	0.35	392	c	c iso c Ast Acu Frst	so Nbst c	iso c		
21	1.3	0.11	0.7	0.06	NE:ENE	ENE:NE	8.2	0.61	449	c	c Nbst so c Stcu prhn	c Stcu y	c Stcu		
22	8.5	0.74	8.3	0.72	NE:NNE	NE	3.6	0.25	361	c b c	c Ast Nbst iso c y	c Stcu Frcu y	c b		
23	6.5	0.56	5.4	0.47	NE:NNE	NNE	1.1	0.15	256	b x	b c so c Cicu Acu Ast	c Ast Acu Cu Stcu ls	c b		
24	11.5	1.00	11.4	0.99	Calm	E:ENE	0.6	0.03	147	c f iso	c Stcu iso	c Stcu Acu Nbst sso cb	b		
25	9.0	0.78	8.7	0.75	Calm:NE:ENE	ENE:NE	3.4	0.32	274	b m x	b x m Frcu y	b y	c		
26	0.0	0.00	0.0	0.00	NE	NE	1.6	0.15	256	b x c	c Nbst Stcu	c ido			
27	7.4	0.67	6.8	0.62	Calm	Calm	0.3	0.01	86	c rs m	o St ido g r m	c Nbst rg m	r do c m		
28	10.3	0.94	10.1	0.92	NE	NE:NNE	0.2	0.01	84	c m	ro Nbst St g f	c f m	c m		
29	..	..	..	..	N	NNW:W:SW	3.2	0.20	298	c b x m	b Frcu Cu m bc	bc iso b	b	
..	..	..	..	..			1.5	0.14	247	b x m	b Cu Frcu	bc Ci Cu so-ha y	bc	
Means	4.5	0.37	4.0	0.34	..	..	..	0.42	312				31	
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30			

The mean Temperature of Evaporation for the month was 35°.9, being 1°.8 lower than

The mean Temperature of the Dew Point for the month was 31°.7, being 3°.3 lower than

The mean Degree of Humidity for the month was 75.8, being 7.8 less than

The mean Elastic Force of Vapour for the month was 0.178 in., being 0.026 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.8.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.178. The maximum daily amount of Sunshine was 8.4 hours on February 24.

The highest reading of the Solar Radiation Thermometer was 95°.5 on February 24; and the lowest reading of the Terrestrial Radiation Thermometer was 18°.1 on February 6.

The Proportions of Wind referred to the cardinal points were N.37, E.17, S.13, W.20, calm or nearly calm conditions 13, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 14.6 lbs. on the square foot on February 10. The mean daily Horizontal Movement of the Air for the month was 312 miles; the greatest daily value was 579 miles on February 3, and the least daily value was 84 miles on February 27.

Rain (0.005 in. or over) fell on 13 days in the month, amounting to 0.773 in., as measured by gauge No.6 partly sunk below the ground; being 0.707 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected to 52° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon	
		Of the Air				Or Evapo- ration	Of the Dew Point	Mean					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Highest in Sun's Rays	Lowest on the Grass								
Mar. 1	in.	29.482	43.0	35.0	8.0	39.0	- 1.4	35.3	29.0	10.0	19.9	4.1	66	57.8	29.0	42.7	0.012	0.0	10.9
2	29.635	41.9	30.2	11.7	36.7	- 3.7	32.4	24.3	12.4	21.6	3.8	60	87.6	22.5	42.6	0.010	6.8	11.0	
3	29.724	42.4	28.3	14.1	34.8	- 5.7	30.7	23.3	11.5	25.0	0.6	60	92.9	20.6	42.5	0.000	7.3	11.0	
4	29.858	39.5	27.1	12.4	33.5	- 7.2	29.7	22.8	10.7	19.8	4.0	61	89.5	21.1	42.4	0.000	5.5	11.1	
5	30.168	41.1	29.0	12.1	35.2	- 5.7	32.2	26.9	8.3	14.6	3.2	69	99.9	22.0	42.2	0.000	1.7	11.2	
6	30.368	43.3	22.7	20.6	33.7	- 7.3	30.7	25.5	8.2	18.7	2.2	70	65.9	15.3	42.1	0.000	0.3	11.2	
7	30.437	45.8	31.4	14.4	37.1	- 3.9	34.2	29.2	7.9	22.2	2.4	72	96.2	19.2	42.0	0.000	3.5	11.3	
8	30.497	49.2	32.4	16.8	38.4	- 2.7	35.7	31.1	7.3	20.8	1.4	75	104.4	25.2	42.0	0.000	6.8	11.3	
9	30.349	43.0	29.5	13.5	37.6	- 3.4	35.6	32.3	5.3	8.8	2.5	81	61.9	19.0	42.0	0.000	0.0	11.4	
10	30.114	47.0	29.8	17.2	39.9	- 1.0	37.9	34.9	5.0	6.7	1.3	82	63.7	24.8	42.0	0.000	0.0	11.5	
11	29.872	49.7	38.5	11.2	44.4	+ 3.4	41.2	36.7	7.7	11.3	3.7	74	70.3	27.0	42.0	0.001	0.1	11.6	
12	29.794	54.7	40.0	14.7	45.9	+ 4.8	43.0	39.2	6.7	10.5	2.2	77	73.7	28.0	42.1	0.001	0.0	11.6	
13	29.526	49.3	38.0	11.3	45.3	+ 4.0	40.2	32.4	12.9	27.9	5.5	61	94.2	29.2	42.1	0.036	5.3	11.7	
14	29.654	43.2	35.9	7.3	39.7	- 1.8	35.9	29.5	10.2	11.6	8.1	66	60.5	27.1	42.3	0.000	0.0	11.8	
15	29.879	47.0	29.7	17.3	38.6	- 3.1	34.0	25.9	12.7	23.0	1.7	58	87.5	18.0	42.4	0.000	4.9	11.8	
16	29.911	46.4	29.8	16.6	39.8	- 2.1	37.4	33.6	6.2	10.9	2.1	78	67.7	19.0	42.5	0.000	0.2	11.9	
17	30.053	50.6	36.7	13.9	42.7	+ 0.7	41.0	38.6	4.1	8.8	0.4	85	67.3	24.9	42.4	0.000	0.0	12.0	
18	30.085	54.0	36.6	17.4	45.4	+ 3.4	41.6	36.2	9.2	14.1	2.8	70	95.4	25.0	42.5	0.000	1.3	12.0	
19	29.960	52.3	40.4	11.9	46.9	+ 5.0	42.4	36.3	10.6	18.4	3.3	66	97.3	31.0	42.8	0.022	1.8	12.1	
20	30.041	49.4	37.5	11.9	44.5	+ 2.6	40.8	35.4	9.1	14.0	3.8	70	83.3	27.9	42.6	0.000	0.6	12.1	
21	29.930	48.0	39.7	8.3	44.2	+ 2.3	41.1	36.7	7.5	10.1	4.3	75	59.6	33.0	42.7	0.001	0.0	12.2	
22	29.906	47.9	34.0	13.9	40.6	- 1.4	36.6	29.9	10.7	19.7	1.9	65	102.3	22.3	43.0	0.000	5.6	12.3	
23	30.029	53.0	33.0	20.0	42.3	+ 0.1	38.2	31.6	10.7	20.6	0.8	66	98.5	21.1	43.0	0.000	5.3	12.3	
24	30.150	56.3	34.2	22.1	44.6	+ 2.2	40.8	35.1	9.5	19.0	1.3	69	101.5	24.0	43.1	0.000	2.7	12.4	
25	30.279	61.2	34.2	27.0	47.3	+ 4.6	43.4	38.4	8.9	16.9	0.6	70	105.1	22.1	43.2	0.000	3.1	12.5	
26	30.187	68.4	38.7	29.7	52.4	+ 9.4	44.7	33.9	18.5	34.5	3.4	49	112.3	24.6	43.5	0.000	10.5	12.6	
27	30.125	55.0	34.6	20.4	44.8	+ 1.5	42.7	39.9	4.9	10.2	0.0	83	107.3	19.9	43.4	0.000	5.5	12.6	
28	29.907	60.2	40.6	19.6	48.0	+ 4.3	44.6	40.3	7.7	16.8	1.0	74	104.2	24.0	43.5	0.000	5.0	12.7	
29	29.593	46.7	37.2	9.5	41.8	- 2.3	40.0	37.5	4.3	8.6	0.7	84	52.5	28.4	43.6	0.006	0.0	12.7	
30	29.531	48.5	33.6	14.9	39.8	- 4.7	35.8	29.0	10.8	24.2	1.9	65	118.8	21.7	43.8	0.019	5.5	12.8	
31	29.739	48.5	29.6	18.9	39.4	- 5.5	35.7	29.5	9.9	23.3	0.0	66	108.5	17.7	44.0	0.000	5.3	12.9	
Means		29.961	49.2	33.8	15.4	41.4	- 0.5	37.9	32.4	9.0	17.2	2.4	69.9	86.7	23.7	42.7	Sum 0.108	3.1	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 Pyrometrical 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 29.961 in., being 0.208 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was $68^{\circ}4$ on March 26; the lowest in the month was $22^{\circ}7$ on March 6; and the range was $45^{\circ}7$.

The mean of all the highest daily readings in the month was $48^{\circ}2$, being the same as the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was $33^{\circ}8$, being $1^{\circ}8$ lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was $15^{\circ}4$, being $1^{\circ}8$ greater than the average for the 65 years, 1841-1905.

The mean for the month was $41^{\circ}4$, being $0^{\circ}5$ lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER								
	Polaris		δ URSAE MINORIS		OSLER'S				Robinson's								
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot			Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h			
	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures													
Mar. 1	hours	0.54	hours	0.50	WSW:W:NW	NW:WSW	lbs.	lbs.	miles	c r c	c St Ast Stcu	c Stcu b y	b c				
2	10.8	0.98	10.7	0.97	NW:WNW	NW:WNW:WSW	5.6	0.31	358	c prs bc	bc Frcu Frst y	bc Stcu Cu b y	b				
3	7.6	0.69	7.3	0.67	WSW:NNW	NW:NNW	3.0	0.30	319	b x	b bc Stcu Cu y	bc Cu b y	b				
4	2.6	0.25	2.2	0.21	NW:NNW	NNW:WSW	4.2	0.27	318	b c b x	b bc Cicu y	bc c y	c bc c				
5	8.8	0.84	8.6	0.82	WSW:Calm:NNE	NE:Calm	0.2	0.00	115	c So c m	c Nbst Cu Ci y	c Cu Ci Stcu y	c b c x				
6	7.5	0.72	5.2	0.49	Calm	NE:Calm	0.3	0.01	76	b x m	b c Stcu m f c y	c Stcu y	c b				
7	8.3	0.79	8.3	0.79	Calm:NNE	NE	2.3	0.17	248	c	c So c Ast Frst Stcu	b Acu c y	b c b				
8	0.0	0.00	0.0	0.00	NE:NNE	NNE:NE	3.0	0.29	358	b x	b Acu Cu mo b y	b Ci bc c Cu Frcu	c				
9	5.6	0.53	4.6	0.44	NNE:NE	NNE:Calm	1.5	0.11	232	c	c Stcu St	c b m	b x c m				
10	3.9	0.38	1.1	0.10	Calm:NW:N	N:Calm	1.0	0.04	137	c m	c Stcu St m	c St do c Stcu Cu mo	c x				
11	2.0	0.20	1.8	0.18	WSW:NW	NW:NNE	4.0	0.25	313	c bc m o	c Stcu Frst	c Stcu Cu Ci Acu	c ro bc				
12	0.7	0.07	0.3	0.03	NN:Calm:W	W:WSW	1.7	0.15	260	c bc c m	c Nbst ido c St m	c b m	b c				
13	8.7	0.87	7.8	0.78	WSW:NW	NW	14.0	1.83	618	c	c qr ir o Frcu Stcu Ci y	ro c Nbst bc Stcu b q y	b				
14	7.1	0.71	6.7	0.67	WNW:NW	NW:N:NNE	3.2	0.33	304	b c	c Stcu Cu c Nbst ro	c Nbst ro go	c b				
15	10.0	1.00	10.0	1.00	NNW:Calm	WSW:SW	0.6	0.04	155	b m x	b c Stcu Cu zo y	c Cicu Acu Cu b y	b m b				
16	3.9	0.39	3.0	0.30	SW:WSW	SW:WSW	0.4	0.04	191	b x	c Stcu Ast Nbst mo	do c Stcu mo	c m o				
17	9.1	0.91	7.8	0.78	WSW:Calm	Calm:SW	0.1	0.00	137	c b f x	o St ff	b ff m					
18	0.0	0.00	0.0	0.00	SW:WSW	WSW:SW	4.2	0.23	291	b bc m x	bc Cist Ci moso-ha y	c					
19	9.7	1.00	9.7	1.00	WSW:NNW	NW:WNW	2.8	0.32	324	c	c Nbst ro c dbc Ci Acuy	bc Ci Cist Acu y	b				
20	0.6	0.06	0.5	0.05	W:NW	WNW:NW	3.0	0.28	313	b x mo	b bc Ci Frcu c Ast	c Ast Nbst iro	c ro c				
21	5.2	0.53	4.5	0.46	NNW:N	NNW:N	2.5	0.17	241	c	c Ast Nbst iro	c Ast Nbst iro c	c				
22	3.7	0.38	3.0	0.31	NNE:N	NNE:NE	0.8	0.07	178	c b x	b bc c Cu Frcu y	c Stcu Cu y	c b c				
23	8.5	0.87	7.2	0.74	Calm	Calm:SW	0.2	0.01	94	c x	c Acu Stcu b Ci y	bc Cicu Ci brhnso-ha y	b c b				
24	8.1	0.83	7.4	0.76	SW:WSW	NW:Calm	0.4	0.02	162	b x m	b Acu f c Stcu y	c Stcu bc y	b m				
25	8.7	0.97	8.6	0.96	Calm	Calm:SSW	0.5	0.02	98	b c b x f	b f zo bc Cist y	bc so-ha c zo y	bc b				
26	9.0	1.00	9.0	1.00	SW:WSW	NE	0.3	0.05	203	b f	b f z y	b zo b y	b y b				
27	4.1	0.46	3.5	0.39	Calm	E:Calm	0.2	0.01	80	b x m	b St fe f b Cu	b Ci Frcu	b x c m				
28	7.5	0.83	7.4	0.82	Calm:SW	WSW	0.5	0.05	165	c x f	o St f b m	b m					
29	0.0	0.00	0.0	0.00	WSW:NE:ENE	E:Calm:ENE	1.3	0.04	172	b o ido	o c Nbst mmo	c ir ro	c				
30	7.4	0.83	7.4	0.82	NE	NE:Calm	1.2	0.10	201	ir ro c	c bc Cu y	bc Cu y	b				
31	4.0	0.44	3.5	0.39	Calm:NNW	NNW:Calm	0.7	0.05	141	b mo	c Cu Stcu y	bc c Stcu y	c do b				
Means	5.8	0.58	5.2	0.53	..	..	..	0.19	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 $37^{\circ}9$, being $1^{\circ}5$ lower than

The mean Temperature of the Dew Point for the month was $32^{\circ}4$, being $3^{\circ}2$ lower than

The mean Degree of Humidity for the month was 69.9 , being 8.2 less than

The mean Elastic Force of Vapour for the month was 0.183 in., being 0.026 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.5.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.257. The maximum daily amount of Sunshine was 10.5 hours on March 26.

The highest reading of the Solar Radiation Thermometer was $118^{\circ}8$ on March 30; and the lowest reading of the Terrestrial Radiation Thermometer was $15^{\circ}3$ on March 6.

The Proportions of Wind referred to the cardinal points were N.28, E.9, S.9, W.30, calm or nearly calm conditions 24, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 14.0 lbs. on the square foot on March 13. The mean daily Horizontal Movement of the Air for the month was 229 miles; the greatest daily value was 618 miles on March 13, and the least daily value was 76 miles on March 6.

Rain (0.005 in. or over) fell on 6 days in the month, amounting to 0.108 in., as measured by gauge No.6 partly sunk below the ground; being 1.412 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1944.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Gauge 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	Highest					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil	Gauge Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great-est	Least		Highest in Sun's Rays	Lowest on the Grass				
Apr. 1	in.	o	o	o	o	o	o	o	o	o	o	76	73.7	20.6	44.0	0.020	0.0	12.9
2	29.915	47.6	33.1	14.5	39.6	- 5.7	36.9	32.4	7.2	15.8	1.1	84	85.8	35.4	44.0	0.193	0.0	13.0
3	29.590	57.0	37.0	20.0	46.3	+ 0.6	44.3	41.9	4.4	10.7	1.1	83	103.4	42.3	44.0	0.453	0.4	13.1
4	29.279	59.4	48.7	10.7	53.2	+ 7.2	50.6	48.0	5.2	8.4	1.6	83	98.6	41.7	44.0	0.047	1.6	13.1
5	29.453	60.7	49.0	11.7	52.8	+ 6.6	50.3	47.8	5.0	11.7	0.8	83	103.7	41.4	44.3	0.007	0.7	13.2
6	29.726	59.2	49.3	9.9	53.6	+ 7.3	50.4	47.2	6.4	13.4	2.8	79	103.7	41.4	44.3			
7	29.974	51.0	42.0	9.0	47.5	+ 1.2	45.4	43.0	4.5	6.8	2.3	84	85.3	39.2	44.6	0.000	0.0	13.3
8	29.954	48.9	39.8	9.1	43.3	- 3.0	41.5	39.0	4.3	9.6	1.2	85	91.8	35.3	44.9	0.000	1.3	13.3
9	29.702	59.6	38.3	21.3	48.5	+ 2.4	45.9	42.9	5.6	13.0	1.2	80	114.8	33.8	45.1	0.000	5.1	13.4
10	29.613	59.8	46.5	13.3	52.6	+ 6.6	49.2	45.6	7.0	20.2	0.9	77	97.8	35.0	45.4	0.029	3.6	13.4
11	29.885	59.6	41.6	18.0	49.8	+ 3.9	46.2	41.9	7.9	18.8	0.9	74	117.7	29.1	45.6	0.000	4.0	13.5
12	29.855	60.9	43.4	17.5	50.2	+ 4.4	47.0	43.3	6.9	16.7	1.6	77	112.8	32.1	45.6	0.062	2.7	13.6
13	29.755	66.2	39.3	26.9	50.6	+ 4.7	45.6	39.3	11.3	23.6	0.9	65	126.3	27.0	46.0	0.000	7.4	13.7
14	29.648	58.1	42.3	15.8	51.1	+ 5.0	47.4	43.2	7.9	15.5	2.1	74	88.3	31.4	46.0	0.018	0.8	13.7
15	29.530	64.2	40.4	23.8	51.9	+ 5.5	47.3	42.0	9.9	21.2	1.2	69	119.8	29.5	46.1	0.009	3.8	13.8
16	29.379	58.1	45.2	12.9	51.6	+ 4.8	49.9	48.2	3.4	8.1	0.8	88	86.9	32.1	46.3	0.070	0.4	13.8
17	29.328	51.9	47.5	4.4	49.3	+ 2.1	48.7	48.1	1.2	3.8	0.0	96	64.3	43.2	46.4	0.327	0.0	13.9
18	29.644	51.0	45.7	5.3	48.1	+ 0.5	45.7	43.0	5.1	8.2	2.0	82	77.8	39.4	46.5	0.000	0.0	14.0
19	29.898	58.4	37.5	20.9	48.0	- 0.0	43.2	36.7	11.3	20.8	2.4	65	119.6	26.5	46.8	0.000	9.8	14.0
20	29.918	62.2	35.3	26.9	48.4	+ 0.1	44.0	38.3	10.1	18.8	1.2	68	125.8	24.0	47.0	0.200	9.0	14.1
21	29.885	59.0	46.6	12.4	52.8	+ 4.3	47.3	40.7	12.1	22.2	3.2	64	116.2	35.0	47.0	0.075	7.9	14.2
22	30.129	61.2	39.9	21.3	52.6	+ 3.9	47.6	41.9	10.7	19.6	1.2	67	123.7	27.4	47.1	0.000	4.8	14.2
23	30.288	68.0	46.9	21.1	55.6	+ 6.9	48.3	39.7	15.9	33.4	4.8	55	115.3	36.3	47.4	0.000	12.1	14.3
24	30.247	70.1	42.8	27.3	56.4	+ 7.8	50.8	45.0	11.4	19.9	3.8	65	128.7	31.0	47.8	0.000	8.2	14.4
25	30.147	61.5	48.1	13.4	54.4	+ 5.8	49.8	45.0	9.4	13.4	2.3	70	100.9	37.6	47.8	0.000	2.0	14.4
26	30.273	58.6	44.8	13.8	51.5	+ 2.9	45.0	36.6	14.9	21.7	7.5	56	116.0	33.6	48.0	0.000	8.1	14.5
27	30.417	61.8	43.0	18.8	51.9	+ 3.3	45.5	37.3	14.6	21.5	5.4	57	121.8	29.3	48.1	0.000	8.3	14.5
28	30.280	71.3	40.8	30.5	56.6	+ 7.9	49.0	40.2	16.4	32.9	2.0	54	129.3	27.1	48.5	0.000	12.4	14.6
29	30.201	58.8	44.3	14.5	51.8	+ 3.0	46.6	40.3	11.5	23.0	3.4	65	118.1	28.0	48.6	0.000	6.7	14.7
30	30.206	60.0	46.0	14.0	53.1	+ 4.1	48.5	43.4	9.7	14.0	4.5	70	111.5	40.0	48.6	0.000	1.3	14.7
31	30.122	72.3	45.5	26.8	59.6	+10.5	51.4	42.6	17.0	31.7	3.7	54	131.3	34.8	49.0	0.000	10.9	14.8
Means	29.875	59.9	43.0	16.9	51.1	+ 3.8	47.0	42.2	8.9	17.3	2.3	72.2	106.9	33.3	46.3	Sum 1.510	4.4	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 29.875 in., being 0.120 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 72°.3 on April 30; the lowest in the month was 33°.1 on April 1; and the range was 39°.2.

The mean of all the highest daily readings in the month was 59°.9, being 3°.8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 43°.0, being 3°.5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 16°.9, being 0°.3 greater than the average for the 65 years, 1841-1905.

The mean for the month was 51°.1, being 3°.8 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER				
	Polaris		δ URSA MINORIS		OSLER'S				Robins- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot			Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
Apr. 1	hours	0.00	hours	0.00	Calm: SE	S:SSE	lbs.	lbs.	miles	b bc c m	c St Ast m	c St Ast y	c r o r	
2	..	..	..	..	SE: S	SSW: Calm: SE	1.7	0.07	165	ro rr	c St	c so-ha c Ast	c
3	0.0	0.00	0.0	0.00	SSE: S: SSW	SSW: Calm: WSW	1.2	0.09	194	c r c	c Nbst iro	ir o c Nbst Ast Cur o r	rr c	
4	2.0	0.24	1.8	0.21	WSW: SW	SW	3.2	0.14	239	c rr o c	c Nbst Ast Stcu p	c Acu Nbst p	c	
5	0.4	0.05	0.3	0.04	WSW: W	W	3.7	0.26	351	c	c Frst Nbst Do	c	po c r c	
6	0.0	0.00	0.0	0.00	NW: NNW: N	NE: E	2.2	0.19	304	186	c Nbst St mo	c Mo	c Mo	
7	1.8	0.22	1.3	0.15	E	E:ENE	2.7	0.20	246	c o mo	o mo o St	o bc c	c	
8	5.2	0.65	4.9	0.62	E: Calm	E:ENE	1.6	0.13	205	c m	c bc Cist so-ha m	b Cist c Acu	c bc	
9	8.0	1.00	8.0	1.00	Calm: SSW	SW: Calm	3.0	0.27	284	b c	ro c Cu Acu	c Acu r c Cu bc	b	
10	5.3	0.66	5.2	0.65	WSW	SW: SSW	2.0	0.19	257	b m	b m c Cu Acu Stcu y	c Cu Ci po c y	c b	
11	8.0	1.00	8.0	1.00	Calm: SW	SW: SSW	1.2	0.05	159	b c	c Acu Stcu Nbst iro c p	c Acu Cu bc y	b	
12	3.6	0.45	3.1	0.39	Calm: SE	SE: ESE: ENE	1.7	0.12	163	b x bc	bc Cist Acu so-ha brhn y	bc Cu Cist brhn c b y	b c	
13	7.7	0.97	7.5	0.94	ENE: Calm	SW: SSW	0.7	0.03	157	c b bc	bc Cist Acu so-ha c	c Stcu Ast Nbst rr o c	bc b	
14	2.4	0.30	2.3	0.29	SSE: SSW	S: SSE	3.5	0.14	214	b bc	bcc Ci Cicu Acu Cu y	c Ast Nbst y ir o	c	
15	0.3	0.03	0.0	0.00	S: Calm	Calm	0.4	0.02	117	b c bc	c Ast so-ha c Nbst	c rr c	c	
16	0.1	0.01	0.0	0.00	Calm: NE	N: NNW	1.0	0.07	164	ido m f	ido r R f m	r c m rr c mo	c mo	
17	0.0	0.00	0.0	0.00	Calm: NNE	NNE	1.0	0.07	175	c mo	c St Stcu	c St	c	
18	7.4	0.99	7.4	0.99	NNE: ENE	ESE: Calm	0.6	0.04	143	c	c b Frcu y	d Frcu y	b	
19	0.0	0.00	0.0	0.00	Calm: SSW	SSW	5.0	0.43	298	b x W	bc Ci Acu y	bc Ci Acu c Ast brhn y	c rr	
20	7.4	0.98	7.4	0.98	SW: W: NW	NW	3.0	0.37	303	r rr o c	bc Cu Frcu y	bc c Cu Stcu bc y	bc b	
21	2.9	0.39	2.7	0.36	SW: WSW	WSW: W	3.2	0.30	301	b wbc brhn	bc Ci Acu so-ha y	c Ast po c y	c	
22	..	..	..	..	NW: NNW	WSW: SSW	1.4	0.10	183	c b w	b Ci zo y	b zo y	brhn b
23	6.6	0.95	6.3	0.90	WSW: W	W: SW	0.7	0.06	185	b	bc Ci so-ha y	bc Cist brhn so-ha y	bc	
24	6.8	0.97	6.8	0.97	SW: WSW	WNW: NW	4.7	0.42	311	bc c w	c Cist Stcu Frcuso-ha	c Acu Stcu Omb	bc b	
25	1.0	0.14	0.9	0.12	NNW: N	NNW: NE	4.3	0.42	287	b	b bc Stcu Cu Ci c y	c Cu Stcu y	c b c	
26	7.0	1.00	7.0	1.00	N: NNE	NNE: ESE: S	2.3	0.15	205	c	c Stcu bc y	bc Stcu Cu b y	b	
27	3.4	0.49	3.3	0.47	SW: Calm	NNW: N	2.2	0.20	225	b w b z	b z y	b y	b c	
28	0.9	0.13	0.8	0.12	N	NNE: Calm	1.8	0.16	220	c b c	c Stcu Frst y	c Stcu Frst y	c b c	
29	5.2	0.80	4.9	0.75	Calm: N	NW: W	0.6	0.05	165	c	c Acu Ci c Stcu y	c Stcu bc	bc b	
30	6.5	1.00	6.5	1.00	W: NW	NW: W	1.5	0.13	241	b	bc Ci zo bc y	bc Ci b y	b y b	
Means	3.6	0.48	3.4	0.46	..	..	..	0.17	222				
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 $47^{\circ}0$, being $3^{\circ}.1$ higher than the mean Temperature of the Dew Point for the month was $42^{\circ}.2$, being $2^{\circ}.6$ higher than the mean Degree of Humidity for the month was 72.2 , being 2.3 less than the mean Elastic Force of Vapour for the month was 0.270 in., being 0.026 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.9.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.320. The maximum daily amount of Sunshine was 12.4 hours on April 27.

The highest reading of the Solar Radiation Thermometer was $131^{\circ}.3$ on April 30; and the lowest reading of the Terrestrial Radiation Thermometer was $20^{\circ}.6$ on April 1.

The Proportions of Wind referred to the cardinal points were N. 19, E. 16, S. 22, W. 26, calm or nearly calm conditions 17, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 5.0 lbs. on the square foot on April 19. The mean daily Horizontal Movement of the Air for the month was 222 miles; the greatest daily value was 351 miles on April 4, and the least daily value was 117 miles on April 15.

Rain (0.005 in. or over) fell on 13 days in the month, amounting to 1.510 in., as measured by gauge No. 6 partly sunk below the ground; being 0.056 in. less than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (corrected to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air				Of Evaporation	Of the Dew Point	Of Radiation					Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
May 1	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	0.000	10.2	14.8
2	30.028	69.6	47.4	22.2	58.7	+ 9.4	52.3	45.9	12.8	21.7	2.6	62	127.4	34.8	49.0	0.000	10.1	14.9
3	29.778	73.9	46.3	27.6	59.4	+ 9.9	51.7	43.6	15.8	35.0	3.3	56	129.6	37.6	49.1	0.000	12.0	14.9
4	29.744	60.2	46.0	14.2	53.8	+ 4.0	45.6	34.5	19.3	31.5	8.6	48	125.3	33.0	49.3	0.012	0.3	15.0
5	29.669	54.4	36.3	18.1	47.2	- 2.8	43.0	37.5	9.7	21.9	3.3	68	95.3	21.3	49.4	0.123	6.9	15.1
6	29.380	60.5	40.8	19.7	49.0	- 1.3	44.5	38.8	10.2	27.4	3.8	68	114.8	33.2	49.4			
7	29.843	50.9	38.2	12.7	45.8	- 4.7	41.3	34.8	11.0	20.1	3.8	65	102.8	26.0	49.5	0.000	2.1	15.1
8	30.190	55.0	34.0	21.0	44.7	- 6.0	39.4	30.9	13.8	25.1	2.8	58	127.6	21.6	49.8	0.000	12.4	15.2
9	30.261	61.9	29.8	32.1	46.6	- 4.4	40.9	32.3	14.3	27.4	0.4	57	128.1	15.3	49.7	0.000	12.8	15.2
10	30.235	67.0	32.4	34.6	51.1	- 0.1	43.0	31.0	20.1	38.8	1.8	46	134.1	19.1	49.5	0.000	12.5	15.3
11	30.086	67.9	39.7	28.2	54.7	+ 3.2	46.9	36.9	17.8	37.5	2.5	51	115.5	24.7	49.6	0.000	5.0	15.3
12	30.052	76.3	42.0	34.3	60.0	+ 8.2	52.9	45.8	14.2	24.8	2.0	59	134.3	30.6	49.6	0.000	12.2	15.4
13	29.911	77.5	47.9	29.6	62.6	+ 10.5	54.2	46.1	16.5	29.6	2.6	55	136.5	32.5	50.0	0.000	11.9	15.5
14	29.811	76.4	45.7	30.7	58.3	+ 5.9	51.6	44.7	13.6	30.8	2.0	61	131.1	31.4	50.0	0.070	6.1	15.5
15	30.104	57.4	40.5	16.9	50.1	- 2.5	45.2	39.2	10.9	22.4	3.6	66	127.0	30.5	50.1	0.000	6.8	15.6
16	30.200	51.5	36.7	14.8	44.1	- 8.7	39.0	30.7	13.4	21.3	5.5	59	113.7	26.8	50.0	0.000	4.9	15.6
17	29.948	49.4	40.5	8.9	43.2	- 9.8	40.6	36.9	6.3	12.0	1.1	79	95.7	36.7	50.0	0.249	0.7	15.7
18	29.858	55.0	39.5	15.5	44.4	- 8.7	42.4	39.8	4.6	18.2	1.0	84	116.2	32.4	50.2	0.141	1.8	15.7
19	29.864	55.7	39.7	16.0	47.4	- 5.9	44.0	39.7	7.7	13.1	1.2	74	110.8	31.0	50.0	0.007	3.0	15.7
20	29.797	59.0	35.4	23.6	48.0	- 5.5	44.0	38.8	9.2	19.9	0.8	70	98.3	25.4	50.0	0.000	3.1	15.8
21	29.712	62.5	36.0	26.5	49.7	- 4.1	44.6	38.1	11.6	24.0	1.6	64	122.3	24.6	50.2	0.000	8.2	15.8
22	29.730	55.3	41.4	13.9	47.6	- 6.6	43.4	37.9	9.7	15.7	4.6	69	95.3	35.2	50.2	0.000	4.2	15.9
23	29.998	61.1	40.2	20.9	51.3	- 3.3	45.4	37.8	13.5	24.6	3.5	60	118.6	33.7	50.0	0.000	8.7	15.9
24	30.070	59.3	45.3	14.0	52.2	- 2.7	47.1	41.2	11.0	17.0	3.4	66	107.3	34.0	50.1	0.000	0.9	16.0
25	30.098	69.0	40.6	28.4	55.0	- 0.3	48.4	40.7	14.3	25.5	1.0	59	126.9	27.1	50.2	0.000	9.1	16.0
26	30.037	64.5	45.1	19.4	55.2	- 0.3	50.9	46.6	8.6	12.5	4.6	73	108.1	35.4	50.2	0.000	0.9	16.1
27	30.069	74.6	54.6	20.0	62.5	+ 6.7	57.7	53.8	8.7	16.9	1.8	73	129.3	44.6	50.4	0.000	6.0	16.1
28	30.185	81.8	54.2	27.6	66.3	+ 10.3	58.9	53.0	13.3	31.4	1.8	62	139.2	42.0	50.8	0.000	10.9	16.2
29	30.165	82.0	50.6	31.4	65.2	+ 9.0	59.4	54.9	10.3	20.2	0.6	70	137.0	35.4	51.1	0.000	12.8	16.2
30	30.040	89.3	56.5	32.8	73.1	+ 16.7	64.7	59.1	14.0	29.2	1.3	62	143.3	44.7	51.4	0.012	12.0	16.2
31	29.947	85.8	58.5	27.3	70.3	+ 13.6	62.3	56.5	13.8	26.2	1.6	62	138.8	38.3	51.6	0.000	11.5	16.2
Means	29.957	65.7	43.1	22.6	54.2	+ 1.1	48.4	41.9	12.3	23.9	2.6	63.6	121.4	31.5	50.1	Sum 0.614	7.5	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 29.957 in., being 0.156 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 89°.3 on May 29; the lowest in the month was 29°.8 on May 8; and the range was 59°.5.

The mean of all the highest daily readings in the month was 65°.7, being 3°.5 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 43°.1, being 1°.1 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 22°.6, being 4°.6 greater than the average for the 65 years, 1841-1905.

The mean for the month was 54°.2, being 1°.1 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY			WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER				
	Polaris		δ URSA MINORIS	OSLER'S				Robinson's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
May 1	hours	hours	hours	0.52	W:SW:WNW	WNW:WSW	lbs.	lbs.	miles	b	b Ci Cu y	bc Cist Frcu so-ha y	bc lu-ha
2	4.3	0.65	3.3	0.52	WSW	WSW	1.5	0.11	222	c	c b Cicu Acu y	b Ci Cist y q	b c q
3	2.7	0.41	2.2	0.33	WSW:W:NW	NW:NNW	9.5	1.54	514	c	bc Cu Stcu y	bc Cu Frcu b y	b y c
4	6.4	0.98	5.8	0.89	Calm:SW	SSW:WSW	6.5	1.10	445	c q c p o	c Cist Acu Ast so-ha y	c Ast Nbst iro	q r b
5	6.5	1.00	6.5	1.00	WSW:SW	WSW:NW	7.0	0.35	286	c b bc	c Cu Nbst Cumb t l r	t l hr Cumb Nbst c q y	c do q c
6	1.2	0.18	1.1	0.17			10.5	1.16	508	b			
7	6.0	1.00	6.0	1.00	NNW:NNE	N:NE	4.5	0.57	346	c	c Acu Stcu Nbst Cumb y	c Cumb Stcu Acur o cy	c b
8	6.0	1.00	6.0	1.00	NE:ESE:Calm	NE:ESE:S	0.7	0.05	157	b x	b dc b Cu Acu Stcu y	b y	b
9	6.0	1.00	6.0	1.00	S:Calm	SE:ESE:S	1.1	0.03	129	b x	b Ci y	b Ci bc so-ha brhn y	b
10	5.7	0.94	5.7	0.94	Calm	SE:Calm	0.3	0.01	97	b x	b bc Ci so-ha b y	b so-ha Ci y	b
					NW:N:Calm	NW:N:Calm	0.6	0.03	130	b x c	c Acu Cicu zo y	c Acu b y	b bc b
11	6.0	1.00	6.0	1.00	Calm:SW	Calm:SSW	0.3	0.01	125	b zo	b zo b y	b y	b
12	6.0	1.00	5.9	0.98	Calm	SSW:Calm	0.4	0.01	99	b	b Ci y	b Frcu Ci bc so-ha y	bc
13	0.0	0.00	0.0	0.00	Calm	Calm:NNE	5.2	0.27	175	bc	bc b Ci c Cist so-ha y	c Nbst r t iro	c rr c
14	5.5	1.00	5.5	1.00	NNE	NNE:NE	5.0	0.66	378	c	c St bc Frcu y	bc Frcu Cu y	b
15	0.0	0.00	0.0	0.00	NNE	NNE	3.3	0.23	268	b	b c Cu Stcu y	c Stcu Acu Cu Nbst y	c
16	0.7	0.12	0.0	0.00	NW:W:WNW	Var:Calm	1.8	0.05	161	c	c Nbst Stcu ro c ir	ir c Cist Cu Acu so-ha ir	c
17	2.0	0.36	2.0	0.36	ENE:NE	E:NE	3.2	0.18	246	c ir	ir c Cumb Nbst	c Nbst Cumb ro c PHc	c t c
18	5.4	0.98	5.4	0.98	NE:NNNE	NE:ESE:Calm	0.9	0.05	184	c b c	c Stcu Cu Nbst	c Stcu Cumb Ci p c	c b
19	5.5	1.00	5.5	1.00	Calm	Calm:SSW	0.7	0.02	96	b x	b c Stcu Cumb f c zo y	c Stcu y	c b
20	1.7	0.33	1.5	0.31	Calm:NE	NNE:ENE	3.0	0.18	206	b x	b bc Frcu zo y	c bc b y	c b c
21	0.0	0.00	0.0	0.00	NNE	NNE	3.5	0.49	373	c b	b c Stcu Cu	c ro c	c
22	1.0	0.21	1.0	0.20	N:NNNE	NNW:Calm	1.7	0.11	187	c b c	b Frcu bc Cu Stcu y	bc Cu Frcu c b c y	c c
23	4.0	0.80	3.8	0.76	NNW:N	Calm:SSW	0.8	0.04	156	c dc c	c Acu Stcu y	c y	c b bc
24	5.0	1.00	5.0	1.00	SW:Calm:WSW	SW:WSW	2.2	0.18	219	bc b	b c Stcu Cu zo y	c bc Cu Stcu y	bc b
25	0.0	0.00	0.0	0.00	WSW:SW	SW	4.5	0.54	366	b bc prhn	c Ast Acu so-ha ir	c Ast Stcu	c
26	3.0	0.59	2.9	0.57	SW:WSW	SW	3.6	0.47	356	1do	1do c Stcu Nbst	c Stcu St Cicum Acu b y	b
27	4.7	1.00	4.7	1.00	SW:Calm	Calm:NE	0.2	0.03	138	c	c b Ci y	b y	b
28	4.7	1.00	4.7	1.00	Calm	E:Calm	1.4	0.08	152	b m	b Ci zo y	bc b	c t l pb
29	4.7	1.00	4.7	1.00	Calm	Calm:NNE	1.2	0.02	103	b	b	b Cu Frcu	bc b
30	4.7	1.00	4.7	1.00	Calm:NNE	NE:E:Calm	1.0	0.05	148	b	b Ci zo y	b Ci y	
31	2.8	0.60	2.7	0.57	NE:ENE	E	2.6	0.23	248	b	b Ci zo bc Acu Cicu y	bc c bc Cist Cicu y	bc c
Means	3.8	0.68	3.7	0.66	..	..	..	0.29	233				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean Temperature of Evaporation for the month was $48^{\circ}4$, being $0^{\circ}6$ lower than

The mean Temperature of the Dew Point for the month was $41^{\circ}9$, being $2^{\circ}9$ lower than

The mean Degree of Humidity for the month was 83.6 , being 10.3 less than

The mean Elastic Force of Vapour for the month was 0.267 in., being 0.031 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5.1.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.477. The maximum daily amount of Sunshine was 12.8 hours on May 8 and 28.

The highest reading of the Solar Radiation Thermometer was $143^{\circ}3$ on May 29; and the lowest reading of the Terrestrial Radiation Thermometer was $15^{\circ}3$ on May 8.

The Proportions of Wind referred to the cardinal points were N.24, E.14, S.13, W.19, calm or nearly calm conditions 30, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 10.5 lbs. on the square foot on May 5. The mean daily Horizontal Movement of the Air for the month was 233 miles; the greatest daily value was 514 miles on May 2, and the least daily value was 96 miles on May 19.

Rain (0.005 in. or over) fell on 7 days in the month, amounting to 0.614 in., as measured by gauge No.6 partly sunk below the ground; being 1.301 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (corrected to 32° Fahrenheit and reduced to 40° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain Collected in Gauge No. 6, whose Receiving Surface is 5 Inches above the Ground	Daily Durations of Sunshine	Sun above Horizon			
		Of the Air				Of Evapo- ration	Of the Dew Point				Of Radiation	Of the Earth 4 ft. below the Surface of the Soil							
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least	Highest in Sun's Rays	Lowest on the Grass						
June	in.	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours			
	1	29.732	68.4	50.8	17.6	59.6	+ 2.2	55.4	51.7	7.9	18.6	1.8	75	125.6	41.0	52.2	0.016	1.3	16.3
	2	29.899	68.4	53.3	15.1	61.0	+ 3.2	52.5	43.7	17.3	31.6	6.8	53	127.3	50.0	52.5	0.000	11.9	16.4
	3	29.937	72.2	52.3	19.9	62.0	+ 3.9	54.5	47.5	14.5	27.5	2.6	59	123.3	42.2	52.8	0.000	3.2	16.4
	4	29.734	73.3	52.9	20.4	61.1	+ 2.8	53.7	46.5	14.6	29.0	5.7	59	139.8	47.4	53.0	0.020	5.7	16.4
	5	29.617	64.2	49.1	15.1	56.7	- 1.7	51.0	45.1	11.6	18.1	4.2	65	119.0	41.6	53.0	0.000	3.4	16.4
	6	29.586	58.6	49.0	9.6	53.3	- 5.0	47.0	39.3	14.0	22.7	4.6	59	116.9	41.9	53.2	0.070	4.4	16.5
	7	29.642	58.4	49.3	9.1	54.1	- 4.1	49.2	43.9	10.2	13.9	5.3	69	84.3	46.0	53.2	0.000	0.3	16.5
	8	29.666	65.5	47.2	18.3	56.1	- 2.0	51.5	46.9	9.2	20.7	2.8	71	109.6	35.4	53.4	0.045	3.3	16.5
	9	29.475	64.6	53.0	11.6	57.2	- 0.8	55.5	54.1	3.1	8.3	1.4	89	110.8	49.0	53.4	0.644	0.1	16.5
	10	29.492	62.6	46.2	16.4	54.5	- 3.6	49.6	44.4	10.1	22.5	2.9	69	127.1	32.9	53.3	0.000	2.9	16.6
	11	29.661	63.5	41.3	22.2	54.7	- 3.5	50.8	46.9	7.8	19.5	1.2	75	114.6	28.0	53.3	0.000	0.5	16.6
	12	29.922	70.2	48.9	21.3	59.1	+ 0.7	51.9	44.4	14.7	27.6	2.2	59	134.5	40.7	53.4	0.000	10.3	16.6
	13	29.807	71.0	50.3	20.7	58.7	+ 0.2	52.9	47.3	11.4	26.0	1.8	66	130.6	41.8	53.4	0.113	6.9	16.6
	14	29.886	65.4	47.8	17.6	57.1	- 1.6	50.3	42.9	14.2	23.5	3.8	59	130.3	40.8	53.4	0.000	8.7	16.6
	15	30.027	71.1	47.1	24.0	59.0	+ 0.2	52.3	45.6	13.4	29.6	1.8	61	137.7	36.1	53.6	0.008	8.5	16.6
	16	29.811	63.7	54.4	9.3	58.2	- 0.7	53.5	49.2	9.0	15.4	1.8	72	103.5	50.2	53.5	0.000	0.9	16.6
	17	30.007	64.0	47.2	16.8	56.6	- 2.4	50.1	43.0	13.6	21.2	4.6	60	129.3	37.3	53.8	0.000	12.2	16.6
	18	30.035	68.7	46.7	22.0	58.2	- 1.0	51.3	44.0	14.2	24.1	3.6	60	138.5	36.8	54.0	0.000	12.3	16.6
	19	29.997	69.7	46.7	23.0	57.7	- 1.8	51.7	45.7	12.0	23.0	2.2	64	122.1	38.9	54.0	0.000	6.6	16.6
	20	30.009	73.0	48.7	24.3	59.9	- 0.0	52.0	43.8	16.1	31.7	4.9	55	133.7	41.6	54.1	0.000	14.3	16.6
	21	30.037	62.4	49.6	12.8	54.3	- 6.0	50.0	45.5	8.8	14.2	3.3	72	113.6	43.5	54.0	0.000	5.4	16.6
	22	29.926	70.9	47.4	23.5	59.7	- 0.9	52.2	44.4	15.3	27.6	3.4	57	135.9	40.5	54.2	0.000	12.2	16.6
	23	29.904	64.2	48.0	16.2	56.5	- 4.4	50.5	44.1	12.4	19.7	5.4	63	121.5	31.0	54.2	0.000	4.7	16.6
	24	29.898	76.0	42.1	33.9	58.8	- 2.4	51.4	43.5	15.3	25.9	2.8	57	130.2	24.9	54.4	0.000	13.5	16.6
	25	29.658	74.0	48.9	25.1	61.3	- 0.1	53.6	46.1	15.2	33.6	5.4	57	138.8	..	54.6	0.000	6.4	16.6
	26	29.442	64.8	56.3	8.5	58.9	- 2.6	57.0	55.5	3.4	8.0	1.8	89	112.0	51.2	54.6	0.344	0.1	16.6
	27	29.344	63.0	49.4	13.6	55.6	- 6.0	52.1	48.7	6.9	14.4	1.4	77	125.1	44.8	54.7	0.191	9.3	16.6
	28	29.556	68.5	51.3	17.2	58.4	- 3.2	55.1	52.2	6.2	14.5	2.8	80	124.3	43.6	54.9	0.016	2.2	16.6
	29	29.635	72.5	55.8	16.7	62.4	+ 0.8	58.0	54.6	7.8	16.7	1.5	75	138.8	49.0	55.0	0.014	3.5	16.6
	30	29.656	73.0	53.3	19.7	60.8	- 0.7	55.9	51.7	9.1	20.4	1.0	72	136.8	44.1	55.0	0.035	5.8	16.6
Means		29.767	67.5	49.5	18.0	58.1	- 1.3	52.4	46.7	11.3	21.7	3.2	66.6	124.5	41.1	53.7	1.516	6.0	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 29.767 in., being 0.055 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 76°.0 on June 24; the lowest in the month was 41°.3 on June 11; and the range was 34°.7.

The mean of all the highest daily readings in the month was 67°.5, being 1°.4 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 49°.5, being 0°.9 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 18°.0, being 0°.5 less than the average for the 65 years, 1841-1905.

The mean for the month was 58°.1, being 1°.3 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER				
	Polaris		δ URSAE MINORIS		OSLER'S				Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot			Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures										
June 1	hours	0.02	hours	0.00	Calm: WSW	NNW: NW	lbs.	lbs.	miles	b c	c Nbst irg Ast Cumb ty	c y Nbst Acu tpc	c	
2	2.5	0.53	2.4	0.51	NW: NNN	NN: NWW	4.4	0.27	269	c c	c bc Ci Stcu Frcu y	b Ci y	b y c	
3	1.4	0.31	1.1	0.25	WSW: W	NNW: W	4.3	0.43	348	b c	c Acu Ast Stcu ocy	c Ci Acu Cicu y	c c	
4	2.2	0.49	2.1	0.47	WSW: SW	SW: WSW	4.7	0.39	334	c c	c Acu Ast Ci y	bc c Acu Ast Ci y	c rro c	
5	0.7	0.15	0.5	0.12	WSW	WSW: W	8.5	1.15	450	b	b c Ast Nbst y	c Stcu Nbst y	c	
6	0.1	0.02	0.1	0.01	WNW: NW	NW: WNW	4.0	0.63	400	c P c	dc c Stcu Nbst y	c iro Nbst y	c rro c	
7	0.9	0.19	0.4	0.10	WNW: N	N: NW: WNW	3.8	0.37	356	c c	c Ast Nbst	c Ast Nbst	c	
8	0.0	0.00	0.0	0.00	WSW: WNW	W: WSW	3.3	0.24	286	c bc	dc c Frcu Nbst y	c Ast Nbst rr	r c do do	
9	0.3	0.07	0.2	0.04	WSW	WSW: W: WNW	3.0	0.15	255	do rr	rr c Nbst Ast	c Nbst r c r R	r o r o c	
10	4.5	1.00	4.5	1.00	W: NW	NN: N: Calm	1.0	0.14	244	c	c Ast Nbst y	c Acu Cu Cumb y	c b	
11	4.2	0.94	4.2	0.94	WSW: SW	SW: W	3.0	0.17	226	b	c Acu Ci y	c Nbst iro	ir o c b	
12	3.7	0.83	3.4	0.75	W	W: SW	3.5	0.22	270	b	b Cu Acu Stcu y	dc c Cist Cu Acu so-hay	c bc	
13	4.5	1.00	4.5	1.00	SW: SSW	WSW: W	3.0	0.27	304	b c 1r	c Nbst irc Frcu so-ha	c b Cu q b y	b	
14	3.8	0.84	3.8	0.84	W	WNW: W	11.0	0.69	379	b	b c Cu Stcu y	c po dc Acu Cicu c p	c b	
15	0.0	0.00	0.0	0.00	WSW: W	WSW: SW	5.6	0.62	371	b	dc Acu Cicu y	dc Acu Cicu c y	c iro do	
16	2.1	0.48	1.9	0.42	WSW: WNW: NW	NW	4.0	0.33	279	b	c Frcu Stcu	c Ast Nbst Macu	c bc	
17	2.6	0.59	2.6	0.59	NW: N	N: NNE	3.5	0.62	363	do do c	c bc Stcu Frcu y	bc Frcu b y	b	
18	3.9	0.86	3.9	0.86	N: NNE	NNE	6.7	1.12	416	c	b Acu bc Cu Frcu y	bc c Stcu bc v y	b v b	
19	4.5	1.00	4.5	1.00	NNE	NE: NNE	1.8	0.20	256	c	c b c Stcu Cu	c b Cicu Acu y	b	
20	0.0	0.00	0.0	0.00	NE: NNE	NE: NNE	6.0	0.67	405	b c	b zo y	b Ci y	b c	
21	0.4	0.08	0.3	0.06	NNE: NE	NNE	5.6	0.79	421	b	c Acu Cicu y	c bc Stcu Cu b y	b c	
22	0.0	0.00	0.0	0.00	NE: NE	Calm: Calm	3.5	0.60	392	c	1do Nbst c Stcu	c b c Stcu Cu b y	b c	
23	4.5	1.00	4.5	1.00	Calm: NE	NNE: NE	3.6	0.48	304	c	b bc Ci Frcu y	c bc Stcu b y	b	
24	3.7	0.83	3.2	0.71	Calm: Calm	Calm: SW	1.5	0.16	236	c	c Stcu	b y	b	
25	0.3	0.07	0.0	0.00	SSW: SW	SW	2.3	0.12	152	b x	b zo y	c Acu y	c	
26	0.0	0.00	0.0	0.00	SSW: S	SS: SW	5.0	0.34	291	b	c Acu Cicu y	c ir R Nbst	c rr	
27	4.1	0.90	3.9	0.88	WSW: SW	SW: SSW	2.4	0.15	233	ro c	ir o r Nbst Stcu	bc qtlhp Cumb Ci b	c pb	
28	0.0	0.00	0.0	0.00	SSW: SW	SS: SW	20.3	0.68	366	r c b	b c Cist Nbst ptby	c Stcu Ast Nbst dd	c	
29	0.0	0.00	0.0	0.00	SW: SSW	S: Calm	8.6	1.09	422	b bc c ir o	ir o d Nbst Stcu Cu so-ha	c bc Cu Cicu Ci prhn c	rr o c	
30	0.0	0.00	0.0	0.00	Calm: WSW	SW: SSW	2.5	0.25	243	c	c Stcu St	bc Stcu Cu Ci b prhn so-ha	c iro rr	
Means	1.8	0.41	1.7	0.38	..	..	..	0.45	317				31	
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30		

The mean Temperature of Evaporation for the month was $52^{\circ}4$, being $2^{\circ}5$ lower than

The mean Temperature of the Dew Point for the month was $46^{\circ}7$, being $4^{\circ}1$ lower than

The mean Degree of Humidity for the month was 66.6 , being 6.6 less than

The mean Elastic Force of Vapour for the month was 0.320 in., being 0.055 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.1 .

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.364 . The maximum daily amount of Sunshine was 14.3 hours on June 20.

The highest reading of the Solar Radiation Thermometer was $139^{\circ}8$ on June 4; and the lowest reading of the Terrestrial Radiation Thermometer was $24^{\circ}9$ on June 24.

The Proportions of Wind referred to the cardinal points were N.25, E.6, S.20, W.43, calm or nearly calm conditions 5, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 20.3 lbs. on the square foot on June 27. The mean daily Horizontal Movement of the Air for the month was 317 miles; the greatest daily value was 450 miles on June 4, and the least daily value was 152 miles on June 24.

Rain (0.005 in. or over) fell on 12 days in the month, amounting to 1.516 in., as measured by gauge No.6 partly sunk below the ground; being 0.522 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 hourly Values (corrected to 32° and reduced to Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity = 100 (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon
		Of the Air				Of Evapo- ration	Of the Dew Point	Highest					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil				
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Mean	Greatest	Least	High- est in Sun's Rays	Lowest on the Grass						
	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours
July 1	29.694	69.9	54.3	15.6	61.8	+ 0.3	58.8	56.5	5.3	10.3	2.0	83	125.3	51.8	55.2	0.189	1.0	16.6
2	29.687	72.3	60.4	11.9	64.7	+ 3.1	61.8	59.8	4.9	10.8	1.6	84	131.6	56.8	55.4	0.093	1.0	16.6
3	29.532	64.9	56.8	8.1	61.6	- 0.2	60.0	58.9	2.7	5.7	1.4	91	91.3	50.0	55.4	0.394	0.0	16.5
4	29.563	72.6	53.5	19.1	62.0	- 0.1	56.5	51.7	10.3	22.1	2.1	69	129.1	45.8	55.7	0.000	4.8	16.5
5	29.646	71.5	53.3	18.2	61.2	- 1.1	57.5	54.5	6.7	17.6	1.4	79	128.6	40.7	55.9	0.025	4.8	16.5
6	29.643	79.4	56.0	23.4	67.8	+ 5.4	60.7	55.4	12.4	26.4	1.3	64	141.3	48.2	56.0	0.000	13.7	16.4
7	29.547	74.3	56.8	17.5	65.5	+ 3.1	60.1	56.0	9.5	22.3	2.9	72	130.0	45.5	56.1	0.065	4.6	16.4
8	29.667	75.7	55.3	20.4	65.0	+ 2.6	59.8	55.9	9.1	18.8	2.4	73	150.0	44.0	56.4	0.058	6.6	16.4
9	29.578	66.4	54.0	12.4	59.4	- 3.0	56.2	53.6	5.8	12.9	2.8	81	123.3	45.4	56.4	0.100	3.8	16.4
10	29.549	68.3	53.4	14.9	59.6	- 2.9	55.4	51.7	7.9	12.4	5.1	75	128.3	45.9	56.6	0.013	4.2	16.3
11	29.788	64.4	54.2	10.2	59.3	- 3.4	54.5	50.1	9.2	12.8	5.7	72	103.3	43.8	56.6	0.000	0.3	16.3
12	29.899	68.9	52.4	16.5	60.5	- 2.4	54.3	48.6	11.9	19.0	5.3	64	128.0	42.0	56.6	0.000	2.0	16.3
13	29.776	70.0	57.9	12.1	61.8	- 1.3	59.3	57.5	4.3	11.5	1.5	85	124.4	47.7	56.7	0.241	0.5	16.3
14	29.757	73.8	55.5	18.3	63.0	- 0.3	59.0	56.0	7.0	12.0	1.1	77	145.7	45.3	56.7	0.000	3.9	16.2
15	29.793	72.5	56.7	15.8	63.1	- 0.3	59.6	57.0	6.1	11.1	2.2	81	118.8	48.1	56.8	0.019	2.3	16.2
16	29.939	77.1	59.4	17.7	67.5	+ 4.1	62.6	59.3	8.2	14.5	1.4	75	148.5	47.6	57.1	0.000	6.8	16.2
17	29.952	81.0	57.2	23.8	67.0	+ 3.6	61.1	56.7	10.3	23.4	0.9	70	144.9	44.2	57.1	0.000	8.7	16.1
18	29.897	74.8	55.1	19.7	63.5	+ 0.2	58.1	53.7	9.8	20.9	2.0	71	145.9	47.9	57.3	0.000	10.1	16.1
19	29.888	72.7	55.3	17.4	63.2	- 0.0	58.3	54.4	8.8	17.9	2.8	73	134.3	50.8	57.4	0.000	7.2	16.0
20	29.818	72.0	54.3	17.7	61.9	- 1.3	56.7	52.3	9.6	17.1	2.6	71	133.7	49.4	57.6	0.000	8.3	16.0
21	29.621	68.4	52.4	16.0	59.4	- 3.8	54.0	49.0	10.4	16.6	3.0	69	120.3	48.7	57.6	0.070	0.8	16.0
22	29.688	64.3	52.1	12.2	57.8	- 5.3	54.4	51.3	6.5	10.0	2.4	79	97.6	50.3	57.6	0.030	0.0	15.9
23	29.946	65.9	55.5	10.4	60.4	- 2.6	54.5	49.1	11.3	17.7	5.6	66	107.7	52.2	57.6	0.000	0.3	15.9
24	29.986	70.6	56.3	14.3	62.3	- 0.6	56.6	51.7	10.6	21.1	3.3	69	113.0	47.0	57.8	0.000	0.0	15.8
25	29.885	73.0	47.7	25.3	62.5	- 0.2	56.0	50.3	12.2	20.0	2.0	65	121.6	33.2	57.9	0.000	2.0	15.8
26	29.660	79.5	61.3	18.2	68.2	+ 5.7	61.6	56.9	11.3	20.0	3.2	67	148.4	54.5	58.0	0.020	8.4	15.8
27	29.630	76.0	59.3	16.7	66.2	+ 3.8	61.0	57.2	9.0	16.0	2.5	73	140.7	54.0	58.0	0.005	8.5	15.7
28	29.777	79.1	57.9	21.2	66.3	+ 4.0	60.2	55.6	10.7	22.8	2.4	69	154.6	47.8	58.0	0.000	3.7	15.6
29	29.695	69.6	58.0	11.6	62.0	- 0.3	59.0	56.7	5.3	11.8	1.5	83	125.3	45.8	58.0	0.151	1.7	15.6
30	29.734	74.3	57.3	17.0	64.6	+ 2.3	59.7	56.0	8.6	17.1	2.3	74	139.8	46.2	58.2	0.000	4.1	15.5
31	29.993	73.4	56.7	16.7	63.9	+ 1.7	59.3	55.8	8.1	14.4	2.4	75	125.6	43.8	58.1	0.000	4.4	15.5
Means	29.749	72.1	55.7	16.5	63.0	+ 0.3	58.3	54.5	8.5	16.4	2.6	74.2	129.1	47.2	57.0	1.473	4.1	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 29.749 in., being 0.057 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 81°.0 on July 17; the lowest in the month was 47°.7 on July 25; and the range was 33°.3.

The mean of all the highest daily readings in the month was 72°.1, being the same as the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 55°.7, being 1°.9 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 16°.5, being 1°.8 less than the average for the 65 years, 1841-1905.

The mean for the month was 63°.0, being 0.3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER								
	Polaris		δ URSAE MINORIS		OSLER'S			Robin- son's									
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h					
					A.M.	P.M.	Greatest Mean of 24 hourly Measures										
July 1	hours	0.02	hours	0.00	SSW:SW	SW	lbs.	lbs.	miles	rr c	c Nbst Stcu Frst	c Stcu Frst	ro c				
2	0.1	0.02	0.1	0.02	SW	SW:SSW	2.6	0.17	232	c 1do	c Frst Stcu	c Nbst iro r	c				
3	3.7	0.78	3.5	0.74	S:Calm	WNW:W	0.9	0.03	140	c	c r R Ast Nbst ir R ro	Nbst Cumb r iro c	c bc				
4	3.9	0.81	3.9	0.81	W:Calm	WSW	1.1	0.06	170	bc c	c be Ci Acu Cu y so-ha	c Ci Acu Cu so-ha c y	c ro c b				
5	..	..	..	..	WSW:SW	SW:SSW	2.6	0.17	219	bc bc	bc c Stcu Frcl	c Stcu Ast ro c	ro d c			
6	0.3	0.06	0.2	0.04	Calm:SSE	SE:ESE	3.6	0.34	230	bc b c	bc Cu Cicu Ci y	b Frcl Cicu Ci y	c 1c				
7	4.3	0.91	4.2	0.88	Var:SW	SW:SSW	2.2	0.15	183	c ir ro	ir ro c Ast Acu Cist Nbst	c bc Ci Cicu Frcl y	bc				
8	0.0	0.00	0.0	0.00	S:Calm:SW	SW:Calm	1.3	0.09	150	bc	bc Ci Cicu Frcl c y	c Acu Ast Cu y	c rr c				
9	3.5	0.70	3.4	0.68	W:WSW	SW:W	3.6	0.39	311	c b	b c Acu Nbst ro r	Nbst rro c bc	bc b				
10	0.5	0.11	0.4	0.07	WSW:W	W:WNW	5.6	0.78	421	b c	c Nbst	c Acu Stcu Nbst Cu iro	ro c				
11	3.6	0.72	3.5	0.70	WNW:NW	NW>NNW	3.0	0.45	348	c ro c	c Stcu	c Frst	c b				
12	0.0	0.00	0.0	0.00	NW	WNW:W	1.6	0.12	211	b c	c Stcu Acu y	c Frcl Acu y	c				
13	3.1	0.61	2.9	0.57	W	WSW:W	2.0	0.13	203	c do c	c Stcu Nbst Ast	Nbst ir R c r c	c P r b c				
14	0.9	0.17	0.5	0.11	WSW:W	W:WSW	1.6	0.08	195	b c	b c Acu Ci Cu c Stcu	c Ast Stcu Macu Cumb	b c				
15	1.3	0.25	1.3	0.25	WSW	WSW	2.7	0.17	237	c 1do	c Nbst Stcu ido c r	r Nbst c	iro c				
16	5.3	1.00	5.3	1.00	Calm:W	WNW:Calm	1.0	0.05	130	c	c Stcu Acu bc Cu Ci	bc Cu Ci Acu	bc b				
17	4.5	0.85	3.6	0.68	Calm	ESE	3.6	0.19	149	b w m	b zo Acu bc Cu Cicu Ci y	bc Acu Ci y	bc				
18	1.5	0.29	1.0	0.18	E:ENE:ESE	ESE	1.7	0.18	216	b c	c bc Ci Cu Frcl y	b Ci Cu y	b c				
19	1.6	0.30	1.3	0.24	E:ESE	SE:ESE	1.2	0.14	202	c	c St bc Acu Cu	bc D Acu y	b c				
20	3.2	0.60	2.7	0.51	E	ESE:E	1.8	0.31	257	c	c Acu y	b Ci bc y	bc				
21	0.0	0.00	0.0	0.00	ENE	ENE:NE	4.5	0.55	365	bc c	c Stcu St y	c y	c ro r				
22	0.0	0.00	0.0	0.00	NE:NNE	NNE:N	1.5	0.16	225	ir ro mo	ir ro c Stcu Nbst	c Stcu	c				
23	0.0	0.00	0.0	0.00	N	NNE:Calm	0.6	0.03	134	c	c Stcu y	c Stcu y	c				
24	3.5	0.61	3.4	0.59	Calm:WSW	SW:Calm	0.2	0.01	108	c mo	c Stcu y	c Stcu Cu y	c bc				
25	0.2	0.03	0.1	0.01	Calm:S	S:SE	0.8	0.06	143	bc	bc Cist so-ha c Ast Cu	c 1ro	c ir o				
26	2.3	0.41	2.2	0.38	SSE:WSW	SW	2.6	0.25	259	c p bc	bc c Ci Frcl bc Ci Cu y	b c Stcu Ci Cu	c b c p c				
27	3.5	0.61	3.0	0.52	SW:WSW	WSW:W	4.2	0.64	354	bc c	bc iro c Stcu Acu Nbst pc	bc b c	c bc c				
28	3.5	0.61	2.6	0.46	WSW:SW	WSW:SW	1.2	0.15	247	c b c	c Acu Cu Frcl bc	c bc c	c				
29	0.7	0.11	0.5	0.08	SW	SW	1.7	0.14	232	c	c Ast Nbst ro rr ro	c Ast Stcu Nbst	c				
30	3.9	0.62	3.8	0.60	W:NW	NW:N	1.1	0.07	183	c	c b c Stcu po	c Stcu y	c b				
31	1.7	0.27	1.4	0.22	NNE:N	Calm:NE	0.4	0.04	139	b c mo	c St mo	c St bc Cu Ci b zo	b c mo				
Means	2.0	0.38	1.8	0.34	..	..	0.21	221								
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°.3, being 0°.4 higher than

The mean Temperature of the Dew Point for the month was 54°.5, being 0°.4 higher than

The mean Degree of Humidity for the month was 74.2, being 1.0 greater than

The mean Elastic Force of Vapour for the month was 0.427 in., being 0.006 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.7.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.257. The maximum daily amount of Sunshine was 13.7 hours on July 6.

The highest reading of the Solar Radiation Thermometer was 154°.6 on July 28; and the lowest reading of the Terrestrial Radiation Thermometer was 33°.2 on July 25.

The Proportions of Wind referred to the cardinal points were N.12, E.15, S.21, 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 5.6 lbs. on the square foot on July 10. The mean daily Horizontal Movement of the Air for the month was 221 miles; the greatest daily value was 421 miles on July 10, and the least daily value was 108 miles on July 24.

Rain (0.005 in. or over) fell on 15 days in the month, amounting to 1.473 in., as measured by gauge No. 6 partly sunk below the ground; being 0.926 in. less than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon			
		Of the Air				Or Evaporation	Or the Dew Point				Of Radiation		Of the Earth 4 ft. below the Surface of the Soil						
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values			Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least						
Aug. 1	in. 30.048	o 68.0	o 60.0	8.0	62.5	+ 0.3	58.9	56.2	6.3	10.6	1.7	80	118.1	52.0	58.1	0.000	3.9 15.4		
2	29.986	70.7	58.2	12.5	62.0	- 0.1	58.8	56.3	5.7	14.5	0.9	82	134.3	54.0	58.1	0.000	4.8 15.4		
3	30.008	75.1	57.8	17.3	64.1	+ 2.0	60.0	57.0	7.1	18.3	0.9	78	130.8	46.0	58.4	0.001	6.5 15.3		
4	30.112	81.0	55.0	26.0	65.1	+ 3.0	59.8	55.9	9.2	19.1	1.8	72	140.3	41.1	58.4	0.133	7.6 15.3		
5	30.090	78.3	55.9	22.4	65.9	+ 3.8	59.9	55.3	10.6	27.5	1.5	69	140.3	46.8	58.6	0.000	9.0 15.2		
6	30.000	78.4	55.3	23.1	64.1	+ 1.9	58.4	53.9	10.2	22.3	2.7	70	137.9	46.9	58.7	0.000	4.5 15.2		
7	29.930	81.0	51.8	29.2	64.7	+ 2.5	57.1	50.6	14.1	35.1	0.9	60	148.8	34.9	58.7	0.000	11.7 15.1		
8	29.775	83.5	56.4	27.1	67.9	+ 5.6	60.9	55.7	12.2	31.8	0.7	65	146.7	39.3	58.8	0.000	6.2 15.0		
9	29.717	81.8	56.0	25.8	68.5	+ 6.2	60.7	54.8	13.7	25.7	2.3	61	149.1	39.1	58.9	0.000	6.7 15.0		
10	29.793	81.9	59.6	22.3	69.1	+ 6.8	63.0	58.8	10.3	19.1	4.1	70	143.9	49.7	58.9	0.000	4.4 14.9		
11	29.890	83.2	60.5	22.7	70.3	+ 7.9	63.9	59.6	10.7	20.9	1.6	69	148.5	48.9	59.0	0.000	11.5 14.9		
12	29.962	80.6	59.3	21.3	68.5	+ 6.0	61.9	57.2	11.3	27.7	1.1	67	145.3	49.6	59.0	0.000	3.6 14.8		
13	30.025	77.9	56.4	21.5	66.3	+ 3.8	58.7	52.5	13.8	27.9	2.9	61	138.9	41.0	59.2	0.000	9.5 14.8		
14	30.039	74.2	54.0	20.2	63.0	+ 0.5	55.7	49.1	13.9	29.8	2.0	61	139.2	38.2	59.3	0.000	13.1 14.7		
15	29.864	74.1	55.6	18.5	63.7	+ 1.3	57.4	52.2	11.5	22.5	1.9	66	137.7	47.0	59.5	0.000	11.4 14.7		
16	29.650	88.0	51.6	36.4	69.9	+ 7.6	60.8	53.8	16.1	33.8	1.6	56	140.7	38.8	59.6	0.000	11.6 14.6		
17	29.748	79.7	61.1	18.6	69.2	+ 7.1	62.9	58.5	10.7	21.5	3.6	69	140.7	50.9	59.7	0.000	4.3 14.5		
18	29.692	80.6	63.1	17.5	70.2	+ 8.3	63.3	58.5	11.7	20.9	3.4	67	140.4	55.0	59.8	0.000	9.6 14.5		
19	29.537	79.0	60.7	18.3	66.5	+ 4.8	62.4	59.6	6.9	17.9	2.9	79	124.8	52.2	59.6	0.250	1.2 14.4		
20	29.581	65.5	55.0	10.5	61.1	- 0.4	59.0	57.5	3.6	7.2	0.8	87	101.1	52.8	59.6	0.586	0.2 14.3		
21	29.739	59.0	54.5	4.5	56.8	- 4.5	55.1	53.7	3.1	4.5	1.9	89	66.4	53.0	59.6	0.110	0.0 14.3		
22	29.800	67.0	57.4	9.6	62.0	+ 0.9	61.2	60.7	1.3	2.2	0.0	95	78.5	56.0	59.6	0.065	0.0 14.2		
23	29.780	80.1	61.3	18.8	68.3	+ 7.4	63.5	60.3	8.0	23.6	0.3	76	134.6	56.0	60.0	0.027	6.2 14.2		
24	29.890	76.1	57.6	18.5	63.3	+ 2.5	60.8	59.1	4.2	13.7	1.2	86	131.3	49.0	59.8	1.409	1.0 14.1		
25	30.040	79.3	52.7	26.6	65.4	+ 4.7	60.9	57.7	7.7	19.5	1.0	76	127.2	40.8	60.0	0.000	7.3 14.0		
26	30.072	81.3	55.3	26.0	68.0	+ 7.3	62.4	58.5	9.5	23.0	1.3	72	137.6	44.0	60.0	0.003*	10.1 14.0		
27	29.892	81.6	55.6	26.0	67.9	+ 7.3	60.9	55.7	12.2	28.6	1.3	65	137.1	43.8	60.0	0.000	11.1 13.9		
28	29.691	70.6	57.4	13.2	62.0	+ 1.6	56.4	51.5	10.5	20.6	1.8	69	127.6	48.3	60.0	0.090	5.4 13.8		
29	29.643	65.8	55.2	10.6	59.1	- 1.2	55.1	51.6	7.5	13.1	2.0	77	104.6	48.7	59.9	0.055	0.1 13.8		
30	29.512	72.2	56.2	16.0	61.5	+ 1.4	56.9	53.1	8.4	21.1	2.0	74	135.0	50.9	60.0	0.006	5.8 13.7		
31	29.475	69.0	54.1	14.9	58.5	- 1.4	53.9	49.7	8.8	22.9	3.5	72	136.0	46.5	59.8	0.127	7.7 13.7		
Means	29.838	76.3	56.8	19.5	65.0	+ 3.4	59.7	55.6	9.4	20.9	1.8	72.3	131.1	47.1	59.3	Sum 2.862	6.3 14.6		
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 18		

The results apply to the civil day, except Columns 19 to 22 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named, to dawn of the following day.

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

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

* Rainfall (Column 16). The amount entered on August 26 is derived from dew.

The mean reading of the Barometer for the month was 29.838 in., being 0.048 in. higher than the average for the 65 years, 1841-1905.
TEMPERATURE OF THE AIR.

The highest in the month was 88°.0 on August 16; the lowest in the month was 51°.6 on August 16; and the range was 36°.4.

The mean of all the highest daily readings in the month was 76°.3, being 5°.5 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 56°.8, being 3°.2 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 19°.5, being 2°.3 greater than the average for the 65 years, 1841-1905.

The mean for the month was 65°.0, being 3°.4 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSA MINORIS		OSLER'S			Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
					A.M.	P.M.	Greatest	Mean of 24 Hours Measures					
Aug. 1	hours	hours	hours	0.00	Calm:E	E:ESE	lbs.	lbs.	miles				
2	0.0	0.00	0.0	0.00	E	E	1.1	0.09	163	c St	c St b Frst	b c	
3	0.0	0.00	0.0	0.00	E	E	1.6	0.24	249	c St	c St Frst b Cu Frcu c	c do	
4	6.3	1.00	6.3	1.00	E	E	1.0	0.15	213	do c	c b Ci y	b	
5	5.9	0.95	5.9	0.95	NNE:NE	NE:Calm	2.4	0.10	181	b c	b c Nbst Cumb P c	c b	
6	3.7	0.55	3.7	0.55	NE	E	2.4	0.15	219	b c	c Frst b c Cumb Stcu y	b	
7	5.4	0.80	5.4	0.80	NE:NNE	ESF:Calm	0.6	0.07	148	b c	c Stcu	c bc b	
8	2.5	0.37	2.4	0.36	Calm	N:Calm	0.2	0.02	88	b w	b y	b c	
9	4.0	0.59	4.0	0.59	Calm	WSW:Calm	0.5	0.02	86	c f	b c b Ci y	c b	
10	5.2	0.78	4.6	0.68	Calm:NW	WW	1.4	0.12	214	b c	c zo b Ci Cu Acu y	c bc	
	6.7	1.00	6.7	1.00	W	W	3.3	0.27	292	bc lu-hac	c Acu Cu y	b	
11	6.1	0.90	5.9	0.87	WSW:SW	WSW	3.7	0.22	254	b	b bc Ci Acu Cu c	bc b	
12	4.4	0.61	4.3	0.60	WSW:WNW	W:Calm:NE	1.2	0.05	170	b c b c	c Stcu Cu Acu y	c b	
13	7.3	1.00	7.3	1.00	NE:NNE	NNE:ESE:Calm	1.1	0.05	249	b c	c Cu Acu y	b	
14	7.3	1.00	7.3	1.00	Calm:ESE	ESE:E	3.5	0.17	222	b w	b bc b Frcu y	b	
15	7.3	1.00	7.2	0.99	E:ESE	ESE:E	3.3	0.22	263	b bc	bc Ci Cist Cicuso-ha	bc b	
16	6.7	0.92	6.5	0.90	Calm	WSW:W	2.4	0.12	170	b	b z y	b y b	
17	4.8	0.67	4.2	0.58	WSW	WSW:SW	3.0	0.20	265	b c	c Acu Cu Cicu	b	
18	3.3	0.46	2.5	0.34	SW	SW:SSW	3.0	0.25	288	b c	c b Cu Ci bc Acu y	bc c	
19	1.3	0.17	1.2	0.15	SSW	SW	2.8	0.10	213	b c b	c Acu Cu Nbst po y	c	
20	0.0	0.00	0.0	0.00	Calm:NE:N	NNW:N	2.7	0.16	233	c	r R Nbst m c	c ido	
21	0.0	0.00	0.0	0.00	N:NNE	NNE:NE	6.0	0.53	410	c	c Nbst	o do d	
22	0.0	0.00	0.0	0.00	NE	ENE	1.0	0.05	217	ddo	d do Nbst m	o mo	
23	0.0	0.00	0.0	0.00	ENE:Var:SW	SW:Calm	1.4	0.07	223	omo	d c Stcu m o bc Cicu Cu	c p c	
24	6.5	0.84	6.5	0.84	Calm	Var:SW	1.0	0.00	119	c	c Acu Ast Stcu Cumb	RR c b	
25	6.3	0.82	5.4	0.70	Calm:SW	SW:Calm	0.0	0.00	128	b	c b Cu Acu Cicu c	b bc	
26	6.9	0.84	6.3	0.76	Calm	Calm	0.0	0.00	71	c b W	b Ci Cicu bc y	c bc b	
27	4.0	0.48	3.7	0.45	Calm:W	WSW:SW	1.0	0.04	177	b w	b Cicu y	b c	
28	0.6	0.07	0.1	0.02	SW:W	WNW:NW	8.2	0.40	358	c	c rr Nbst Stcu b Cicu y	c	
29	0.0	0.00	0.0	0.00	Calm	Calm	0.1	0.00	95	c po	c Acu Stcu	c r c	
30	4.9	0.60	4.3	0.52	Calm:W	WSW:SW	1.8	0.13	251	c	c ido d c Cicu Acu y	c bc	
31	8.0	0.97	7.7	0.94	WSW:W	WSW	7.0	0.47	402	bc b c	c b Acu Cu Frcu c pt	b	
Means	4.0	0.56	3.9	0.54	..	..	..	0.14	211			
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 $59^{\circ}7$, being $2^{\circ}2$ higher than

The mean Temperature of the Dew Point for the month was $55^{\circ}6$, being $1^{\circ}3$ higher than

The mean Degree of Humidity for the month was 72.3, being 4.5 less than

The mean Elastic Force of Vapour for the month was 0.445 in., being 0.021 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.0.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.434. The maximum daily amount of Sunshine was 13.1 hours on August 14.

The highest reading of the Solar Radiation Thermometer was $149^{\circ}1$ on August 9; and the lowest reading of the Terrestrial Radiation Thermometer was $34^{\circ}9$ on August 7.

The Proportions of Wind referred to the cardinal points were N.13, E.23, S.12, W.27, calm or nearly calm conditions 25, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 8.2 lbs. on the square foot on August 28. The mean daily Horizontal Movement of the Air for the month was 211 miles; the greatest daily value was 410 miles on August 21, and the least daily value was 71 miles on August 26.

Rain (0.005 in. or over) fell on 11 days in the month, amounting to 2.862 in., as measured by gauge No. 6 partly sunk below the ground; being 0.518 in. greater than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	TEMPERATURE									Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon				
		Of the Air					Of Evapo- ration	Of the Dew Point	Of Radiation													
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass								
Sept. 1	in.	29.661	72.2	55.0	17.2	61.4	+ 1.6	55.0	49.1	12.3	26.8	5.2	64	132.1	47.0	59.8	0.020	8.9	13.6			
2	29.411	62.2	53.4	8.8	56.5	- 3.2	53.5	50.8	5.7	8.8	1.2	81	116.3	46.1	59.6	0.540	3.9	13.5				
3	29.821	63.9	48.4	15.5	57.0	- 2.6	52.8	48.8	8.2	15.7	2.7	75	113.1	41.3	59.6	0.060	4.9	13.5				
4	29.527	64.0	56.8	7.2	61.1	+ 1.6	58.8	57.1	4.0	6.1	1.6	87	81.9	50.0	59.4	0.345	0.0	13.4				
5	29.444	67.4	51.0	16.4	59.9	+ 0.5	54.0	48.6	11.3	22.4	2.0	66	123.5	40.7	59.3	0.000	9.1	13.3				
6	29.633	65.2	47.3	17.9	55.3	- 3.9	50.5	45.5	9.8	19.4	3.2	70	116.1	37.0	59.1	0.000	5.2	13.3				
7	29.532	56.3	47.5	8.8	51.9	- 7.1	50.5	49.1	2.8	5.9	0.9	90	79.6	40.0	59.0	0.837	0.0	13.2				
8	29.681	61.0	45.4	15.6	51.0	- 7.8	47.3	43.0	8.0	20.2	0.7	74	118.0	37.5	59.0	0.140	7.2	13.1				
9	29.935	61.4	42.7	18.7	51.3	- 7.3	46.1	39.7	11.6	20.8	2.3	65	116.7	35.1	58.8	0.000	10.1	13.1				
10	30.196	62.2	37.5	24.7	49.9	- 8.5	45.1	39.2	10.7	22.9	1.2	66	126.3	27.2	58.6	0.000	8.6	13.0				
11	30.262	63.4	37.7	25.7	51.7	- 6.4	47.1	41.8	9.9	19.7	0.9	69	122.6	25.7	58.2	0.000	10.0	12.9				
12	30.174	65.5	43.7	21.8	55.5	- 2.5	51.4	47.3	8.2	19.8	0.7	74	120.3	29.3	58.0	0.000	9.3	12.9				
13	29.997	67.9	48.8	19.1	57.8	- 0.0	53.7	50.0	7.8	20.3	0.8	75	120.1	33.4	58.0	0.000	7.3	12.8				
14	29.869	74.9	46.6	28.3	60.3	+ 2.6	56.7	53.7	6.6	15.9	0.4	79	126.7	35.9	57.9	0.000	2.4	12.8				
15	29.830	70.4	53.4	17.0	61.6	+ 4.0	58.4	55.9	5.7	12.7	0.9	82	121.7	44.2	57.7	0.000	0.7	12.7				
16	30.070	65.4	49.1	16.3	56.7	- 0.8	52.2	47.9	8.8	16.1	1.4	72	120.5	39.9	57.6	0.000	6.8	12.6				
17	30.210	69.4	46.8	22.6	57.2	- 0.0	53.6	50.3	6.9	17.1	0.9	78	126.6	33.2	57.8	0.000	6.3	12.6				
18	30.142	61.2	49.4	11.8	56.2	- 0.7	53.4	50.9	5.3	10.5	1.0	82	118.0	35.2	57.5	0.000	0.0	12.5				
19	29.943	62.9	54.7	8.2	58.5	+ 2.0	56.4	54.7	3.8	8.9	0.9	87	87.6	50.4	57.5	0.048	0.0	12.4				
20	29.879	66.4	51.6	14.8	57.4	+ 1.2	54.4	51.7	5.7	16.7	1.0	82	95.3	39.2	57.4	0.000	1.6	12.4				
21	29.954	63.1	48.2	14.9	55.6	- 0.3	53.8	52.2	3.4	7.4	0.8	82	98.3	35.8	57.4	0.000	0.9	12.3				
22	29.751	66.1	51.3	14.8	57.5	+ 1.9	55.3	53.5	4.0	9.2	1.0	86	117.1	37.9	57.4	0.030	1.0	12.2				
23	29.747	62.1	51.3	10.8	56.1	+ 0.7	50.9	45.5	10.6	22.8	1.6	68	121.2	48.0	57.4	0.020	5.6	12.2				
24	29.522	55.8	46.3	9.5	51.7	- 3.6	48.8	45.7	6.0	10.2	2.9	80	90.3	43.0	57.1	0.318	1.1	12.1				
25	29.846	59.3	43.7	15.6	53.3	- 1.9	49.7	46.0	7.3	14.3	1.1	76	87.9	35.4	57.1	0.000	0.8	12.0				
26	29.855	62.1	46.4	15.7	56.3	+ 1.1	50.6	44.6	11.7	20.4	1.1	65	117.3	37.5	57.1	0.024	8.3	12.0				
27	29.816	60.3	44.7	15.6	51.2	- 3.9	47.2	42.6	8.6	15.3	3.2	73	117.3	35.8	57.0	0.042	5.1	11.9				
28	30.025	57.1	40.5	16.6	49.6	- 5.3	45.9	41.5	8.1	17.5	0.7	73	96.3	29.3	56.9	0.000	3.4	11.8				
29	29.942	64.1	48.4	15.7	56.6	+ 1.9	53.4	50.5	6.1	11.9	2.4	80	108.2	44.0	56.8	0.006	1.0	11.8				
30	29.955	65.1	50.0	15.1	57.3	+ 2.9	52.2	47.2	10.1	16.8	2.0	69	117.2	46.0	56.6	0.297	4.8	11.7				
Means	29.854	63.9	47.9	16.0	55.8	- 1.5	52.0	48.1	7.6	15.7	1.5	75.7	111.8	38.7	58.0	2.727	4.5	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 29.854 in., being 0.036 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 74°.9 on September 14; the lowest in the month was 37°.5 on September 10; and the range was 37°.4.

The mean of all the highest daily readings in the month was 63°.9, being 2°.3 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 47°.9, being 1°.8 lower than the average for the 65 years, 1841-1905.

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

The mean for the month was 55°.8, being 1°.5 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY			WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					Horizontal Movement of the Air	CLOUDS AND WEATHER				
	Polaris		δ URSAE MINORIS	OSLER'S			Robin-son's							
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot			0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures										
Sept. 1	hours	0.06	hours	0.03	WSW:W	WSW:SW:S	lbs.	lbs.	miles	b	b b c Frcu Cu c Acu Stcu y	c Cicu Acu Stcu bc y	c r	
2	5.5	0.65	5.0	0.59	S:SSW	S:NW	3.6	0.25	320	rr c ir	b c Nbst r R c P	r R Nbst Cu Acu bc c	c	
3	0.0	0.00	0.0	0.00	WNW:W	WSW:SW	8.8	0.65	397	b	b c Acu Cu y	c ir ro	ir o r	
4	7.3	0.85	6.8	0.80	SW	SW	6.6	0.55	377	rr c	c Nbst	do Nbst c rr	bc b	
5	8.5	1.00	8.5	1.00	SW:WSW	W:WSW	12.7	1.10	479	b bc	bc Cu Stcu Nbst po bc y	bc Acu Stcu Cu b y	b	
6	0.0	0.00	0.0	0.00	WSW	SW:Calm	7.4	0.80	445	b w	b Ci Cu c Cist Frcu y	c so-ha c Ast Stcu Cu y	c	
7	5.3	0.62	4.7	0.55	Calm:N	W:Calm	1.3	0.13	206	c rr	rr Nbst	rr Nbst c P	bc	
8	8.5	1.00	8.5	1.00	WSW:WNW	WNW:WSW	1.6	0.05	184	bc c	c Ci Frcu bc b Acu	bc Ci Cicu Cumb pc p dc	b	
9	8.3	0.92	7.7	0.85	W:NW	N:Calm	6.4	0.21	283	b w	b bc Cu Frcu Ci y	bc Ci Cu b y	b bc	
10	9.0	1.00	9.0	1.00	Calm	Calm	1.0	0.08	200	b x	b Frcu y	b Frcu y	b	
11	9.0	1.00	9.0	1.00	Calm:E	E:ESE	0.3	0.02	97	b m b	b m b Cu y	b Cu y	b mo	
12	9.0	1.00	9.0	1.00	E:ESE	ESE:E	1.0	0.05	137	b w mo	b Cu y	b Cu y	b	
13	7.8	0.87	7.7	0.86	Calm:E	ESE:Calm	3.7	0.27	264	b w f m	f m b Ci Cuso-hay	bc Ci Cicu so-ha bc y	bc b c b	
14	1.7	0.19	1.1	0.13	Calm	SW	1.4	0.06	167	b w f w	b c Acu Stcu f c Acu zo	c Cicu Acu c Cu Stcu d c	c	
15	9.0	1.00	9.0	1.00	SSW:SW	SW:WSW	1.0	0.04	114	c	c Acu Ast Frst	c Ci Acu Cu Stcu	bc b	
16	6.3	0.66	6.1	0.64	W:WNW	NW:WNW:W	3.0	0.22	267	b w	b Cu c Stcu y	c Stcu Frcu y	bc b	
17	4.4	0.46	3.8	0.40	Calm	Calm	1.5	0.14	243	b cbwm	b m bc Cu Acu Frcu mo	bc c Stcu Frcu mo	b w	
18	0.4	0.04	0.1	0.01	Calm:E	E	0.2	0.00	87	c w m	c Acu Ast m c Nbst	ro c Cumb ro	c	
19	0.3	0.03	0.0	0.00	Calm	Calm	0.8	0.05	148	c	c St Frst Acu	c Nbst ro r ir	c	
20	6.8	0.72	4.7	0.49	Calm	W	0.0	0.00	82	c m	c St Stcu Acu mo	c bc b t c Acu Cu mo	c b m	
21	4.9	0.51	1.0	0.11	W:Calm	NE:Calm	0.2	0.00	96	b m f w	o ff b m	b Cu mo c m	b c m	
22	0.0	0.00	0.0	0.00	Calm	SW	0.3	0.01	119	c b c m	c St mo	c Acu Cicu c ro	ir ro c	
23	0.9	0.09	0.7	0.07	WNW:N	WNW:W:WSW	1.6	0.10	242	c p c	c bc Ci Cicu Cu y	c Ci Cu Stcu Ast y	c ir ro	
24	2.8	0.28	2.8	0.28	SW:WNW	NW:NNW	14.0	1.51	524	c iro r	ast Nbst ir c q	c Acu Nbst Stcu q	d do q c	
25	0.1	0.01	0.0	0.00	NW:WNW	W	3.0	0.26	317	c b mo	c Acu Cicu Cu brhn	c Cicu Acu Nbst y	c iro	
26	10.2	0.99	10.2	0.99	W:NNW	NW:WNW:W	4.1	0.30	339	c r c	c b Cu Frcu bc y	bc b Stcu y	b	
27	10.0	0.97	9.9	0.96	W:WNW	WNW:NW	6.0	0.36	356	b c	c Stcu Acu y	c r c Stcu Acu Nbst	b	
28	0.7	0.07	0.6	0.06	NW	WNW:WSW	0.7	0.05	194	b m w	b m b Ci brhn bc so-ha	c Frcu Acu Ast bc brhn y	c	
29	0.2	0.02	0.0	0.00	WSW	WSW:W	2.2	0.17	302	c	c iro c Ast	c Cu Cicu Ci Acu	c	
30	1.3	0.12	1.1	0.11	W:N:NNW	NW:N:NNE	0.3	0.04	160	c	c b Acu Ci bc	bc Acu Cu c y	c r o c r R	
Means	4.6	0.50	4.2	0.46	..	..	0.25	243					
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31	

The mean Temperature of Evaporation for the month was 52°.0, being 2°.1 lower than

The mean Temperature of the Dew Point for the month was 48°.1, being 3°.0 lower than

The mean Degree of Humidity for the month was 75.7, being 4.2 less than

The mean Elastic Force of Vapour for the month was 0.337 in., being 0.042 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.2.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.354. The maximum daily amount of Sunshine was 10.1 hours on September 9.

The highest reading of the Solar Radiation Thermometer was 132°.1 on September 1; and the lowest reading of the Terrestrial Radiation Thermometer was 25°.7 on September 11.

The Proportions of Wind referred to the cardinal points were N.12, E.9, S.14, W.40, calm or nearly calm conditions 25, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 14.0 lbs. on the square foot on September 24. The mean daily Horizontal Movement of the Air for the month was 243 miles; the greatest daily value was 524 miles on September 24, and the least daily value was 82 miles on September 19.

Rain (0.005 in. or over) fell on 14 days in the month, amounting to 2.727 in., as measured by gauge No.6 partly sunk below the ground; being 0.579 in. greater than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon	
		Of the Air				Or Evapo- ration	Of the Dew Point	Or Radiation					Or the Earth 4 ft. below the Surface of the Soil						
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass					
Oct. 1	in.	29.948	56.1	44.0	12.1	50.7	- 3.4	46.9	8.2	14.3	1.8	73	104.3	35.0	56.5	0.023	6.0	11.6	
2	30.086	57.6	39.6	18.0	48.0	- 5.7	42.9	35.8	12.2	28.6	3.2	63	107.9	30.5	56.6	0.000	9.6	11.6	
3	29.895	57.3	48.0	9.3	51.2	- 2.1	46.4	40.6	10.6	16.6	4.2	67	109.4	44.5	56.3	0.029	6.5	11.5	
4	29.842	53.3	45.1	8.2	48.0	- 5.0	45.8	43.3	4.7	7.2	2.2	83	104.2	40.2	56.0	0.277	1.7	11.4	
5	30.011	56.3	45.0	11.3	50.2	- 2.6	47.0	43.3	6.9	13.4	1.4	77	100.3	39.0	55.9	0.000	6.0	11.4	
6	30.048	60.4	47.6	12.8	53.1	+ 0.6	49.0	44.7	8.4	19.0	2.4	73	113.4	41.8	55.8	0.000	9.1	11.3	
7	29.828	55.4	47.2	8.2	51.5	- 0.8	49.4	47.2	4.3	5.5	1.5	85	74.9	42.6	55.6	0.000	0.2	11.3	
8	29.842	56.0	43.0	13.0	49.7	- 2.3	48.7	47.7	2.0	5.3	0.0	93	78.0	34.2	55.4	0.015	0.1	11.2	
9	29.807	56.1	48.2	7.9	51.7	+ 0.1	50.4	49.1	2.6	5.2	0.9	91	72.6	44.4	55.3	0.020	0.0	11.1	
10	29.691	58.3	45.7	12.6	51.8	+ 0.5	49.3	46.6	5.2	11.6	0.9	82	99.3	33.3	55.2	0.000	2.2	11.1	
11	29.475	61.0	50.2	10.8	54.3	+ 3.4	52.2	50.2	4.1	8.3	1.6	86	94.1	43.0	55.0	0.240	0.5	11.0	
12	29.418	57.1	45.0	12.1	51.5	+ 0.9	49.8	48.1	3.4	6.1	1.2	88	78.3	36.0	55.0	0.203	0.2	10.9	
13	29.387	57.8	38.5	19.3	49.1	- 1.2	46.9	44.5	4.6	11.6	0.0	84	105.9	28.0	55.0	0.170	5.2	10.9	
14	29.397	59.1	44.7	14.4	52.0	+ 1.9	48.4	44.5	7.5	15.3	1.3	75	103.5	35.0	54.9	0.027	7.7	10.8	
15	29.479	57.6	40.6	17.0	47.8	- 2.1	45.8	43.5	4.3	10.0	0.0	85	91.2	28.6	54.8	0.000	1.4	10.7	
16	29.091	59.6	40.0	19.6	50.1	+ 0.3	48.1	45.9	4.2	11.2	0.0	86	112.5	27.2	54.8	0.535	5.1	10.7	
17	29.196	59.0	46.5	12.5	52.6	+ 3.0	50.8	49.1	3.5	6.3	1.0	87	81.3	41.8	54.4	0.537	0.9	10.6	
18	29.080	57.3	47.9	9.4	52.3	+ 3.0	48.3	43.9	8.4	14.2	2.4	73	105.9	42.3	54.4	0.126	5.1	10.6	
19	29.474	56.0	45.1	10.9	51.6	+ 2.5	47.6	43.0	8.6	15.1	1.9	73	69.1	38.0	54.1	0.000	0.2	10.5	
20	29.342	55.9	45.1	10.8	50.1	+ 1.3	48.9	47.7	2.4	4.8	1.0	91	64.9	38.0	54.0	0.281	0.4	10.4	
21	29.481	58.4	48.7	9.7	52.9	+ 4.3	51.3	49.8	3.1	6.4	1.4	89	97.3	41.1	54.0	0.007	1.3	10.4	
22	29.827	55.9	47.5	8.4	51.2	+ 2.9	49.5	47.8	3.4	7.1	0.8	88	93.2	39.9	54.0	0.000	..	..
23	29.647	52.4	42.4	10.0	47.4	- 0.7	46.2	44.8	2.6	6.2	0.9	91	66.5	37.6	53.8	0.165	0.0	10.2	
24	29.737	52.9	41.6	11.3	47.0	- 0.9	45.0	42.6	4.4	9.6	1.8	85	64.3	36.8	53.6	0.115	0.0	10.2	
25	30.019	52.9	46.6	6.3	49.2	+ 1.5	48.0	46.8	2.4	3.8	0.6	91	70.3	34.8	53.6	0.002	0.1	10.1	
26	29.937	52.0	46.4	5.6	47.5	- 0.1	47.1	46.7	0.8	3.1	0.0	97	59.3	36.8	53.4	0.000	0.0	10.0	
27	29.632	50.4	37.3	13.1	46.9	- 0.6	44.0	40.5	6.4	17.9	0.6	78	90.3	38.7	53.3	0.200	4.5	10.0	
28	29.443	49.4	34.7	14.7	42.5	- 4.9	40.2	36.8	5.7	11.5	0.0	80	89.4	26.1	53.1	0.029	1.9	9.9	
29	29.521	46.7	34.3	12.4	40.4	- 6.9	39.4	38.0	2.4	3.9	0.0	91	60.0	24.9	53.0	0.035	0.3	9.9	
30	29.860	51.5	41.0	10.5	46.1	- 1.1	43.0	39.0	7.1	14.0	3.5	76	90.9	30.0	52.7	0.000	5.1	9.8	
31	29.901	50.0	44.4	5.6	47.3	+ 0.2	45.5	43.4	3.9	7.2	1.4	86	54.4	38.6	52.7	0.045	0.0	9.7	
Means		29.656	55.5	43.9	11.5	49.5	- 0.5	47.2	44.4	5.1	10.3	1.3	82.8	87.3	36.1	54.6	Sum 3.081	2.7	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 29.656 in., being 0.072 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 61°.0 on October 11; the lowest in the month was 34°.3 on October 29; and the range was 28°.7.

The mean of all the highest daily readings in the month was 55°.5, being 1°.5 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 43°.9, being 0°.1 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 11°.5, being 1°.7 less than the average for the 65 years, 1841-1905.

The mean for the month was 49°.5, being 0°.5 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER				
	Polaris		δ URSA MINORIS		OSLER'S			Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Oct. 1	hours	0.89	9.3	0.88	NNE:N	NNW:N	lbs.	lbs.	miles				
2	0.5	0.05	0.4	0.04	N:NNE	NW:WSW	3.0	0.20	295	rr c b	b:c Cu Nbst y	c Cu Nbst	
3	1.5	0.14	1.3	0.13	WSW:W:NW	NNW:NW	2.2	0.10	224	b m o	b m o b y	b y	
4	6.9	0.66	6.8	0.65	NNW:N	NNE	4.0	0.25	338	c p c	c b Frcu Cu c y	c p b Cu Cicu	
5	5.5	0.52	4.1	0.39	NNE:ENE	E:NE	8.3	0.30	329	c	ro ro rr Nbst p	c Acu Stcu Nbst t p c	
							2.5	0.18	285	bc	bc b Acu Cicu c Cu Stcu	c Stcu Acu Frcu b	
6	3.0	0.28	1.8	0.17	NE:ENE	ENE:NE	6.0	0.65	420	b c	b Acu y	b Cicu y	
7	3.9	0.35	1.8	0.16	NE:ENE	E:Calm	3.9	0.32	294	c bc c	c Nbst	c Nbst b m	
8	0.3	0.03	0.2	0.02	Calm	Calm:NE	0.4	0.02	124	bc m o f Fe	o Fe Fe b f c Ast f	c Ast f c	
9	2.5	0.22	1.8	0.17	Calm:NE	Calm:NE	0.2	0.00	127	c	c ido d mo Nbst	ido d Nbst iro mo	
10	1.4	0.13	1.0	0.09	Calm	Calm:SW	0.0	0.00	92	c m o	c Acu bc b Acu Frcu	b c Acu	
11	10.2	0.93	10.0	0.91	SSW	SSW:SW	9.4	0.60	383	c b c	c Frst Nbst ro	ro ro rr Nbst bc	
12	7.3	0.66	7.3	0.66	SW	SW:Calm	2.6	0.18	250	b c	c Nbst iro c r	rr Nbst c	
13	6.1	0.55	5.5	0.50	WSW:SW	SW	8.5	0.68	369	b w	d dc Ci so-ha prha	c Cist Acu Nbst ror ro	
14	11.0	0.96	10.3	0.90	WSW:W	W:WSW	8.7	0.95	414	b c b	b bc Acu Cu Ci y	b c p c	
15	7.9	0.69	7.6	0.66	SW	Calm:SSW	0.1	0.00	154	b m w	b c Stcu Acu Cicu	c Acu bc	
16	5.5	0.48	4.9	0.42	SE:WSW	SW:WSW	6.2	0.40	329	b c	rr c Frst Nbst bc c p	c ir bc Cu Frcu	
17	5.5	0.48	4.4	0.38	W:WSW	SW:WSW	9.0	0.98	450	b c	c Acu Stcu Ci c r	r R r Nbst	
18	7.4	0.64	7.3	0.63	WSW	WSW	7.0	1.23	510	b c	bc Acu Frst po bc	bc Acu Ci Frcu p trhn rr	
19	2.3	0.20	0.0	0.00	W:NW	NW:WSW	5.0	0.67	378	b	c Stcu Nbst ro c	c Stcu	
20	3.8	0.33	2.5	0.21	SW:SSW	SSW:S:SE	7.2	0.42	282	c rr	c Nbst ro r	rr Stcu Nbst c p	
21	2.7	0.22	1.3	0.11	E:NE	NE	0.6	0.05	204	c m o	c St Frst c Cu Acu	bc Nbst c p	
22	0.0	0.00	0.0	0.00	N:NE	NE:Calm	0.3	0.00	131	bc c m w	c m w c Stcu Acu mo	c Stcu Acu mo	
23	4.5	0.37	3.2	0.27	Calm:SW	NNW	2.0	0.10	202	c m	c Nbst ido d mo	rr c bc Stcu Cu mo	
24	3.4	0.28	2.9	0.24	NNW:N:NNE	NE:NNE	3.2	0.35	336	c rr	r c Nbst c Stcu Macu	c Stcu Acu Cu Nbst b	
25	2.5	0.20	0.9	0.08	NNE	NNE:Calm	0.2	0.02	160	c m w	c St Cu mo	c b Ci Acu trhn c m mo	
26	0.0	0.00	0.0	0.00	Calm	Calm:SSW	0.1	0.00	67	c m f F w	o F f	c f c	
27	11.0	0.92	9.6	0.80	SSW:N	NNW:WNW	2.6	0.13	270	c ro rr	c Ast Nbst iro b Frcu	b	
28	8.4	0.67	5.8	0.47	WSW:W	W:Calm	1.4	0.05	191	b x bc c	do r c Stcu Acu mo	c b m o	
29	7.1	0.57	6.9	0.55	Calm:NNE	E:ENE	0.6	0.04	152	b x c m	c Acu Stcu ro r c Nbst	b c p c b	
30	2.4	0.19	2.2	0.18	ENE:NE	NE:NNE	4.3	0.37	346	b c b c d	b c Acu Cu	bc c	
31	0.1	0.01	0.0	0.00	NNE	NNE	2.1	0.31	312	bc c	c Stcu	ir o rr c	
Means	4.6	0.41	3.9	0.34	..	..	..	0.31	272			
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 $47^{\circ}2$, being $0^{\circ}7$ lower than the mean Temperature of the Dew Point for the month was $44^{\circ}4$, being $1^{\circ}2$ lower than the mean Degree of Humidity for the month was 82.8, being 2.1 less than the mean Elastic Force of Vapour for the month was 0.294 in., being 0.014 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.2.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.253. The maximum daily amount of Sunshine was 9.6 hours on October 2.

The highest reading of the Solar Radiation Thermometer was $113^{\circ}4$ on October 6; and the lowest reading of the Terrestrial Radiation Thermometer was $24^{\circ}9$ on October 29.

The Proportions of Wind referred to the cardinal points were N.27, E.16, S.15, W.24, calm or nearly calm conditions 18, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 9.4 lbs. on the square foot on October 11. The mean daily Horizontal Movement of the Air for the month was 272 miles; the greatest daily value was 510 miles on October 18, and the least daily value was 67 miles on October 26.

Rain (0.005 in. or over) fell on 20 days in the month, amounting to 3.081 in., as measured by gauge No.6 partly sunk below the ground; being 0.299 in. greater than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (corrected to 55° Fahrenheit and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun-shine	Sun above Horizon
		Of the Air				Or Evapo-ration	Of the Dew Point	Of Radiation					Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
Nov. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours
	29.872	50.5	40.9	9.6	45.4	- 1.6	43.2	40.3	5.1	12.8	0.7	83	85.4	31.2	52.4	0.000	1.1	9.7
	29.579	48.7	36.4	12.3	42.2	- 4.6	40.5	38.1	4.1	9.3	0.4	85	80.0	26.7	52.2	0.000	1.6	9.6
	29.541	47.6	35.4	12.2	42.3	- 4.3	41.3	40.0	2.3	5.9	0.0	91	49.6	26.7	52.0	0.074	0.0	9.6
	29.667	55.2	41.4	13.8	49.0	+ 2.6	46.0	42.4	6.6	10.7	1.2	78	87.7	34.4	51.9	0.000	6.5	9.5
	29.627	59.4	41.7	17.7	52.2	+ 6.1	49.1	45.8	6.4	13.5	1.3	79	87.8	32.8	51.8	0.628	0.7	9.5
	29.697	53.2	38.1	15.1	45.2	- 0.6	42.6	39.1	6.1	10.3	0.9	80	82.3	29.2	51.8	0.347	3.4	9.4
	29.451	48.4	42.0	6.4	45.8	+ 0.4	42.0	36.4	9.4	15.9	2.0	70	63.3	37.8	51.4	0.062	0.1	9.3
	29.499	42.9	34.8	8.1	39.1	- 5.9	37.8	35.9	3.2	5.3	0.8	88	50.0	29.7	51.2	0.183	0.0	9.3
	29.710	42.8	33.6	9.2	38.5	- 6.1	35.4	30.1	8.4	15.1	2.7	71	73.9	27.8	51.0	0.000	4.2	9.2
	30.124	42.6	32.8	9.8	37.8	- 6.5	34.3	28.2	9.6	13.3	4.8	67	65.5	27.0	50.8	0.000	0.2	9.2
	30.093	41.9	31.2	10.7	38.4	- 5.6	36.6	33.7	4.7	6.6	0.6	83	48.1	24.5	50.5	0.003	0.0	9.1
	29.847	41.4	31.0	10.4	36.8	- 6.9	36.0	34.6	2.2	5.2	0.0	92	45.9	24.3	50.1	0.063	0.0	9.1
	29.459	42.4	36.0	6.4	39.7	- 3.8	38.1	35.9	3.8	8.5	0.9	86	62.3	29.8	49.9	0.015	0.8	9.0
	29.085	42.6	34.8	7.8	38.7	- 4.6	37.3	35.3	3.4	7.6	0.5	87	66.1	28.9	49.8	0.020	1.6	8.9
	29.315	40.1	32.0	8.1	36.9	- 6.2	35.6	33.5	3.4	7.5	0.0	87	50.7	26.7	49.5	0.049	0.0	8.9
	29.718	42.0	32.2	9.8	35.3	- 7.5	34.2	32.3	3.0	8.6	0.0	89	58.9	29.4	49.2	0.002*	1.9	8.8
	29.555	54.8	36.3	18.5	48.6	+ 6.0	47.7	46.8	1.8	4.0	0.0	93	57.0	33.0	49.0	0.775	0.0	8.8
	29.555	56.0	50.7	5.3	53.3	+10.9	51.4	49.6	3.7	6.9	1.0	87	68.3	46.0	49.0	0.106	0.0	8.7
	29.363	56.6	52.0	4.6	53.9	+11.6	51.8	49.8	4.1	5.1	2.4	86	59.6	47.4	49.0	0.080	0.0	8.7
	29.208	56.8	43.0	13.8	51.8	+ 9.6	49.1	46.2	5.6	10.0	2.2	81	70.6	37.5	49.1	0.066	1.7	8.6
	29.952	45.0	34.2	10.8	40.0	- 2.1	37.5	33.5	6.5	12.3	1.1	77	56.9	26.1	49.1	0.015	3.4	8.6
	29.537	58.0	41.0	17.0	52.2	+10.1	50.9	49.6	2.6	4.4	0.6	91	61.7	38.0	49.4	0.279	0.0	8.5
	29.334	58.0	50.5	7.5	55.2	+13.2	53.3	51.6	3.6	7.8	1.5	87	86.1	42.8	49.4	0.476	2.4	8.5
	29.133	55.3	44.6	10.7	51.8	+ 9.8	49.7	47.5	4.3	8.0	2.0	85	76.7	41.0	49.4	0.064	0.3	8.4
	29.190	46.3	38.0	8.3	42.1	+ 0.2	40.1	37.2	4.9	10.1	2.1	83	62.7	32.8	49.3	0.030	3.7	8.4
	29.616	41.7	31.4	10.3	38.0	- 3.8	36.4	34.0	4.0	9.6	1.0	85	55.8	24.9	49.4	0.074	2.0	8.4
	29.907	45.0	35.2	9.8	39.6	- 2.1	38.4	36.7	2.9	6.7	0.0	89	64.6	28.0	49.4	0.000	1.4	8.4
	29.758	54.3	42.6	11.7	49.5	+ 8.0	48.1	46.6	2.9	5.9	2.0	90	59.0	39.0	49.4	0.233	0.1	8.3
	30.005	50.1	38.1	12.0	44.0	+ 2.8	42.1	39.7	4.3	8.8	1.5	85	71.2	30.9	49.0	0.000	6.0	8.3
	30.151	52.0	43.1	8.9	46.4	+ 5.4	44.7	42.6	3.8	6.6	0.5	87	74.6	32.7	49.0	0.001*	2.4	8.2
Means	29.618	49.1	38.5	10.6	44.3	+ 0.8	42.4	39.8	4.6	8.8	1.1	84.1	66.1	32.2	50.1	Sum 3.645	1.5	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 Pyrometric Tables, published by the Meteorological Office, Air Ministry. The mean difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly autographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

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

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

The mean reading of the Barometer for the month was 29.618 in., being 0.147 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 59°.4 on November 5; the lowest in the month was 31°.0 on November 12; and the range was 28°.4.

The mean of all the highest daily readings in the month was 49°.1, being 0°.2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 38°.5, being 0°.1 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 10°.6, being 0°.1 greater than the average for the 65 years, 1841-1905.

The mean for the month was 44°.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 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Nov. 1	4.5	0.36	3.9	0.31	NNE:NE	NNE:N	1bs.	1bs.	miles	c m	c Stcu Cu Acu m c	c Stcu	c b
2	6.3	0.50	5.3	0.42	N:NNNE	NNE:N	0.6	0.08	201	b c m	c Stcu Acu Cu	c Stcu	c b m x
3	5.9	0.47	4.7	0.38	WSW	WSW	1.4	0.10	146	c b c m	c r c rr c Stcu m	c Stcu mo	ro c
4	4.4	0.34	4.2	0.33	WSW:SW	WSW:SW	5.4	0.70	256	b c	b c Acu b bc so-ha	b Acu c	c b c
5	8.1	0.63	7.9	0.62	WSW:SW	SW:NW:WSW	20.8	1.96	424	c q	c Stcu Frst q pale	c Nbst ir ro RR	r c b
6	2.8	0.22	1.8	0.14	WSW	WSW	13.0	0.79	516	b m	bc Acu mo c	c Nbst Ast r c	c q c R
7	3.6	0.28	2.1	0.16	W:WNW	WNW	8.5	1.22	383	c r c	c Acu Frst q y	c Ast q c	c
8	10.7	0.84	8.8	0.69	W:WSW:Calm	Calm:NNW:W	0.7	0.05	507	c b c m	c Ast Nbst ro m	rr g f Nbst bc	bc bmc bx
9	12.7	1.00	12.7	1.00	W:WNW:NW	NNW:NW	4.7	0.53	184	b c	c bc Acu	bc c Acu b Fr cu y	b
10	1.6	0.13	0.3	0.03	NW:NNW	NNW	1.7	0.20	423	b m	c Acu trha so-ha mo	c Acu mo	b c
11	7.7	0.59	0.0	0.00	NNW:Calm	Calm	0.2	0.02	278	c m o	c St lro ff c m	c St b m	b m
12	0.0	0.00	0.0	0.00	Calm	W:Calm	0.4	0.00	107	b c x w f	c Stcu ff	c St f iro m	rr ro
13	8.7	0.67	6.7	0.52	NNE:N:NNW	NW:NNW	1.3	0.13	113	rr o m	c bc c Fr cu Frst mo	c Fr cu mo	c b c m o
14	0.0	0.00	0.0	0.00	W	Calm:ENE	0.7	0.03	255	c b c b w m	c Acu m	c f g c St mo	bc b c iro
15	4.4	0.34	4.4	0.34	ENE	NE:NNE	1.4	0.10	193	rr m o	c Stcu mo	c b m o	b c m
16	2.0	0.15	0.0	0.00	WNW:W	WNW:SSE	0.6	0.03	223	c m w	c St b m	b c m	bc m c
17	0.0	0.00	0.0	0.00	SSE:SSW:SW	SW:WSW	4.9	1.04	184	c rr	rr Nbst	rr	rr
18	1.5	0.12	0.6	0.04	WSW	SW:SSW	4.3	0.57	443	ir	ir c Stcu Ast	c Ast ro c	ir ro
19	0.5	0.04	0.5	0.04	SSW:SW:WSW	WSW:SW	10.5	1.86	367	c ir ro	c Stcu Frst q	c Stcu q c	c ir
20	8.0	0.60	7.5	0.57	SW:WSW	WW:NNE:NNW	7.0	1.02	543	c ir	c Stcu Fr cu	c g rro	po c b
21	2.4	0.18	0.0	0.00	NW:NNW	Calm:SW	2.3	0.11	452	b m	b m mo	b bc Ci mo ff	f c r
22	0.0	0.00	0.0	0.00	SW:W	W:WSW	4.5	0.45	207	rr c	c Stcu r	rr c	rr c
23	3.1	0.23	2.0	0.15	WSW:W	W	5.8	0.51	336	c R r	ir o Nbst c Ci Fr cu	bc Acu c	c b c
24	4.1	0.31	3.1	0.23	SW:W	W:Calm	6.4	0.47	370	c iro	c Nbst Frst ir o	c Frst so-ha c	r c rr c
25	7.9	0.59	6.4	0.48	WNW	W:N	1.5	0.12	273	c b m	b Ci m bc	bc Ci c rr c	c
26	5.2	0.38	4.7	0.35	WNW:W	SW:W	1.0	0.05	244	b m x	b Acu Ci Stcu m	c ro P	b m
27	0.0	0.00	0.0	0.00	N	Calm:SW	2.0	0.05	211	b c m	c St m	c Acu bc Ast Fr cu c m	c
28	10.0	0.74	9.6	0.71	SW	WSW:WNW	10.4	1.25	167	c ir ro	ir ro Nbst ido	c Nbst ido c Acu Fr st	rr c b
29	3.9	0.29	1.6	0.12	W	W:WSW	0.4	0.05	441	b w f	ff b m	b m	c w m
30	2.4	0.18	0.8	0.06	WSW:W	W:WSW	0.7	0.05	204	c w m	c bc Ci b m	bc Acu Ci m	bc c lu-ha
Means	4.4	0.34	3.3	0.26	..	..	..	0.45	295				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean Temperature of Evaporation for the month was $42^{\circ}4$, being $0^{\circ}5$ higher than
 The mean Temperature of the Dew Point for the month was $39^{\circ}8$, being $0^{\circ}1$ higher than
 The mean Degree of Humidity for the month was 84.1 , being 2.5 less than
 The mean Elastic Force of Vapour for the month was 0.246 in., being the same as

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.7 .

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.170 . The maximum daily amount of Sunshine was 8.5 hours on November 4.

The highest reading of the Solar Radiation Thermometer was $87^{\circ}8$ on November 5; and the lowest reading of the Terrestrial Radiation Thermometer was $24^{\circ}3$ on November 12.

The Proportions of Wind referred to the cardinal points were N.18, E.4, S.14, W.51, calm or nearly calm conditions 13, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 20.8 lbs. on the square foot on November 5. The mean daily Horizontal Movement of the Air for the month was 295 miles; the greatest daily value was 543 miles on November 19, and the least daily value was 107 miles on November 11.

Rain (0.005 in. or over) fell on 20 days in the month, amounting to 3.645 in., as measured by gauge No.6 partly sunk below the ground; being 1.425 in. greater than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	BAROMETER Mean of 24 Hourly Values (corrected to 32° Fahrenheit and reduced to in.)	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				Or Evapo-ration	Of the Dew Point	Of Radiation			Of the Earth 4 ft. below the Surface of the Soil							
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least	Highest in Sun's Rays	Lowest on the Grass					
Dec. 1	in.	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours		
2	29. 995	51.1	45.7	5.4	48.8	+ 7.9	46.4	43.7	5.1	7.5	1.6	82	59.0	41.5	48.8	0.000	0.0	8.2
3	29. 708	50.4	39.0	11.4	45.3	+ 4.4	41.8	36.9	8.4	16.5	2.9	72	70.0	32.7	48.7	0.074	3.2	8.2
4	29. 603	54.0	38.2	15.8	47.2	+ 6.1	44.7	41.7	5.5	14.7	2.0	81	54.0	31.9	48.7	0.062	0.0	8.1
5	29. 458	50.0	38.0	12.0	44.8	+ 3.5	40.6	34.3	10.5	13.8	3.7	66	74.1	30.5	48.8	0.000	3.8	8.1
6	29. 470	46.9	37.0	9.9	40.4	- 1.1	38.0	34.3	6.1	11.6	1.6	78	72.0	29.6	48.6	0.000	5.3	8.1
7	29. 317	45.8	32.1	13.7	39.6	- 1.9	38.2	36.2	3.4	8.1	0.0	87	68.8	23.8	48.4	0.020	3.1	8.0
8	28. 957	42.6	34.0	8.6	38.8	- 2.5	37.7	36.0	2.8	5.4	0.7	90	58.0	28.5	48.2	0.087	0.6	8.0
9	28. 939	38.8	32.5	6.3	36.3	- 4.7	34.8	32.3	4.0	6.7	1.2	85	49.7	27.0	47.9	0.067	0.3	8.0
10	29. 325	40.1	31.4	8.7	35.8	- 4.8	34.1	31.1	4.7	8.3	1.0	83	49.6	26.1	47.7	0.000	0.3	7.9
11	29. 196	44.0	32.4	11.6	37.9	- 2.5	36.7	34.8	3.1	5.3	1.3	89	46.2	26.9	47.3	0.115	0.0	7.9
12	28. 944	46.6	36.8	9.8	41.5	+ 1.3	39.5	36.6	4.9	7.8	2.0	83	75.3	28.6	47.2	0.000	3.1	7.9
13	29. 450	43.5	36.5	7.0	40.7	+ 0.4	38.9	36.3	4.4	6.7	2.6	84	45.5	30.5	47.0	0.026	0.0	7.9
14	30. 032	39.0	29.1	9.9	33.3	- 7.2	32.8	31.9	1.4	2.6	0.0	95	41.1	23.0	46.8	0.000	0.0	7.9
15	29. 964	42.2	31.2	11.0	37.0	- 3.7	36.2	34.8	2.2	4.6	0.0	92	50.2	28.3	46.7	0.000	0.0	7.9
16	29. 637	41.1	34.5	6.6	37.9	- 2.9	36.9	35.3	2.6	4.1	0.8	91	52.3	29.5	46.7	0.000	0.0	7.9
17	29. 445	49.3	34.3	15.0	43.6	+ 2.9	42.6	41.3	2.3	3.0	0.9	92	54.0	29.6	46.3	0.015	0.5	7.9
18	29. 197	53.2	46.0	7.2	49.5	+ 9.1	48.2	46.8	2.7	3.9	1.8	90	64.5	40.0	46.7	0.672	0.1	7.9
19	29. 586	51.5	39.8	11.7	46.1	+ 6.1	44.5	42.5	3.6	8.4	0.5	87	79.0	29.4	46.3	0.030	4.9	7.8
20	30. 005	46.2	37.9	8.3	41.6	+ 2.1	41.2	40.7	0.9	2.1	0.0	97	54.8	29.0	46.4	0.009	0.0	7.8
21	30. 244	38.0	32.9	5.1	36.2	- 2.8	36.1	36.0	0.2	1.0	0.0	99	38.2	27.6	46.3	0.007*	0.0	7.8
22	30. 320	46.1	33.2	12.9	41.2	+ 2.5	40.6	39.8	1.4	2.5	0.0	95	50.4	30.3	46.3	0.007	0.0	7.8
23	30. 352	47.0	39.4	7.6	43.2	+ 4.8	43.1	42.9	0.3	1.0	0.0	99	46.4	36.0	46.2	0.153	0.0	7.8
24	30. 483	44.0	36.4	7.6	40.6	+ 2.4	39.8	38.7	1.9	3.9	0.7	93	61.3	31.0	46.2	0.000	0.9	7.8
25	30. 420	40.7	29.5	11.2	35.1	- 3.1	33.9	31.8	3.3	8.6	0.0	88	89.6	23.6	46.1	0.000	5.0	7.8
26	30. 271	30.0	24.5	5.5	27.7	- 10.7	27.6	27.2	0.5	0.8	0.0	99	34.6	16.0	46.0	0.000	0.0	7.8
27	30. 205	31.0	24.2	6.8	27.9	- 10.7	27.8	27.4	0.5	0.8	0.0	99	36.5	18.2	45.7	0.000	0.0	7.9
28	30. 035	30.0	23.1	6.9	26.0	- 12.8	25.8	25.3	0.7	2.1	0.0	97	32.5	22.0	45.4	0.000	0.0	7.9
29	30. 246	35.1	25.9	9.2	30.9	- 8.0	29.9	28.3	2.6	2.7	1.1	88	45.0	17.9	45.1	0.000	0.0	7.9
30	30. 407	28.6	19.9	8.7	25.6	- 13.4	25.3	24.6	1.0	1.3	0.0	96	29.3	17.8	45.0	0.000	0.0	7.9
31	30. 178	39.6	27.0	12.6	32.9	- 6.0	32.3	31.3	1.6	2.7	0.6	93	45.0	23.0	44.7	0.013	0.0	7.9
Means	29. 795	42.7	33.3	9.4	38.3	- 1.6	37.0	35.2	3.1	5.7	0.9	88.9	54.2	27.5	46.8	Sum 1.357	1.1	7.9
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The results apply to the civil day, except Columns 19 to 22 (Record of the Night Sky), which relate to the period extending from dusk on the civil day named, to dawn of the following day.

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

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

* Rainfall (Column 16). The amount entered on December 20 is derived from wet-fog.

The mean reading of the Barometer for the month was 29.795 in., being 0.003 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 54°.0 on December 3; the lowest in the month was 19°.9 on December 29; and the range was 34°.1.

The mean of all the highest daily readings in the month was 42°.7, being 1°.5 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 33°.3, being 2°.2 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 9°.4, being 0°.7 greater than the average for the 65 years, 1841-1905.

The mean for the month was 38°.3, being 1°.6 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1944	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER				
	POLARIS		δ URSE MINORIS		OSLER'S			Robin- son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
					A.M.	P.M.							
Dec. 1	hours	0.06	hours	0.04	WSW	WSW:SW	lbs.	lbs.	miles	c Frst	c Frst Nbst	Ro c	
2	11.1	0.81	9.8	0.71	WSW:W	W	9.3	0.69	399	c ir q	b	b c	
3	..	..	..	..	W:WSW	W:WNW	9.5	0.94	463	c rr m	c ir q	Ro b q
4	13.6	0.99	13.6	0.99	WNW	WNW:W	13.0	1.24	493	m Nbst c ir	bc Frcl Cist b y	b	
5	13.5	0.98	13.5	0.98	WSW:W	W:WSW	8.8	1.46	503	c b bc	bc Frcl Cist b y	b	
							2.5	0.26	324	b mo x	b	b	
6	2.1	0.16	1.3	0.10	WSW	WSW	3.2	0.24	299	b x m	b bc Cist Ci	Ro r c	
7	9.2	0.67	8.5	0.62	WSW	WSW:SW	1.3	0.11	224	c b c r	rr c Cicu St m	iro b	
8	9.5	0.69	9.2	0.67	WSW:WNW	NNW	3.0	0.25	331	b c rs r m	rs c m	c Nbst Ro So	
9	11.2	0.81	8.3	0.60	WNW:NNW	NW:WNW	1.0	0.10	250	b f x	b c f x b Ci m	b bc Frcl mo	
10	7.4	0.54	5.7	0.42	WSW:SW	SSW:WSW	6.3	0.44	332	b x c f	c f m c r	r c	
11	3.6	0.26	2.5	0.18	WSW	WSW:WNW	1.7	0.11	256	c b x m	b Acu Ci m bc brhn	bc c	
12	7.3	0.53	6.9	0.50	WNW:NNW	NNW	3.2	0.23	298	c ir	c St ir g m	c b	
13	2.4	0.18	0.0	0.00	Calm	Calm	0.1	0.00	63	b m	FF	F c m	
14	0.5	0.04	0.3	0.02	Calm:SSE	SSE	1.0	0.05	160	c x m	c mo	c mo	
15	1.5	0.11	0.0	0.00	SSE:Calm	Calm	0.1	0.00	96	c	c Acu f	c	
16	0.7	0.05	0.7	0.05	Calm:S	SSW	7.5	0.17	255	c	c Nbst ro	c	
17	7.8	0.56	7.1	0.51	SSW:SW	SW	20.0	2.30	545	c rr q	rr o c Acu Cicu	c fir c	
18	9.5	0.68	9.1	0.65	SW	SW:S	3.5	0.24	270	c p b	b Acu	b	
19	0.6	0.05	0.0	0.00	S:Calm	Calm	0.0	0.00	98	c iro	c Frst f m	Fe Fe	
20	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	72	Fe Fe	Fe Fe	Fe Fe c id f	
21	0.0	0.00	0.0	0.00	SW:W	Calm	0.3	0.00	118	c id f	o ff	o ff	
22	2.1	0.15	0.0	0.00	Calm:NE	Calm	0.2	0.00	106	rr d f	o dd ff	c f	
23	10.9	0.78	10.6	0.76	Calm:ENE	NE:ENE	0.6	0.02	146	c f	c Frst f m o	c b	
24	14.0	1.00	14.0	1.00	ENE:NE	NE:ENE	0.1	0.00	166	b x f	b x m	b x m	
25	0.0	0.00	0.0	0.00	Calm:N	..	..	..	b x m f	b f F x	ff x	
26	0.0	0.00	0.0	0.00	Calm:NE	Calm	..	..	..	f F x	F f x	ff x
27	6.8	0.49	1.0	0.07	Calm:WSW	W:Calm	..	..	..	ff x	ff x	c x f
28	13.0	0.93	6.2	0.45	Calm:NNE	NE:Calm	..	..	..	b x ff	b m x	b f x
29	3.4	0.24	3.4	0.24	Calm	Calm:WSW	..	..	..	b m x	FF x	F b x f
30	13.3	0.97	9.7	0.71	WSW:W	W:NNW	..	..	192	b x f	c d ff x	bc b f x
31	11.7	0.85	10.7	0.78	N:NNE	NNE	1.0	0.08	242	b x f	bc x f m	b x m	
Means	6.3	0.45	5.1	0.37	..	..	..	0.36†	258*			
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean Temperature of Evaporation for the month was 37°.0, being 1°.5 lower than

The mean Temperature of the Dew Point for the month was 35°.2, being 1°.2 lower than

The mean Degree of Humidity for the month was 88.9, being 1.4 greater than

The mean Elastic Force of Vapour for the month was 0.205 in., being 0.011 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.7.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.135. The maximum daily amount of Sunshine was 5.3 hours on December 5.

The highest reading of the Solar Radiation Thermometer was 89°.6 on December 24; and the lowest reading of the Terrestrial Radiation Thermometer was 16°.0 on December 25.

The Proportions of Wind referred to the cardinal points were N.13, E.5, S.15, W.36, calm or nearly calm conditions 31, 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 December 17. The mean daily Horizontal Movement of the Air for the month was 258 miles; the greatest daily value was 545 miles on December 17, and the least daily value was 63 miles on December 13.

Rain (0.005 in. or over) fell on 14 days in the month, amounting to 1.357 in., as measured by gauge No.6 partly sunk below the ground; being 0.470 in. less than the average fall for the 65 years, 1841-1905.

† Mean of 25 days only, instrument frozen. * Mean of 26 days only, instrument frozen.

the average for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1944.

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., 1944.	Reading	U.T., 1944.	Reading								
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
January		January		June		June		October		October	
1. 13. 15	29.989	3. 18. 45	29.723	3. 7. 30	29.985	1. 12. 30	29.689	2. 9. 45	30.142	1. 3. 30	29.904
2. 9. 0	30.054	5. 9. 50	30.438	10. 1. 0	29.457	7. 21. 20	29.738	7. 2. 0	29.515	4. 11. 0	29.796
11. 0. 45	30.065	11. 19. 20	29.813	12. 20. 50	29.996	13. 12. 15	29.719	8. 9. 15	29.868	11. 16. 10	29.308
12. 19. 55	29.960	13. 15. 0	29.800	15. 8. 5	30.090	16. 8. 40	29.756	13. 8. 0	29.512	14. 0. 0	29.178
15. 10. 05	30.519	19. 21. 45	29.941	17. 20. 40	30.106	19. 16. 20	29.945	14. 23. 30	29.565	16. 14. 50	29.003
20. 11. 0	30.106	23. 3. 20	29.060	21. 9. 0	30.059	22. 17. 50	29.871	17. 9. 30	29.313	17. 16. 15	29.124
24. 5. 20	29.714	24. 22. 35	29.016	24. 2. 0	29.979	27. 2. 5	29.233	18. 1. 20	29.193	18. 18. 20	28.936
28. 22. 30	30.262			29. 7. 25	29.671	29. 23. 0	29.573	19. 22. 0	29.756	20. 20. 45	29.135
February		February		July		July		22. 10. 0	29.860	24. 6. 0	29.566
3. 15. 0	29.542	1. 21. 30	29.730	3. 10. 40	29.491	25. 20. 30	30.061	28. 19. 50	29.393	30. 21. 35	29.962
6. 8. 15	30.367	7. 15. 15	29.840	6. 1. 0	29.717	7. 4. 35	29.461				
9. 2. 45	29.993	9. 23. 55	29.510	8. 21. 20	29.693	9. 17. 30	29.478				
15. 9. 25	30.207	17. 2. 15	29.852	12. 7. 0	29.929	13. 18. 0	29.708				
21. 0. 0	30.350	23. 5. 25	29.987	16. 23. 0	29.989	21. 17. 35	29.543				
24. 10. 30	30.208	27. 14. 20	29.176	24. 9. 45	30.002	27. 4. 50	29.590				
March		March		31. 23. 5	30.074	28. 21. 0	29.814	29. 17. 40	29.621		
8. 9. 0	30.528	11. 15. 20	29.780	August		August		4. 9. 50	29.705	3. 13. 50	29.510
12. 1. 45	29.883	13. 5. 55	29.417	5. 0. 0	30.150	9. 17. 30	29.690	6. 11. 40	29.788	5. 14. 0	29.550
18. 8. 35	30.144	19. 5. 10	29.888	14. 8. 45	30.078	16. 16. 40	29.593	8. 5. 0	29.546	6. 23. 5	29.367
20. 8. 40	30.114	22. 15. 0	29.877	18. 0. 20	29.786	19. 15. 40	29.493	10. 19. 0	30.188	8. 15. 45	29.430
25. 9. 25	30.319	30. 15. 40	29.513	22. 20. 0	29.836	23. 6. 15	29.679	18. 11. 15	29.613	14. 12. 30	29.036
April		April		24. 14. 40	29.905	24. 15. 5	29.813	19. 18. 5	29.413	17. 16. 0	29.466
1. 7. 45	29.954	3. 21. 35	29.199	26. 8. 10	30.116	28. 9. 50	29.631	21. 17. 50	30.046	20. 12. 0	29.016
6. 23. 15	30.025	9. 3. 0	29.507	28. 23. 15	29.752	30. 3. 40	29.455	26. 10. 0	29.695	25. 2. 0	29.070
10. 10. 0	29.910	16. 9. 50	29.268	30. 12. 20	29.549	31. 4. 5	29.412	30. 19. 45	30.041	26. 17. 35	29.582
19. 0. 30	29.986	20. 3. 0	29.746	September		September			30.183	28. 13. 5	29.640
22. 9. 30	30.346	24. 16. 0	30.075	1. 10. 0	29.715	2. 12. 50	29.138				
26. 9. 25	30.444	28. 4. 0	30.170	3. 9. 30	29.926	5. 5. 0	29.360				
28. 20. 30	30.236			6. 9. 20	29.674	7. 7. 15	29.461				
May		May		11. 9. 0	30.291	15. 15. 10	29.783				
3. 22. 15	29.875	3. 2. 15	29.589	17. 9. 30	30.242	20. 3. 40	29.826				
8. 7. 35	30.289	5. 15. 15	29.282	21. 9. 15	29.998	23. 0. 0	29.662	3. 2. 25	29.805	2. 4. 10	29.640
14. 23. 10	30.257	13. 13. 20	29.747	23. 10. 55	29.793	24. 5. 25	29.320	5. 9. 30	29.511	3. 22. 40	29.378
24. 7. 15	30.137	20. 17. 15	29.660	25. 9. 10	29.916	26. 1. 50	29.725	10. 2. 20	29.471	7. 21. 35	28.786
27. 10. 30	30.211	25. 17. 55	29.992	26. 11. 35	29.921	27. 15. 10	29.753	13. 19. 0	30.095	10. 18. 25	28.867
				30. 9. 40	30.002	29. 17. 0	29.890	23. 19. 20	30.497	17. 5. 0	29.059
								29. 9. 15	30.464	27. 14. 0	29.975
									30. 16. 10	30. 16. 10	30. 12. 0

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 1944

	January	February	March	April	May	June	July	August	September	October	November	December
HIGHEST	in. 30.519	in. 30.367	in. 30.528	in. 30.444	in. 30.289	in. 30.106	in. 30.074	in. 30.150	in. 30.291	in. 30.142	in. 30.188	in. 30.497
LOWEST	29.016	29.176	29.417	29.199	29.282	29.233	29.461	29.412	29.138	28.936	29.016	28.786
RANGE	1.503	1.191	1.111	1.245	1.007	0.873	0.613	0.738	1.153	1.206	1.172	1.711

The highest reading in the year was 30.528 ins. on Mar. 8. The lowest reading in the year was 28.786 ins. on Dec. 7. The range of reading in the year was 1.742 ins.

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TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1944

MONTH 1944	Mean Reading of the Barometer	TEMPERATURE OF THE AIR								Mean Temperature of Evaporation	Mean Temperature of the Dew Point	Mean Degree of Humidity (Saturation = 100)
		Highest	Lowest	Range in the Month	Mean of all the Highest	Mean of all the Lowest	Mean of the Daily Ranges	Monthly Mean	Excess of Mean above the Average of 65 Years			
January	in.	o	o	o	o	o	o	o	o	o	o	82.1
February	29.995	55.6	26.2	29.4	48.8	39.1	9.8	44.1	+5.5	41.9	38.9	
March	29.932	55.6	24.3	31.3	43.0	33.9	9.1	38.5	-1.1	35.9	31.7	75.8
April	29.961	68.4	22.7	45.7	49.2	33.8	15.4	41.4	-0.5	37.9	32.4	69.9
May	29.875	72.3	33.1	39.2	59.9	43.0	16.9	51.1	+3.8	47.0	42.2	72.2
June	29.957	89.3	29.8	59.5	65.7	43.1	22.6	54.2	+1.1	48.4	41.9	63.6
July	29.767	76.0	41.3	34.7	67.5	49.5	18.0	58.1	-1.3	52.4	46.7	66.6
August	29.749	81.0	47.7	33.3	72.1	55.7	16.5	63.0	+0.3	58.3	54.5	74.2
September	29.838	88.0	51.6	36.4	76.3	56.8	19.5	65.0	+3.4	59.7	55.6	72.3
October	29.854	74.9	37.5	37.4	63.9	47.9	16.0	55.8	-1.5	52.0	48.1	75.7
November	29.656	61.0	34.3	26.7	55.5	43.9	11.5	49.5	-0.5	47.2	44.4	82.8
December	29.618	59.4	31.0	28.4	49.1	38.5	10.6	44.3	+0.8	42.4	39.8	84.1
	29.795	54.0	19.9	34.1	42.7	33.3	9.4	38.3	-1.6	37.0	35.2	88.9
Means	29.833	89.3	19.9	69.4	57.8	43.2	14.6	50.3	+0.7	46.7	42.6	75.7

MONTH 1944	Mean Elastic Force of Vapour	Mean Tempera- ture of the Earth 4 feet below the Surface of the Soil	Mean Amount of Cloud (0-10)	RAIN		WIND								From Robin- son's Anemo- meter		
				Number of Rainy Days (0.005 in. or over)	Amount collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	From Osler's Anemometer										
						Number of 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	Mean Daily Horizontal Move- ment of the Air	miles	lbs.	lbs.	miles		
January	in.	o	o	11	in.	h	h	h	h	h	h	h	1bs.	..	..
February	0.237	45.1	7.9	11	1.404	18	17	-	6	33	337	216	32	85	0.56	345
March	0.178	44.5	7.8	13	0.773	134	181	25	5	43	87	58	74	89	0.42	312
April	0.183	42.7	6.5	6	0.108	96	98	17	8	3	126	92	129	175	0.19	229
May	0.270	46.3	6.9	13	1.510	80	48	69	38	70	131	92	66	126	0.17	222
June	0.267	50.1	5.1	7	0.614	99	120	39	14	22	129	59	40	222	0.29	233
July	0.320	53.7	7.1	12	1.516	92	90	-	1	40	206	160	92	39	0.45	317
August	0.427	57.0	7.7	15	1.473	37	48	60	48	32	197	138	55	129	0.21	221
September	0.445	59.3	6.0	11	2.862	38	88	113	26	10	139	118	25	187	0.14	211
October	0.337	58.0	6.2	14	2.727	31	12	53	18	15	147	162	104	178	0.25	243
November	0.294	54.6	7.2	20	3.081	102	152	40	8	33	146	81	49	133	0.31	272
December	0.246	50.1	7.7	20	3.645	73	38	9	2	11	186	236	74	91	0.45	295
	0.205	46.8	6.7	14	1.357	41	49	7	12	41	133	174	58	229	0.36	258
Sums	..	..	..	156	21.070	841	941	432	186	353	1964	1586	798	1683	..	..
Means	0.284	50.7	6.9	..	..	..	..	..	..	..	..	..	..	0.32	263	

The greatest recorded pressure of the wind on the square foot in the year was 20.8 lbs. on Nov. 5.

The greatest recorded Daily Horizontal Movement of the Air in the year was 677 miles on Jan. 22.

The least recorded Daily Horizontal Movement of the Air in the year was 61 miles on Jan. 16.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1944.

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means	
0 ^h	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	29.997	29.958	29.960	29.877	29.971	29.775	29.754	29.860	29.855	29.663	29.626	29.797	29.841	
2	29.995	29.954	29.958	29.873	29.968	29.772	29.751	29.855	29.851	29.663	29.621	29.794	29.838	
3	29.996	29.948	29.953	29.870	29.964	29.767	29.746	29.848	29.846	29.660	29.617	29.796	29.834	
4	29.997	29.941	29.948	29.870	29.962	29.765	29.742	29.842	29.840	29.653	29.612	29.793	29.830	
5	29.994	29.935	29.946	29.867	29.961	29.766	29.742	29.837	29.838	29.651	29.605	29.788	29.827	
6	29.995	29.930	29.951	29.877	29.970	29.774	29.748	29.839	29.849	29.651	29.599	29.787	29.831	
7	29.999	29.933	29.958	29.883	29.976	29.777	29.751	29.844	29.858	29.659	29.602	29.790	29.836	
8	30.006	29.938	29.965	29.886	29.978	29.778	29.754	29.847	29.864	29.667	29.611	29.799	29.841	
9	30.014	29.940	29.971	29.889	29.976	29.777	29.755	29.848	29.868	29.669	29.616	29.807	29.844	
10	30.021	29.942	29.973	29.890	29.972	29.774	29.756	29.845	29.867	29.670	29.621	29.809	29.845	
11	30.018	29.942	29.974	29.886	29.964	29.771	29.755	29.842	29.862	29.665	29.619	29.805	29.842	
12	30.004	29.932	29.970	29.880	29.957	29.765	29.751	29.837	29.855	29.659	29.613	29.792	29.835	
13	29.991	29.921	29.962	29.878	29.950	29.761	29.747	29.833	29.849	29.652	29.609	29.785	29.828	
14	29.982	29.911	29.955	29.870	29.943	29.757	29.745	29.827	29.847	29.646	29.607	29.782	29.823	
15	29.978	29.907	29.949	29.862	29.937	29.754	29.742	29.820	29.844	29.642	29.611	29.785	29.819	
16	29.979	29.907	29.946	29.858	29.933	29.751	29.738	29.818	29.842	29.638	29.616	29.787	29.818	
17	29.979	29.912	29.948	29.859	29.931	29.749	29.736	29.818	29.846	29.642	29.621	29.789	29.819	
18	29.981	29.920	29.957	29.862	29.931	29.752	29.737	29.820	29.849	29.647	29.630	29.794	29.823	
19	29.984	29.928	29.965	29.869	29.938	29.758	29.743	29.828	29.859	29.653	29.633	29.799	29.830	
20	29.988	29.931	29.970	29.878	29.949	29.764	29.752	29.839	29.866	29.659	29.635	29.804	29.836	
21	29.990	29.935	29.975	29.880	29.958	29.775	29.762	29.844	29.869	29.664	29.637	29.805	29.841	
22	29.993	29.935	29.979	29.881	29.961	29.776	29.767	29.846	29.870	29.664	29.636	29.805	29.843	
23	29.997	29.934	29.978	29.882	29.963	29.775	29.767	29.845	29.868	29.665	29.636	29.807	29.843	
24	29.998	29.933	29.976	29.882	29.962	29.773	29.766	29.844	29.866	29.663	29.635	29.804	29.842	
Means {	0 ^h -23 ^h	29.995	29.932	29.961	29.875	29.957	29.767	29.749	29.838	29.854	29.656	29.618	29.795	29.833
	1 ^h -24 ^h	29.995	29.931	29.961	29.875	29.957	29.767	29.750	29.838	29.855	29.656	29.619	29.795	29.833
No. of Days Employed	31	29	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	o	o	o	o	o	o	o	o	o	o	o	o	o	
1	43.6	37.3	37.9	46.9	48.2	53.5	58.6	60.0	52.5	47.0	42.6	37.2	47.1	
2	43.3	36.9	37.4	46.3	46.9	52.6	58.2	59.3	52.2	46.6	42.4	36.9	46.6	
3	43.1	36.6	36.9	45.8	45.8	52.0	57.3	58.7	51.7	46.5	42.3	36.5	46.1	
4	42.7	36.4	36.4	45.2	44.8	51.4	57.0	58.4	51.3	46.3	42.1	36.1	45.7	
5	42.4	36.1	35.9	44.7	44.2	50.6	56.7	57.9	50.8	46.2	42.2	35.8	45.3	
6	42.2	36.3	36.1	44.5	44.4	50.9	56.9	58.0	50.6	46.3	42.4	36.1	45.4	
7	42.1	36.3	36.4	45.0	46.1	52.5	58.5	58.4	50.4	46.6	42.6	36.5	45.9	
8	42.1	36.3	37.0	46.5	49.6	54.7	59.9	60.4	51.3	47.0	42.8	36.7	47.0	
9	42.5	36.4	38.4	48.8	53.3	56.7	61.8	62.9	53.7	48.4	43.3	37.1	48.6	
10	42.9	37.4	40.7	51.6	56.4	58.8	64.0	66.0	56.5	50.2	44.3	37.7	50.5	
11	43.9	38.7	43.0	53.6	58.9	60.7	65.9	68.7	58.7	51.9	45.5	39.0	52.4	
12	44.9	40.0	44.3	55.7	60.8	62.4	67.4	70.6	60.4	52.9	46.6	40.0	53.8	
13	45.8	40.9	45.6	56.6	61.9	64.1	68.4	71.5	61.7	53.5	47.7	40.9	54.9	
14	46.4	41.6	47.1	57.6	62.9	64.7	68.5	72.9	62.3	53.8	48.2	41.3	55.6	
15	46.7	42.0	47.8	58.2	63.8	65.2	69.2	73.4	62.2	53.8	48.0	41.5	56.0	
16	46.3	41.6	48.0	58.2	63.8	65.1	69.2	73.2	62.0	53.7	47.3	41.2	55.8	
17	45.8	41.1	47.8	57.8	62.9	64.5	68.8	72.5	61.4	53.1	46.5	40.5	55.2	
18	45.3	40.4	46.9	56.7	61.6	63.5	68.1	71.2	59.8	52.0	45.5	39.8	54.2	
19	45.0	39.8	45.5	55.4	59.8	62.5	67.1	69.5	58.1	50.8	44.8	39.3	53.1	
20	44.6	38.5	42.1	51.5	54.7	58.8	63.7	64.6	55.0	49.0	43.7	38.3	50.4	
21	44.3	38.2	40.8	49.9	52.6	57.1	62.0	63.1	54.1	48.3	43.3	37.7	49.3	
22	44.1	37.8	39.5	48.8	50.8	55.9	60.7	61.8	53.5	47.9	43.2	37.5	48.5	
23	43.7	37.3	38.6	48.0	49.2	54.7	59.6	60.7	52.9	47.3	43.0	37.1	47.7	
24	43.5	37.1	37.9	47.5	48.1	53.5	58.8	59.8	52.3	46.9	42.6	36.7	47.1	
Means {	0 ^h -23 ^h	44.1	38.5	41.4	51.1	54.2	58.1	63.0	65.0	55.8	49.5	44.3	38.3	50.3
	1 ^h -24 ^h	44.1	38.5	41.4	51.1	54.2	58.1	63.0	65.0	55.8	49.5	44.3	38.3	50.3
No. of Days Employed	31	29	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	o	o	o	o	o	o	o	o	o	o	o	o	o	
1	41.7	35.4	35.8	44.7	45.5	50.5	56.1	57.7	50.7	45.6	41.3	36.2	45.1	
2	41.5	35.1	35.6	44.2	44.6	50.0	55.6	57.2	50.6	45.3	41.2	36.0	44.7	
3	41.3	35.0	35.3	44.0	43.9	49.6	55.4	57.0	50.3	45.3	41.1	35.6	44.5	
4	41.0	34.6	35.0	43.6	43.2	49.3	55.3	56.8	50.0	45.2	41.1	35.4	44.2	
5	40.9	34.5	34.7	43.3	42.8	48.8	55.2	56.5	49.6	45.2	41.0	35.2	44.0	
6	40.7	34.4	34.6	43.1	42.7	48.8	55.1	56.1	49.0	45.3	41.2	35.3	43.9	
7	40.4	34.3	34.8	43.1	43.8	49.8	55.9	56.4	48.6	45.2	41.3	35.5	44.1	
8	40.3	34.2	35.3	44.3	46.0	50.9	57.0	57.8	49.2	45.6	41.4	35.7	44.8	
9	40.4	34.4	36.3	45.7	48.0	51.7	57.9	59.1	51.0	46.4	41.6	36.0	45.7	
10	40.7	35.2	38.0	47.3	49.5	52.8	58.9	60.6	52.6	47.8	42.4	36.6	46.9	
11	41.4	36.0	39.2	48.4	50.8	53.6	59.9	61.6	53.6	48.7	43.3	37.7	47.9	
12	42.1	36.7	39.9	49.5	51.6	54.2	60.4	62.1	54.1	49.2	43.9	38.5	48.5	
13	42.7	37.2	40.4	50.0	52.1	54.8	60.7	62.4	54.5	49.5	44.3	39.0	49.0	
14	43.2	37.6	41.2	50.5	52.6	54.8	60.7	62.8	54.7	49.6	44.5	39.4	49.3	
15	43.4	37.9	41.6	50.8	53.1	55.3	61.0	62.8	54.8	49.7	44.5	39.5	49.5	
16	43.3	37.8	41.5	50.7	53.2	55.4	60.9	62.7	54.9	49.6	44.2	39.3	49.5	
17	43.0	37.5	41.3	50.5	52.8	55.0	61.0	62.5	54.5	49.2	43.7	38.8	49.1	
18	42.8	37.2	40.9	50.1	52.5	54.8	60.6	62.2	53.9	48.5	43.1	38.2	48.7	
19	42.7	36.7	40.3	49.4	51.7	54.5	60.2	61.7	53.2	48.0	42.6	37.9	48.2	
20	42.8	36.3	39.3	48.2	50.5	53.8	59.5	60.7	52.4	47.4	42.2	37.4	47.5	
21	42.5	36.0	38.3	47.5	49.5	53.3	58.6	59.6	51.8	46.9	42.0	37.0	46.9	
22	42.4	35.9	37.6	46.8	48.4	52.7	58.0	59.3	51.5	46.5	41.8	36.5	46.5	
23	42.2	35.6	36.8	46.1	47.3	51.8	57.3	58.6	51.1	46.1	41.7	36.2	45.9	
24	41.9	35.4	36.2	45.6	46.3	51.1	56.8	57.9	50.8	45.8	41.6	36.0	45.5	
Means {	0 ^h -23 ^h	41.9	35.9	37.9	47.0	48.4	52.4	58.3	59.7	52.0	47.2	42.4	37.0	46.7
	1 ^h -24 ^h	41.9	35.9	37.9	47.0	48.4	52.4	58.3	59.7	52.0	47.2	42.4	37.0	46.7
No. of Days Employed	31	29	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	o	o	o	o	o	o	o	o	o	o	o	o	o	
1	39.2	32.2	32.3	42.1	42.3	47.4	54.1	55.9	48.9	43.9	39.5	34.5	42.7	
2	39.0	32.1	32.7	41.6	41.9	47.3	53.4	55.6	49.0	43.7	39.6	34.4	42.5	
3	38.8	32.3	32.7	41.7	41.5	47.1	53.8	55.7	48.8	43.8	39.5	34.0	42.5	
4	38.6	31.5	32.7	41.5	41.1	47.1	53.9	55.5	48.7	43.8	39.8	34.1	42.4	
5	38.8	31.8	32.6	41.5	41.1	46.9	54.0	55.3	48.4	43.9	39.4	34.1	42.3	
6	38.6	31.1	32.1	41.3	40.5	46.5	53.6	54.5	47.3	44.1	39.6	33.9	41.9	
7	38.0	30.8	32.1	40.6	40.9	47.0	53.7	54.8	46.7	43.5	39.5	33.7	41.8	
8	37.8	30.5	32.5	41.6	41.7	47.1	54.2	55.7	47.0	43.9	39.5	33.9	42.1	
9	37.4	30.9	32.9	41.9	41.9	46.7	54.8	56.2	48.4	44.2	39.3	34.1	42.4	
10	37.4	31.4	33.7	42.4	41.8	47.1	54.9	56.5	48.8	45.2	39.9	34.8	42.8	
11	38.0	31.5	33.4	42.5	41.9	46.7	55.3	56.5	48.8	45.3	40.5	35.8	43.0	
12	38.2	31.3	33.1	42.7	41.7	46.3	55.1	55.9	48.3	45.3	40.6	36.4	42.9	
13	38.6	31.2	32.4	42.8	41.6	45.9	54.9	55.9	47.7	45.3	40.0	36.3	42.7	
14	39.1	31.1	32.4	42.8	41.7	45.2	54.9	55.4	47.7	45.2	39.8	36.7	42.7	
15	39.2	31.3	32.3	42.8	41.8	45.9	54.8	55.0	48.0	45.4	40.0	36.6	42.8	
16	39.5	31.7	31.6	42.6	42.1	46.2	54.6	54.9	48.3	45.3	40.4	36.6	42.8	
17	39.5	31.8	31.4	42.5	42.2	45.9	55.2	55.1	48.0	45.1	40.2	36.4	42.8	
18	39.5	32.0	31.8	42.9	42.9	46.6	55.0	55.7	48.5	44.8	40.0	36.0	43.0	
19	39.6	31.5	32.3	42.8	43.2	47.0	55.0	56.0	48.6	45.0	39.7	35.9	43.1	
20	39.8	31.7	32.1	42.4	43.2	47.3	55.0	56.1	48.6	44.8	39.8	35.5	43.0	
21	39.7	31.8	32.3	42.9	43.9	48.0	54.5	55.8	48.7	44.6	39.8	35.0	43.1	
22	39.9	32.0	32.4	43.1	43.8	48.5	54.9	56.4	49.0	44.5	39.8	34.6	43.2	
23	39.7	31.9	32.3	43.0	43.3	47.7	54.5	56.1	48.8	44.1	39.7	34.1	42.9	
24	39.5	32.2	32.2	42.9	42.9	47.5	54.5	55.7	48.8	44.1	39.7	34.1	42.8	
Means {	0 ^h -23 ^h	38.9	31.6	32.4	42.3	42.1	46.9	54.5	55.7	48.3	44.5	39.8	35.1	42.7
	1 ^h -24 ^h	38.9	31.5	32.4	42.3	42.1	46.9	54.5	55.7	48.3	44.5	39.8	35.0	42.7

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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	84	82	80	83	80	80	85	87	87	89	89	91	85
1	85	82	83	84	82	82	84	87	89	90	90	91	86
2	85	84	84	86	85	83	88	89	90	91	90	91	87
3	86	82	86	87	87	85	89	90	91	91	91	93	88
4	87	84	88	88	88	87	91	91	91	92	90	94	89
5	87	81	85	88	86	85	88	89	88	92	90	92	88
6	85	80	84	85	82	82	84	88	87	89	89	90	85
7	84	79	83	83	74	75	83	85	85	89	88	90	83
8	82	80	80	77	65	69	77	78	82	85	86	90	79
9	81	79	76	70	58	64	73	72	76	83	85	90	76
10	79	75	69	66	53	60	69	65	70	78	83	88	71
11	77	70	65	62	49	55	65	60	64	75	79	86	67
12	76	68	60	60	47	52	62	57	60	74	74	83	64
13	75	66	56	58	45	49	61	54	58	73	73	83	63
14	75	65	55	56	44	50	61	53	59	73	74	83	62
15	77	68	53	56	45	51	60	53	61	73	76	83	63
16	78	69	52	57	46	51	61	55	61	74	78	85	64
17	80	71	55	60	50	54	63	58	66	76	81	86	67
18	82	72	59	62	54	57	65	62	71	80	82	87	69
19	83	75	64	67	59	61	70	68	76	83	85	88	73
20	83	76	68	73	67	68	72	73	79	85	86	88	77
21	85	78	72	78	72	73	77	79	83	86	87	89	80
22	85	79	76	80	75	74	80	82	84	86	87	88	81
23	85	81	77	82	79	76	83	83	86	88	88	90	83
24	85	81	80	82	80	80	85	86	88	89	89	90	85
Means	{ 0 ^h -23 ^h	82	76	71	73	66	68	75	73	77	83	84	88
	{ 1 ^h -24 ^h	82	76	71	73	66	68	75	73	77	83	84	88

TABLE XXV. - TOTAL AMOUNT OF SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN EACH MONTH,
AS DERIVED FROM THE RECORDS OF THE CAMPBELL-STOKES SELF-REGISTERING INSTRUMENT
FOR THE YEAR 1944

MONTH 1944	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	Noon	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h							
January	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	41.0	260.1	0.158	18	
February	-	-	-	-	0.6	4.1	7.7	8.7	8.9	6.6	3.9	0.5	-	-	-	-	-	-	51.3	288.5	0.178	26	
March	-	-	0.4	2.1	8.0	11.9	10.0	13.0	13.2	13.0	10.9	8.6	3.3	0.2	-	-	-	-	94.6	368.5	0.257	37	
April	-	1.1	6.3	10.1	10.7	9.8	13.6	12.9	13.0	11.7	12.3	12.3	9.7	8.4	1.4	-	-	-	133.3	416.1	0.320	48	
May	-	6.9	17.2	19.7	19.8	19.2	18.9	18.4	17.6	19.7	19.7	17.9	17.1	13.9	4.7	0.2	-	-	230.9	484.2	0.477	57	
June	1.2	7.5	12.1	14.4	12.7	12.3	12.4	14.2	12.4	14.5	13.8	14.0	11.4	13.1	10.6	4.2	-	-	180.8	496.5	0.364	62	
July	0.8	3.3	7.7	7.7	7.5	10.8	11.5	11.7	9.1	10.7	11.3	11.7	10.7	10.3	3.4	0.3	-	-	128.5	499.4	0.257	60	
August	-	2.9	8.1	10.7	14.2	17.6	18.1	17.7	17.7	20.5	18.4	17.5	13.8	13.4	5.4	-	-	-	196.0	451.7	0.434	52	
September	-	0.2	5.0	11.8	15.4	15.9	16.8	14.2	13.3	11.3	10.8	9.7	7.3	2.4	0.1	-	-	-	134.2	379.6	0.354	41	
*October	-	-	-	4.6	9.5	9.9	10.8	10.4	9.5	8.2	6.8	7.6	4.0	-	-	-	-	-	81.3	320.8	0.253	30	
November	-	-	-	-	2.6	6.0	7.4	7.6	10.4	6.0	4.6	0.9	-	-	-	-	-	-	45.5	266.9	0.170	20	
December	-	-	-	-	-	3.9	7.5	7.8	5.8	5.4	2.8	-	-	-	-	-	-	-	33.2	245.6	0.135	16	
For the Year	2.0	21.9	56.8	81.1	104.9	129.1	144.4	146.2	138.6	132.9	119.2	103.8	77.7	61.7	25.6	4.7	1350.6	4477.9	0.302	..			

* Register lost on October 22.
The hours are reckoned from "Apparent" midnight.

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
JANUARY																					
1	49.4	42.0	44.9	48.4	49.0	46.2	42.4	44.8	45.6	43.0	1	43.0	35.0	40.9	42.6	40.9	35.3	39.2	38.0	35.1	31.8
2	49.5	44.0	47.2	49.5	49.3	46.6	43.2	44.1	44.3	43.8	2	41.9	33.0	35.6	38.0	41.4	34.8	31.6	32.5	34.2	31.2
3	50.8	44.8	48.2	48.3	50.5	44.8	44.9	46.0	47.5	43.4	3	42.4	28.3	35.5	40.5	41.8	34.0	31.7	33.1	34.2	30.4
4	44.8	36.0	38.0	40.6	40.6	36.0	34.2	35.5	35.9	34.2	4	39.5	27.1	31.0	38.0	38.5	32.8	29.1	32.2	32.2	29.2
5	40.1	28.4	32.0	38.1	39.6	39.8	30.6	34.1	35.8	36.8	5	41.1	30.5	33.6	39.5	40.2	35.0	32.2	34.3	35.0	31.8
6	47.4	39.8	45.3	46.6	47.4	45.4	40.6	41.9	42.9	42.0	6	43.3	22.7	32.8	39.6	43.0	33.0	30.7	34.7	36.3	31.3
7	48.6	41.9	44.5	47.1	47.6	43.8	41.8	43.1	43.2	42.0	7	45.8	31.4	36.6	38.6	44.8	36.0	35.1	36.3	37.5	33.8
8	47.9	41.3	44.6	46.9	47.4	47.9	42.6	43.4	44.0	44.7	8	49.2	32.4	37.0	46.5	44.4	38.0	35.5	40.1	39.7	36.0
9	51.6	47.4	49.4	50.8	51.6	50.0	46.9	48.5	49.0	48.4	9	43.0	35.2	37.0	40.4	42.8	35.2	35.0	37.7	39.3	34.0
10	51.6	31.5	38.6	39.4	38.6	31.5	36.7	36.2	34.6	30.0	10	47.0	29.5	40.5	43.7	46.9	39.8	38.6	41.6	43.9	38.0
11	44.4	26.2	33.6	35.6	38.3	44.4	31.8	33.7	37.6	44.1	11	49.7	36.7	44.2	47.6	49.7	44.6	40.7	43.0	44.7	40.5
12	50.4	42.3	46.1	47.4	49.2	50.4	45.0	46.0	47.7	48.9	12	54.7	40.0	44.2	46.6	52.3	47.3	43.2	44.3	47.8	43.5
13	52.9	50.4	52.2	52.2	51.1	52.8	49.7	49.8	49.7	51.4	13	49.3	40.2	47.2	45.9	48.4	40.2	42.0	39.9	38.6	35.8
14	53.2	34.8	35.6	46.3	47.6	36.5	34.9	41.2	43.1	35.5	14	43.2	35.9	40.6	41.5	42.6	39.6	36.3	37.5	38.5	36.6
15	37.5	27.7	31.6	34.2	37.0	31.0	31.6	34.0	36.8	31.0	15	47.0	29.7	37.6	43.2	46.6	36.5	32.8	36.5	38.3	33.0
16	45.5	29.0	30.8	41.1	35.5	33.2	30.8	38.7	34.7	32.7	16	46.4	29.8	42.0	44.4	46.2	42.4	39.5	41.9	41.7	39.8
17	47.0	31.4	37.9	43.8	46.0	47.0	37.6	42.7	44.4	46.0	17	50.6	36.7	41.1	43.9	50.0	40.8	40.2	42.2	46.0	39.3
18	48.5	47.0	47.6	48.5	47.7	47.0	46.7	47.1	46.6	46.5	18	54.0	36.6	45.7	52.1	51.0	46.7	42.2	45.9	44.9	42.2
19	49.1	42.4	47.3	49.1	48.8	48.5	46.1	47.2	46.8	48.1	19	52.3	43.5	47.0	50.0	50.8	43.5	45.5	43.5	43.3	39.0
20	49.1	37.6	38.7	42.0	43.1	38.0	38.0	39.7	39.5	37.4	20	49.4	37.5	43.9	47.4	47.9	48.2	40.2	41.7	42.2	44.6
21	49.6	37.5	41.0	47.5	47.6	44.0	38.8	43.2	43.2	41.5	21	48.2	41.6	43.4	44.6	44.0	41.8	40.6	40.7	40.0	40.0
22	51.0	43.3	50.1	50.8	49.4	49.0	46.6	46.8	47.6	47.6	22	47.9	34.0	41.0	45.2	46.2	39.4	36.5	38.7	38.8	36.1
23	50.0	38.6	44.0	43.8	44.2	40.8	39.9	38.8	40.0	38.8	23	53.0	33.0	42.5	47.9	51.6	41.4	37.8	40.9	43.3	38.0
24	49.1	34.6	38.0	45.6	44.2	48.0	36.5	42.8	43.0	45.0	24	56.3	34.2	43.1	54.4	54.6	43.4	39.7	46.2	46.8	41.4
25	48.6	42.3	43.0	45.2	45.9	42.3	39.7	40.3	40.6	37.1	25	61.2	34.2	45.0	58.3	61.0	45.6	42.7	50.3	52.8	42.3
26	52.6	36.8	40.5	42.2	46.0	52.6	38.3	41.0	45.2	50.2	26	68.4	38.7	50.6	61.4	67.6	56.0	44.1	48.5	53.2	47.2
27	55.6	48.7	53.4	54.0	55.6	50.6	50.9	52.0	51.7	48.4	27	56.0	34.6	43.0	53.1	54.2	43.2	42.3	48.6	49.3	42.0
28	52.6	49.2	51.5	52.6	52.3	49.2	48.1	47.4	46.7	46.2	28	60.2	39.4	41.6	48.1	59.2	51.0	41.0	44.9	51.1	47.0
29	50.1	44.6	45.9	47.2	49.2	49.4	43.3	43.7	45.3	46.8	29	51.0	38.1	39.5	42.4	44.5	40.8	38.8	40.4	41.0	39.0
30	54.4	44.1	45.7	51.8	50.4	44.8	44.4	47.7	46.4	42.6	30	48.5	35.3	39.2	44.2	38.5	36.6	37.7	37.6	35.0	
31	45.9	38.9	41.4	43.6	44.4	42.5	40.1	41.6	42.1	40.0	31	48.5	29.6	39.7	43.9	39.6	37.5	37.9	39.1	37.0	
Means	49.0	39.5	42.9	45.8	46.3	44.3	40.7	42.7	43.3	42.4	Means	49.4	34.3	40.7	45.6	48.0	40.8	38.0	40.4	41.5	37.6
FEBRUARY																					
1	52.3	41.4	47.0	49.5	52.2	51.2	45.3	47.5	49.3	49.6	1	47.6	33.1	38.2	45.3	46.2	40.0	36.7	41.4	40.8	37.0
2	55.6	51.2	53.3	54.7	55.5	52.0	50.9	51.8	52.8	48.4	2	57.0	37.0	42.1	50.2	56.7	50.0	41.6	48.2	51.4	47.8
3	52.5	44.0	49.8	52.1	51.5	44.0	45.7	46.0	46.1	39.0	3	59.4	48.7	52.9	57.0	58.1	51.4	51.4	53.5	53.7	50.6
4	44.0	35.4	35.9	39.6	41.9	38.2	33.7	33.6	35.7	34.2	4	60.7	49.0	52.0	54.1	59.2	50.8	50.2	51.4	53.2	48.4
5	41.4	32.3	33.4	38.6	40.7	36.5	30.0	33.9	36.0	33.5	5	59.2	49.3	53.2	55.1	58.1	53.3	50.7	51.7	51.5	50.3
6	41.7	24.3	29.6	39.2	41.0	41.5	28.1	33.0	37.0	38.6	6	53.3	43.2	47.7	48.6	49.3	43.2	45.7	46.1	46.2	42.0
7	54.0	41.5	49.3	51.2	54.0	46.0	47.3	48.8	49.8	41.6	7	48.9	40.5	43.5	46.9	48.6	41.0	41.9	43.9	44.4	39.8
8	46.2	40.1	41.2	44.6	46.1	40.3	37.5	38.9	39.3	37.1	8	59.6	38.3	48.9	57.7	57.2	49.0	46.1	51.3	51.2	47.8
9	46.9	36.3	39.0	44.4	44.3	46.9	36.9	39.7	40.5	45.2	9	59.8	46.8	55.5	54.7	56.9	51.0	51.7	52.1	51.2	46.3
10	47.2	33.9	35.7	39.0	40.2	36.0	31.6	34.8	35.7	34.0	10	59.6	41.6	48.5	57.3	58.4	47.5	46.1	49.8	51.3	46.0
11	44.5	36.0	39.4	42.3	40.0	40.2	37.1	39.4	38.2	38.											

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
MAY																					
1	69.6	47.4	58.5	66.6	69.5	57.5	52.3	55.8	58.0	53.5	1	69.9	54.3	62.1	68.9	67.0	63.0	60.2	62.8	61.6	60.0
2	73.9	46.3	57.6	67.5	73.9	60.0	51.5	55.3	57.6	53.2	2	72.3	60.4	65.7	70.8	66.3	64.0	62.7	64.3	64.0	61.4
3	60.2	48.8	51.9	57.2	60.2	49.0	43.4	46.2	47.2	42.0	3	64.9	60.4	62.5	64.0	62.0	60.8	61.7	62.3	60.7	58.4
4	54.4	36.3	52.4	52.5	50.6	48.5	43.6	45.0	48.2	43.0	4	72.6	53.5	63.1	68.1	70.3	62.2	57.6	58.1	58.5	56.8
5	60.5	40.8	53.4	50.7	58.2	45.0	46.7	48.7	48.0	42.0	5	71.5	53.3	62.0	66.7	68.0	60.7	56.8	58.8	60.0	58.6
6	50.9	41.4	46.1	50.7	50.0	43.4	41.0	44.5	42.1	39.4	6	79.4	56.0	73.1	76.7	78.1	64.8	62.7	63.7	63.1	60.6
7	55.0	35.6	49.0	52.0	54.8	40.4	40.9	42.3	45.6	38.0	7	74.3	62.0	64.9	66.0	72.6	62.0	62.4	61.3	60.8	57.5
8	61.9	29.8	51.6	57.9	60.6	46.8	43.9	47.2	48.7	43.6	8	75.7	55.3	69.4	73.3	71.9	62.0	61.1	62.5	61.3	59.0
9	67.0	32.4	54.6	64.0	67.0	49.2	43.2	48.2	50.7	46.0	9	66.4	55.3	62.4	59.8	59.7	57.6	57.5	58.2	57.7	52.6
10	67.9	39.7	56.9	62.9	66.1	57.8	47.6	50.6	50.1	51.5	10	68.3	53.4	58.2	64.8	65.1	60.7	54.5	58.0	58.5	56.7
11	76.3	42.0	62.9	70.2	75.1	60.0	54.4	58.2	61.3	54.8	11	64.4	56.2	58.2	60.2	63.6	59.2	54.0	55.4	56.7	54.4
12	77.5	47.9	67.7	73.6	77.5	58.0	57.7	59.0	61.3	52.3	12	68.9	52.4	58.6	63.0	67.7	64.2	51.5	54.7	57.6	58.8
13	76.4	45.7	68.2	76.3	65.1	52.0	55.1	60.1	55.9	48.0	13	70.0	59.3	62.5	66.0	61.6	60.6	59.0	59.5	60.7	58.8
14	57.4	44.7	50.4	56.6	54.6	44.7	46.5	47.8	45.3	40.2	14	73.8	55.5	64.2	67.5	68.8	62.0	60.7	61.2	61.8	57.0
15	51.5	36.7	47.8	48.1	49.6	43.4	41.1	40.1	41.6	39.4	15	72.5	56.7	63.0	65.6	69.6	63.7	58.7	61.7	63.0	60.8
16	49.4	40.5	45.5	41.8	49.4	42.4	40.7	40.6	45.5	41.4	16	77.1	59.4	67.2	73.4	74.8	68.6	61.0	64.8	66.0	64.6
17	55.0	39.5	43.7	49.0	49.9	44.2	41.7	44.5	44.8	42.7	17	81.0	57.2	74.9	78.9	77.6	60.8	65.5	65.1	64.6	57.2
18	55.7	39.7	49.4	51.3	54.5	47.6	44.4	45.3	48.5	45.2	18	74.8	55.1	65.3	74.1	72.8	59.0	60.0	63.6	61.1	56.2
19	59.0	35.4	51.4	56.6	58.0	48.3	46.7	48.6	49.5	44.8	19	72.7	55.3	62.2	70.5	72.7	61.5	58.9	62.2	62.4	57.5
20	62.5	36.0	54.7	62.5	57.8	49.3	48.9	51.3	49.0	44.8	20	72.0	56.2	62.5	68.7	70.8	57.0	56.2	59.7	61.1	53.5
21	55.3	41.4	49.6	53.3	53.0	45.2	45.0	46.3	47.0	40.7	21	68.4	52.4	60.0	65.6	66.7	58.0	55.0	57.2	57.7	53.2
22	61.1	40.2	51.1	57.6	60.4	53.0	44.3	47.8	49.4	48.4	22	64.3	52.1	56.4	62.1	63.0	59.3	53.4	57.7	57.5	54.8
23	59.3	45.9	52.7	57.0	56.7	49.6	47.3	49.1	49.9	46.3	23	65.9	55.5	61.1	61.8	65.6	60.8	53.3	54.0	56.3	55.8
24	69.0	40.6	60.5	64.3	64.9	54.6	52.1	53.3	52.9	48.8	24	70.6	56.5	64.2	67.6	68.3	61.8	58.0	56.6	58.3	57.3
25	64.5	45.1	56.3	60.9	62.5	56.0	50.6	54.4	57.0	53.3	25	73.0	47.7	67.1	72.9	70.6	63.0	57.6	61.6	60.7	57.5
26	74.6	55.1	62.4	65.7	72.4	60.0	57.5	59.7	62.6	56.5	26	79.5	61.3	72.2	76.6	71.7	64.3	64.0	64.8	63.3	61.3
27	81.8	54.2	64.6	74.7	81.4	66.0	58.6	60.5	64.2	61.5	27	76.0	59.3	64.2	71.6	73.5	65.0	60.2	63.2	64.0	59.5
28	82.0	50.6	64.4	78.6	80.1	63.7	59.6	66.4	67.7	60.7	28	79.1	57.9	68.7	77.6	71.3	64.8	62.6	64.3	60.6	60.2
29	89.3	56.5	75.4	85.6	88.5	71.6	66.7	69.7	70.3	65.1	29	69.6	58.0	59.9	63.1	68.0	60.4	58.7	61.3	61.2	57.7
30	85.8	58.5	70.6	82.2	85.3	65.6	63.1	67.7	69.1	60.1	30	74.3	57.3	66.3	68.5	73.2	65.0	61.3	62.1	63.2	60.5
31	72.8	54.4	66.4	71.5	69.5	57.7	57.5	60.7	59.7	53.7	31	73.4	56.7	61.9	71.2	65.0	58.3	60.3	62.8	61.0	59.0
Means	65.7	43.5	56.4	61.9	63.8	52.6	49.5	52.1	53.2	48.4	Means	72.1	56.2	64.0	68.4	69.2	62.0	58.9	60.7	60.9	58.0
JUNE																					
1	68.4	50.8	58.5	66.3	62.5	60.8	55.3	56.5	57.7	56.3	1	68.0	60.0	62.9	61.7	66.0	61.4	58.7	57.7	60.0	57.9
2	68.4	53.3	56.8	62.2	67.7	61.4	48.3	50.8	53.0	54.4	2	70.7	58.6	60.9	64.2	70.2	59.8	58.5	59.2	61.8	58.2
3	72.2	52.3	61.4	67.8	71.3	62.8	55.3	57.3	58.3	54.8	3	75.1	57.8	61.9	65.2	73.5	63.0	58.7	60.5	63.5	60.3
4	73.3	52.9	61.8	69.2	73.0	57.4	55.3	57.4	58.0	54.4	4	81.0	55.0	68.7	76.6	68.1	63.2	61.6	65.3	62.5	60.6
5	64.2	49.1	56.5	60.9	63.1	57.0	50.4	52.5	54.1	51.5	5	78.3	55.9	65.5	74.0	78.0	63.4	61.5	64.5	62.6	57.4
6	58.6	49.0	54.9	57.1	55.2	50.4	46.4	47.3	47.1	46.8	6	78.4	55.3	60.2	72.0	76.2	64.7	58.0	63.8	63.3	60.0
7	58.4	49.3	53.8	55.2	56.9	56.4	48.3	49.0	50.9	51.4	7	81.0	51.8	62.6	74.6	78.2	63.5	56.1	60.6	59.9	60.3
8	65.5	47.2	61.8	65.5	57.6	56.0	53.5	55.0	53.3	53.5	8	83.5	56.4	67.4	77.3	77.7	60.9	63.9	64.7	61.8	61.8
9	64.6	54.0	59.3	64.0	61.2	55.2	57.1	59.3	59.7	53.8	9	81.8	56.0	70.7	79.4	77.8	69.0	62.5	64.5	64.1	61.5
10	62.6	49.3	54.2	60.2	58.3	53.8	48.7	50.7	49.8	49.8	10	81.9	59.6	66.6	71.8	78.5	71.0	61.7	65.3	68.0	65.5
11	63.5	41.3	59.6	60.6	59.7	58.4	51.6	53.0													

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
SEPTEMBER																					
1	72.2	54.5	61.8	68.0	72.3	57.2	55.6	57.8	58.3	54.4	1	50.5	43.0	45.5	49.7	47.8	43.0	44.5	45.7	42.5	41.2
2	62.2	53.4	57.1	61.0	56.8	55.0	54.9	56.2	52.7	50.0	2	48.7	36.4	41.4	47.1	47.7	39.9	39.4	43.5	44.0	39.4
3	63.9	48.4	57.4	62.0	61.6	60.0	51.9	54.0	55.0	57.5	3	47.6	35.4	40.4	44.5	45.2	47.0	39.4	42.0	43.7	46.0
4	64.0	58.4	63.2	64.0	60.6	58.4	60.2	60.5	59.7	56.2	4	55.2	41.4	48.7	53.4	53.0	53.2	45.7	48.4	48.0	49.2
5	67.4	54.4	60.2	65.5	66.5	54.4	54.9	56.9	55.2	49.2	5	59.4	44.2	56.9	58.6	53.5	44.2	51.9	51.9	51.7	43.0
6	65.2	47.3	57.6	62.7	62.6	53.4	51.4	53.2	54.3	51.4	6	50.2	38.1	44.0	48.5	48.2	50.2	41.3	44.5	44.5	46.8
7	56.3	48.0	50.9	51.8	56.0	48.0	49.9	50.8	53.5	47.5	7	53.2	42.5	45.7	48.4	47.2	42.5	41.2	42.0	42.2	40.0
8	61.0	46.1	54.0	60.2	59.0	47.0	49.8	50.7	50.0	44.5	8	42.9	34.8	42.0	41.0	37.4	34.8	39.5	39.3	36.9	34.5
9	61.4	42.7	52.3	59.5	49.8	47.5	50.6	50.0	44.8	9	42.8	34.8	38.4	42.0	42.4	36.3	36.1	37.5	36.8	33.6	
10	62.2	37.5	54.3	59.9	60.8	46.0	47.3	49.9	50.3	44.2	10	42.6	32.8	37.3	41.8	42.0	39.0	33.5	36.9	37.3	36.4
11	63.4	37.7	55.3	61.2	62.5	51.2	50.8	51.7	53.1	48.7	11	41.9	33.8	39.4	41.3	41.8	33.8	38.4	38.8	39.2	33.2
12	65.5	43.7	58.7	65.0	64.6	55.2	53.7	55.7	55.1	53.4	12	41.4	31.0	36.4	40.4	41.2	37.4	35.4	38.4	39.2	37.0
13	67.9	48.8	60.6	65.7	66.8	54.8	56.7	55.3	57.5	52.6	13	42.4	36.0	38.0	42.4	41.6	40.4	36.6	39.0	39.1	38.9
14	74.9	46.6	58.5	74.2	72.5	61.4	55.8	64.7	65.0	59.8	14	42.6	34.8	37.6	42.4	39.7	36.5	36.4	39.4	37.9	36.0
15	70.4	56.4	65.4	69.5	65.5	56.4	61.3	62.1	62.0	54.4	15	40.1	33.0	37.8	39.4	39.4	33.0	36.4	36.6	36.9	32.4
16	65.4	49.1	57.6	61.2	63.8	54.5	52.2	53.8	55.4	51.8	16	42.0	32.0	33.6	39.0	41.1	32.8	32.9	36.7	37.8	32.4
17	69.4	46.8	60.9	67.7	64.5	53.0	56.6	58.4	58.5	51.5	17	54.6	32.8	47.1	52.9	54.2	54.5	46.3	52.2	53.2	53.9
18	61.2	49.4	56.1	61.3	60.6	58.7	53.6	55.7	56.1	55.3	18	56.0	50.7	54.4	55.5	54.3	50.7	52.4	52.0	51.1	49.8
19	62.9	56.3	59.6	62.5	59.8	56.4	56.4	57.6	58.1	55.9	19	56.6	50.7	56.4	55.2	54.0	53.8	53.9	53.5	51.3	52.0
20	66.4	52.3	55.7	61.0	65.3	56.0	54.0	57.2	57.3	54.5	20	56.8	45.8	52.8	54.8	54.3	45.8	49.6	51.3	50.5	42.6
21	63.1	48.2	55.4	61.1	63.0	53.0	54.9	58.1	58.8	52.2	21	45.8	34.2	39.2	44.0	43.3	36.0	37.1	39.3	39.2	35.1
22	66.1	51.3	55.1	62.1	63.7	57.5	54.5	57.3	58.7	56.4	22	58.0	36.0	55.0	56.6	57.6	54.7	53.7	54.5	55.4	54.1
23	62.1	52.0	56.1	61.1	60.6	52.3	50.8	51.5	50.6	48.3	23	58.0	53.3	55.8	57.2	56.3	53.3	55.0	53.2	52.7	51.5
24	55.8	46.3	47.5	50.6	55.5	52.0	45.3	48.0	50.5	48.0	24	55.3	47.0	55.0	54.8	53.7	47.0	52.9	51.5	49.8	45.2
25	59.3	43.7	51.0	56.6	58.7	57.5	47.8	50.1	51.7	55.0	25	47.0	38.5	40.0	43.7	44.3	39.5	38.3	40.6	40.3	38.0
26	62.1	51.2	56.7	59.1	59.8	51.2	49.5	49.8	50.3	46.2	26	41.7	31.4	34.7	41.4	41.4	39.0	33.3	37.7	38.6	38.5
27	60.3	44.7	52.5	56.9	58.7	49.0	48.0	49.9	51.5	46.7	27	45.0	35.2	40.5	44.1	42.9	37.8	39.2	41.5	40.8	37.0
28	57.1	40.5	50.2	56.3	56.1	49.2	46.7	49.5	48.6	46.7	28	54.3	37.8	49.3	51.8	54.0	51.3	48.0	50.5	52.5	49.5
29	64.1	48.4	54.7	62.8	63.0	59.5	53.4	57.5	58.0	56.3	29	51.3	38.1	39.7	47.3	48.7	45.0	38.5	44.3	45.0	43.3
30	65.1	53.7	57.3	59.9	59.9	53.7	51.8	51.7	51.5	51.5	30	52.0	43.1	45.8	50.7	50.6	45.4	44.5	47.7	47.5	44.8
Means	63.9	48.6	56.5	61.7	62.0	54.1	52.6	54.5	54.9	51.5	Means	49.2	38.6	44.3	47.7	47.3	43.3	42.4	44.3	44.2	41.8
OCTOBER																					
1	56.1	46.2	52.7	54.8	54.0	47.6	48.6	48.2	48.0	44.1	1	51.1	45.0	49.4	51.1	50.0	49.0	47.1	47.6	47.3	46.0
2	57.6	39.6	47.7	54.9	56.4	48.0	43.5	46.9	44.9	43.5	2	50.4	40.0	46.0	46.5	45.0	40.0	42.9	40.7	40.0	37.0
3	57.3	48.0	52.3	54.7	54.9	48.8	47.6	47.7	47.4	44.2	3	54.0	38.2	43.9	51.8	53.4	52.0	43.0	50.2	50.8	47.0
4	53.3	45.1	46.0	51.4	49.3	48.0	44.7	48.6	47.7	46.5	4	52.0	39.7	44.0	46.7	46.4	39.7	39.9	41.2	40.9	37.4
5	56.3	45.0	50.6	53.8	56.2	49.7	46.9	48.5	49.8	47.3	5	46.9	37.1	39.4	44.6	45.5	38.5	37.0	40.7	41.0	37.3
6	60.4	47.6	54.3	60.0	59.5	52.0	49.8	52.5	50.5	49.7	6	45.8	32.1	36.0	44.3	45.4	42.0	35.1	41.0	42.0	41.0
7	55.4	48.0	51.9	54.4	54.8	51.0	49.4	51.6	52.0	50.0	7	42.6	34.6	39.0	41.7	39.9	34.6	38.3	39.7	38.5	33.6
8	56.0	43.0	46.9	51.4	55.7	51.6	46.5	50.1	53.2	50.6	8	38.8	32.5	35.8	38.4	38.0	37.0	35.1	36.4	36.1	34.6
9	56.1	48.2	52.6	55.3	54.4	52.0	50.8	52.6	52.4	50.7	9	40.1	31.4	36.0	39.3	39.6	35.0	34.5	36.8	36.5	33.8
10	58.3	45.7	51.3	57.5	56.6	51.6	48.2	51.7	51.6	50.4	10	44.0	32.4	35.0	39.7	41.0	42.0	33.7	37.6	39.6	40.6
11	61.0	50.2	56.8	57.5	56.8	52.8	54.5	56.5	55.7	48.8	11	46.6	37.6	39.4	45.7	44.4	41.2	37.9	42.5	41.6	39.4
12	57.1	47.0	56.6	55.0	52.2	47.0	53.6	53.5	51.2												

GREENWICH METEOROLOGICAL OBSERVATIONS, 1944.

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

1944	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	o o	o o	o o	o o	o o	o o	o o	o o	o o	o o	o o	o o
2	44.8 33.7	46.9 40.9	41.4 31.2	49.8 31.7	73.8 47.3	75.6 50.2	73.2 54.1	75.7 59.3	68.4 53.7	64.1 45.2	49.6 42.8	52.0 42.5
3	49.9 43.6	53.1 46.4	43.4 32.3	48.4 37.2	70.6 46.1	70.1 53.3	71.2 60.3	71.1 58.6	73.7 52.8	57.3 38.4	51.9 35.0	51.4 45.4
4	49.6 45.4	55.6 48.3	42.5 27.4	57.5 41.9	73.5 49.2	70.2 52.2	73.2 60.1	72.9 57.8	63.0 48.0	57.3 44.6	49.8 34.1	46.9 37.8
5	51.1 36.6	52.9 35.2	43.6 26.6	60.5 48.8	61.5 35.3	73.7 52.9	65.0 53.2	78.1 53.8	64.7 57.2	59.3 45.0	48.8 39.9	54.2 42.8
6	40.9 26.9	42.1 31.7	40.2 30.2	61.6 48.9	55.2 40.5	73.3 49.0	73.1 52.8	82.2 55.0	64.5 56.3	53.5 44.0	56.8 48.0	47.6 36.7
7	45.4 31.3	42.0 23.2	43.2 22.2	60.1 47.0	62.0 41.1	64.9 48.2	73.8 55.3	81.0 55.1	68.0 46.7	57.2 46.8	59.8 37.4	46.4 31.3
8	47.7 42.0	49.2 28.2	43.7 29.7	52.2 40.6	53.4 34.1	60.6 49.4	81.0 61.6	81.2 50.2	65.8 50.0	61.6 47.2	53.3 43.0	46.2 34.9
9	48.5 41.3	54.0 39.6	47.2 31.7	51.1 38.0	57.8 30.0	62.6 46.8	76.4 54.3	83.2 56.3	56.6 45.3	56.0 42.0	48.6 39.0	42.4 32.1
10	49.8 44.2	46.5 35.6	50.3 35.4	60.8 46.3	63.6 32.4	66.9 54.1	76.5 55.1	84.7 55.2	61.6 42.2	56.1 45.9	43.6 34.2	38.8 30.9
11	51.6 37.4	47.3 33.5	43.7 28.6	61.1 41.3	70.1 39.2	65.3 49.2	67.2 53.3	82.7 59.3	62.4 36.2	57.0 43.9	43.1 31.6	40.3 31.9
12	39.7 24.9	41.6 34.7	47.4 36.2	60.2 42.7	69.3 42.5	64.9 42.2	69.4 56.2	83.3 60.2	63.5 37.1	58.9 49.9	43.0 36.7	44.4 34.2
13	46.1 33.6	45.6 33.3	50.4 39.0	61.9 38.5	77.9 46.8	65.0 48.6	66.1 51.7	83.8 59.2	64.7 41.6	61.9 49.2	42.2 30.1	46.2 36.2
14	52.2 45.5	42.4 34.6	55.0 43.6	66.5 43.9	78.4 45.1	71.1 49.3	70.1 55.2	82.0 57.2	67.0 46.6	57.7 38.4	41.4 35.0	43.3 28.7
15	53.4 34.1	40.2 32.2	49.6 35.5	58.9 40.6	77.8 48.0	72.0 47.7	71.0 55.1	80.1 52.1	69.1 45.5	57.8 48.4	42.7 34.5	36.7 30.5
16	47.6 27.2	43.2 31.4	43.9 28.6	64.7 44.3	58.4 35.2	67.1 47.0	75.2 56.3	77.3 54.3	74.1 57.9	59.1 40.1	43.0 35.3	42.3 35.0
17	37.9 29.2	45.1 34.0	47.6 29.3	58.9 47.5	53.7 40.5	72.0 51.4	74.0 58.3	77.2 50.7	71.5 48.6	58.1 38.9	40.4 30.4	44.0 34.4
18	44.2 30.2	41.3 35.4	47.0 35.8	52.2 45.4	49.9 38.0	63.9 51.2	78.8 56.6	88.9 60.9	66.9 46.2	59.0 46.3	47.4 32.4	50.3 43.4
19	48.4 37.4	36.9 32.7	50.6 35.2	52.0 42.7	57.3 38.9	66.7 44.7	82.5 54.3	80.0 62.5	69.1 48.6	58.3 48.0	55.1 47.0	53.6 45.0
20	48.7 42.3	36.3 31.4	54.2 44.8	59.5 34.7	58.5 34.6	72.0 46.1	77.0 54.9	80.7 60.3	61.5 55.5	57.1 49.2	56.4 50.6	50.5 39.3
21	49.6 37.8	36.2 32.7	53.6 36.9	62.0 48.2	60.2 34.8	72.6 48.4	75.3 55.5	79.3 59.8	63.5 52.4	56.4 45.2	56.8 51.8	46.5 35.7
22	45.0 37.2	40.0 33.5	50.3 43.0	61.1 39.2	64.3 40.7	75.8 50.0	74.3 52.4	65.4 54.6	67.4 47.2	56.5 48.2	55.8 36.0	42.2 32.0
23	50.3 40.2	41.9 30.2	45.9 32.1	62.0 45.8	56.6 39.9	65.5 46.8	70.6 52.1	60.1 55.8	64.2 50.2	58.9 46.7	54.8 34.8	45.5 33.0
24	51.4 43.2	40.8 30.6	49.8 32.7	69.0 42.4	62.7 44.8	73.6 52.2	65.1 55.2	68.4 59.7	66.9 51.9	56.9 47.2	57.3 54.0	46.2 36.0
25	45.6 34.3	38.9 25.5	53.6 34.1	70.8 48.1	61.6 40.1	67.9 40.7	66.6 56.2	80.1 59.8	63.0 46.1	53.0 41.2	57.8 50.0	44.6 29.0
26	49.8 38.2	40.6 29.5	57.1 34.2	62.5 44.2	70.1 44.8	77.7 48.7	71.0 47.7	76.2 51.8	56.1 43.2	52.7 45.2	55.2 38.0	40.6 22.6
27	46.8 36.4	42.0 35.2	61.4 38.3	60.1 46.1	64.8 55.2	75.1 56.2	74.2 60.6	80.3 54.4	60.0 51.5	53.2 45.8	45.1 31.2	30.1 23.3
28	53.3 40.1	41.0 33.6	69.6 33.3	64.0 40.4	76.0 53.9	66.9 49.3	80.4 58.8	83.0 54.8	63.3 44.2	52.2 44.2	42.2 33.8	31.1 23.3
29	55.7 48.3	37.9 28.1	56.2 38.0	72.9 47.5	83.9 48.6	63.8 51.1	76.4 57.7	81.8 57.2	60.9 39.4	50.3 34.3	49.4 35.8	30.2 23.5
30	52.7 44.7	42.3 26.7	60.5 38.0	61.0 43.2	85.0 55.2	69.6 57.0	79.5 56.4	71.5 54.9	57.9 46.9	50.2 32.7	54.3 37.8	35.1 19.9
31	50.4 43.4		45.1 35.2	60.8 45.1	90.9 57.5	73.8 52.9	71.4 56.7	66.5 55.7	64.0 53.1	47.4 38.5	49.5 38.7	32.0 22.9
Means	48.5 37.7	43.6 33.4	49.6 33.8	60.1 43.1	67.3 43.0	69.3 49.6	73.4 55.7	77.8 56.5	64.8 48.1	56.4 44.0	49.8 38.6	43.3 33.1

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1944

Gauges partly sunk in the Ground in the Christie Enclosure	Monthly Amount of Rain collected in each Gauge													Height of Receiving Surface		
	Number of Gauge	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Sums	Above the Ground	Above Mean Sea Level
6	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
6	1.404	0.773	0.108	1.510	0.614	1.516	1.473	2.862	2.727	3.081	3.645	1.357	21.070	0 5	149 6	
8	1.367	0.755	0.108	1.447	0.595	1.493	1.427	2.828	2.748	3.058	3.565	1.356	20.747	1 0	150 1	
Number of Rainy Days (0.005 in. or over)	11	13	6	13	7	12	15	11	14	20	20	14	156	..	..

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

Hour Ending	January	February	March	April	May	June	July	August	September	October	November	December	Mean for the Year
h	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles
1	14.4	11.5	8.5	8.2	8.3	10.4	7.6	7.6	9.1	9.7	11.4	11.1†	9.8
2	14.2	10.7	8.2	8.2	8.1	10.2	7.6	7.2	8.9	10.5	11.7	10.8	9.7
3	13.3	11.1	8.4	7.9	7.9	10.3	7.7	6.5	8.7	10.2	11.6	11.2	9.6
4	13.8	11.3	8.8	8.1	8.3	10.6	7.2	6.7	8.9	10.6	12.8	10.9	9.8
5	13.5	11.6	8.6	7.6	7.6	11.0	7.3	7.3	8.3	10.4	12.3	10.6	9.7
6	13.2	12.0	8.5	7.3	8.0	11.0	7.5	7.5	8.1	10.5	12.8	10.4	9.7
7	13.1	12.2	8.3	8.1	8.2	12.7	7.8	7.1	8.6	10.9	13.4	10.2	10.0
8	13.4	12.4	8.6	8.6	8.5	12.8	8.8	7.4	8.7	11.1	12.9	9.5	10.2
9	14.2	12.9	9.8	8.6	9.5	13.9	9.5	7.9	9.5	11.7	13.7	10.0	10.9
10	14.1	14.0	9.8	9.2	10.5	13.8	9.5	9.0	10.3	12.1	13.2	10.4	11.3
11	15.1	14.7	10.0	9.9	10.4	14.4	10.3	9.6	10.9	12.6	13.6	11.0	11.9
12	15.4	15.0	10.2	10.9	10.9	14.8	10.4	10.7	11.6	13.7	14.2	11.3	12.4
13	16.5	15.2	11.6	10.1	9.8	15.5	10.6	10.0	11.3	13.3	14.1	10.9	12.4
14	16.0	15.2	11.0	10.5	10.6	15.8	10.9	11.1	12.1	13.0	13.7	11.2	12.6
15	15.6	15.0	11.0	11.2	11.7	16.6	11.3	11.3	12.6	12.4	12.4	11.4	12.7
16	15.1	14.4	10.8	11.1	12.1	16.2	11.1	10.7	12.6	12.0	11.2	10.7	12.3
17	14.9	14.2	11.1	10.9	11.6	16.3	11.7	10.7	12.3	11.6	11.4	11.0	12.3
18	14.5	13.2	10.4	11.0	11.7	15.5	11.2	10.1	11.2	11.7	11.1	11.2	11.9
19	14.6	13.0	9.4	10.7	11.4	14.9	10.4	9.5	10.8	11.0	11.3	10.4	11.5
20	14.6	13.0	9.6	9.9	10.3	13.6	9.8	9.1	10.4	10.7	11.5	10.4	11.1
21	14.1	12.7	9.4	8.6	9.9	12.0	9.3	8.6	10.0	10.4	11.5	10.3	10.6
22	13.9	12.5	9.4	8.1	9.6	11.8	8.3	8.7	9.7	10.5	11.1	10.9	10.4
23	13.7	12.3	9.1	8.5	9.2	11.5	8.1	8.2	9.4	10.6	11.3	11.4	10.3
24	14.1	11.3	8.5	8.4	8.6	11.0	7.4	7.9	9.2	10.5	10.9	10.7	9.9
Means	14.4	13.0	9.5	9.2	9.7	13.2	9.2	8.8	10.1	11.3	12.3	10.7	11.0
Greatest Hourly Measures	39	32	37	24	33	28	20	26	31	29	36	37	..

* The measures are derived from the motion of the cups by the formula $V = 2.7v$, where v is the hourly motion of the cups in miles. See Introduction p.xvii.

† Means for 26 days only; instrument frozen December 25 to 29.

