

RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS

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

1943

UNDER THE DIRECTION OF
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ASTRONOMER ROYAL

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



LONDON: HER MAJESTY'S STATIONERY OFFICE

1955

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THE ROYAL OBSERVATORY, GREENWICH

AND

ABINGER MAGNETIC STATION, SURREY.

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1943.

INTRODUCTION

STAFF

During the year 1943 the staff serving in the Magnetic and Meteorological Department consisted of W. M. Witchell, Superintendent, E. A. Chamberlain, G. F. Wells, P. L. Rickerby, D. Oliver and N. S. C. Rhodes. Mr. Chamberlain, resident observer and assistant-in-charge, with his assistant Mr. Rickerty, were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

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

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

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

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

ABINGER MAGNETIC OBSERVATIONS, 1943.

The Magnetograph House stands 50 feet east of the main pavilion and is oriented with its principal axis north and south. An inner chamber, designed to house the magnetographs at a uniform temperature, measures 15 feet long by 12 feet wide by 8 feet high and is supported on small concrete piers. The whole structure is contained within an outer chamber whose walls are constructed to have a low thermal conductivity and are nearly two feet thick. Between the walls of the two chambers is an air space of from 2 to 3 feet. The inner chamber is electrically heated by a series of low-temperature non-magnetic metallic resistances distributed along the base of the walls and fed by alternating current drawn from the public mains supply.

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

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

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

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

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

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A small Helmholtz-Gaugain coil, having a field of 7.43 gamma per 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 adjusted on 1943 January 13 and was then correct within $0^{\circ}.5$. The adopted scale-value during 1943 was 4.50 gamma per millimetre, until January 13 and then 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 1943 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 constitute 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 $3'$ of arc. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to $1''$ of arc. An azimuth mark is fixed on the top of a concrete pillar 10 feet high, erected at the northern extremity of the Observatory grounds at a distance of approximately 300 feet from the observing pier. Determinations of the azimuth of this mark are made at intervals by means of observations of Polaris. During each observation both direct and reflected views of the star are taken. The effect of error of level of the telescope is thus entirely eliminated. Reflection is obtained from the surface of mercury contained in a shallow copper dish.

The Schuster-Smith Coil Magnetometer. This instrument is on loan to the Observatory from the National Physical Laboratory. It is the second of the type constructed and is rather smaller than the original instrument, a detailed description of which is to be found in *Philosophical Transactions of the Royal Society*, Vol. 223 (1923), pp. 175-200. It is erected on a pier in the centre of the absolute observation pavilion and was brought into use as the standard instrument for measurement of horizontal intensity on 1927 February 1. In general eight independent determinations are made each week-day.

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

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

A chromium-steel magnet, 15 mm. long and 2 mm. square in cross section, is supported horizontally in a light vertical aluminium frame; the frame carries also a small concave mirror and a damping vane and is suspended by a single silk fibre in a suspension tube passing through a hole in the upper surface of the cylinder.

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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.

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.

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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 1943 is based were verified in April 1942. To convert the measure of current from international units to c.g.s. units the factor adopted prior to 1938 January 1 was 99997; but from this date onward the value adopted has been .99988. The change introduces a discontinuity into the deduced values of F 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 1943. The mean observed value of $\log. K$ from these determinations was 2.42363. 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 +9.84 and -1701 respectively.

The values used in the reduction of the 1943 observations, however, are the mean values obtained from a series of 235 special observations made during 1936. These values are:- $P = +9.17$; $Q = -1409$. The principle and method employed in the reduction of these special observations are described in the Results for 1936. In computing the observed values of horizontal intensity the deflection at 22.5 cms. has not been used since 1936.

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

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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 1943 for the measurement of the current were verified at the National Physical Laboratory in 1942 April. The factor adopted for the conversion from international amperes to c.g.s. units was the same as for the Schuster-Smith coil (see p. x). The change on 1938 January 1 introduces a discontinuity of -3.9γ into the deduced values of Z .

The Absolute Inclination Instrument. An Earth Inductor by the Cambridge Instrument Company, in conjunction with a Broca galvanometer, is used to determine magnetic inclination. About six determinations are made each week. Observations are made in four positions to eliminate any small errors arising from slight asymmetry in the instrument. After the first adjustment the coil-support is reversed about a horizontal axis and a second adjustment is obtained; the instrument is then reversed in azimuth and two further adjustments are made. The circle for the measurement of inclination is 8 inches in diameter and is read by means of microscope-micrometers

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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 0^{h} to 24^{h} U.T. being assigned according to the principles described in an article published in *Terrestrial Magnetism and Atmospheric Electricity*, Vol. 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 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.

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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 means of 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.

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

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

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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

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

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

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

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

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

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

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is mounted horizontally, in a suitable frame, just above the pivots of, and attached to the short lever. The first lever lies east and west, so that the axis about which the mirror turns is in the same direction. The recording drum is horizontal and the motion of the beam of light is transformed, so as to be horizontal, by a fixed right-angled prism supported above the mirror. A lens of suitable focus is mounted in a vertical plane in front of the prism and brings the beam of light from the straight-filament electric lamp to a focus on the drum. A base-line mirror, similar to the moving mirror, is mounted in a vertical plane below the lower half of this lens. Provision is made for all the necessary adjustments of the directions of the two beams of light. The weight of the plunger and lever mechanism is relieved by a balance-weight on the far side of the pivot, so that the plunger rests on the mercury surface without appreciably depressing it.

The instrument is 12 feet from the recording drum. At this distance the calculated scale-value of the record is 3 inches on the sheet for 1 inch change of height of the standard barometer. (Near the 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 $9\frac{1}{2}$ inches wide, a range of over 3 inches barometric motion can be included and re-adjustment of position of the trace is unnecessary.

Dry-bulb and Wet-bulb Thermometers. On 1937 December 31 the standard dry-bulb and wet-bulb thermometers and maximum and minimum self-registering thermometers, both dry- and wet-bulb, were transferred from the revolving open screen, on which hitherto they had been mounted, to a Stevenson screen of large dimensions which had been set up a few yards to the westward. The old screen was subsequently erected in a new position on the north side of the Christie Enclosure, and daily readings, at 9^{h} , of maximum and minimum temperature in the open screen were resumed from 1938 May 1.

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

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

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

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

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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 thermometers employed were N.Z. No. CG 10220 until January 8 and then DB 3544. The thermometer for radiation to the sky is a spirit minimum thermometer, N.Z. No. CG 18256. The thermometers are laid on short grass, freely exposed to the sky.

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

Osler Anemometer. This self-registering instrument, devised for continuous registration of the direction and pressure of the wind together with the amount of rain, is fixed above the north-western turret of the ancient part of the Observatory. The direction of the wind is registered by means of a large vane (9 ft. 2 in. in length), connected by shaft and pinion with a rack-work carrying a pencil; the latter marks on a flat sheet of paper, moving horizontally. The vane is 25 feet above the roof of the Octagon Room, 60 feet above the adjacent ground and 215 feet above the mean level of the sea. A fixed mark near the north-eastern turret in a known azimuth, as determined by celestial observation, is used for examining at any time the position of the direction-plate over the registering table to which reference is made by means of a direction pointer when adjusting a new sheet on the travelling board.

A circular pressure plate with an area of 192 square inches is attached 2 feet below the vane; moving with the latter it is always kept directed against the wind. A light wind causes the plate to compress slender springs, the motion being registered on the horizontal sheet by a pencil connected with the plate by a flexible brass chain which is always in tension. Higher wind pressures bring stiffer springs into play behind the plate, and the two sets of springs are adjusted by screws and clamps so as to afford fixed scales on the sheet, the scale for light winds being double that for strong winds. The scale is determined experimentally in pounds per square foot from time to time. The most recent determination was made on 1934 November 20. The recording sheet is changed daily at noon. The time scale is approximately 15 millimetres to the hour. The instrument was brought into use as long ago as 1840.

Robinson Anemometer. This instrument, for registration of the horizontal movement of the air, is mounted above the roof of the Octagon Room and was brought into use in 1866. The four hemispherical cups are 5 inches in diameter, the centre of each cup being 15 inches distant from the vertical axis of rotation. The cups are 21 feet above the roof of the Octagon Room, 56 feet above the adjacent ground and 211 feet above the mean level of the sea. A motion of the recording pencil through 1 inch corresponds approximately to horizontal motion of the air through 100 miles. The time scale is the same as for the Osler anemometer and the sheet is also changed daily at noon.

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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 1943 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 86 of the Meteorological Results.

Sunshine Recorder. The hourly results relate to apparent time. The instrument in use is of the Campbell-Stokes pattern with 4 inch glass globe. It was examined at the Meteorological Office in 1926 and found to be in satisfactory condition. It bears the serial number M.O. 113. The recorded durations are those of bright sunshine, no register being obtained when the sun shines faintly through fog or cloud or is very near the horizon. Conformity with Meteorological Office standards of measurement is maintained as far as possible.

Night-Sky Recorder. The object of this instrument is to supplement the daily sunshine record in so far as it gives an indication of the amount of cloud. It consists of a small camera constructed of wood, mounted on a brick pier about 20 yards south of the Altazimuth building, and permanently directed towards the celestial pole. The lens is of 18.8 inches focal length and 0.8 inch aperture. The actual camera is enclosed in a larger box about twice its length, extending nine inches beyond the lens. The lens itself is further surrounded by a hood. Adequate protection from dew is thus obtained, and also from rain, except when hard driven from the north. The photographic plates used are ordinary quarter-plate (3½ by 4¼ 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.

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The traces selected for measurement are those of Polaris and δ Ursæ Minoris. The measurement is effected by means of a glass scale on which pairs of concentric circles are photographically imprinted. The radii of these circles are slightly greater and slightly less than the radius of the trace to be measured, and the circles are divided into a time-scale of hour angle, with ten-minute units. The plate is placed over the scale in a measuring frame and adjusted so that the trace is concentric with the containing circles on the scale. The hour-angle of the star, according to the scale, at the commencement and ending of the various portions of the trace is then read off to the nearest minute of time.

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

ARRANGEMENT OF RESULTS. The results given in the Meteorological Section refer to the day commencing at 0^h U.T., excepting the case of the night-sky record, for which they relate to the period from dusk on the day named to dawn of the following day.

All results in regard to atmospheric pressure, temperature of the air and of evaporation, with deductions therefrom, are derived from the continuous records, excepting that the maximum and minimum values of air temperature are those given by eye observation of the ordinary maximum and minimum thermometers, reference being made, however, to the autographic register, when necessary, to obtain the values corresponding to the limits "midnight to midnight". The hourly readings for the elements mentioned are measured direct from the traces and reduced so as to be based fundamentally, both as regards scale and zero, on the readings of the standard instruments.

The barometer results are not reduced to sea-level, neither are they corrected for the effect of gravity by reduction to the latitude of 45°. The monthly mean barometer reading is, however, corrected for the effect of the change of site of 1917 April before deducing the deviation from the mean of sixty-five years 1841-1905 (pp. D 54 -D 77). 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 81 and D 82) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pp. D 80 and D 81).

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,

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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 79 and D 86, is formed from the records of gauge No. 6. In this numeration only those days are counted on which the fall amounted to, or exceeded 0.005 inch.

It may be understood, generally, that the greatest wind pressures usually occur in gusts of short duration. In the "Mean of 24 Hourly Measures" each measure represents the mean hourly value centred at the nominal hour. With regard to "Proportions of wind referred to the cardinal points" in the monthly summary on pages D 54-D 77, 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 55 to D 77, and in the abstract table, page D 79, 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

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e	wet air without falling rain
f	fog, with objects invisible distant more than 1100 yards
F	fog, with objects invisible distant more than 220 yards
g	gloom (*)
h	hail (*)
i	intermittent
k	storm (in combination with other symbols) (*)
l	lightning
m	mist, with limit of visibility between 1100 and 2200 yards
o	sky overcast with unbroken cloud
p	passing showers (*)
q	squall (*)
r	rain
s	snow (*)
rs	sleet (*)
t	thunder
u	threatening sky
v	exceptional visibility; i.e. abnormal transparency of air
w	dew (*)
x	hoar frost (*)
y	dry air; i.e. relative humidity less than 60 per cent
z	haze (*)

A capital letter indicates "intense"

The suffix o indicates "slight"

A letter repeated indicates "continuous"

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**

1943

MAGNETIC OBSERVATIONS, ABINGER 1943.

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	20.4	20.7	20.6	20.6	20.5	20.6	20.5	20.0	19.6	19.7	20.7	22.0	22.7	22.8	22.0	21.5	21.6	21.7	21.6	20.1	17.0	14.6	13.7	16.7	
2	18.1	20.0	20.4	20.4	20.1	20.5	20.6	20.4	20.9	20.4	21.0	22.5	23.0	23.0	22.5	22.2	22.4	22.3	21.9	20.1	19.7	19.0	19.0	20.0	
3	20.4	21.0	20.9	21.0	21.6	21.0	20.4	20.0	19.0	18.5	19.9	21.8	23.0	24.0	24.4	25.0	21.6	21.1	21.6	21.3	20.2	19.6	16.5	15.0	
4**	16.0	17.8	19.2	20.5	21.1	21.6	20.3	20.4	19.4	19.6	21.4	23.7	26.7	25.6	22.4	24.6	28.6	13.1	19.3	20.4	12.8	15.9	15.0	16.4	
5	18.0	20.5	21.0	20.5	19.2	20.4	21.4	20.1	20.0	20.0	21.2	22.4	23.3	23.4	23.0	22.2	22.5	20.0	20.5	19.9	18.8	17.3	13.6	18.0	
6	19.0	20.2	20.6	20.4	20.1	20.4	21.0	21.5	20.9	20.3	21.0	22.0	22.4	24.0	23.4	22.8	20.3	19.4	21.0	19.5	16.3	18.0	18.8	19.9	
7*	20.2	20.0	20.5	20.2	19.8	20.4	20.1	19.6	19.3	18.6	20.0	21.4	23.0	23.4	22.4	21.5	21.0	20.4	20.4	20.0	19.7	19.4	18.8	19.4	
8	19.6	20.1	20.5	20.6	21.0	20.9	20.8	20.4	19.3	18.7	19.0	20.9	22.4	22.6	23.2	23.1	22.1	21.8	20.9	20.0	16.4	15.9	17.1	17.3	
9	17.0	18.1	19.0	18.5	19.1	20.0	21.3	21.2	22.0	22.0	19.4	19.6	21.5	23.0	23.0	22.0	21.5	21.6	21.6	20.6	19.7	18.8	19.0	19.4	
10	19.1	18.6	18.5	19.0	19.6	20.2	20.5	19.6	19.0	19.5	20.8	21.7	21.7	23.1	23.0	21.7	21.3	20.6	20.6	20.1	19.6	16.6	15.0	17.7	
11*	19.1	19.6	20.1	20.1	20.0	20.8	20.7	20.5	19.9	19.5	20.3	21.4	21.6	22.6	23.0	23.0	22.4	21.9	21.4	20.6	19.9	17.6	18.7	18.4	
12	18.8	19.1	19.0	19.5	20.1	20.2	20.1	20.9	20.2	18.9	19.4	20.9	22.1	22.6	22.9	21.9	21.8	21.9	21.7	21.1	20.6	17.7	17.2	18.4	
13*	19.3	20.4	20.0	19.7	19.9	20.5	20.4	20.3	20.1	20.2	21.0	22.1	22.4	22.1	22.4	22.2	21.8	20.7	20.5	20.4	19.7	19.5	19.3	19.4	
14*	19.6	19.6	20.2	19.6	19.7	19.6	19.5	19.4	18.7	19.1	20.1	20.7	21.6	22.0	21.2	20.6	20.2	20.2	20.1	20.0	19.8	19.5	19.6	19.6	
15*	19.8	20.1	20.4	20.7	20.7	20.7	20.2	19.8	18.4	18.6	20.1	21.2	22.2	22.2	22.2	22.2	22.0	21.4	21.1	20.7	20.1	18.2	18.1	19.3	
16	20.1	20.5	20.5	20.4	20.1	20.4	20.3	19.8	19.1	19.2	20.6	20.7	22.1	24.1	24.1	23.7	24.1	22.1	20.0	21.4	19.2	18.8	18.1	17.0	
17**	15.7	17.7	20.4	20.2	20.1	19.9	19.5	20.8	20.6	20.5	20.3	24.1	26.1	25.2	26.6	22.1	22.3	21.2	18.6	11.7	14.8	18.1	17.7	16.0	
18	16.5	18.5	19.6	20.5	20.2	20.1	20.1	20.0	19.3	19.5	20.6	21.1	21.7	23.2	22.2	21.3	20.7	20.1	16.5	19.1	18.8	18.7	18.5	18.7	
20**	20.0	20.1	20.4	20.6	20.3	20.4	20.4	21.1	20.2	19.8	20.5	22.9	23.6	24.5	24.9	25.6	23.4	19.9	9.3	7.8	3.8	-6.3	8.6	14.3	
21**	17.0	19.5	22.9	21.6	19.9	20.9	20.8	22.4	21.9	20.7	20.0	21.0	23.3	23.4	21.2	17.2	20.5	20.2	19.4	18.9	16.6	14.2	13.4	16.9	
22**	12.4	16.9	19.6	20.3	20.6	20.9	20.4	19.4	19.9	19.3	19.3	21.2	23.1	24.7	21.9	22.0	22.5	12.9	12.8	13.6	17.3	13.8	14.8	17.5	
23	20.8	22.6	20.5	20.3	19.9	21.9	20.3	18.3	17.5	18.5	19.6	20.5	23.0	23.0	21.3	20.5	19.9	19.9	19.8	18.9	16.1	17.5	18.1		
24	19.5	18.3	21.6	18.8	18.4	18.9	19.3	18.9	18.1	18.3	19.3	20.4	23.5	24.1	22.1	20.9	20.6	19.9	20.3	19.1	15.8	18.3	18.3	18.7	
25	18.1	18.9	19.7	19.9	19.9	20.9	19.9	19.2	18.3	18.9	19.2	20.8	22.0	22.0	22.8	21.9	21.4	21.7	21.3	21.1	20.7	19.4	19.2	18.9	
26	19.5	19.9	17.7	16.2	18.4	19.9	19.9	19.8	19.9	22.4	25.9	22.6	23.3	23.8	23.6	22.7	21.9	21.7	21.1	20.4	19.1	17.9	16.1	17.9	
27	17.9	19.9	20.0	20.3	20.1	20.3	20.3	19.7	18.5	18.9	19.9	21.0	23.4	23.8	21.9	22.6	21.6	18.5	20.8	19.9	19.5	19.3	19.0	19.2	
28	19.7	19.7	19.9	20.6	21.0	21.0	20.8	19.9	19.6	20.6	21.9	23.4	24.1	24.3	23.3	21.8	20.4	18.9	20.4	17.0	18.0	18.8	18.9	19.6	
29	17.8	19.2	19.9	19.7	19.9	20.3	20.0	19.5	19.2	19.9	20.6	20.8	21.9	22.5	22.5	21.5	21.1	20.8	20.3	19.9	19.0	17.3	19.3	19.7	
30	20.1	18.3	20.7	19.9	19.9	20.1	20.0	19.0	18.3	19.3	20.8	22.0	23.1	23.2	22.5	21.2	20.3	20.5	20.4	20.1	19.8	16.9	15.9	18.0	
31	19.4	19.5	20.2	20.5	20.9	19.8	19.9	19.9	18.5	18.5	19.8	20.9	22.4	23.3	23.9	23.7	22.0	21.0	21.4	20.8	20.4	17.9	18.8	18.8	
Mean	18.7	19.5	20.2	20.0	20.1	20.4	20.3	20.0	19.5	19.6	20.4	21.6	22.9	23.4	22.8	22.1	21.8	20.2	19.9	19.3	18.0	16.9	17.1	18.2	
Mean*	19.6	19.9	20.2	20.1	20.0	20.4	20.2	19.9	19.3	19.2	20.3	21.4	22.2	22.7	22.3	21.9	21.5	20.9	20.7	20.3	19.8	18.8	18.9	19.2	
Mean**	16.2	18.4	20.5	20.6	20.4	20.7	20.3	20.8	20.4	20.0	20.3	22.6	24.6	24.7	23.4	22.3	23.5	17.5	15.9	15.5	13.1	11.1	13.9	16.4	
February																									
10° + Tabular Quantities																									
1	18.4	18.8	17.7	18.9	19.0	19.3	18.9	18.5	17.8	17.9	19.9	21.5	22.9	23.4	24.0	23.4	22.6	22.1	21.4	21.0	20.0	19.5	16.5	15.9	
2	19.0	19.0	19.4	19.4	19.5	19.5	19.4	19.4	18.9	19.5	20.3	21.5	21.6	22.4	22.6	22.8	23.2	21.9	21.3	20.8	20.1	19.6	18.9	18.5	
3	18.4	15.5	16.8	17.7	17.9	18.5	19.1	19.3	19.2	19.7	21.3	22.2	23.3	25.0	25.4	23.9	23.4	22.2	21.2	20.8	15.6	15.9	16.0	16.8	
4**	18.2	19.3	19.5	19.4	18.6	18.6	18.3	18.6	18.5	20.1</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
March																									
10° + Tabular Quantities																									
1	18.8	18.8	18.7	18.7	19.1	19.1	19.1	18.7	18.2	18.2	18.3	20.7	23.4	24.3	24.7	23.5	24.7	21.7	20.7	19.8	18.9	18.7	18.3	18.2	
2	18.6	18.3	17.2	18.6	18.6	18.6	18.6	18.6	18.5	17.9	22.1	23.8	23.4	22.7	23.1	23.4	22.1	21.4	21.2	20.7	19.2	18.7	18.9	18.6	18.4
3	17.7	17.8	17.7	17.7	17.7	18.0	18.0	18.1	17.7	16.9	16.7	19.7	22.2	25.7	24.3	23.7	22.9	21.7	20.6	19.8	18.7	16.3	10.8	14.3	16.2
4	18.0	16.0	15.7	16.7	17.6	16.8	17.1	16.4	19.1	20.1	21.2	22.3	23.2	23.3	22.8	22.6	23.1	22.7	18.6	18.4	17.7	16.2	13.8	14.5	17.4
5	15.9	16.7	17.7	18.4	15.7	15.7	17.7	21.3	19.3	18.4	18.6	20.5	22.1	23.2	23.1	23.2	21.7	13.1	17.5	17.4	18.6	15.4	16.6	18.1	
6	19.0	18.4	18.3	18.2	18.1	17.7	18.2	18.1	16.8	16.4	17.7	20.2	23.3	23.4	24.1	22.5	21.7	21.1	20.7	18.3	13.4	17.1	17.7	16.8	
7	19.0	19.0	18.2	18.3	18.7	18.7	18.3	18.1	16.7	16.0	17.7	21.1	23.5	24.9	24.5	23.3	21.7	21.1	17.1	18.4	15.7	14.8	14.9	15.8	
8	16.1	15.8	16.8	19.0	16.7	17.7	17.5	17.0	17.0	16.6	16.3	18.2	20.8	23.5	24.6	24.3	23.3	22.7	20.8	18.9	19.6	19.1	17.3	15.8	17.3
9	16.7	17.1	19.3	18.6	18.7	18.7	18.3	19.4	18.4	18.6	20.7	21.7	23.8	23.4	23.9	22.7	21.9	20.7	20.3	19.6	18.3	18.8	18.1	17.3	
10*	17.1	18.6	18.4	18.6	18.8	18.7	18.6	18.2	17.0	16.3	17.3	19.7	21.7	22.8	23.2	23.1	22.0	21.2	20.1	19.7	18.1	17.5	14.9	13.7	
11	15.2	17.1	17.6	16.4	16.3	17.3	18.1	18.0	16.8	16.7	18.7	21.3	23.7	24.1	23.6	23.7	24.3	24.5	26.7	23.6	19.5	12.1	11.4	17.2	
12	19.3	15.7	18.5	19.5	17.5	18.7	17.8	17.2	16.7	17.2	18.7	22.5	24.1	23.9	24.0	21.4	19.3	20.7	19.5	16.7	17.1	16.6	15.7	17.7	
13*	18.1	18.7	19.7	18.3	17.6	17.5	17.6	16.7	16.1	16.3	18.3	20.5	22.2	23.7	22.7	21.4	19.7	19.8	19.7	19.2	19.2	19.1	18.7	17.7	
14	18.0	18.0	19.7	20.7	20.6	17.8	17.2	16.7	16.7	16.1	17.7	21.2	23.7	24.6	24.7	21.8	19.3	18.7	19.1	18.8	18.6	18.0	18.7		
15*	18.5	18.3	18.7	18.6	18.0	17.9	17.6	16.1	15.1	15.6	18.0	21.6	23.6	23.8	22.3	21.2	19.5	19.2	19.5	19.4	19.2	19.2	18.8	18.4	
16**	19.0	19.1	18.7	17.8	17.1	16.6	21.6	18.0	17.7	16.6	23.7	24.7	25.4	27.0	24.9	22.7	20.8	18.6	18.8	16.7	6.3	13.7	17.7	16.2	
17	15.7	17.7	18.1	18.3	18.1	17.8	17.5	15.8	14.2	14.7	17.3	21.0	23.0	24.0	24.0	22.5	20.1	18.3	18.3	18.0	17.9	15.9	16.3	17.7	
18	18.2	18.2	18.3	18.3	17.7	17.6	16.6	15.6	15.8	16.7	18.8	22.4	24.4	24.4	23.3	21.5	20.1	17.2	16.5	18.7	19.1	19.1	19.3	19.1	
20**	18.6	18.7	20.2	19.7	17.8	17.3	16.6	15.3	16.1	19.3	20.6	22.0	25.6	26.7	26.2	20.7	20.7	19.7	3.1	14.7	16.1	17.8	18.2	18.3	
21	17.7	17.7	18.4	18.4	18.1	17.7	17.7	16.7	16.1	17.6	20.2	23.5	26.2	25.8	24.6	23.2	21.7	19.5	19.1	18.3	17.8	18.6	18.2	18.2	
22	18.3	18.2	17.6	18.0	18.4	17.8	16.7	14.7	14.7	16.7	20.3	23.0	24.7	25.2	24.7	24.5	20.2	19.6	18.1	13.2	6.7	5.7	10.7	11.8	
23**	15.4	13.3	17.1	21.8	21.6	19.0	19.7	15.9	15.9	14.9	17.9	19.8	21.2	22.3	23.5	23.2	20.2	17.8	16.8	13.4	12.2	14.0	16.3	18.8	
24	18.9	18.7	18.4	18.5	17.9	17.2	16.8	18.6	15.8	15.9	17.7	20.8	22.3	23.0	23.3	22.8	17.6	16.1	18.8	18.5	18.7	2	18.3	17.9	
25*	18.2	18.7	19.5	19.3	19.8	20.8	18.1	16.3	14.9	15.0	15.1	20.1	22.9	23.7	23.8	22.7	21.9	20.2	19.3	18.8	18.8	18.2	17.3	17.7	
26	19.8	19.8	17.2	17.8	17.8	18.2	18.3	17.4	15.5	15.1	17.3	20.0	23.2	25.2	24.0	22.4	20.1	19.2	18.8	19.0	18.9	18.9	18.4	18.3	
27	17.8	17.8	17.7	17.5	17.1	17.5	17.0	15.6	14.5	15.8	18.8	21.2	22.9	24.0	23.7	22.2	21.2	19.6	17.2	16.8	15.7	16.9	18.4	18.2	
28*	17.9	18.2	18.2	17.9	18.2	17.9	17.4	15.8	14.9	15.4	17.5	21.2	23.7	24.8	23.8	22.5	21.0	19.7	19.0	19.2	18.4	16.9	15.5	15.8	
29**	16.2	17.3	17.4	15.9	14.8	15.7	16.2	14.7	13.2	14.5	17.5	21.5	25.8	27.2	29.1	29.8	27.5	22.5	20.8	18.4	2.2	-0.2	6.9	6.2	
30**	5.2	5.4	6.4	9.1	10.4	13.7	13.2	15.2	14.7	16.4	19.5	21.4	24.4	26.8	26.6	24.6	22.7	20.7	20.3	19.8	18.8	10.7	13.7	10.8	16.2
31	16.8	19.9	17.8	15.5	17.2	17.2	15.8	15.7	15.6	17.0	18.0	21.4	24.1	25.3	24.9	24.2	21.6	16.0	15.8	18.1	14.8	16.9	13.6	15.4	17.3
Mean	17.3	17.5	17.8	18.0	17.7	17.7	17.6	16.9	16.2	16.7	18.9	21.5	23.7	24.4	24.2	23.0	21.2	19.6	18.8	18.1	16.2	15.4	16.1	16.9	
Mean*	18.0	18.5	18.7	18.5	18.5	18.6	17.9	16.6	15.6	15.7	17.6	20.6	22.8	23.8	23.2	22.2	20.8	20.0	19.5	19.3	18.7	18.2	17.0	16.7	
Mean**	14.9	14.8	16.0	16.9	16.3	16.5	17.5	15.5	15.8	15.5	16.3	19.8	21.9	24.5	26.0	26.1	24.2	22.4	19.8	15.9	16.4	9.5	11.8	14.0	15.1
April																									
10° + Tabular Quantities																									
1	17.1	16.8	19.2	14.7	13.2	15.8	14.7	14.2	14.6	16.8	21.2	23.1	24.3	24.9	24.0	23.4	20.4	19.3	13.6	14.1	16.9	17.2	17.6	19.7	
2	16.9	15.4	15.2	15.1	14.2	13.7	13.5	15.7	13.8	15.8	18.9	22.8	24.6	25.3	22.8	20.8	20.0	18.7	17.8	17.8	15.7	16.2	16.8		
3**	12.6	18.5	8.8	6.0	13.4	16.8	15.1	16.2	14.4	16.1	19.8	24.5	26.1	26.3	24.2	21.1	18.6	13.8	16.4	19.3	18.3	17.5	16.4	19.3	
4	14.3	16.0	18.5	21.3	15.9																				

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																										
1**	14.3	11.8	15.3	17.2	17.5	22.3	22.3	17.9	16.8	20.8	22.5	23.0	25.4	27.0	24.0	24.6	22.3	18.7	15.0	12.6	12.8	15.8	12.2	12.5		
2	17.8	13.8	12.9	11.9	13.0	14.3	13.3	13.4	13.5	14.2	17.5	19.3	21.5	24.8	25.9	21.0	18.4	18.8	15.6	15.2	15.8	16.1	15.0	16.8		
3	20.9	18.5	17.3	16.4	16.4	15.4	14.0	12.4	12.8	14.4	17.5	21.0	23.1	24.4	24.3	22.9	20.3	20.4	19.4	19.2	17.1	15.8	12.0	9.7		
4	13.7	15.4	16.5	16.5	16.1	16.7	15.7	13.4	15.9	18.0	20.4	22.1	22.6	23.0	22.6	21.7	20.9	20.8	20.4	19.1	18.1	15.4	14.1	16.4		
5	16.4	16.9	16.3	16.5	16.4	15.3	13.4	13.8	14.1	16.0	18.3	22.4	23.5	25.4	23.4	22.0	20.6	19.7	18.5	17.9	17.8	16.0	15.3	17.0		
6	19.5	17.4	16.5	15.7	15.4	14.3	13.4	12.8	13.3	15.6	18.8	21.8	24.0	23.7	23.1	22.0	20.7	19.4	18.9	18.4	18.2	17.7	17.4	17.1		
7*	16.5	16.8	17.8	19.4	16.7	14.4	13.0	13.3	13.8	16.1	19.8	22.9	25.4	24.1	22.1	20.8	19.3	18.2	18.0	17.7	17.9	17.6	17.4	16.9		
8*	16.0	16.0	16.4	16.0	16.0	15.4	15.0	14.4	15.2	17.1	20.3	22.4	23.7	22.5	20.6	19.9	18.8	18.4	18.2	18.7	17.8	17.8	17.5	17.4		
9*	16.8	16.5	16.4	16.2	15.4	13.5	12.7	12.9	14.0	15.7	18.4	21.4	23.5	23.5	21.9	20.0	18.5	18.2	17.6	18.1	18.2	18.4	18.1	17.7		
10	17.9	17.3	16.2	15.4	14.7	13.7	12.4	12.2	12.7	14.5	18.0	21.3	22.4	22.4	22.5	22.3	21.2	19.8	19.6	19.8	19.0	18.9	18.5	17.7		
11	17.4	16.3	16.1	15.4	15.0	13.1	12.4	12.7	14.3	15.9	19.0	21.4	23.1	23.8	23.5	23.4	23.0	20.4	19.4	19.4	19.2	15.9	15.2	16.8		
12	16.9	17.3	17.5	22.3	20.4	14.4	13.4	14.3	14.4	15.4	18.5	22.1	23.6	23.4	22.3	21.5	20.4	18.6	17.9	17.9	16.8	18.2	18.0	17.9		
13	16.9	17.3	16.7	15.4	15.3	14.4	13.4	14.5	15.4	17.0	18.3	20.0	22.4	22.8	24.8	23.4	21.4	16.5	17.3	18.1	16.8	14.1	16.3	17.0		
14	16.8	17.4	20.4	18.4	15.4	13.2	12.1	11.6	12.1	14.4	17.4	20.0	20.8	20.7	20.6	21.0	19.9	18.4	18.2	18.2	18.3	18.1	17.5	14.8		
15**	18.0	14.9	13.8	20.0	22.8	20.8	16.7	16.9	17.4	16.8	19.8	20.9	22.7	21.8	21.9	20.0	17.8	17.0	16.9	17.3	15.2	16.4	15.2	15.9		
16	16.1	16.4	16.5	15.7	15.0	13.5	12.7	11.5	12.1	14.9	19.4	23.9	25.7	23.7	21.6	21.2	19.4	18.3	15.4	16.8	12.8	17.1	17.8	16.5		
17	18.9	20.9	18.0	15.8	14.4	12.9	15.8	15.6	13.9	16.0	18.2	22.1	24.0	23.8	23.0	22.8	21.0	17.0	17.1	17.6	13.8	19.8	15.4	19.3		
18**	21.6	19.2	17.9	14.0	20.6	22.9	20.8	12.4	10.4	13.5	16.1	19.4	20.8	21.3	20.9	18.8	19.4	18.3	16.5	15.4	16.1	16.8	16.8	14.9		
19	16.0	17.4	17.5	17.0	25.2	21.5	16.0	15.0	13.8	15.0	17.4	20.3	23.0	23.1	22.3	22.0	21.3	20.0	18.7	17.4	12.8	12.4	15.2	15.8		
20	16.5	17.8	17.0	16.4	15.4	14.2	13.0	12.2	12.8	14.2	16.8	20.0	20.9	21.4	21.8	20.9	19.3	18.5	16.8	16.4	17.2	17.1	17.7	17.9		
21*	15.2	16.8	16.8	16.4	15.4	14.5	14.7	13.5	13.0	14.8	17.8	20.4	21.9	22.0	22.4	22.0	21.1	18.7	17.3	16.8	17.3	17.4	17.4	17.3		
22*	17.0	16.8	16.4	15.6	14.8	13.5	11.8	11.4	11.1	13.4	17.6	21.2	22.9	22.0	21.4	20.0	18.5	17.1	17.4	17.4	17.3	16.9	17.0			
23	17.0	16.8	16.4	16.1	15.0	14.4	13.3	13.4	13.2	16.4	18.8	21.8	22.4	23.4	22.8	22.5	22.0	20.9	19.7	19.3	17.7	14.0	13.5	13.9		
24**	13.2	11.1	12.9	10.4	12.3	9.8	10.8	10.4	12.4	14.1	17.2	20.1	20.8	23.0	23.8	23.3	22.3	22.4	20.4	17.4	17.0	15.5	11.4	14.8		
25	11.4	14.9	16.4	11.8	11.8	13.8	12.3	14.4	17.9	16.7	18.4	20.4	21.7	24.8	22.2	23.5	22.7	21.7	21.0	17.1	17.3	17.8	13.7	14.4	14.4	
26	15.9	16.3	15.9	14.9	13.3	12.8	13.0	13.7	14.5	15.4	16.5	19.0	20.9	22.2	21.9	21.6	22.2	20.5	18.9	18.9	18.5	16.7	14.1	11.8		
27	15.9	13.4	10.4	10.6	13.1	13.1	14.4	15.4	14.9	16.8	19.0	21.1	21.8	22.6	22.4	22.4	22.8	21.8	20.9	17.8	17.0	15.9	14.8	12.5		
28**	12.3	13.8	21.8	15.4	15.2	16.8	17.8	15.4	14.4	16.2	18.0	19.9	21.4	22.8	22.4	21.8	20.7	19.8	17.5	17.4	17.0	17.5	19.4	15.4		
29	13.0	13.9	14.1	15.5	17.8	14.9	13.4	13.6	12.9	14.4	16.5	18.8	20.8	21.9	21.4	20.7	19.9	18.8	18.0	16.0	16.4	16.1	17.0	17.0		
30	16.9	16.8	18.8	16.8	14.4	12.6	12.5	14.3	13.8	14.4	15.7	18.0	20.0	22.0	21.6	20.9	19.4	17.8	17.4	17.0	16.9	16.9	15.4	16.5		
31	15.9	16.0	16.2	15.6	15.3	13.5	11.8	11.9	12.5	13.9	16.0	18.6	21.9	22.8	23.0	22.5	20.6	19.9	19.1	18.8	18.5	17.8	16.9	15.4		
Mean	16.4	16.2	16.4	15.8	16.0	15.0	14.1	13.6	13.9	15.6	18.2	20.9	22.5	23.1	22.6	21.7	20.5	19.2	18.0	17.6	16.9	16.6	15.9	15.9		
Mean*	16.3	16.6	16.8	16.7	15.7	14.3	13.4	13.1	13.4	15.4	18.8	21.7	23.5	22.8	21.7	20.5	19.2	18.1	17.7	17.6	17.7	17.5	17.3			
Mean**	15.9	14.2	16.3	15.4	17.7	18.5	17.7	14.6	14.3	16.3	18.7	20.7	22.2	23.1	22.8	21.7	20.4	19.2	17.3	16.0	15.6	16.4	15.0	14.7		
June																										
1	15.9	16.2	15.9	14.7	14.4	12.8	12.4	12.9	13.9	16.4	18.3	19.6	20.4	20.9	20.9	19.7	19.4	18.7	18.6	18.5	17.3	10.8	13.9	15.7		
2	16.3	16.0	15.8	16.1	14.4	12.5	12.1	11.4	12.9	15.2	18.3	21.4	21.8	20.8	21.2	20.4	19.4	18.5	18.8	19.1	18.9	18.3	17.9	18.0		
3	17.9	17.0	16.9	16.0	14.8	13.8	13.8	14.4	14.4	14.9	16.7	20.1	22.8	22.4	21.8	20.7	19.8	18.7	18.1	18.0	17.6	17.4</td				

MAGNETIC OBSERVATIONS, ABINGER 1943.

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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*	15.5	15.8	15.6	15.2	13.8	11.8	11.2	11.7	11.2	13.2	14.8	17.2	18.7	20.5	21.8	20.4	18.8	18.0	17.5	17.3	17.2	17.0	16.8	16.3	
2	15.7	15.5	15.4	14.3	13.6	11.8	11.6	11.9	12.3	13.6	15.4	18.2	20.2	22.7	23.6	22.2	19.8	18.7	18.8	18.6	17.2	17.7	17.4	13.6	
3	11.1	12.6	12.1	10.2	12.4	14.6	14.6	13.2	15.3	14.2	14.0	17.6	21.6	23.0	23.2	21.5	20.2	18.8	17.9	17.3	16.5	16.2	15.8	15.8	
4**	15.1	13.9	13.6	13.1	11.7	9.3	8.6	9.5	10.4	11.6	15.2	19.5	20.1	22.6	22.7	23.1	24.1	19.9	20.7	17.1	6.9	15.0	16.0	16.1	
5**	15.1	17.0	12.1	13.6	12.5	15.4	14.5	14.0	13.1	14.1	14.1	17.1	20.1	23.1	23.0	22.5	22.4	19.9	16.5	13.8	14.2	14.8	7.6	10.3	
6**	11.9	14.2	21.2	17.2	13.2	15.2	16.3	12.6	11.9	13.2	17.7	19.2	18.8	20.2	22.2	20.2	17.3	19.2	18.2	16.9	14.1	13.6	15.8	13.3	
7	13.9	17.1	14.3	12.2	12.7	16.3	15.7	13.3	12.2	11.9	15.0	17.6	20.0	20.7	21.1	20.0	18.8	19.4	19.0	18.2	16.4	12.4	12.2	13.4	
8**	14.0	11.0	12.5	13.3	15.6	13.8	15.4	14.1	14.9	11.9	13.4	16.7	17.4	19.4	19.3	18.9	19.9	19.2	19.4	15.9	14.6	16.3	16.4	16.0	
9**	15.4	14.4	18.1	17.0	17.4	17.5	18.9	20.4	17.4	15.8	14.4	14.4	16.2	18.5	20.5	21.0	21.4	20.4	13.8	15.4	14.1	14.4	15.1	15.8	
10	15.7	15.4	17.4	18.8	12.7	14.0	11.9	13.4	13.6	14.3	14.7	16.8	18.8	21.0	18.1	19.4	19.8	17.4	17.8	17.5	17.3	17.0	16.9	16.0	
11	15.7	16.8	16.3	15.7	15.0	13.8	16.9	15.8	18.1	16.0	16.4	17.9	19.8	19.5	18.7	19.5	18.4	15.8	15.8	17.4	16.9	15.8	13.3	15.0	
12	12.3	12.4	13.0	15.2	14.4	13.3	14.7	12.9	13.7	15.3	16.4	17.9	18.5	19.4	20.4	21.1	19.5	18.4	17.8	16.9	14.1	13.3	15.8	17.1	
13	18.3	15.8	12.3	13.4	13.9	13.6	12.3	11.5	10.5	13.4	14.9	16.5	18.4	19.4	19.9	19.9	19.0	18.5	16.7	17.6	15.6	17.9	16.1	15.8	
14*	17.0	16.5	15.0	14.0	13.3	12.4	12.4	12.0	12.5	14.0	16.1	19.4	21.3	21.4	20.4	19.3	17.8	16.8	16.0	16.0	15.8	16.1	16.5	16.4	
15	15.9	15.7	15.1	16.1	14.2	12.2	11.5	10.8	12.3	12.9	15.6	18.4	20.0	21.1	22.0	21.9	19.8	18.1	16.8	13.2	14.6	13.9	14.7	15.2	
16	14.4	15.5	17.0	14.8	13.0	10.1	10.0	11.4	12.8	15.0	17.8	19.5	22.7	24.3	24.3	22.0	21.4	18.8	16.3	16.4	14.8	14.0	14.4	15.5	
17	16.0	18.5	14.7	12.2	12.8	11.8	11.8	11.8	12.0	13.7	17.4	19.5	20.9	21.8	21.8	20.9	19.4	18.6	17.4	16.5	15.7	17.0	16.7	13.5	
18	12.4	13.4	13.9	13.9	13.0	11.0	11.0	9.8	8.5	10.2	14.3	18.8	22.7	26.0	24.8	23.1	20.4	18.5	18.4	15.6	11.5	11.8	14.4	12.5	
19	13.5	13.0	17.3	17.0	13.9	11.4	13.4	14.9	12.2	12.4	13.0	15.0	17.9	20.9	21.4	21.4	19.8	18.9	17.1	16.4	13.0	10.9	12.7		
20	14.0	13.9	16.6	14.0	13.3	11.9	12.4	12.0	11.9	12.3	13.9	17.0	20.3	23.3	24.3	21.9	18.4	19.0	18.4	17.6	16.4	16.7	15.8	15.0	
21	12.8	14.8	12.7	12.8	13.9	14.2	14.9	13.1	11.4	11.2	13.7	15.7	18.4	20.8	21.8	22.4	21.2	17.0	17.5	17.8	17.0	15.2	15.8	15.3	
22	14.5	13.0	15.4	16.8	14.6	13.7	13.0	11.9	12.4	13.0	14.0	15.7	17.8	19.8	19.9	20.0	20.0	19.4	16.3	15.7	16.3	16.1	15.5	13.4	
23	14.0	14.3	15.3	14.6	14.4	12.8	12.6	12.4	12.2	13.0	15.5	18.4	20.7	21.6	22.8	22.8	21.5	19.8	18.1	16.7	16.1	15.8	14.9	14.4	
24*	13.7	12.3	12.9	12.8	14.8	14.8	13.5	12.8	11.5	11.4	13.6	16.7	19.3	21.2	21.0	20.4	18.8	17.8	16.8	16.1	15.9	16.0	16.0	15.4	
25*	15.1	15.0	15.3	14.3	14.1	14.4	16.4	12.0	13.7	15.2	17.5	19.4	20.3	20.2	19.0	17.9	17.5	17.4	17.3	17.2	16.4	14.4	14.6	14.6	
26	14.7	14.4	14.1	13.5	13.6	12.4	11.4	10.4	10.9	12.1	13.9	17.4	20.6	22.0	22.1	20.7	18.4	17.6	17.3	16.5	12.8	16.5	16.7	15.1	
27	15.0	15.0	10.4	12.4	13.9	15.0	14.4	12.5	12.3	13.2	14.8	17.9	19.5	20.9	21.4	20.7	18.4	17.8	17.3	16.6	16.8	16.3	15.4	15.0	
28	14.5	14.5	14.4	13.9	13.4	13.2	11.5	11.1	10.4	11.2	14.0	17.5	20.0	21.1	20.3	19.5	18.4	17.3	16.8	16.8	16.4	15.9	16.0	14.8	
29*	15.0	15.0	16.1	13.8	12.1	11.4	10.5	10.4	11.4	13.4	15.9	18.4	20.0	20.8	20.9	19.8	18.4	17.4	16.8	16.5	17.0	16.3	14.8	14.8	
30	14.4	15.3	14.2	13.8	13.1	11.0	11.5	10.4	10.4	11.1	12.8	17.3	19.4	24.0	26.4	25.5	23.9	20.4	17.7	17.6	9.3	11.4	15.5	15.4	14.1
31	11.5	11.4	11.9	13.2	12.5	11.4	11.5	12.4	12.3	14.5	17.9	22.0	25.4	26.7	24.9	23.1	19.9	16.7	15.8	15.4	14.8	12.5	13.1	14.4	
Mean	14.5	14.6	14.7	14.3	13.7	13.1	13.0	12.5	12.4	13.2	15.2	17.8	20.0	21.6	21.8	21.0	19.7	18.4	17.4	16.4	15.3	15.4	15.0	14.6	
Mean*	15.3	14.9	15.0	14.0	13.7	12.8	12.1	11.8	11.8	13.1	15.1	17.8	19.7	20.8	20.9	19.8	18.3	17.5	16.9	16.6	16.6	16.5	16.2	15.5	
Mean**	14.3	14.1	15.5	14.8	14.1	14.2	14.7	14.1	14.1	13.5	13.3	15.0	17.4	18.5	20.8	21.6	21.1	19.7	17.7	15.8	12.8	14.2	14.3	14.3	
August																									
1	17.9	17.6	13.9	12.6	11.8	10.5	10.9	13.4	14.4	15.3	17.4	21.5	23.8	22.9	22.4	21.0	19.5	14.8	15.5	15.9	14.6	12.9	14.7	15.6	
2	14.9	16.2	19.0	16.8	14.9	12.9	15.2	12.1	12.4	13.7	16.3	20.9	22.9	25.4	24.0	20.1	19.9	19.0	12.0	16.1	16.2	15.4	14.2	12.6	
3	12.7	15.4	12.4	14.4	16.9	13.9	14.4	14.5	14.5	14.7	14.4	17.4	20.0	21.4	19.5	19.9	18.3	16.9	15.0	10.0	12.9	15.4	13.1	10.6	
4	11.3	14.9	14.4	16.4	15.4	14.4	12.4	14.9	13.8	14.8	16.4</td														

MAGNETIC OBSERVATIONS, ABINGER 1943.

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	
September																										
1	20.5	13.1	14.4	13.5	11.4	12.4	14.9	13.8	14.3	13.8	16.8	18.8	19.9	20.8	19.8	16.8	15.9	8.8	10.2	13.7	15.4	15.0	14.4	13.3		
2	13.0	10.1	19.4	13.1	11.6	13.8	14.8	14.5	14.7	16.0	18.4	18.4	21.1	20.5	15.5	16.4	17.3	16.5	13.4	8.4	14.8	12.0	11.1	9.4		
3**	10.5	16.0	13.9	14.0	18.4	20.1	19.4	14.4	14.4	13.9	14.5	15.1	17.5	20.8	19.4	15.7	16.0	9.3	13.0	13.1	12.2	15.1	16.2	9.3		
4	10.7	13.3	14.0	13.6	14.0	15.8	17.4	16.8	14.1	14.4	15.5	16.4	17.4	19.1	16.8	15.6	16.0	11.5	10.8	8.7	13.0	14.0	14.3	13.5		
5	13.8	15.9	16.0	19.2	13.4	13.8	12.5	11.4	12.2	12.5	14.4	14.5	16.6	18.5	18.8	12.4	14.4	13.4	13.0	12.9	12.5	10.4	12.4			
6	13.8	15.4	13.5	13.5	12.9	13.5	13.3	12.4	11.5	11.4	12.6	14.4	17.4	18.9	19.3	18.0	16.1	14.3	11.7	14.8	15.1	14.7	14.5	14.0		
7*	13.5	15.4	13.5	13.4	12.4	12.5	12.5	12.4	12.5	13.3	16.4	18.4	20.0	19.0	17.9	17.8	17.4	15.2	15.4	15.8	14.9	14.0	13.0			
8	13.3	10.5	10.1	9.4	10.4	10.6	10.5	10.5	11.4	12.5	15.4	19.1	19.4	19.0	20.5	18.8	19.5	19.0	4.4	12.7	11.1	4.1	12.8	8.4		
9	6.4	10.9	6.8	7.3	13.5	12.8	11.4	11.2	12.3	13.1	14.4	17.8	19.4	20.7	21.6	19.5	18.4	16.7	14.5	12.5	13.9	16.0	13.0	3.9		
10	8.9	8.4	14.9	11.2	9.3	10.9	11.4	11.0	11.0	13.6	16.2	19.4	20.3	18.6	19.5	16.5	15.2	16.7	15.4	16.0	13.8	12.8	12.3	10.4		
11	10.8	17.9	18.8	12.0	12.0	11.0	11.3	11.4	12.4	12.8	13.9	16.9	20.0	22.2	19.0	18.3	16.9	14.8	15.0	15.3	14.8	6.5	5.6	10.4		
12	17.3	13.2	13.3	12.9	11.6	11.8	11.7	11.0	11.4	12.4	16.5	17.9	18.8	20.0	19.0	17.4	16.5	15.8	8.5	9.8	12.8	14.9	14.8	14.3		
13	12.4	14.1	10.4	15.5	11.5	11.8	12.8	12.0	11.8	13.9	16.4	21.4	20.4	20.9	20.2	18.0	12.4	15.0	9.6	11.9	13.2	13.4	13.5	12.9		
14	16.8	13.3	10.1	11.9	14.3	11.9	11.4	12.3	12.6	15.9	17.9	21.5	21.4	19.2	18.4	17.0	15.2	14.8	14.9	14.8	6.7	11.0	11.7	16.7		
15	12.9	10.9	11.3	12.2	12.3	12.3	12.3	11.5	11.4	13.0	16.3	18.9	20.7	20.9	18.9	15.3	16.4	16.0	13.9	9.3	13.1	13.0	17.7	13.7		
16*	12.8	11.9	12.6	12.3	12.9	12.5	11.9	11.8	11.7	13.5	15.6	17.6	18.9	19.4	18.7	17.4	13.4	16.4	16.1	14.6	12.2	12.9	12.3	12.8		
17	11.8	10.7	9.3	10.3	13.7	14.3	12.9	11.4	12.0	13.2	15.3	17.8	19.1	20.0	18.7	16.3	16.1	15.3	15.2	14.3	11.5	12.3	13.2	13.5		
18*	12.7	12.7	12.3	12.9	12.9	13.3	12.3	11.3	10.3	11.5	14.1	15.4	16.9	17.3	17.2	16.4	15.9	15.4	15.3	15.1	15.2	12.4	6.7	3.7		
19	11.7	12.7	13.6	13.2	12.9	13.0	15.3	12.3	11.3	12.1	14.5	16.7	17.7	18.2	17.9	17.2	16.7	15.8	13.7	14.8	14.4	14.2	11.3	11.7		
20*	12.7	12.9	13.6	12.3	12.8	13.7	12.9	11.4	11.0	11.7	13.7	16.4	19.7	20.3	20.8	18.9	18.4	18.3	16.6	16.0	16.3	14.3	10.7	13.9		
21	8.7	9.6	7.1	10.8	11.0	11.0	11.2	12.9	12.2	12.8	14.3	16.5	18.9	20.2	19.9	18.9	17.4	15.8	15.6	8.1	12.3	13.4	12.3	10.8		
22	12.8	14.7	13.2	11.7	14.8	13.2	13.0	13.2	12.3	13.2	15.3	17.8	20.5	20.5	18.8	18.3	17.3	11.9	12.5	12.0	12.6	13.9	14.3	14.3		
23	15.1	16.9	14.4	15.9	13.8	12.4	13.4	12.2	11.7	12.9	14.8	18.8	19.6	19.1	18.6	17.7	17.0	15.6	14.8	14.0	12.4	10.7	10.0	9.9		
24*	15.1	14.8	13.3	12.5	12.4	12.3	12.0	10.9	10.6	11.5	14.3	17.0	19.1	18.9	19.0	17.7	16.5	15.8	15.9	15.3	12.8	13.1	13.0	13.3		
25	13.9	13.8	13.3	13.4	13.3	13.0	12.5	15.8	13.9	12.7	13.3	18.0	17.5	20.0	18.0	17.5	16.2	14.3	14.4	13.8	13.0	12.8	13.0	12.8		
26**	12.7	13.2	13.7	14.1	13.4	16.4	16.1	14.7	13.9	13.6	13.6	17.1	19.4	21.5	24.4	19.7	16.9	12.2	12.8	13.0	8.9	8.9	9.9	10.6		
27	13.7	18.4	16.9	14.4	12.7	15.4	13.1	12.4	13.3	13.4	14.7	16.3	18.0	19.7	18.4	15.9	16.5	14.0	1.5	1.7	9.4	9.0	10.5	10.2		
28**	20.4	11.1	7.8	16.3	17.8	14.9	14.4	13.3	12.3	11.9	13.2	16.6	19.8	16.4	19.4	16.3	16.0	9.3	9.4	11.1	10.0	6.8	10.1	9.9		
29**	9.0	15.5	17.0	19.8	18.8	17.5	14.3	15.4	14.5	14.0	15.7	21.4	21.0	19.5	12.7	15.4	10.8	9.7	1.9	3.0	11.4	12.3	15.7	11.1		
30**	10.5	18.4	20.9	17.5	21.5	15.4	13.9	12.9	11.5	11.8	13.8	13.1	16.8	17.0	17.6	12.9	15.1	16.3	3.8	8.3	9.4	0.2	5.8	6.8		
Mean	12.9	13.5	13.3	13.3	13.5	13.4	13.2	12.6	12.4	13.0	15.0	17.4	19.1	19.6	18.9	17.2	16.1	14.6	12.1	11.8	12.7	11.9	12.2	11.4		
Mean*	13.4	13.5	13.1	12.7	12.7	12.9	12.3	11.6	11.2	12.1	14.2	16.6	18.6	19.2	18.9	17.7	16.4	16.7	15.8	15.3	14.5	13.5	11.3			
Mean**	12.6	14.8	14.7	16.3	18.0	16.9	15.6	14.1	13.3	13.0	14.2	16.7	18.9	19.0	18.7	16.0	15.0	11.4	8.2	9.7	10.4	8.7	11.5	9.5		
October																										
1**	8.7	16.0	14.0	14.4	18.3	15.4	14.1	12.9	12.7	13.1	16.3	17.8	19.8	16.8	10.1	14.0	15.4	13.4	14.4	10.7	8.4	10.9	12.1	17.8		
2**	8.3	9.8	8.5	10.1	11.8	12.6	16.0	13.0	12.2	13.9	14.8	17.3	20.4	17.8	17.8	18.1	5.1	11.5	2.8	13.5	7.8	9.9	10.6	19.6		
3**	12.4	11.8	12.4	12.3	14.8	15.1	16.2	14.4	16.8	15.1	17.9	19.4	19.8	18.8	13.7	14.7	8.4	10.4	11.8	10.7	9.8	9.1	4.5	10.3		
4	14.9	12.3	19.1	13.4	12.8	14.8	15.9	12.3	11.1	11.8	13.8	15.9	18.3	16.7	16.8	16.8	10.0	13.5	14.3	14.2	12.4	12.5	12.9	12.4		
5	12.4	17.4	14.2	13.0	12.9	14.1	13.8	12.4	11.0	11.8	13.3	16.0	17.5	17.8	16.9	16.0	15.2	14.8	12.4	7.9	10.4	13.3	13.4	14.5</		

MAGNETIC OBSERVATIONS, ABINGER 1943.

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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	9.6	13.9	13.5	13.2	12.2	13.6	14.8	13.7	13.6	14.6	14.3	18.4	18.9	11.5	15.1	15.2	12.2	8.8	8.4	10.4	9.3	9.1	10.7	10.4	/	
2	14.2	14.7	12.8	13.2	13.0	12.5	13.1	12.2	11.5	11.9	13.1	15.2	16.3	16.4	15.2	14.9	13.2	12.9	12.2	12.2	12.3	12.1	12.4	12.2	/	
3	12.2	12.5	12.7	13.1	12.7	12.7	13.1	12.3	11.3	11.2	13.1	15.6	16.2	15.9	15.2	14.1	14.5	13.6	13.1	11.9	11.7	11.2	10.2	10.2	/	
4	12.2	12.5	12.8	12.8	13.1	13.1	12.4	12.2	12.1	10.5	12.0	14.5	15.9	16.6	16.6	15.6	14.7	14.8	14.1	13.3	12.9	12.8	9.8	8.2	/	
5	11.6	12.8	12.6	12.2	12.3	10.3	11.6	11.9	11.6	12.6	13.8	15.0	17.7	17.5	20.2	17.8	16.5	15.8	15.2	14.2	12.8	10.8	10.6	11.1	/	
6	11.8	11.6	12.2	14.7	11.1	11.1	11.3	12.2	11.6	12.0	13.6	14.7	17.1	18.1	17.3	18.2	8.9	-3.9	7.2	9.5	7.9	8.7	12.2	11.2	/	
7	10.3	14.3	11.9	11.3	12.1	12.0	12.1	12.4	11.2	11.1	13.1	15.3	16.9	16.5	15.6	14.8	14.7	14.7	14.3	14.0	4.8	9.0	11.8	12.9	/	
8	14.3	13.4	12.7	11.3	12.4	12.0	13.2	13.0	12.8	11.5	13.1	15.3	15.6	15.4	15.2	13.8	14.1	14.1	12.0	12.7	10.6	8.9	10.3	10.0	/	
9	12.4	11.7	14.1	11.4	11.8	12.0	12.4	13.3	12.4	13.4	14.9	16.4	16.4	15.5	14.4	13.5	14.0	12.4	13.6	11.7	12.0	11.9	11.4	11.8	/	
10	11.5	11.3	12.8	12.1	11.8	12.4	12.0	12.0	11.5	12.3	13.4	15.2	16.1	15.5	14.4	13.5	14.3	13.8	13.6	4.4	2.5	10.4	11.9	11.9	/	
11*	13.3	13.2	12.9	12.5	12.3	12.4	11.9	11.4	11.0	11.5	12.7	14.0	15.3	14.9	13.8	12.9	12.9	12.8	12.1	11.7	11.9	12.3	12.5	12.9	/	
12	13.0	13.2	13.1	13.0	13.1	13.1	13.0	12.5	12.2	12.6	14.5	16.6	18.2	19.1	16.3	14.6	13.9	13.2	13.0	11.6	12.5	11.6	12.1	12.4	/	
13*	12.7	13.0	13.2	13.3	13.1	13.1	13.0	12.5	11.6	12.2	14.0	16.5	17.2	17.0	16.0	14.7	14.5	14.8	13.5	11.9	9.9	8.2	8.5	10.5	/	
14*	12.4	12.6	12.8	12.7	12.4	12.9	12.0	11.5	11.5	12.5	13.7	15.2	16.0	15.5	14.9	14.1	13.9	13.5	11.9	10.6	10.6	11.5	12.4	12.1	/	
15*	13.0	12.7	12.6	13.0	13.0	13.2	13.2	13.1	13.0	14.4	16.0	17.0	16.1	15.1	14.5	15.5	15.4	14.5	13.7	12.9	12.5	12.5	12.3	12.3	/	
16	12.1	11.8	14.5	16.0	12.4	13.5	12.5	12.4	11.5	11.4	12.2	14.6	16.7	17.1	16.6	16.0	15.6	14.4	13.0	9.8	9.5	5.5	9.3	10.8	/	
17*	13.0	13.2	13.0	12.7	12.7	13.0	12.8	12.1	11.6	12.0	13.0	14.6	15.7	15.6	14.7	14.0	13.7	13.4	12.9	12.5	12.5	12.2	12.1	11.7	/	
18	11.6	12.1	13.0	13.1	13.1	13.1	13.5	12.6	12.1	12.0	12.9	14.3	15.9	15.5	14.2	14.1	14.9	12.5	12.5	11.5	11.5	11.9	12.4	/		
19**	12.9	13.0	13.3	16.1	16.6	15.9	14.0	14.1	14.9	19.6	16.4	17.4	15.1	15.2	16.1	18.9	14.7	10.1	5.9	0.2	8.5	11.1	8.9	9.1	/	
20**	10.5	10.1	16.5	14.9	15.2	17.9	17.7	19.8	17.9	16.9	14.5	14.9	14.1	13.6	12.5	11.2	-1.8	11.5	12.5	8.2	-0.8	8.2	10.6	11.8	/	
21	9.9	10.0	8.5	11.4	13.8	17.4	16.6	17.6	17.3	13.9	15.5	15.4	15.0	14.0	11.6	12.8	6.8	5.9	7.0	2.9	7.9	9.5	9.4	13.0	/	
22	12.4	13.6	13.3	14.5	15.5	17.1	15.9	15.2	13.5	12.5	13.3	14.6	14.9	11.8	13.2	13.4	-0.6	6.2	10.1	7.8	9.5	9.2	11.1	14.5	/	
23	13.5	13.2	14.9	15.1	13.9	13.5	15.1	14.8	14.5	12.9	12.5	14.1	14.6	12.0	15.5	8.5	10.0	7.9	5.5	3.6	2.9	3.9	0.6	6.0	/	
24	10.1	16.9	14.2	12.1	14.9	14.8	13.9	13.9	12.6	12.2	13.5	14.3	17.4	16.1	5.0	13.5	13.6	11.3	-2.5	2.7	8.6	9.5	7.1	10.9	/	
25**	9.2	12.9	15.0	12.1	13.5	14.5	16.0	13.6	13.1	13.0	14.6	16.5	14.1	17.4	10.0	7.0	11.8	0.8	2.6	-2.4	-0.9	-0.8	6.9	13.1	/	
26**	11.7	11.9	12.2	13.1	17.5	18.0	14.5	14.5	12.6	11.9	13.5	13.9	15.1	15.5	10.5	10.5	14.4	8.3	8.8	10.5	13.5	5.1	5.2	13.5	/	
27**	8.4	6.5	8.6	16.4	18.2	16.2	19.1	19.9	16.6	14.1	13.1	14.9	14.5	14.6	11.5	10.5	13.5	12.3	11.9	9.5	8.6	6.9	8.9	11.3	/	
28	6.6	9.9	12.3	13.6	16.1	16.5	15.5	13.4	14.1	14.0	16.9	14.9	14.6	14.0	13.0	12.5	12.9	10.9	0.5	8.8	9.7	10.4	10.9	13.6	/	
29	10.2	14.1	18.6	17.9	16.5	19.5	18.5	17.4	13.8	13.5	14.2	14.2	14.4	14.4	13.5	15.5	10.5	11.9	10.5	3.1	9.1	7.6	9.0	9.7	11.0	/
30	12.1	12.9	12.5	11.6	11.9	12.7	13.1	13.5	13.8	14.6	14.7	15.0	14.8	14.6	15.5	14.0	10.0	12.7	12.0	11.4	11.2	10.7	10.6	11.1	/	
Mean	11.6	12.5	13.1	13.3	13.6	14.0	13.9	13.7	12.9	12.9	13.7	15.2	15.9	15.4	14.4	14.4	13.5	12.3	11.2	10.2	9.3	9.1	9.4	10.1	11.5	/
Mean*	12.9	12.9	12.9	12.8	12.8	12.9	12.6	12.1	11.7	12.3	13.6	15.3	16.2	15.8	14.9	14.0	14.1	14.0	13.0	12.1	11.6	11.3	11.6	11.9	/	
Mean**	10.5	10.9	13.1	14.5	16.2	16.5	16.3	16.4	15.0	15.1	14.2	15.5	14.6	14.6	10.5	8.6	8.6	8.6	8.3	5.2	5.8	6.1	8.1	11.8	/	
December																										
10° + Tabular Quantities																										
1	11.9	12.1	12.5	12.5	12.9	12.8	12.9	12.2	12.4	12.5	12.8	13.4	14.5	14.9	13.9	13.5	15.9	15.5	10.5	13.4	12.4	8.5	10.5	11.5	/	
2	12.0	11.9	11.1	11.3	12.1	11.9	12.3	12.1	12.0	13.1	14.0	14.1	14.2	14.5	14.6	18.0	15.1	16.5	15.8	5.1	5.5	10.0	8.6	7.0	/	
3**	9.6	10.1	13.1	12.7	12.8	11.4	11.5	11.7	11.9	11.3	13.3	15.0	15.5	16.0	16.5	16.0	7.1	7.1	13.0	6.5	9.3	9.6	13.1	13.5	/	

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January		18000 γ + Tabular Quantities (in γ)																							
1	559	560	561	563	567	569	571	571	568	561	560	564	568	572	574	576	580	578	571	551	535	536	529	536	
2	548	553	555	556	561	567	569	567	565	559	554	555	555	555	554	554	551	539	542	549	554	555	552	554	554
3	556	558	564	562	565	574	575	574	573	564	556	553	553	548	548	550	563	565	565	555	557	558	549	557	
4**	570	553	548	551	560	561	564	564	557	558	546	494	509	524	558	557	529	489	514	530	550	565	541	541	
5	547	539	549	543	555	557	555	553	547	539	543	551	555	557	550	546	541	534	543	550	560	573	548	544	
6	549	546	552	552	554	553	562	566	557	545	534	535	546	550	554	554	547	551	554	548	569	559	550	553	
7*	553	557	556	557	557	557	559	563	563	556	554	554	556	559	565	565	566	567	564	561	558	558	556	559	
8	558	558	557	559	562	564	566	566	565	559	554	555	556	563	568	568	564	561	556	551	543	542	556	570	
9	551	547	563	565	571	568	570	557	550	555	555	550	549	554	556	560	564	554	554	553	554	556	554	554	
10	553	554	555	555	555	560	562	563	562	559	555	552	560	569	566	565	563	558	558	550	548	559	556	546	
11*	548	554	556	557	560	565	566	569	570	570	567	564	564	565	566	562	559	566	564	564	562	563	559	560	
12	558	560	560	560	560	577	577	571	570	562	554	553	555	555	558	565	568	564	561	562	558	550	550	551	
13*	555	561	560	559	562	564	567	570	570	568	556	548	558	561	560	560	567	566	565	567	565	569	565	565	
14*	561	560	561	563	563	565	570	572	572	564	566	566	565	566	570	571	572	572	571	570	569	566	564	562	
15*	561	561	561	563	567	572	574	576	576	570	569	566	568	567	568	569	570	571	574	572	567	567	560	564	
16	563	565	566	567	569	571	574	577	573	573	567	565	565	564	556	546	548	551	547	550	554	553	559		
17**	565	554	559	565	570	574	581	574	579	584	556	523	524	529	540	524	548	509	524	534	551	550	555	574	
18	557	550	551	551	555	558	566	560	554	554	556	547	540	549	550	555	556	550	540	543	554	554	555	555	
19	561	556	558	560	559	560	569	560	564	561	548	547	556	549	560	563	560	544	545	550	553	563	560		
20**	560	555	559	560	568	571	558	566	565	551	546	535	546	538	535	525	526	480	492	458	444	470	485	520	
21**	526	520	528	543	544	551	539	546	546	534	497	506	523	537	519	530	537	536	540	538	536	551	566	537	
22**	583	543	541	547	552	556	561	558	551	526	526	534	525	516	515	534	523	517	524	532	535	549	550	537	
23	539	546	545	548	552	549	554	550	551	550	544	536	543	546	550	550	542	547	550	550	548	559	551	550	
24	546	543	543	554	550	555	560	559	555	558	550	534	542	543	550	549	551	553	550	545	551	551	555	555	
25	559	553	553	556	560	560	563	560	561	559	552	550	547	554	558	556	555	557	559	557	560	564	563	560	
26	560	564	569	559	569	573	573	573	567	532	533	549	548	550	554	552	527	554	554	554	555	555	555	560	
27	553	554	557	557	559	560	565	570	566	556	550	547	555	537	537	544	541	553	560	561	562	562	560	556	
28	556	556	559	563	570	567	574	577	568	540	536	536	542	547	546	546	544	555	555	553	567	565	561	557	
29	558	552	560	559	566	565	567	570	565	559	559	550	548	551	556	561	562	566	566	565	566	566	565	559	
30	561	572	558	561	561	569	572	570	562	554	550	552	555	559	564	567	565	566	566	562	561	575	562		
31	559	560	560	563	566	571	573	572	566	559	557	558	560	559	555	556	565	569	561	564	564	561	555	562	
Mean	556	554	556	557	561	564	566	566	563	556	550	546	550	551	554	554	553	550	552	550	551	554	553	554	
Mean*	556	559	559	560	562	565	567	570	570	567	562	560	562	562	564	566	565	565	568	566	565	562	562	562	
Mean**	561	545	547	553	559	563	561	562	560	551	534	518	525	529	533	534	533	506	519	518	523	536	539	542	
February		18000 γ + Tabular Quantities (in γ)																							
1	555	565	558	555	560	563	567	570	567	565	560	561	555	554	557	558	564	560	561	561	556	562	570		
2	560	560	560	562	566	568	570	574	576	577	576	576	574	567	559	560	562	563	573	573	569	563	558	559	
3	556	560	556	560	562	571	572	576	579	574	575	561	556	549	550	559	557	563	567	560	550	545	550	555	
4**	556	556	554	575	564	562	561	560	566	565	550	538	565	561	548	552	552	558	559	553	552	557	554	554	
5	578	571	564	561	563	566	559	562	566	554	563	553	543	556	556	556	559	557	561	560	550	559	556	559	
6	553	559	555	555	560	565	569	562	566	561	555	548	547	559	563	568	564	549	553	558	551	564	559	559	
7	555	557	555	559	554	559	565	566	560	553	554	551	552	562	565	568	567	562	553	555	552	558	560	559	
8	577	555	556	559	565	569	573	574	572	565	558	554	558	559	559	562	567	555	569	549	560	562	562	562	
9	562	562	563	568	568	576	579	582	576	576	561	554	554	554	558	562	562	558	558	563	567	563	561	562	

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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	
March																										
1	562	564	564	564	564	568	573	584	583	578	576	571	569	569	563	562	538	539	541	554	562	567	567	566	568	
2	568	568	563	561	570	572	578	558	516	518	536	540	547	541	538	538	544	545	552	557	556	558	560	559	559	
3	554	552	552	551	555	559	568	573	568	551	536	542	545	542	542	548	544	549	549	551	543	538	532	550	557	
4	568	558	554	559	567	566	571	558	548	551	548	526	535	549	553	552	541	538	539	544	548	595	539	552	552	
5	556	560	549	567	566	557	555	543	552	545	543	542	538	542	546	547	539	537	538	554	552	558	558	560	560	
6	569	558	555	558	560	559	560	558	555	548	545	547	554	555	555	558	556	552	558	562	558	548	558	561	561	
7	566	563	563	561	564	566	564	566	558	548	543	543	540	546	551	554	558	555	564	556	550	551	549	551	551	
8	558	565	548	563	556	558	560	561	560	554	555	552	546	548	551	554	559	550	560	565	562	560	551	552	552	
9	555	553	565	562	563	568	570	567	565	561	559	558	558	565	563	553	554	563	567	559	569	566	562	562	562	
10*	559	566	570	566	567	568	569	571	570	568	561	554	552	557	562	559	560	559	558	556	558	557	557	564	564	
11	554	555	568	563	566	567	569	568	565	552	543	538	542	544	559	569	580	585	588	555	554	538	538	548	548	
12	569	565	548	573	558	565	567	567	568	564	554	550	541	538	558	525	548	547	556	555	561	549	568	568	568	
13*	560	557	562	558	560	562	565	564	560	548	540	538	543	551	550	556	558	563	566	568	568	567	570	570	570	
14	567	563	561	568	574	569	567	573	567	549	547	544	544	549	557	547	555	566	571	570	570	567	568	567	567	
15*	563	564	563	565	569	569	569	569	563	549	539	540	544	551	553	560	561	562	568	573	574	574	572	573	573	
16**	573	569	569	568	575	575	587	578	574	527	483	503	534	527	532	540	533	550	559	549	534	548	558	580	580	
17	547	543	551	553	554	556	558	560	551	541	521	511	521	538	550	552	552	558	558	561	563	567	568	572	572	
18	562	560	563	563	563	563	569	565	549	543	537	536	540	546	553	559	558	553	557	562	569	569	572	572	572	
19	569	568	568	568	570	573	577	577	576	568	558	546	550	558	560	572	558	571	573	576	570	572	564	566	566	
20**	568	570	564	568	572	572	571	574	547	540	538	548	546	541	540	534	558	550	544	546	550	558	562	567	567	
21	569	565	562	558	560	564	561	564	558	546	535	527	539	547	553	556	547	550	564	562	575	575	574	575	575	
22	579	579	573	573	572	573	574	574	568	546	527	533	546	562	564	553	551	558	563	553	558	558	580	571	571	
23**	582	566	528	557	553	548	543	528	523	518	517	514	517	531	545	549	549	562	553	557	577	559	562	568	568	
24	554	555	557	558	562	564	554	553	553	548	541	535	533	518	542	549	554	548	557	560	562	562	563	563	561	
25*	560	562	562	564	559	565	571	568	559	546	535	532	542	538	547	554	562	566	568	568	566	567	564	564	564	
26	571	570	568	565	571	572	570	574	572	560	550	548	555	561	562	565	556	562	563	569	569	573	572	581	581	
27	573	567	568	571	573	575	576	574	572	566	557	551	547	548	552	555	552	554	558	564	564	568	568	568	568	
28*	567	567	568	568	570	571	574	570	558	548	540	540	540	548	552	562	566	570	570	575	575	563	566	568	568	
29**	563	564	570	578	572	565	567	569	560	557	554	558	557	566	569	562	539	563	596	566	505	496	505	523	523	
30**	515	518	533	544	550	540	528	524	522	525	505	513	533	539	523	543	551	560	555	553	568	553	533	535	535	
31	539	535	539	534	542	548	556	553	549	542	528	531	532	542	544	552	549	555	536	542	542	554	565	553	553	
Mean	562	560	559	562	564	565	566	564	557	548	540	539	542	547	552	552	553	556	560	560	559	559	560	562	562	
Mean*	562	563	565	564	565	567	570	568	562	552	543	541	542	549	553	558	561	564	566	568	568	566	565	568	568	
Mean**	560	557	553	563	564	560	559	555	545	533	519	527	537	541	542	546	546	557	561	554	547	543	544	555	555	
April																										
1	544	542	547	548	534	535	542	544	542	529	528	524	525	535	531	529	528	548	555	554	549	554	561	562	562	
2	562	569	556	556	565	563	538	548	541	540	536	535	532	533	530	549	553	561	560	560	557	577	559	579	579	
3**	585	558	557	547	559	561	552	540	541	523	504	517	541	542	557	549	562	562	554	552	555	561	572	599	599	
4	575	546	557	565	561	562	553	542	540	532	534	524	551	556	536	564	552	552	544	573	560	563	564	562	562	
5	576	538	528	557	554	556	556	548	529	518	515	529	542	546	541	557	571	555	550	551	559	568	583	555	555	
6**	550	555	558	552	560	568	569	568	548	502	509	509	495	538	542	529	538	545	554	559	560	570	582	582	582	
7	564	556	564	570	564	564	558	548	543	537	537	538	533	531	543	554	563	563	558	557	564	563</				

TABLE II. - FOURLY 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**	575	565	551	577	557	515	500	496	509	479	489	514	515	523	535	534	544	565	572	549	549	541	559	561	561
2	556	555	549	540	527	530	526	528	512	488	513	522	520	521	521	527	563	565	556	559	559	559	555	562	562
3	559	551	550	550	549	547	542	534	531	533	539	543	542	545	545	555	555	575	562	565	561	559	579	595	595
4	564	568	565	566	562	547	549	544	543	535	531	532	531	542	549	557	567	568	575	575	575	561	579	562	562
5	565	563	565	565	562	561	551	541	537	546	546	551	525	545	545	550	565	565	569	574	571	570	571	570	570
6	579	569	561	564	564	563	559	548	540	535	529	534	535	544	553	549	558	564	575	577	576	575	573	571	571
7*	570	569	565	569	569	568	559	549	540	537	538	538	545	551	555	559	561	565	573	575	574	573	572	577	577
8*	575	575	575	571	571	572	569	561	555	552	558	561	557	558	565	569	575	579	579	577	573	572	571	571	571
9*	571	571	570	567	569	566	560	551	543	543	547	554	552	559	563	566	564	576	579	578	576	575	575	575	575
10	578	576	575	571	572	571	574	569	565	559	557	556	555	561	565	573	590	599	590	588	585	580	580	585	580
11	582	576	574	576	577	580	579	569	560	551	549	547	545	551	565	579	592	591	595	595	599	592	589	589	589
12	584	583	587	579	581	572	575	549	537	545	541	539	541	547	560	567	571	575	579	580	579	579	581	581	581
13	577	581	584	584	591	590	580	559	549	548	548	534	526	534	548	552	551	590	573	580	577	573	577	565	565
14	566	565	562	568	558	559	555	550	544	525	532	525	540	544	550	554	558	578	578	576	578	574	587	587	587
15**	561	591	561	530	543	540	530	526	515	522	525	506	520	534	534	550	563	566	570	566	577	571	568	568	568
16	562	563	564	564	567	568	562	558	550	539	534	534	523	535	559	567	566	574	568	562	567	569	570	572	572
17	569	573	565	574	567	570	570	561	557	539	532	524	529	537	539	559	548	550	577	589	616	603	560	583	583
18**	580	570	533	548	554	575	535	537	520	523	507	499	517	534	537	566	555	561	572	563	567	588	597	559	559
19	564	579	588	569	565	555	559	523	531	534	528	532	525	528	528	539	558	550	563	573	573	578	566	561	560
20	567	559	563	560	558	554	548	544	538	534	534	534	545	554	554	558	560	560	563	565	570	568	568	568	568
21*	568	563	559	560	560	559	554	546	537	532	528	535	544	549	558	568	570	568	573	579	577	575	572	571	571
22*	571	570	569	568	562	562	557	550	547	543	545	547	553	553	564	568	573	575	580	574	572	573	574	576	576
23	580	578	575	574	572	561	557	558	554	553	558	545	545	559	552	566	564	578	587	575	583	568	568	567	567
24**	578	588	595	566	561	554	551	543	535	536	544	556	553	564	560	567	574	574	582	570	561	562	563	560	560
25	551	548	557	551	549	553	548	522	529	531	532	535	543	543	539	524	557	554	562	574	579	568	562	555	559
26	555	559	558	549	553	552	547	546	544	543	547	549	548	549	552	559	566	566	576	577	581	575	573	576	576
27	589	580	569	557	563	559	555	549	540	537	544	546	557	558	557	562	568	578	585	586	577	589	598	573	573
28**	567	559	564	574	541	534	544	541	535	517	516	532	535	544	539	539	567	577	597	573	574	569	582	569	569
29	583	566	564	547	560	559	548	542	538	537	544	543	539	534	543	547	562	568	573	569	577	573	567	568	568
30	570	567	567	565	567	559	546	539	546	543	544	545	550	562	556	555	558	571	575	573	571	573	580	568	568
31	569	567	567	567	564	558	552	544	543	546	549	549	555	563	573	570	571	578	577	587	586	586	589	588	588
Mean	570	569	566	564	562	558	553	544	539	535	536	537	539	546	550	558	563	571	576	575	575	573	574	572	572
Mean*	571	570	568	567	566	565	560	551	544	541	543	547	550	554	561	566	569	573	577	575	575	574	573	574	574
Mean**	572	575	561	559	551	544	532	529	523	515	516	521	528	540	541	548	558	568	578	565	563	567	574	563	563
June	18000 γ + Tabular Quantities (in γ)																								
1	589	587	583	581	577	578	567	559	549	543	557	567	568	583	587	585	583	583	589	597	585	578	579	569	569
2	573	573	573	573	573	570	564	561	554	547	542	546	552	569	583	580	573	573	577	581	577	577	579	575	575
3	575	571	569	573	569	564	556	545	544	543	544	544	550	556	568	575	577	579	579	580	580	579	576	576	576
4*	577	574	573	571	570	575	574	574	568	565	551	547	544	523	548	569	580	573	595	581	577	575	581	590	596
5	575	578	576	575	577	583	582	574	564	553	547	543	549	558	569	592	593	593	603	597	602	599	603	599	603
6	615	588	575	589	590	583	575	559	547	557	554	553	549	555	562	568	583	584	586	585	579	579	578	575	575
7	574	570	571	572	579	578	575	570	56																

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
July																									
18000 γ + Tabular Quantities (in γ)																									
1*	578	576	576	576	575	572	562	566	564	564	562	564	569	568	571	570	573	578	578	582	583	582	583	581	
2	582	582	583	582	583	580	574	569	563	562	562	568	576	577	576	582	589	592	593	590	588	589	589	600	
3	580	591	594	576	575	581	562	563	549	542	545	540	543	540	551	559	572	577	582	577	571	567	569	573	573
4**	575	578	567	567	565	563	555	552	549	547	562	574	546	569	577	587	565	573	585	596	576	568	573	578	
5**	565	577	581	571	573	546	539	550	540	527	532	541	552	547	527	591	570	607	612	579	568	568	581	575	
6**	562	565	571	581	568	539	526	537	543	525	477	516	529	537	541	563	567	555	558	555	571	565	576	571	
7	564	574	564	567	561	557	568	564	546	526	518	516	529	551	561	558	581	584	581	574	575	572	574	564	
8**	580	563	568	567	558	570	563	533	526	544	534	515	521	525	540	550	551	555	573	577	571	562	566	570	
9**	574	564	567	561	559	552	550	512	523	525	527	515	533	544	552	550	591	620	567	579	572	562	562	562	
10	564	559	558	573	567	571	544	540	539	531	521	505	534	537	547	548	566	564	563	571	566	563	567	564	
11	563	563	562	561	565	542	540	511	506	528	529	532	544	524	557	558	561	554	570	570	571	575	581	577	
12	571	563	567	576	558	550	551	555	542	516	526	532	536	543	549	560	551	576	579	579	568	575	567	571	
13	574	581	557	557	555	560	553	555	554	535	521	522	532	540	559	547	557	577	588	596	582	571	571		
14*	570	565	561	564	567	567	561	555	547	541	543	547	547	551	555	566	576	582	581	576	571	572	571		
15	572	572	569	572	573	571	570	561	555	547	543	553	550	558	566	562	557	563	571	575	572	574	571	567	
16	569	571	565	571	578	576	567	565	553	541	543	549	555	562	564	550	558	551	552	562	572	577	571	571	
17	575	585	584	571	571	569	568	561	555	551	547	550	556	558	559	568	571	583	586	582	577	587	584	589	
18	574	574	567	568	572	574	561	564	557	552	564	548	563	571	564	588	584	585	597	572	572	560	562	578	
19	567	556	559	554	557	557	551	537	545	535	531	535	537	543	541	560	584	579	581	576	575	572	563		
20	569	567	561	571	574	568	561	556	541	532	541	545	557	565	578	581	582	574	577	573	577	575	576		
21	590	585	565	565	568	571	569	556	557	538	527	529	540	551	574	585	590	591	575	567	571	572	585	576	
22	568	567	558	568	571	578	568	559	555	535	529	542	550	545	559	562	560	568	575	574	586	596	582	565	
23	565	567	571	564	568	566	557	555	552	535	560	561	557	557	558	559	567	581	581	582	579	578	575		
24*	571	564	564	561	561	574	577	571	571	563	554	548	551	556	555	561	562	570	576	577	579	576	572	569	
25*	568	567	567	567	566	571	573	570	563	556	558	559	550	547	556	564	572	581	587	590	588	586	587	585	
26	585	582	580	581	581	582	585	581	573	561	561	555	551	551	563	571	580	591	593	581	589	581	581	573	
27	577	582	580	580	581	583	581	579	577	558	548	544	546	561	567	560	562	584	580	577	581	579	576	578	
28	576	572	572	573	573	573	576	574	572	559	556	552	554	545	562	570	570	570	579	580	580	581	580	580	
29*	574	575	570	578	570	568	561	555	545	542	544	550	555	558	560	569	573	580	584	584	586	588	590		
30	587	594	586	590	590	574	571	563	554	537	544	564	575	556	547	543	554	574	575	582	570	570	571	578	
31	590	563	556	558	560	560	554	540	540	543	523	523	547	550	561	567	565	566	574	567	574	585	570	562	
Mean	574	572	569	570	569	567	561	555	550	542	540	542	548	551	558	565	568	574	580	577	577	576	575	574	
Mean*	572	569	568	569	568	570	567	563	556	551	551	554	555	556	559	566	570	577	580	582	581	580	580	579	
Mean**	571	569	571	569	565	554	547	537	536	534	526	532	536	544	547	568	561	569	590	575	573	567	572	571	
August																									
1	579	570	566	569	576	585	564	564	560	551	545	530	513	543	551	554	580	566	591	585	583	581	571	566	
2	568	563	565	565	579	554	535	539	553	544	544	539	550	556	535	554	572	579	570	580	574	576	578	586	
3	556	554	573	556	560	565	549	533	543	530	550	544	541	525	550	565	566	570	580	567	559	567	567	566	
4	555	564	563	573	554	560	560	545	536	535	533	545	541	545	549	560	566	600	594	584	576	574	580	559	
5	566	563	590	554	554	545	535	531	535	520	541	549	546	537	550	552	566	570	563	565	567	558	564	556	
6	559	559	561	556	552	561	557	547	547	517	527	534	550	559	562	564	574	560	570	589	551	561	564	565	
7	563	562	571	574	580	578	570	566	558	507	523	530	530	544	561	552	580	576	574	570	568	564	560		
8**	568	574	577	576	561	574	574	565																	

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
September		18000 γ + Tabular Quantities (in γ)																							
1	533	547	526	536	544	533	520	521	507	497	482	499	515	522	517	529	536	545	575	548	545	547	553	569	
2	565	556	538	553	536	540	534	529	516	504	513	510	523	530	540	536	541	536	528	545	556	554	574	541	
3**	545	542	554	544	543	557	524	525	508	500	497	471	498	500	504	536	544	553	554	550	552	591	563	547	
4	554	551	556	548	551	535	514	543	516	525	502	506	529	543	518	546	554	536	575	576	552	554	554	551	
5	551	560	565	553	554	537	535	534	528	519	514	498	534	543	554	557	563	546	553	549	574	564	560	560	
6	555	556	554	546	550	544	541	539	541	531	526	524	531	535	544	552	569	557	562	565	564	561	561	560	
7*	560	565	562	557	557	552	555	551	546	539	535	534	536	545	547	556	570	571	564	573	575	565	566	568	
8	566	573	563	563	562	562	562	562	549	544	540	542	545	554	564	563	574	574	583	573	574	573	574		
9	541	575	559	554	543	554	555	549	532	514	505	524	529	542	536	536	552	552	550	553	567	608	572	563	
10	569	553	551	558	542	545	544	541	537	512	487	503	527	548	555	535	529	545	559	564	558	580	586	563	
11	554	554	558	567	533	550	559	549	532	538	539	541	543	533	535	545	550	539	563	563	566	570	561	559	
12	552	562	544	551	553	555	551	542	538	523	523	525	548	553	553	553	559	551	553	571	554	563	565	566	
13	560	561	543	548	559	550	543	548	542	539	516	513	525	543	542	539	551	555	549	579	563	560	563	565	
14	593	558	558	552	559	563	556	549	545	536	507	532	545	551	561	555	558	561	561	569	582	564	555	581	
15	579	550	550	554	552	556	542	539	535	530	530	539	546	549	550	553	570	556	559	565	567	559	579	568	
16*	565	552	555	555	558	555	554	553	548	544	539	540	551	559	557	554	542	556	569	566	580	568	555	575	
17	559	568	560	553	545	557	560	552	548	540	538	541	545	547	544	551	563	566	572	569	563	558	565	571	
18*	557	559	559	559	558	561	564	563	556	546	543	549	549	546	550	554	559	565	565	567	590	584	548		
19	541	549	552	557	567	550	554	560	552	544	523	526	543	541	549	554	561	561	560	568	565	564	559		
20*	559	559	563	563	565	568	562	556	548	542	544	546	558	559	561	560	573	580	579	582	584	573	563	583	
21	559	583	573	561	566	566	554	554	553	553	542	503	532	533	552	550	555	564	568	546	555	561	569	568	
22	569	562	560	555	549	558	555	544	544	540	534	535	546	539	544	546	554	563	573	565	562	565	572		
23	566	569	559	546	554	561	554	558	542	528	528	533	543	553	558	560	553	559	563	566	577	579	565		
24*	555	560	563	563	563	560	559	560	555	543	540	543	549	558	566	565	566	579	573	574	573	573			
25	570	569	570	570	576	585	557	558	563	545	538	538	523	537	535	551	545	555	561	562	561	563	569		
26**	562	564	566	566	572	568	550	544	558	542	538	546	542	553	489	503	524	518	525	529	559	578	568	552	
27	554	562	568	567	576	573	548	555	550	534	503	506	537	537	526	547	548	544	578	574	541	595	566		
28**	598	561	554	528	538	550	543	548	521	482	483	504	481	509	520	529	525	528	563	540	540	567	560		
29**	547	553	560	554	567	576	554	544	491	465	461	458	465	500	513	529	508	513	502	553	538	545	568	551	
30**	534	530	544	538	559	553	528	534	516	515	501	459	527	542	557	548	551	549	575	582	532	585	521	555	
Mean	559	559	556	554	555	556	548	547	537	527	519	520	532	540	541	546	551	552	559	562	561	569	565	563	
Mean*	559	559	560	559	560	559	559	557	551	543	540	542	549	553	556	558	562	567	569	570	577	574	568	569	
Mean**	557	550	556	546	556	561	540	539	519	501	496	488	503	521	517	529	530	532	544	551	544	573	556	551	
October		18000 γ + Tabular Quantities (in γ)																							
1**	528	541	552	561	540	564	535	535	520	506	490	512	522	519	497	528	519	534	545	553	578	554	551	560	
2**	568	549	534	542	555	556	532	536	532	511	489	514	538	498	527	518	552	520	570	531	537	548	543	557	
3**	560	578	550	536	535	548	548	510	502	474	474	502	528	528	534	532	536	542	534	565	563	608	553	542	
4	540	552	545	550	549	551	538	550	541	509	495	504	512	514	534	530	540	557	553	554	558	565	573	558	
5	551	556	556	562	559	557	552	554	548	533	534	536	537	549	549	554	557	558	554	570	568	555	558	569	
6*	562	557	562	554	558	562	565	563	549	539	533	537	541	544	544	547	552	559	561	563	564	561	561	561	
7	562	563	561	557	563	570	575	568	562	555	555	547	556	553	528	534	552	554	548	554	557	561	574	544	
8	579	543	547	551	553	553	554	551	552	542	544	508	513	544	558	554	538	548	551	548	554	551	543	570	
9**	564	558	553	554	537	545	549	493	524	529	533	514	533	527	539	529	545	573	543	545	603	557	568	558	
10	561	555	544	553	551	557	562	548	536	543	537	540	542	534	532	531	545	555	555	554	558	555	558		
11	553	552	556	555	557	556	5																		

MAGNETIC OBSERVATIONS, ABINGER 1943.

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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	542	544	547	548	547	539	552	542	524	522	488	505	514	508	519	531	534	527	569	558	545	555	565	565	548	
2	549	554	551	550	552	557	554	553	543	529	530	538	545	548	552	552	548	555	550	550	556	559	558	557	557	
3	559	558	558	558	563	560	559	558	553	546	542	542	549	554	558	553	557	556	557	552	557	558	568	568	562	
4	558	557	560	564	569	574	572	567	563	556	552	552	554	558	558	556	559	562	567	566	567	559	558	558	562	
5	557	559	559	560	577	582	581	576	568	565	554	554	557	550	546	540	558	562	559	560	554	561	558	559	559	
6	557	554	557	563	563	564	572	568	567	562	558	554	554	555	532	538	525	532	527	523	538	547	585	554		
7	552	540	542	538	546	549	557	556	536	548	551	547	549	555	557	558	558	553	552	555	554	557	552	558		
8	559	554	553	555	558	558	549	564	553	540	556	558	558	559	558	552	555	553	557	552	558	560	568	548		
9	559	561	565	557	559	564	552	556	559	557	553	553	555	554	558	551	554	554	561	555	556	560	561	573		
10	553	552	553	558	559	560	563	563	558	550	540	540	544	552	553	554	562	563	564	553	556	546	562	561		
11*	555	554	553	555	558	563	564	559	553	547	543	547	555	557	558	556	559	558	559	563	561	561	563	564		
12	561	562	563	565	568	569	573	572	568	562	553	547	544	552	561	558	558	559	560	558	556	554	556	560		
13*	560	560	560	562	564	564	565	562	564	549	547	548	552	553	556	557	561	554	556	558	560	554	558	558		
14*	562	562	562	562	558	563	563	564	562	557	551	550	555	562	564	562	556	554	554	558	556	557	560	561		
15*	561	561	561	564	570	572	574	574	570	564	555	556	560	568	574	573	571	570	574	569	568	563	567	564		
16	563	558	564	581	592	582	584	584	573	567	556	553	553	557	554	551	554	560	561	548	549	559	558	552		
17*	555	558	558	559	562	564	567	566	563	557	552	553	557	561	562	561	563	566	566	567	565	566	565	563		
18	563	563	563	565	570	572	575	580	573	567	558	554	563	558	565	571	559	546	542	552	557	561	564	563		
19**	558	558	562	563	575	589	568	559	498	505	524	495	454	520	527	522	530	524	534	566	545	539	545	595		
20**	535	538	543	575	539	548	528	525	520	512	512	518	536	526	546	518	549	551	549	542	550	544	543	553		
21	596	546	537	546	541	555	554	528	530	524	518	513	508	505	514	526	522	526	524	540	561	541	552	572		
22	553	562	554	558	542	552	563	552	536	529	537	541	531	517	522	536	518	551	533	559	558	548	552	560		
23	555	549	545	542	549	562	562	548	544	555	534	525	534	517	521	523	531	532	554	531	553	524	515	554		
24	534	538	553	537	531	541	541	543	529	515	519	528	525	502	495	522	539	534	563	530	551	554	561	573		
25**	545	533	553	555	550	548	563	549	534	523	493	502	510	526	522	514	518	562	503	570	512	509	542	533		
26**	537	534	535	532	532	554	555	539	537	547	548	538	530	519	482	490	516	539	544	534	571	572	534	552		
27**	573	546	542	532	595	562	528	543	524	518	512	518	499	525	528	530	545	543	544	519	540	544	540	571		
28	542	542	544	548	557	564	563	552	529	538	512	549	548	558	552	548	549	542	553	549	544	545	554	567		
29	559	552	554	564	568	552	538	548	528	532	517	524	500	526	526	538	528	515	539	548	538	544	544	548		
30	552	554	563	558	559	557	552	550	548	542	538	538	532	524	532	527	532	544	548	548	548	550	551	549		
Mean	555	552	554	556	559	561	559	557	547	542	537	538	538	540	542	543	546	549	549	552	552	552	557	559		
Mean*	559	559	559	560	562	565	567	565	560	555	550	551	556	560	563	562	562	560	562	563	562	562	562	562		
Mean**	550	542	547	551	558	560	548	543	523	521	518	514	506	523	521	515	532	544	535	546	544	542	541	561		
December																										
1	552	552	554	556	559	558	558	558	554	547	546	552	555	560	558	559	559	547	560	557	545	533	547	557		
2	554	553	552	552	559	564	564	568	565	561	560	564	569	571	568	564	508	549	543	526	531	544	547	571		
3**	544	547	543	544	553	547	553	562	557	552	553	552	548	538	521	534	544	535	524	560	533	548	562	564		
4	568	546	538	558	556	559	557	553	552	551	548	544	544	557	523	532	534	547	548	551	541	544	537	580		
5	541	549	553	553	539	551	563	563	554	559	556	544	547	525	542	545	550	553	554	557	561	550	552			
6*	551	548	550	551	554	556	558	558	558	555	555	555	557	557	554	553	556	562	563	563	562	559	554	553		
7	550	554	558	560	564	563	564	565	562	558	557	557	553	551	552	554	558	562	563	562	558	558	558	558		
8	560	559	562	562	565	571	571	572	569	568	567	569	565	562	555	551	545	545	544	553	557	558	557	558		
9	555	559</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	
January		43000 γ + Tabular Quantities (in γ)																								
1	157	157	157	156	159	158	158	160	158	155	152	148	148	151	153	155	155	155	155	159	165	171	171	170		
2	166	162	162	161	162	162	161	161	160	156	152	152	153	157	158	162	163	166	164	167	166	166	164	164	163	
3	161	160	157	158	157	157	156	154	156	156	153	154	153	157	157	162	163	166	164	162	164	164	167	169		
4**	159	156	157	157	158	157	158	158	157	156	156	156	163	172	179	170	173	190	195	184	184	179	168	166	169	
5	163	162	152	152	158	159	156	157	159	161	161	159	162	168	169	171	171	173	172	172	168	161	157	162		
6	162	162	163	163	164	161	160	157	157	158	157	157	155	158	161	163	166	167	165	165	164	159	158	162		
7*	160	160	161	161	162	160	159	157	157	158	157	157	158	162	167	168	167	166	164	162	162	161	160			
8	158	159	161	161	161	160	159	158	156	154	153	152	153	158	161	163	163	162	163	164	168	170	167	157		
9	153	156	159	156	157	154	154	155	156	155	154	152	152	158	162	164	163	164	166	166	166	165	162	161		
10	161	161	162	162	160	161	161	160	160	155	152	156	153	156	157	161	159	163	162	163	163	163	158	159		
11*	158	158	159	159	162	159	159	158	156	152	149	149	150	153	155	157	159	162	162	162	163	162	161	158		
12	157	157	156	156	158	158	157	157	157	157	154	153	158	161	162	162	163	163	164	164	164	164	162	162		
13*	161	158	155	154	159	158	159	158	155	151	152	151	149	152	155	158	159	161	160	160	162	161	157	155		
14*	153	155	155	155	157	157	158	158	159	156	154	154	152	156	159	159	158	158	158	158	157	156	155	155		
15*	156	155	155	155	158	156	157	159	158	153	154	154	152	155	159	159	157	157	158	159	159	160	162	160		
16	158	157	156	155	156	155	155	155	155	151	151	149	149	154	159	163	163	164	169	170	170	170	170	168		
17**	160	160	159	157	155	154	153	153	152	149	147	148	152	160	167	178	180	191	184	184	178	169	165	158		
18	154	157	159	159	160	160	159	158	158	160	158	155	156	163	164	164	164	164	164	167	165	162	162			
19	159	157	158	157	158	157	158	158	158	155	156	156	159	162	165	165	164	164	164	164	167	164	160			
20**	159	159	159	159	159	159	157	156	159	157	157	157	154	154	163	170	176	183	200	223	226	218	183	184	178	
21**	169	168	159	152	162	164	164	165	166	166	172	178	173	178	185	190	180	177	174	174	177	180	164	164		
22**	159	144	157	160	164	164	164	163	160	155	160	162	158	170	177	181	180	189	188	180	175	176	162	165		
23	164	158	161	164	167	165	165	166	164	163	161	160	160	164	168	172	170	170	168	168	167	167	164	163		
24	164	164	164	161	163	164	164	163	163	163	160	159	159	164	170	170	172	172	168	168	168	167	164	163		
25	160	162	163	164	166	164	164	164	159	158	156	154	152	159	163	165	164	165	164	164	165	165	162	161		
26	160	160	157	158	160	157	157	158	155	156	159	160	157	161	165	169	173	171	170	170	169	170	166	161		
27	159	160	161	163	164	164	164	164	161	162	161	160	160	165	169	170	169	177	171	170	168	164	162	162		
28	161	161	161	161	164	162	163	164	164	163	163	160	161	161	167	169	170	173	173	173	170	166	164	160		
29	159	160	159	159	162	160	162	161	161	158	156	157	158	158	160	163	164	164	164	165	165	164	163	160		
30	160	155	157	153	158	159	161	161	159	159	161	161	161	161	165	167	167	162	165	163	165	164	163	160		
31	159	159	159	158	158	159	161	162	163	163	162	161	159	161	162	165	163	165	165	165	165	167	166	166		
Mean	160	159	159	158	160	159	159	158	158	157	157	156	156	161	164	167	166	169	169	168	166	164	162			
Mean*	158	157	157	157	160	158	158	158	157	154	153	153	153	156	159	160	160	161	160	160	161	160	159	158		
Mean**	161	157	158	157	160	159	159	160	158	157	158	160	160	169	176	179	179	189	193	190	185	175	168	167		
February		43000 γ + Tabular Quantities (in γ)																								
1	161	161	160	160	161	162	161	164	162	161	160	160	160	161	164	162	164	165	166	166	168	169	171	165		
2	163	162	161	160	160	158	159	158	158	159	158	158	157	160	160	161	161	163	164	164	164	165	166	166		
3	166	164	162	160	159	158	157	158	155	155	156	156	160	161	164	167	168	168	171	171	173	171	167			
4**	165	165	162	155	151	151	156	158	155	153	152	155	157	157	164	168	167	169	171	171	175	172	169	168		
5	166	157	158	159	161	160	158	158	156	157	157	155	158	165	169	171	171	170	170	169	167	165	165	165		
6	165	157	159	163	165	164	162	161	158	156	156	158	160	161	165	165	169	175	174	174	172	170	168	164		
7	163	162	163	163	162	163	164	162	161	159	159	160	159	162	168	171	171	168	169	169	170	169	167	165		
8	159	158	161	161	164	162	163	160	158	159	158	157	157	158	161	161	161	167	167	166	165	163	160	160		
9																										

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																										
1	161	161	160	160	162	162	161	160	159	158	154	149	146	150	156	164	169	172	173	172	170	168	166	166	164	
2	163	161	160	159	160	157	158	160	163	164	163	162	161	168	174	174	174	173	171	171	169	168	166	166	167	
3	166	165	164	164	164	163	163	164	163	162	161	159	158	164	168	170	170	170	171	174	178	177	175	175	170	
4	166	166	162	162	159	155	156	157	156	156	157	159	161	168	170	175	175	177	178	178	176	166	166	163	168	
5	162	163	163	154	150	150	154	154	154	159	160	156	159	165	169	174	177	189	182	176	173	170	169	169	167	
6	161	158	162	164	164	163	162	164	163	162	162	161	162	163	164	171	174	170	168	168	169	168	168	168	166	
7	164	164	164	164	164	163	161	163	161	155	150	153	159	164	168	169	171	171	168	169	169	167	167	164	164	
8	162	160	160	156	157	159	160	160	156	154	149	150	151	159	164	172	174	171	172	168	167	166	166	166	166	
9	165	164	161	162	164	162	161	161	159	158	153	154	154	160	164	169	173	172	171	170	168	168	158	159	159	
10*	160	161	158	158	160	160	162	164	163	158	151	146	146	153	159	164	166	170	169	169	169	166	164	163	163	
11	161	161	158	158	160	159	160	162	161	158	155	154	153	154	158	164	164	164	165	170	174	178	180	171	171	
12	164	152	157	154	155	155	158	160	157	153	150	147	149	156	162	173	184	177	176	177	170	172	167	161	161	
13*	159	159	159	158	162	162	163	163	157	149	141	139	142	147	151	157	162	162	162	163	162	160	159	159	159	
14	158	158	158	153	151	152	154	158	155	147	143	139	142	147	155	163	164	163	160	160	160	159	159	160	160	
15*	159	158	158	158	160	159	161	163	157	150	143	140	144	151	156	162	163	161	161	162	160	159	158	158	158	
16**	156	153	153	155	158	157	158	154	149	147	148	153	157	157	160	168	173	173	168	169	177	173	165	157	157	
17	142	153	158	158	161	162	163	163	162	161	158	158	158	159	165	169	170	165	165	164	164	164	160	159	159	
18	158	159	159	159	160	159	161	160	156	148	143	143	145	149	152	158	163	164	168	165	163	163	162	162	162	
19	161	160	160	159	159	158	159	159	153	144	143	143	143	147	155	162	163	164	163	163	164	162	161	160	160	
20**	159	158	157	154	154	153	154	154	146	148	141	142	139	147	160	169	171	174	184	178	171	167	163	163	163	
21	160	157	157	158	158	159	161	161	156	148	143	143	149	153	157	164	166	170	168	168	166	162	163	161	161	
22	161	160	160	159	159	159	163	163	159	154	149	149	150	157	161	170	175	173	171	171	168	159	133	135	135	
23**	116	100	112	126	128	139	149	156	157	155	149	150	156	164	165	168	170	174	174	170	167	160	158	154	154	
24	153	157	159	160	162	163	165	165	161	160	155	151	149	160	162	170	175	180	173	168	165	163	161	161	161	
25*	161	162	162	161	162	160	161	161	158	154	149	147	147	154	157	162	163	165	165	166	166	165	163	160	160	
26	159	157	155	157	161	160	161	161	157	154	149	139	135	147	156	164	166	171	168	166	164	163	164	159	159	
27	154	158	160	160	162	161	162	162	158	152	147	143	144	150	158	166	166	167	168	168	169	167	162	162	162	
28*	161	162	162	162	160	162	164	169	167	159	152	145	140	143	151	159	161	165	161	162	162	163	165	161	161	
29**	160	158	155	154	155	157	162	162	160	156	150	145	140	142	147	156	167	171	172	168	179	176	133	146	146	
30**	147	144	141	149	140	142	152	157	159	158	150	149	150	163	166	175	175	174	176	177	184	174	172	171	171	
31	169	160	155	156	159	160	165	162	162	162	160	159	159	163	170	181	192	197	191	188	184	182	173	154	154	
Mean	158	157	157	157	158	158	160	161	158	155	151	149	150	155	160	167	170	171	170	170	169	167	163	161	161	
Mean*	160	160	160	159	161	161	162	164	160	154	147	143	144	150	155	161	163	165	164	164	164	163	162	160	160	
Mean**	148	143	144	148	147	150	155	157	154	153	148	148	148	155	160	169	171	173	172	176	170	158	158	158	158	
April																										
1	162	166	160	151	154	156	160	162	160	162	158	159	156	163	169	176	180	186	188	185	179	178	174	169	169	
2	166	158	159	161	161	157	159	163	163	163	157	152	153	159	169	180	177	176	172	171	172	169	166	166	167	
3**	155	130	130	140	148	143	148	158	153	148	146	147	153	161	171	179	187	192	184	176	173	172	169	159	159	
4	150	156	157	146	144	154	160	161	162	159	154	151	156	160	171	184	183	187	195	180	172	170	167	167	167	
5	162	153	150	157	161	166	169	169	169	164	160	154	154	162	169	172	195	204	185	183	179	174	156	150	150	
6**	157	160	154	162	168	169	172	172	169	168	162	156	156	159	164	174	193	189	184	179	178	175	165	156	156	
7	148	158	148	143	152	161	168	169	168	162	153	149	152	159	171	180	182	179	178	178	173	169	168			

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
May		43000 γ + Tabular Quantities (in γ)																								
1**	161	161	160	143	132	131	124	129	137	140	144	161	166	179	199	205	209	214	214	203	193	177	161	143		
2	128	147	153	154	158	167	168	165	159	156	157	155	157	163	173	188	197	193	191	189	181	177	175	163	172	
3	165	164	168	173	173	175	173	167	163	160	153	151	153	161	172	181	188	195	192	187	186	183	176	163	163	
4	163	167	169	171	168	168	167	164	163	156	151	150	154	161	168	171	177	175	174	174	175	175	173	168	168	
5	170	171	171	173	172	174	175	171	169	164	157	151	156	170	176	178	180	180	180	177	173	172	172	170	170	
6	167	161	165	171	173	174	176	171	168	159	153	151	153	159	167	172	177	175	176	174	173	171	171	171	169	
7*	168	169	169	167	165	168	168	164	158	151	144	147	147	154	163	167	169	171	171	171	170	168	167	165	165	
8*	163	163	163	167	168	168	167	167	165	153	140	133	136	148	161	165	169	171	171	168	167	164	166	163	163	
9*	165	165	166	167	169	171	171	165	161	157	148	143	144	152	161	165	168	171	172	171	170	167	167	165	165	
10	165	166	165	167	171	173	171	161	156	148	144	142	143	149	157	160	167	171	175	172	171	168	166	165	165	
11	164	164	164	167	167	167	165	164	164	157	148	147	152	156	161	165	169	170	174	171	169	169	166	165	165	
12	162	161	163	162	152	156	164	165	167	161	150	141	143	153	165	167	168	171	175	176	173	170	169	167	167	
13	166	166	164	167	168	168	166	162	164	161	153	148	153	157	168	175	186	197	193	187	182	176	170	168	168	
14	167	167	165	157	161	166	170	170	167	162	164	157	162	164	167	170	172	175	173	172	172	172	165	165	165	
15**	156	131	116	114	121	129	145	150	153	155	148	141	150	161	171	174	176	179	179	176	175	171	167	167	167	
16	168	169	170	169	169	171	170	166	161	154	148	146	155	165	170	177	181	185	189	189	186	176	175	171	171	
17	168	158	164	166	166	169	168	168	165	159	152	149	155	163	173	178	180	185	188	182	183	158	158	157	157	
18**	141	142	133	134	144	132	139	151	159	160	152	158	172	174	177	185	182	177	181	178	173	154	156			
19	165	166	150	156	148	142	150	148	151	151	149	149	154	168	176	178	179	178	177	174	169	169	168			
20	168	167	167	170	173	174	173	169	167	162	154	153	160	161	168	172	173	174	175	175	173	171	170			
21*	166	166	167	171	172	174	175	171	167	165	151	147	152	158	163	165	169	171	172	171	169	167	167	166		
22*	167	168	170	171	171	175	172	168	161	154	149	146	149	156	164	171	176	174	174	171	169	168	166	166		
23	168	167	168	168	170	170	170	165	158	151	140	136	146	157	162	167	172	176	176	173	172	172	169	169		
24**	164	154	121	134	154	165	166	162	162	158	156	149	145	154	166	180	200	205	209	205	192	186	173	160		
25	155	159	149	158	165	168	171	170	171	167	162	161	166	177	178	185	188	191	192	185	179	177	173			
31	171	171	171	171	173	173	174	175	173	168	163	155	147	149	154	161	164	168	169	171	172	171	171	169		
Mean	163	162	159	161	162	164	165	163	162	158	152	149	154	161	169	174	178	180	182	179	177	173	169	165		
Mean*	166	166	167	168	169	171	171	168	164	156	148	143	146	154	162	167	170	172	172	170	169	167	167	165		
Mean**	156	149	135	132	139	141	146	150	155	155	152	154	160	168	178	185	191	192	194	190	184	177	165	157		
June		43000 γ + Tabular Quantities (in γ)																								
1	167	167	168	171	173	174	173	171	166	160	154	155	161	163	167	173	171	168	171	173	174	176	172	169		
2	170	170	170	172	172	171	169	165	160	156	151	151	157	161	171	173	173	177	178	173	172	167	167	167		
3	167	167	168	171	171	172	171	166	159	156	157	156	157	158	168	172	177	178	177	174	173	171	169	168		
4*	169	167	168	173	174	175	173	169	165	160	159	155	148	151	163	167	174	176	172	170	168	167	167	167		
5	167	167	168	171	172	173	171	169	169	165	157	148	148	155	160	161	164	168	174	173	173	168	167	166		
6	156	149	155	153	151	156	162	159	150	149	148	147	152	159	164	169	173	171	171	169	167	167	167	167		
7	167	167	167	169	169	169	167	163	157	151	147	141	149	160	166	169	176	176	180	180	177	174	173	157		
8**	156	158	166	171	168	163	161	162	161	162	158	162	173	183	189	190	199	212	209	199	190	183	177	175		
9**	167	162	166	168	165	162	171	172	170	167	167	167	166	166	173	182	183	189	191	187	181	173	173	173		
10	171	171	172	173	169	163	167	168	167	163	170	169	167	172	172	183	182	181	179	177	169	164	164	164		
11	168	170	171	172	172	174	174	173	166	161	151	156	158	167	171	175	179	185	184	181	178	176	173	173		
12	172	171	171	174	175	175	170	166	159	156	153	156	159	167	177	177	176	176	178	180	181	176	175	171		
13	171	154	137	148	157	161	166	168	167	166	163	153	152	161	166	167	176	180	183	1						

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*	171	171	171	171	171	171	169	167	161	157	152	148	154	155	160	167	171	173	173	172	170	167	168	169	169
2	169	170	170	171	173	173	171	169	165	158	157	151	150	156	163	166	172	173	171	167	169	168	168	165	165
3	165	167	166	166	168	157	151	141	142	147	155	157	159	160	168	174	177	181	183	179	176	173	173	173	173
4**	170	166	165	169	173	173	170	163	158	153	151	144	151	157	167	177	187	200	201	201	197	180	176	171	171
5**	164	162	142	160	162	165	165	164	164	167	162	162	168	168	173	189	191	199	200	188	187	180	173	167	167
6**	167	167	156	144	152	157	157	164	164	160	157	162	170	177	182	191	200	192	187	188	190	180	170	161	161
7	162	158	157	164	167	166	162	165	164	163	166	163	167	168	176	177	184	183	183	180	177	172	170	170	170
8**	160	152	158	164	163	166	166	163	164	161	157	154	166	167	172	174	180	181	182	188	184	179	176	173	173
9**	171	170	168	168	170	170	168	161	171	171	167	163	173	174	184	184	186	193	207	196	191	176	174	174	174
10	172	171	170	153	150	159	158	165	158	156	157	155	168	174	191	189	195	198	196	188	183	179	177	176	176
11	175	174	172	173	169	170	167	168	169	167	162	162	166	170	184	181	182	183	187	183	182	179	173	163	163
12	157	160	161	156	154	158	163	166	167	167	168	166	161	156	163	176	181	187	187	188	187	184	178	174	174
13	171	153	151	161	164	169	172	171	166	163	167	167	162	161	171	179	189	194	194	188	184	173	173	173	173
14*	173	168	169	173	173	174	175	176	173	165	165	165	168	167	168	168	175	176	177	177	177	173	173	173	173
15	173	172	169	171	169	173	171	171	173	169	170	171	175	177	181	178	184	191	191	193	187	183	179	177	177
16	173	171	169	167	169	170	169	167	169	171	171	165	161	161	173	179	189	194	198	192	188	184	178	177	177
17	177	176	159	166	169	171	169	170	167	166	162	163	164	167	176	181	186	185	185	182	181	177	179	174	174
18	171	169	171	171	172	172	172	172	172	165	163	160	163	166	174	191	197	200	200	193	189	182	178	172	172
19	169	171	171	163	163	168	172	171	172	169	162	153	159	165	171	179	185	193	197	191	183	174	172	171	171
20	171	171	170	171	172	172	171	170	168	166	161	156	158	160	168	179	187	185	183	181	177	173	171	172	172
21	167	158	159	169	171	172	170	168	169	164	161	159	158	163	173	178	183	193	191	185	181	176	171	167	167
22	167	167	168	165	163	167	168	170	167	163	165	163	167	167	171	174	181	187	185	181	180	171	161	164	164
23	168	170	169	170	171	170	171	171	167	165	160	148	153	158	165	169	171	174	178	179	178	176	173	172	172
24*	168	167	167	169	170	172	177	179	173	171	168	165	159	165	171	173	176	175	175	175	176	172	171	171	171
25*	171	171	169	170	171	171	172	172	168	163	159	157	150	153	161	165	170	169	171	171	170	169	168	169	169
26	168	167	166	167	167	167	166	162	161	157	159	151	147	146	154	162	171	177	181	180	179	171	171	170	170
27	168	157	148	154	157	159	161	163	167	164	161	155	157	161	171	176	178	186	185	182	174	173	172	172	172
28	172	171	171	169	170	171	167	162	159	160	157	149	150	155	164	169	172	172	171	169	171	170	169	169	169
29*	169	168	168	167	167	168	171	167	165	165	165	163	165	164	169	176	176	173	173	168	169	168	170	168	168
30	170	169	167	168	169	169	167	162	160	151	152	151	154	157	166	181	182	193	191	188	181	176	173	171	171
31	167	163	167	172	173	174	172	168	164	160	157	152	152	157	171	182	187	187	186	181	180	174	171	170	170
Mean	169	167	165	166	167	168	168	167	165	163	161	158	160	163	171	177	182	185	186	183	181	175	173	171	171
Mean*	170	169	169	170	170	171	173	172	168	164	162	158	159	161	166	170	174	173	174	172	170	170	170	170	170
Mean**	166	163	158	161	164	166	165	163	164	162	159	157	166	169	176	183	189	193	195	192	190	179	174	169	169
August		43000 γ + Tabular Quantities (in γ)																							
1	165	159	164	170	172	172	170	167	163	163	153	147	148	156	167	173	182	192	192	187	182	177	172	171	171
2	172	172	170	169	167	163	163	165	168	165	159	152	158	164	173	188	192	195	201	190	182	177	173	163	163
3	156	147	156	159	158	163	167	168	167	165	170	158	162	171	183	187	189	188	192	196	188	181	174	170	170
4	170	172	169	168	162	167	172	171	172	171	168	170	170	182	190	196	199	202	193	186	177	168	167	167	167
5	171	162	150	157	158	160	164	167	170	167	174	173	171	173	183	191	199	199	197	193	187	181	173	171	171
6	171	167	164	167	168	172	175	172	169	167	159	153	159	165	171	181	187	190	195	201	191	183	179	176	176
7	175	176	177	177	175	175	176	175	176	178	165	165	161	166	169	178	181	187	187	181	179	176	176	176	176
8**	176	176	176	172	172																				

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	157	154	158	168	181	180	180	182	177	177	176	177	182	191	195	203	211	223	211	191	190	188	187	184		
2	175	172	160	155	171	181	182	183	182	184	182	183	187	197	221	211	211	211	211	196	191	180	180	168		
3**	167	163	162	169	166	167	165	175	180	181	178	179	191	199	219	226	211	209	201	199	196	180	155	165		
4	176	178	179	177	179	175	173	177	173	178	171	175	176	183	187	197	201	208	211	196	190	189	186	185		
5	187	182	168	162	163	174	179	183	184	179	174	177	178	180	184	194	204	207	204	198	193	185	182	172		
6	174	173	176	179	182	183	184	187	188	184	182	181	179	183	185	190	194	194	198	193	189	189	187	185		
7*	185	184	179	182	183	184	187	187	184	184	181	175	174	181	183	185	187	188	188	189	188	188	189	187		
8	185	179	178	179	183	183	183	180	177	178	172	168	174	179	181	178	182	200	218	207	197	191	172	165		
9	161	149	160	167	168	163	171	175	174	180	178	173	174	183	187	190	191	197	200	202	198	172	159	159		
10	149	135	138	142	161	173	175	183	183	179	175	182	184	187	194	207	210	203	199	193	193	194	178	174		
11	179	174	163	159	165	173	177	177	175	177	179	177	175	179	184	190	198	194	193	191	189	189	183	181		
12	172	168	173	178	181	182	184	185	182	173	176	170	172	174	178	180	184	192	201	193	188	185	182	182		
13	180	178	167	157	169	168	177	178	177	174	169	173	177	185	191	196	204	199	198	193	187	187	186	185		
14	174	170	177	179	174	174	174	174	172	168	169	172	179	187	188	187	189	187	188	186	182	180	178			
15	164	172	177	178	179	180	179	182	176	176	172	169	172	180	187	193	194	192	193	192	187	184	179	166		
16*	170	176	182	183	185	183	184	183	178	174	172	169	168	173	181	191	197	193	189	188	183	182	181	181		
17	174	177	178	179	181	178	179	178	174	172	170	169	169	174	178	184	187	187	186	186	188	187	182	174		
18*	175	180	181	182	183	183	184	182	177	172	165	161	160	168	174	179	182	184	185	188	186	182	168	163		
19	169	174	178	180	180	178	184	185	184	177	174	175	178	177	178	182	184	186	187	184	183	182	180	181		
20*	181	181	180	180	181	178	178	173	168	164	162	162	159	163	171	174	176	180	179	181	180	182	182	180		
21	173	173	167	172	174	175	176	172	169	169	162	160	167	168	175	177	181	185	187	191	193	188	184	183		
22	173	164	163	166	164	168	172	177	177	174	168	165	169	178	189	194	191	193	187	184	184	183	178			
23	175	173	164	165	168	171	174	174	172	172	170	167	168	172	174	181	182	184	182	184	183	182	177	177		
24*	177	173	175	176	176	177	179	179	173	168	163	162	162	164	170	174	178	180	182	182	182	177	178			
25	177	178	177	176	175	172	175	178	172	171	169	168	167	178	182	187	189	188	185	184	182	183	181	181		
26**	179	178	178	175	171	168	168	169	172	168	171	172	171	178	193	217	211	214	210	203	198	198	176	173		
27	177	160	158	146	152	153	157	169	170	169	171	179	181	182	187	196	192	192	196	187	184	180	168	170		
28**	144	139	137	136	138	147	162	173	177	182	190	191	193	215	212	217	214	213	207	198	197	188	172	179		
29**	173	170	159	148	152	154	167	173	173	180	187	192	216	217	231	236	234	234	227	204	197	192	172	172		
30**	177	170	153	143	150	148	167	177	181	188	189	192	203	197	197	207	191	198	200	184	180	172	153	151		
Mean	173	170	168	168	171	172	176	179	177	176	174	174	177	182	188	194	195	197	197	192	189	184	177	175		
Mean*	178	179	179	181	182	181	182	182	177	173	169	166	165	170	175	180	183	185	184	186	184	182	179	178		
Mean**	168	164	158	154	155	157	166	173	177	180	183	185	194	201	210	221	212	214	209	198	194	182	165	168		
October																										
1**	157	151	161	168	163	167	173	180	175	173	172	178	182	193	217	221	216	211	202	196	187	181	179	163		
2**	147	139	149	167	177	177	182	185	186	180	181	184	186	194	213	212	224	221	211	192	188	187	181	173		
3**	159	157	151	162	171	173	181	184	185	178	191	188	186	192	210	213	221	217	207	199	186	178	160	158		
4	156	154	153	161	175	179	181	183	181	175	173	177	179	193	198	201	206	202	193	191	190	189	182	178		
5	179	172	169	176	179	182	187	189	187	183	176	172	177	181	184	190	191	190	192	194	188	187	185	185		
6*	177	177	178	180	185	184	187	188	188	186	180	176	175	179	181	187	188	190	189	188	188	187	186	184		
7	184	182	175	179	183	183	183	183	183	176	173	173	175	181	183	186	188	193	197	201	198	198	188	188		
8	176	174	179	180	184	184	187	186	182	177	171	165	173	180	181	188	198	204	203	205	204	198	190	184		
9**	172	168	170	174	168	170	176	177	176	175	174	178	184	187	194	195	202	202	197	198</td						

MAGNETIC OBSERVATIONS, ABINGER 1943.

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
November																									
43000 γ + Tabular Quantities (in γ)																									
1	180	181	181	184	188	186	186	185	187	187	187	197	199	216	223	215	214	212	210	195	194	194	189	185	185
2	185	183	184	188	191	191	190	190	188	185	181	181	181	185	191	194	195	199	196	198	195	193	190	189	189
3	189	188	188	188	189	189	190	189	190	187	183	181	180	185	190	192	191	191	192	193	192	189	185	182	182
4	183	183	184	185	185	184	185	188	188	187	183	183	180	176	182	187	189	189	188	189	190	189	188	188	190
5	187	184	184	184	185	179	181	180	180	179	179	179	179	177	187	187	190	191	191	193	192	193	191	189	189
6	188	186	185	181	178	179	181	183	182	179	177	174	175	179	188	197	208	220	213	209	196	198	185	170	
7	173	175	175	180	184	185	186	185	184	181	178	179	183	185	189	186	188	189	189	195	191	189	188		
8	183	179	181	183	185	183	184	184	183	182	181	180	179	183	188	189	189	189	189	189	189	189	184	185	
9	185	185	179	177	181	181	181	183	183	185	182	183	182	186	188	189	189	190	187	188	188	188	184	184	
10	182	184	185	184	185	183	183	184	184	181	181	182	189	189	189	187	185	185	189	189	189	189	184	182	
11*	181	183	185	184	184	183	184	185	184	185	184	185	186	188	188	188	188	188	188	186	184	185	185	185	
12	183	183	183	183	182	183	181	178	174	172	173	173	177	181	183	185	187	186	186	185	184	185	185	185	
13*	184	184	184	184	185	183	182	182	180	177	172	172	174	179	183	185	186	186	187	186	187	184	184	183	
14*	183	183	184	183	183	183	182	182	180	176	174	174	176	181	184	186	184	187	188	186	184	185	182	182	
15*	182	182	182	183	183	180	180	178	176	174	172	173	174	179	180	180	183	183	183	183	183	181	179		
16	179	179	179	174	172	172	173	174	172	172	170	170	169	178	183	184	185	188	188	188	192	189	185	181	
17*	179	179	179	181	183	182	183	183	178	173	170	168	173	178	183	184	184	185	184	183	182	182	180		
18	179	178	178	178	182	181	180	180	178	175	168	169	177	179	179	181	184	190	191	192	188	184	182		
19**	179	179	179	178	177	172	173	178	179	188	188	190	204	206	201	205	200	200	208	203	190	192	187	172	
20**	166	170	168	162	167	168	169	176	178	176	181	179	192	194	198	199	209	197	193	192	198	192	189	184	
21	171	159	170	174	174	174	175	180	182	184	184	190	195	206	214	215	209	208	204	188	185	183	178		
22	172	176	173	174	174	174	174	179	179	183	184	184	186	196	199	198	204	208	198	195	191	184	179		
23	172	177	178	178	182	180	182	184	184	184	188	191	203	204	212	211	204	204	194	187	172	157	171		
24	178	162	161	167	173	179	183	188	189	192	192	194	197	203	218	215	202	200	202	200	195	183	182	174	
25**	174	178	172	174	178	178	178	181	184	185	191	197	205	207	210	222	216	214	209	199	189	192	191	178	
26**	179	187	188	188	184	182	181	183	185	188	187	186	188	197	222	234	220	214	207	202	196	179	177	170	
27**	146	153	163	154	140	146	158	163	166	174	183	189	194	202	206	208	202	197	195	197	199	194	192	172	
28	172	182	184	185	180	176	177	179	182	183	185	188	189	191	192	194	193	194	198	192	191	188	179		
29	173	178	174	170	178	175	178	181	181	185	187	190	192	202	206	208	204	208	208	204	190	192	190	189	
30	189	189	186	185	188	186	188	188	188	188	187	188	189	198	198	202	208	205	200	198	194	193	190	189	
Mean	179	179	179	179	180	179	180	182	182	182	181	182	184	190	195	197	197	196	195	193	191	188	185	181	
Mean*	182	182	183	183	184	182	182	182	180	177	174	174	177	181	184	185	185	186	186	185	184	184	183	182	
Mean**	169	173	174	171	169	169	172	176	179	183	187	191	197	201	207	214	209	204	202	199	194	190	187	175	
December																									
43000 γ + Tabular Quantities (in γ)																									
1	189	189	189	189	192	189	190	190	188	190	192	189	188	192	192	192	193	194	197	204	202	194	194	194	
2	191	191	190	189	190	189	189	188	185	185	184	183	183	184	184	188	198	203	209	215	204	199	184		
3**	182	184	185	187	187	185	185	187	189	186	183	182	184	191	201	203	207	204	205	206	203	200	192	184	
4	173	175	182	184	184	186	185	186	184	184	185	183	187	190	201	198	199	203	203	200	199	191	184		
5	189	190	187	184	184	187	186	187	188	189	188	187	185	188	192	197	198	198	196	195	195	194	191	191	
6*	186	188	188	188	189	189	188	188	188	188	189	190	189	189	187	188	189	190	190	190	190	190	190	191	
7	189	189	188	187	188	186	186	186	186	187	189	189	189	191	190	189	188	189	188	189	189	188	188	188	
8	188																								

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum	Minimum	Range	Mean Daily Value	Maximum
January	10°+ ,	U.T. h m	10°+ ,	U.T. h m	/	18000 Y +	U.T. h m	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y	43000 Y +	U.T. h m
1	20.1	13 2	23.9	12.1	21 51	11.8	562	16 45	586	523	22 59	63	158	23 10	172	145	12 10	27
2	20.9	13 6	23.9	16.9	0 5	7.0	555	6 40	571	527	16 48	44	161	17 21	168	151	11 15	17
3	20.8	15 9	27.1	13.4	23 10	13.7	560	5 42	579	538	14 4	41	159	23 20	171	152	10 10	19
4**	20.1	16 27	31.5	1.3	17 40	30.2	543	21 11	589	452	17 20	137	166	17 54	202	152	11 0	50
5	20.3	12 30	24.0	12.3	22 50	11.7	549	21 18	586	521	17 38	65	163	17 50	177	147	3 15	30
6	20.6	13 40	24.4	14.0	20 18	10.4	552	20 31	581	528	11 0	53	161	17 50	171	151	11 55	20
7*	20.4	13 0	24.2	18.0	9 35	6.2	559	15 59	568	549	0 22	19	161	15 20	172	154	9 4	18
8	20.2	14 40	23.9	15.1	21 43	8.8	559	22 51	576	534	20 2	42	160	21 25	171	150	24 0	21
9	20.4	14 0	24.1	16.0	0 29	8.1	557	6 10	576	544	1 0	32	159	19 30	167	150	0 1	17
10	19.9	14 5	24.1	12.9	22 25	11.2	558	22 4	574	541	22 50	33	160	20 50	166	148	9 55	18
11*	20.5	16 2	23.6	15.9	21 40	7.7	563	9 22	573	546	0 17	27	158	17 48	164	148	10 30	16
12	20.3	14 10	23.4	15.2	21 55	8.2	561	5 40	582	544	21 45	38	159	22 10	167	152	12 55	15
13*	20.6	12 38	22.8	18.4	22 58	4.4	563	22 40	577	547	11 55	30	157	17 30	165	148	12 50	17
14*	20.0	13 30	22.2	18.1	9 1	4.1	567	15 55	575	558	0 58	17	157	15 35	160	151	10 20	9
15*	20.5	13 59	23.5	17.3	22 25	6.2	568	7 40	578	555	21 30	23	157	22 55	163	148	12 55	15
16	20.7	14 55	24.4	14.4	23 49	10.0	562	8 10	581	541	18 55	40	159	21 20	172	148	11 40	24
17**	20.1	14 41	27.5	5.5	19 54	22.0	552	9 15	591	485	17 23	106	163	17 37	199	143	10 10	56
18	19.8	13 13	23.7	13.0	0 0	10.7	552	6 50	574	535	18 10	39	161	18 55	169	151	0 0	18
19	19.6	12 53	23.9	14.7	21 24	9.2	557	6 20	571	535	17 28	36	160	21 44	169	154	9 2	15
20**	17.8	15 52	26.6	17.6	21 9	44.2	530	5 40	576	411	20 30	165	173	19 30	237	152	11 30	85
21**	19.7	2 13	26.9	7.6	21 38	19.3	535	21 40	615	487	10 22	128	171	15 15	194	148	3 29	46
22**	18.8	13 30	27.1	2.7	17 47	24.4	539	0 42	643	496	17 20	147	167	17 50	198	138	1 2	60
23	19.9	12 31	24.9	13.5	21 30	11.4	548	21 32	577	530	11 10	47	165	17 10	173	156	1 40	17
24	19.6	13 20	25.5	12.8	20 36	12.7	550	23 58	570	529	11 28	41	165	15 35	176	157	11 10	19
25	20.1	12 55	23.3	17.7	0 38	5.6	557	0 0	569	544	12 0	25	162	17 46	167	151	12 50	16
26	20.5	10 24	29.3	14.7	3 25	14.6	556	8 5	579	514	16 24	65	162	16 40	176	153	8 40	23
27	20.3	13 0	25.6	15.7	17 19	9.9	555	7 8	574	522	16 52	52	165	17 29	180	156	0 0	24
28	20.6	13 20	25.0	14.7	19 50	10.3	556	7 15	581	531	10 12	50	165	17 25	177	156	9 10	21
29	20.1	13 5	23.2	15.4	21 32	7.8	560	21 38	574	543	13 38	31	161	19 25	168	153	9 10	15
30	20.0	2 50	25.5	14.7	22 25	10.8	563	22 20	587	547	2 12	40	161	15 20	170	151	3 17	19
31	20.5	15 0	24.5	16.6	21 40	7.9	562	6 50	574	547	14 45	27	162	23 10	169	155	12 40	14
Mean	20.1	-	24.9	12.7	-	12.3	555	-	581	526	-	54.9	162	-	176	151	-	25.2
Mean*	20.4	-	23.3	17.5	-	5.7	564	-	574	551	-	23.2	158	-	165	150	-	15.0
Mean**	19.3	-	27.9	-0.1	-	28.0	540	-	603	466	-	136.6	168	-	206	147	-	59.4
February	10°+ ,	U.T. h m	10°+ ,	U.T. h m	/	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y	
1	20.0	14 58	24.9	13.8	23 2	11.1	561	23 5	587	551	21 30	36	163	22 25	172	158	2 1	14
2	20.4	16 15	23.8	17.3	23 20	6.5	567	8 48	583	550	23 48	33	161	23 10	168	156	12 0	12
3	19.8	14 30	26.0	14.1	2 4	11.9	561	8 42	583	537	21 25	46	163	21 6	176	154	10 10	22
4**	20.4	12 55	25.6	16.5	23 45	9.1	557	3 30	578	523	11 10	55	162	20 30	177	149	4 27	28
5	19.6	12 56	23.7	10.3	20 30	13.4	560	0 25	591	534	20 18	57	163	21 0	173	154	9 3	19
6	20.1	0 57	25.8	11.1	22 15	14.7	556	22 20	578	526	17 7	52	164	17 40	178	153	8 57	25
7	19.9	13 55	23.5	14.7	21 54	8.8	558	22 0	573	547	20 32	26	164	15 35	174	156	9 50	18
8	20.0	14 8	23.9	12.6	19 8	11.3	562	19 15	599	542	20 20	57	161	19 2	172	156	0 47	16
9	20.3	14 2	23.7	15.5	19 45	8.2	563	7 50	586	543	11 15	43	160	(20 0	169	151	8 55	18)
10*	20.5	14 6	24.9	16.1	22 50	8.8	565	7 48	583	547	9 47	36	160	19 10	166	150	12 50	16
11	19.8	13 18	23.8	16.9	0 28	6.9	562	5 19	590	544	12 40	46	160	17 40	169	151	13 2	18
12*	19.9	13 20	24.9	16.1	21 28	8.8	563	21 10	588	544	11 20	44	159	20 20	167	145	12 54	22
13**	20.2	13 18	26.8	16.5	22 45	10.3	566	3 20	597	543	11 22	54	157	21 20	167	142	12 55	25
14	20.2	10 13	23.0	16.6	22 6	6.4	567	9 40	583	557	1 50	26	158	22 28	162	153	1 10	9
15*	19.9	12 40	23.7	17.0	19 5	6.7	565	7 2	583	546	10 35	37	158	19 40	165	151	10 50	14
16	19.8	13 10	22.7	16.5	8 50	6.2	569	20 59	602	553	10 40	49	158	4 50	162	148	10 40	14
17**	19.8	8 59	30.3	6.3	20 36	24.0	558	20 49	631	443	11 22	188	161	12 0	181	134	5 38	47
18	19.6	3 15	24.8	15.1	23 39	9.7	555	7 23	569	529	13 21	40	160	15 30	169	150	11 5	19
19	19.3	12 20	24.6	14.6	0 46	10.0	561	0 38	579	539	9 56	40	160	16 30	171	147	2 59	24
20	20.0	14 0	25.7	16.5	17 5	9.2	560	6 50	571	536	11 3	35	160	17 25	169	151	12 35	18
21*	19.5	13 10	24.0</															

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
March	10°+	U.T. h m	10°+	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y	
1	20.1	16 35	25.8	17.8	10 13	8.0	565	6 45	585	532	16 48	53	162	18 30	174	143	12 52	31
2	20.1	16 45	24.6	17.1	2 30	7.5	552	6 56	584	499	9 5	85	165	16 46	175	155	5 58	20
3	18.9	12 32	26.4	8.3	21 47	18.1	550	7 42	575	524	21 39	51	167	22 0	181	156	11 38	25
4	18.8	11 40	24.8	6.2	21 0	18.6	552	21 15	632	515	11 10	117	165	17 45	181	154	21 55	27
5	18.6	14 0	25.4	11.8	17 19	13.6	550	3 49	578	517	17 2	61	165	17 33	191	146	5 20	45
6	19.1	12 55	25.4	11.2	20 20	14.2	556	20 29	570	541	11 30	29	167	16 10	174	156	1 0	18
7	19.0	13 10	25.5	14.3	20 54	11.2	555	18 35	574	532	12 15	42	164	17 20	175	148	11 51	27
8	19.0	13 42	25.0	13.0	22 0	12.0	556	1 18	570	540	12 59	30	162	16 40	176	147	10 40	29
9	19.8	14 42	24.6	14.6	1 1	10.0	562	21 34	590	548	1 41	42	163	16 45	175	152	10 45	23
10*	19.0	14 8	23.6	12.2	23 10	11.4	562	2 0	575	548	12 50	27	161	17 40	170	145	12 50	25
11	19.3	18 42	28.7	9.0	21 55	19.7	559	18 0	601	514	19 20	87	163	22 5	185	151	12 30	34
12	19.0	3 4	26.1	10.8	19 43	15.3	557	20 5	604	511	15 30	93	162	16 14	187	142	11 42	45
13*	19.1	13 50	25.6	15.8	8 40	9.8	558	23 14	576	535	11 18	41	157	7 5	166	137	12 0	29
14	19.4	14 2	25.6	15.3	9 24	10.3	562	4 40	579	539	15 30	40	155	16 50	167	137	11 10	30
15*	19.1	13 25	24.4	14.8	8 48	9.6	562	22 59	579	536	10 34	43	157	16 50	171	139	11 40	32
16**	19.1	13 50	28.2	1.7	20 33	26.5	551	23 44	613	468	10 30	145	160	20 55	180	141	24 0	39
17	18.4	13 45	24.7	13.4	0 34	11.3	550	22 29	583	503	11 58	80	161	17 20	172	134	0 10	38
18	19.0	12 50	25.9	14.4	17 59	11.5	558	23 12	576	532	11 30	44	157	18 10	170	142	10 1	28
19	18.6	13 5	25.9	6.6	21 50	19.3	567	20 50	591	539	12 1	52	157	20 50	168	141	9 50	27
20**	18.8	13 50	29.2	-7.2	18 36	36.4	555	7 50	585	510	18 18	75	159	18 42	193	136	12 59	57
21	19.6	12 55	27.1	15.6	8 15	11.5	558	21 25	588	520	11 3	68	159	17 30	172	139	11 0	33
22	17.5	14 20	25.9	2.6	21 33	23.3	561	22 1	598	515	10 50	83	159	16 45	179	126	24 0	53
23**	18.0	14 50	23.9	7.5	19 49	16.4	546	0 54	596	500	12 46	96	151	17 26	178	95	1 25	83
24	18.8	14 30	23.8	11.9	16 59	11.9	552	5 25	566	511	12 20	55	162	17 15	183	146	12 20	37
25*	19.3	13 50	24.4	14.4	8 40	10.0	557	6 6	574	528	12 20	46	159	17 25	167	144	12 8	23
26	19.2	13 25	25.7	14.6	9 15	11.1	566	23 42	593	545	10 36	48	158	17 23	172	134	12 8	38
27	18.5	13 12	24.7	14.4	8 40	10.3	563	0 0	586	544	11 30	42	159	20 28	171	142	11 30	29
28*	18.8	13 30	24.9	14.3	22 59	10.6	562	19 59	584	535	10 26	49	159	7 40	171	137	12 45	34
29**	17.1	15 31	31.2	-4.7	21 48	35.9	555	18 42	674	477	21 38	197	158	20 40	187	127	22 44	60
30**	16.1	14 6	28.6	0.7	1 15	27.9	536	20 43	599	493	11 0	106	160	20 30	188	135	2 30	53
31	18.1	13 40	25.9	11.7	19 31	14.2	544	22 51	606	518	16 12	88	169	17 30	202	150	23 28	52
Mean	18.8	-	25.9	10.5	-	15.4	556	-	590	522	-	68.2	161	-	177	141	-	36.3
Mean*	19.1	-	24.6	14.3	-	10.3	560	-	578	536	-	41.2	159	-	169	140	-	28.6
Mean**	17.8	-	28.2	-0.4	-	28.6	549	-	613	490	-	123.8	158	-	185	127	-	58.4
April	10°+	U.T. h m	10°+	U.T. h m	'	18000 Y +	U.T. h m	18000 Y +	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y	
1	18.2	13 30	25.4	11.0	18 25	14.4	541	18 31	577	519	16 22	58	167	18 28	193	150	3 20	43
2	17.7	13 51	26.1	12.3	6 36	13.8	552	1 3	600	514	14 24	86	165	15 19	183	150	11 51	33
3**	17.5	13 1	28.4	3.6	3 26	24.8	552	23 25	613	493	10 29	120	159	17 42	198	114	1 57	84
4	18.9	13 52	27.6	7.4	18 54	20.2	553	19 1	650	509	14 31	141	165	19 0	216	139	4 8	77
5	17.5	13 21	27.8	6.7	16 50	21.1	549	22 8	617	510	10 15	107	167	16 50	215	146	22 45	69
6**	19.2	12 20	28.9	11.9	8 45	17.0	547	23 30	592	471	12 11	121	170	15 30	200	147	23 57	53
7	18.2	2 35	28.5	7.6	19 42	20.9	555	20 1	584	518	12 37	66	164	16 25	184	139	3 12	45
8	18.3	14 12	23.9	12.8	9 39	11.1	557	0 20	579	529	11 39	50	167	16 26	179	150	11 55	29
9*	17.7	14 30	22.7	12.2	8 35	10.5	563	20 3	582	536	11 43	46	163	6 40	171	142	12 20	29
10**	17.6	12 23	25.9	2.8	19 43	23.1	545	19 57	600	479	12 51	121	169	19 46	199	150	24 0	49
11**	18.8	6 13	28.9	3.0	0 22	25.9	531	23 16	600	479	8 15	121	160	17 30	202	103	4 50	99
12	18.1	13 10	24.9	14.4	8 15	10.5	550	18 0	568	517	12 33	51	168	17 28	177	150	12 0	27
13*	18.1	13 45	24.0	14.0	8 58	10.0	560	6 40	576	538	10 46	38	167	7 25	173	148	12 10	25
14*	18.4	13 42	24.0	13.5	9 20	10.5	566	7 5	583	535	11 50	48	164	16 10	171	148	12 0	23
15	18.6	13 48	25.9	12.4	8 20	13.5	573	23 51	602	543	11 21	59	162	20 55	175	146	11 39	29
16	18.5	13 42	26.2	13.0	0 20	13.2	565	0 0	593	522	11 52	71	164	16 25	178	143	11 53	35
17	18.0	14 57	23.9	13.9	{ 8 48	10.0	565	0 32	592	537	11 41	55	163	18 20	172	148	12 0	24
18.5	13 38	24.3	12.4	8 10	11.9	567	15 55	580	548	9 30	32	160	16 30	169	136	11 30	33	
19	18.1	13 10	25.5	12.5	8 15	13.0	565	3 22	585	547	9 4	38	158	2 10	166	135	11 35	31
20	18.7	11 55	25.8	13.3	22 5	12.5	569	15 28	599	529	12 2	70	160	17 30	170	138	12 0	32
21	18.3	13 17	31.0</															

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
May	10°+ '	U.T. h m	10°+ '	10°+ '	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m	Y
1**	18.5	6 45	29.3	5.1	19 50	24.2	536	3 44	598	470	9 31	128	166	17 41	221	118	7 0	103
2	16.7	13 59	27.0	11.1	3 21	15.9	538	0 0	590	475	9 4	115	168	16 0	204	120	0 18	84
3	17.7	13 50	25.2	5.9	23 5	19.3	553	23 18	612	529	7 50	83	172	17 10	203	150	11 52	53
4	18.1	13 20	23.5	12.5	7 26	11.0	556	22 9	592	526	12 21	66	167	16 40	182	148	11 10	34
5	18.0	13 31	25.9	12.5	6 36	13.4	557	19 39	585	513	12 10	72	171	16 59	184	147	11 45	37
6	18.1	12 44	24.6	12.3	7 50	12.3	558	0 42	591	525	10 58	66	168	16 28	181	148	11 53	33
7*	18.2	12 27	26.0	12.2	6 10	13.8	560	23 10	583	532	9 40	51	164	17 25	174	141	11 52	33
8*	18.0	12 41	24.7	14.1	7 45	10.6	569	19 58	585	550	9 32	35	161	18 15	173	130	12 0	43
9*	17.6	12 55	24.2	12.0	6 31	12.2	565	17 50	587	538	8 40	49	163	17 50	173	141	12 40	32
10	17.9	12 58	23.7	11.6	7 38	12.1	573	18 20	611	549	10 52	62	162	18 18	178	139	11 55	39
11	18.0	13 52	24.3	11.2	7 1	13.1	575	16 17	621	542	11 38	79	164	18 25	176	145	11 36	31
12	18.5	3 32	25.5	12.1	6 15	13.4	567	2 53	592	531	8 22	61	163	20 0	177	138	11 58	39
13	17.7	14 33	25.8	10.5	21 41	15.3	565	17 30	601	515	12 11	86	169	17 25	201	146	11 10	55
14	17.1	2 47	23.2	11.4	7 40	11.8	559	23 20	600	511	11 24	89	167	17 20	176	155	3 26	21
15**	18.2	4 28	24.6	11.5	2 9	13.1	546	1 20	609	494	11 28	115	154	17 25	180	108	2 59	72
16	17.3	12 52	27.0	7.9	20 10	19.1	558	17 22	601	511	12 59	90	170	19 28	193	141	11 51	52
17	18.2	13 42	24.7	7.9	20 37	16.8	562	20 45	685	517	11 33	168	167	18 0	195	140	23 58	55
18**	17.7	4 47	26.8	8.6	8 40	18.2	550	21 52	617	476	12 0	141	160	15 45	188	125	3 12	63
19	18.2	4 39	27.8	10.6	20 47	17.2	554	1 50	600	509	7 40	91	162	16 45	181	133	4 58	48
20	17.2	14.00	22.1	11.6	7 40	10.5	556	19 50	576	528	9 31	48	168	18 45	176	145	11 0	31
21*	17.5	14 30	23.0	12.0	8 38	11.0	559	19 25	582	524	10 21	58	166	17 0	175	145	10 54	30
22*	16.9	12 25	23.3	10.6	8 30	12.7	564	18 2	582	539	9 10	43	166	17 10	179	145	11 20	34
23	17.7	14 0	24.2	11.8	6 38	12.4	566	20 31	592	530	11 45	62	164	18 29	183	133	10 58	50
24**	16.1	15 10	24.7	6.9	2 59	17.8	562	2 33	607	527	8 12	80	168	18 39	212	114	2 42	98
25	17.1	13 40	25.4	10.6	0 58	14.8	549	18 35	592	502	13 59	90	172	19 20	195	146	2 32	49
26	17.1	13 50	23.5	9.0	23 52	14.5	558	19 55	588	537	9 48	51	171	18 28	194	149	12 0	45
27	17.1	15 57	24.0	8.4	23 59	15.6	566	21 59	630	532	9 0	98	163	20 25	183	146	11 35	37
28**	17.9	2 40	24.4	8.5	0 0	15.9	554	18 7	614	500	9 41	114	166	18 4	193	133	3 28	60
29	16.8	13 20	22.5	10.5	0 0	12.0	556	0 24	594	526	13 30	68	168	19 30	182	153	11 22	29
30	17.0	13 58	23.0	11.6	6 45	11.4	560	22 29	590	524	7 6	66	169	18 25	183	147	11 18	36
31	17.3	14 55	23.5	10.9	6 40	12.6	567	23 35	597	540	9 10	57	167	6 55	178	146	11 55	32
Mean	17.6	-	24.8	10.4	-	14.3	559	-	600	520	-	80.1	166	-	186	139	-	47.0
Mean*	17.6	-	24.3	12.2	-	12.1	563	-	584	537	-	47.2	164	-	175	140	-	34.4
Mean**	17.7	-	26.0	8.1	-	17.8	550	-	609	493	-	115.6	163	-	199	120	-	79.2
June	10°+ '	U.T. h m	10°+ '	10°+ '	U.T. h m	'	18000 Y+	U.T. h m	18000 Y+	18000 Y+	U.T. h m	Y	43000 Y+	U.T. h m	43000 Y+	43000 Y+	U.T. h m	Y
1	16.6	14 5	21.5	8.9	21 42	12.6	576	19 5	607	535	9 28	72	169	21 45	178	151	10 35	27
2	17.3	12 25	22.3	10.6	7 59	11.7	569	14 55	587	531	10 20	56	167	18 35	180	150	11 40	30
3	17.5	12 55	23.2	12.1	6 14	11.1	566	17 30	591	534	9 20	57	168	17 30	180	151	9 20	29
4*	16.7	13 40	23.2	11.6	8 50	11.6	569	19 2	583	532	11 36	51	167	16 40	178	144	12 33	34
5	17.8	14 0	25.6	10.6	8 10	15.0	579	23 59	624	539	11 30	85	165	18 30	176	146	12 1	30
6	15.8	13 50	23.1	7.7	7 0	15.4	574	0 6	625	540	8 24	85	160	16 25	174	141	9 3	33
7	17.5	15 12	25.1	11.2	7 55	13.9	570	23 0	624	511	12 20	113	165	20 0	182	139	11 40	43
8**	18.4	15 15	25.6	10.5	22 46	15.1	564	17 49	619	521	11 36	98	176	17 45	222	153	10 58	69
9**	17.6	13 48	23.3	10.9	6 4	12.4	554	21 51	588	487	9 30	101	173	19 40	192	156	5 15	36
10	16.5	4 35	22.4	11.7	7 0	10.7	559	22 40	595	508	10 30	87	172	16 30	185	161	10 35	24
11	17.3	15 2	23.8	11.7	8 28	12.1	564	15 0	609	526	10 40	83	171	17 10	186	148	10 30	38
12	16.9	11 59	21.7	11.0	6 29	10.7	564	19 38	606	519	8 28	87	171	19 38	183	151	10 32	32
13	17.3	1 30	28.0	10.6	3 35	17.4	565	20 40	617	539	8 55	78	165	19 0	184	129	2 2	55
14	16.9	12 55	22.5	11.4	1 36	11.1	561	0 58	603	524	10 1	79	171	17 28	195	150	2 15	45
15	16.6	14 10	22.3	11.5	7 55	10.8	561	19 3	581	527	11 29	54	171	18 0	182	151	11 20	31
16*	16.5	13 40	22.8	9.5	8 5	13.3	567	19 1	584	530	9 20	54	170	16 30	178	148	11 40	30
17*	15.9	13 58	20.0	10.5	6 15	9.5	568	15 56	587	537	10 32	50	170	16 48	179	151	11 38	28
18*	17.0	14 10	23.0	10.5	6 35	12.5	574	22 10	595	544	12 32	51	167	5 10	176	146	12 0	30
19	17.4	14 18	25.3	9.7	7 2	15.6	581	15 53	634	548	12 50	86	166	17 18	181	138	10 45	43
20	16.4	14 30	26.6	6.3	1 28	20.3	557	0 8	625	506	9 54	119	164	17 20	190	130	1 41	60
21	17.0	15																

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
July	10°+	U.T. h m	10°+ h m	10°+ h m	10°+ 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*	16.1	14 35	21.9	10.7	{ 8 20	11.2	573	22 55	586	556	6 39	30	166	18 2	174	145	11° 40	29
2	16.7	13 58	24.1	10.6	23 53	13.5	580	23 4	610	559	10 45	51	166	17 10	174	146	11 52	28
3	16.2	13 3	23.9	8.0	3 38	15.9	566	2 49	602	529	13 27	73	165	18 12	184	135	7 56	49
4**	15.7	16 28	25.8	4.7	20 15	21.1	567	16 21	617	515	17 0	102	172	19 12	208	140	11 52	68
5**	15.9	14 10	25.7	1.7	22 33	24.0	563	18 50	666	492	14 28	174	172	18 48	207	138	2 18	69
6**	16.4	2 28	27.5	10.3	0 10	17.2	550	22 40	598	456	10 38	142	171	16 28	209	143	3 26	66
7	16.0	14 58	21.9	10.4	21 53	11.5	560	18 2	593	499	11 30	94	170	16 28	189	154	1 56	35
8**	15.8	14 11	21.7	9.9	1 32	11.8	553	19 52	599	494	11 41	105	169	19 52	193	149	1 10	44
9**	17.0	7 21	24.0	6.0	18 10	18.0	555	18 20	676	458	7 49	218	176	18 16	221	152	7 50	69
10	16.5	3 20	22.0	9.3	6 50	12.7	553	17 10	593	486	11 30	107	172	17 6	206	141	3 55	65
11	16.7	12 48	22.3	10.6	22 56	11.7	552	22 33	593	490	7 40	103	173	18 25	192	159	24 0	33
12	16.0	15 15	21.8	9.8	20 50	12.0	557	18 36	594	511	9 15	83	169	19 58	191	150	4 0	41
13	15.9	0 40	21.0	9.3	8 25	11.7	559	20 32	621	515	11 0	106	172	17 21	199	148	2 2	51
14*	16.2	13 40	21.8	11.6	7 48	10.2	563	17 59	587	538	9 16	49	172	19 5	179	163	11 0	16
15	15.9	15 16	22.9	10.6	7 35	12.3	564	19 21	583	539	10 23	44	177	19 18	197	167	9 50	30
16	16.5	14 33	25.1	9.3	5 46	15.8	562	22 3	585	538	15 21	47	175	18 35	200	156	13 8	44
17	16.1	1 50	24.0	8.4	23 36	15.6	570	23 10	606	542	13 32	64	173	17 15	188	156	2 27	32
18	15.4	13 20	28.1	8.1	8 41	20.0	570	18 42	606	528	11 54	78	176	18 15	202	155	11 53	47
19	15.8	16 20	22.3	9.4	21 55	12.9	557	16 20	599	525	10 46	74	173	18 16	201	151	11 55	50
20	16.3	14 10	24.4	10.9	5 45	13.5	566	16 35	599	529	9 0	70	171	16 28	191	154	11 54	37
21	15.9	15 20	23.7	10.6	8 38	13.1	567	17 14	607	520	11 12	87	171	17 29	195	154	11 55	41
22	15.8	13 38	22.0	10.9	7 0	11.1	563	21 10	608	503	10 16	105	170	18 25	188	158	22 31	30
23	16.4	15 10	23.3	11.6	8 25	11.7	565	20 3	591	543	16 28	48	169	19 40	181	144	11 50	37
24*	15.6	14 0	21.7	10.6	9 15	11.1	565	19 56	581	545	10 20	36	171	7 40	182	154	12 2	28
25*	16.0	13 45	20.8	11.6	7 3	9.2	570	22 12	597	543	13 10	54	167	7 0	175	148	12 33	27
26	15.6	13 59	23.1	9.7	20 28	13.4	576	18 36	612	542	12 40	70	165	18 32	185	143	13 12	42
27	16.0	14 2	22.0	9.0	2 20	13.0	572	18 48	587	538	12 20	49	166	15 26	180	145	2 16	35
28	15.5	13 30	21.2	10.0	8 42	11.2	570	17 59	587	534	13 17	53	166	16 45	174	147	12 10	27
29*	15.8	13 46	21.1	9.4	7 20	11.7	568	23 23	595	539	10 12	56	168	16 15	178	162	13 45	16
30	16.1	13 15	27.2	7.8	20 1	19.4	569	1 59	601	519	9 40	82	170	17 35	197	146	9 35	51
31	16.1	13 45	27.2	7.1	21 25	20.1	558	21 30	605	505	11 5	100	170	17 30	189	149	12 12	40
Mean	16.1	-	23.4	9.3	-	14.1	564	-	603	520	-	82.4	170	-	191	150	-	41.2
Mean*	15.9	-	21.5	10.8	-	10.7	568	-	589	544	-	45.0	169	-	178	154	-	23.2
Mean**	16.2	-	24.9	6.5	-	18.4	558	-	631	483	-	148.2	172	-	208	144	-	63.2
August	10°+	U.T. h m	10°+ h m	10°+ h m	10°+ h m	10°+ 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	16.3	12 32	25.1	8.8	18 0	16.3	564	18 6	637	500	12 24	137	169	18 2	206	143	12 3	63
2	16.8	13 40	26.5	8.6	18 22	17.9	561	18 38	598	511	14 29	87	173	18 40	211	150	11 20	61
3	15.4	0 55	23.2	6.5	19 35	16.7	556	18 14	592	510	13 58	82	171	19 41	199	142	1 13	57
4	15.4	12 40	20.3	9.8	0 6	10.5	560	17 58	637	514	12 51	123	177	17 59	208	155	4 20	53
5	15.8	2 5	22.6	10.5	20 10	12.1	553	2 14	614	510	9 20	104	175	16 40	205	144	2 40	61
6	15.9	12 50	22.3	6.0	18 52	16.3	556	19 18	614	509	8 22	105	174	19 15	206	150	11 55	56
7	15.9	13 59	24.3	10.6	9 49	13.7	560	16 15	597	479	9 50	118	175	16 16	192	151	9 30	41
8**	15.0	14 48	27.5	-9.3	21 16	36.8	551	17 39	653	437	24 0	216	187	15 32	283	102	24 0	181
9	13.7	14 58	22.0	-5.6	1 30	27.6	535	23 45	594	392	0 9	202	166	18 10	206	77	0 8	129
10*	14.7	13 38	19.2	10.6	8 40	8.6	550	23 47	576	528	10 44	48	176	17 14	189	163	0 16	26
11*	15.1	13 0	20.2	11.3	7 10	8.9	556	20 20	583	526	10 54	57	175	16 50	185	160	12 31	25
12	15.4	13 5	20.0	9.5	5 55	10.5	566	23 25	629	544	9 38	85	174	23 22	182	161	11 55	21
13**	14.1	13 7	28.7	-4.5	21 40	33.2	552	19 51	624	476	13 15	148	175	16 12	211	142	9 51	69
14	15.1	12 7	25.0	7.0	19 57	18.0	555	20 1	668	507	9 27	161	175	17 14	202	152	0 31	50
15	14.4	13 40	22.6	7.1	21 13	15.5	555	21 23	619	517	7 55	102	175	18 49	204	156	11 35	48
16	15.4	12 12	24.1	10.4	7 20	13.7	552	21 10	609	464	11 0	145	172	17 50	201	143	10 45	58
17	15.4	1 49	23.1	8.6	20 12	14.5	552	19 1	584	498	7 33	86	172	18 10	201	136	2 20	65
18	15.1	12 50	27.8	2.5	9 8	25.3	540	19 13	581	458	10 12	123	176	16 51	211	143	10 10	68
19	16.3	14 9	27.0	1.1	20 19	25.9	543	20 27	639	476	10 38	163	183	15 20	219	145	24 0	74
20**	16.0	13 50	24.1	4.9	0 10	19.2	542	21 47	633	461	11 18	172	173	19 20	201	129		

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	10°+ h m	10°+ 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	U.T. h m	Y
1	15.1	0 23	26.8	2.1	18 43	24.7	531	18 48	601	467	10 30	134	184	17 40	229	141	0 48	88
2	14.8	13 8	21.7	4.2	19 10	17.5	537	22 38	591	497	12 2	94	188	14 34	227	151	3 12	76
3**	15.1	14 22	22.6	5.6	17 28	17.0	533	21 23	638	457	11 30	181	183	15 23	235	147	22 33	88
4	14.4	13 44	20.6	5.2	19 29	15.4	541	18 50	598	481	10 48	117	184	18 3	216	167	10 35	49
5	14.3	3 35	21.0	7.1	20 11	13.9	546	20 15	591	480	11 26	111	183	16 58	212	157	4 1	55
6	14.5	14 5	19.8	9.7	0 0	10.1	548	20 10	573	511	11 11	62	185	18 29	199	171	1 3	28
7*	15.0	13 30	20.8	11.7	9 13	9.1	556	20 9	581	532	9 58	49	184	19 0	190	171	12 10	19
8	13.1	14 15	21.8	-3.0	21 26	24.8	560	21 54	610	499	18 16	111	183	18 30	222	161	23 46	61
9	13.7	14 35	23.9	1.4	23 30	22.5	549	21 7	648	486	10 27	162	176	19 32	206	144	1 30	62
10	13.9	11 54	21.0	5.3	0 0	15.7	545	21 45	605	470	10 31	135	179	16 10	214	130	1 22	84
11	14.2	13 32	23.5	1.4	22 25	22.1	550	22 2	592	510	14 0	82	180	16 20	201	156	3 30	45
12	14.3	13 17	20.8	2.5	18 52	18.3	550	19 4	592	493	9 51	99	181	18 40	208	164	1 1	44
13	14.4	11 27	22.7	1.9	18 50	20.8	548	19 11	601	501	11 0	100	181	16 26	211	152	3 26	59
14	14.2	11 13	23.1	0.4	19 27	22.7	556	0 10	606	496	10 44	110	179	0 3	192	164	23 56	28
15	14.3	13 40	21.6	7.3	19 15	14.3	553	22 23	590	522	10 17	68	180	16 30	196	163	23 17	33
16*	14.3	13 8	20.5	10.0	20 39	10.5	556	20 40	593	517	16 6	76	181	16 25	200	165	13 1	35
17	14.1	13 36	20.5	8.5	2 38	12.0	556	23 0	583	531	10 37	52	179	16 30	190	167	12 5	23
18*	13.3	12 55	17.4	1.2	23 14	16.2	559	21 50	613	532	23 51	81	177	19 15	188	158	12 20	30
19	14.3	13 5	19.3	6.1	0 0	13.2	553	17 50	574	511	10 36	63	180	17 25	190	165	0 0	25
20*	15.0	14 23	22.5	9.3	22 25	13.2	564	23 28	594	538	9 59	56	175	23 10	191	157	12 55	34
21	13.4	12 58	21.6	4.4	19 53	17.2	555	2 12 } 2 12 }	595	491	11 35	104	176	20 12	197	157	10 59	40
22	14.7	12 57	23.4	8.5	17 25	14.9	554	23 1	584	519	13 55	65	177	15 5	199	159	1 48	40
23	14.7	12 18	20.7	9.4	23 49	11.3	555	21 46	586	510	10 1	76	175	17 25	188	162	2 20	26
24*	14.5	12 26	19.8	10.3	8 10	9.5	561	20 23	591	536	11 42	55	174	20 15	185	159	11 38	26
25	14.6	13 26	21.4	11.6	6 32	9.8	557	5 52	595	515	12 38	80	178	16 8	192	164	12 5	28
26**	14.6	14 32	26.2	0.5	20 58	25.7	547	21 9	632	448	14 39	184	183	17 30	220	161	13 10	59
27	13.3	12 10	24.7	-4.7	18 53	29.4	552	18 59	622	482	10 56	140	174	18 27	204	142	3 35	62
28**	13.5	12 18	{ 23.3	-2.4	21 34	25.7	534	21 45	627	451	12 29	176	180	15 49	225	132	1 2	93
29**	14.1	12 3	26.7	-12.4	19 6	39.1	526	19 21	605	442	12 10	163	190	14 50	248	143	3 48	105
30**	13.0	4 1	24.6	-6.0	21 30	30.6	539	21 40	626	411	11 40	215	178	15 33	213	141	3 31	72
Mean	14.2	-	22.1	3.9	-	18.2	549	-	601	495	-	106.7	180	-	206	156	-	50.6
Mean*	14.4	-	20.2	8.5	-	11.7	559	-	594	531	-	63.4	178	-	191	162	-	28.8
Mean**	14.1	-	24.7	-2.9	-	27.6	536	-	626	442	-	183.8	183	-	228	145	-	83.4
October	10°+	U.T. h m	10°+ h m	10°+ 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**	14.1	23 22	24.0	-3.1	19 52	27.1	535	20 5	613	482	10 1	131	182	15 12	226	147	1 21	79
2**	12.6	23 40	26.6	-10.1	18 20	36.7	536	18 33	632	472	16 0	160	185	16 15	233	130	1 40	103
3**	13.4	12 55	23.2	-3.1	16 40	26.3	537	21 34	627	441	9 45	186	184	16 52	238	149	2 10	89
4	14.1	2 22	21.0	7.0	16 43	14.0	541	22 36	589	488	9 39	101	181	16 50	211	151	2 32	60
5	13.9	1 25	18.9	5.9	19 39	13.0	553	19 45	586	526	9 43	60	183	19 25	195	166	2 5	29
6*	14.6	12 25	19.7	10.9	2 51	8.8	554	6 10	569	527	10 40	42	184	17 30	192	174	1 20	18
7	14.1	14 1	24.9	0.2	22 57	24.7	556	22 25	589	509	14 40	80	185	19 7	205	169	10 50	36
8	13.5	12 45	23.4	2.5	0 50	20.9	548	0 22	600	469	11 49	131	186	19 45	212	161	11 48	51
9**	14.2	8 6	25.5	-1.4	16 51	26.9	545	20 13	640	485	7 42	155	181	17 0	215	162	5 0	53
10	13.2	13 2	20.4	-6.9	16 36	27.3	548	16 57	584	473	16 24	111	186	16 45	220	168	11 10	52
11	13.4	11 31	17.7	6.1	20 12	11.6	552	21 10	600	514	10 16	86	185	7 30	192	174	1 35	18
12	13.5	13 1	17.3	8.7	1 20	8.6	556	19 57	609	534	9 40	75	180	18 28	192	171	10 45	21
13	13.7	12 48	19.6	10.3	8 40	9.3	555	21 40	570	536	10 19	34	180	21 15	189	168	10 20	21
14*	13.7	12 6	19.1	9.9	20 15	9.2	560	20 19	575	543	10 20	32	180	19 20	189	163	11 34	26
15*	14.0	12 58	18.8	10.4	8 50	8.4	563	12 46	577	544	9 35	33	180	4 50	185	164	11 53	21
16*	14.0	12 37	18.8	9.2	22 10	9.6	566	22 14	596	552	10 16	44	178	15 23	188	160	11 14	28
17	14.1	12 52	21.8	8.8	21 47	13.0	558	21 57	598	525	12 10	73	181	21 30	192	164	11 20	28
18*	13.9	11 55	17.8	10.4	22 56	7.4	560	23 40	595	545	18 17	50	181	18 27	193	166	10 40	27
19	14.2	14 8	19.0	10.4	0 28	8.6	560	20 5	579	526	10 15	53	180	13 55	188	171	0 10	17
20	13.0	15 40	17.3	-3.6	18 32	20.9	561	22 0	601	501	18 17	100	183	18 45	210	168	11 28	42
21	13.1	12 17	17.9	3.9	2 10	14.0	556	0 43	582	538	10 19	44	179	15 20	187	161		

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	
November	10°+	U.T. h m	10°+ h m	10°+ h m	U.T. h m	/	18000 Y +	U.T. h m	18000 Y +	U.T. h m	18000 Y +	U.T. h m	Y	43000 Y +	U.T. h m	43000 Y +	43000 Y +	U.T. h m	Y
1	12.7	11 50	20.4	0.2	18 24	20.2	536	18 30	616	479	10 50	137	195	14 3	228	179	0 36	49	
2	13.3	13 5	16.9	10.3	17 5	6.6	550	21 19	562	525	10 20	37	189	17 20	200	179	11 40	21	
3	12.9	12 50	16.7	8.9	22 40	7.8	556	22 43	586	539	10 25	47	188	19 15	193	177	12 40	16	
4	13.1	13 8	17.8	6.9	23 20	10.9	561	5 28	577	545	11 43	32	186	23 25	191	172	12 45	19	
5	13.7	12 58	23.0	8.6	5 55	14.4	561	6 8	589	524	14 57	65	185	21 0	195	173	13 12	22	
6	11.7	13 47	20.2	-21.7	17 41	41.9	552	22 37	619	451	17 22	168	188	17 42	242	166	23 0	76	
7	12.8	12 13	17.3	1.3	20 22	16.0	551	20 40	577	525	8 50	52	184	20 39	201	169	0 41	32	
8	12.8	12 1	16.5	6.9	21 21	9.6	556	22 30	573	527	9 11	46	185	15 30	192	178	1 25	14	
9	13.0	12 10	17.1	9.7	19 55	7.4	558	23 10	590	538	6 44	52	185	17 50	193	174	2 50	19	
10	12.1	12 2	16.9	0.5	20 27	16.4	555	20 8	589	535	10 50	54	185	20 0	194	178	11 0	16	
11*	12.7	12 47	15.7	10.6	8 35	5.1	557	22 7	569	539	10 28	30	185	14 7	191	180	0 20	11	
12	13.7	13 3	19.9	10.1	19 17	9.8	560	7 0	575	538	12 1	37	182	16 40	188	170	9 55	18	
13*	13.1	12 11	17.5	6.9	22 6	10.6	557	20 8	569	542	10 42	27	182	15 25	189	170	11 2	19	
14*	12.9	12 12	16.3	9.1	19 12	7.2	559	14 11	573	547	10 26	26	182	18 30	191	173	9 30	18	
15*	13.8	12 8	17.3	11.7	22 53	5.6	567	18 40	583	552	10 10	31	180	18 40	186	168	10 32	18	
16	12.9	3 41	18.4	3.4	21 38	15.0	563	4 50	600	537	19 36	63	179	20 12	195	168	4 11	27	
17*	13.1	12 55	16.3	11.3	23 53	5.0	562	6 20	570	549	10 30	21	180	17 30	188	168	11 25	20	
18	13.0	13 3	16.4	10.6	19 37	5.8	563	7 10	584	531	17 55	53	180	19 55	194	166	11 0	28	
19**	12.8	9 30	22.1	-4.9	23 13	27.0	540	23 21	668	430	12 3	238	189	18 15	216	157	23 54	59	
20**	12.4	7 20	20.9	-9.9	16 13	30.8	538	3 13	600	469	15 45	131	184	16 27	216	156	3 34	60	
21	11.8	5 38	19.3	-4.0	16 35	23.3	537	0 36	615	465	13 50	150	188	16 39	226	156	1 8	70	
22	12.2	5 2	19.0	-7.2	16 33	26.2	544	19 55	590	505	16 30	85	186	17 0	212	168	0 0	44	
23	10.8	14 59	18.1	-10.3	20 38	28.4	538	17 5	612	476	20 16	136	187	16 53	222	150	22 5	72	
24	11.5	12 58	19.8	-9.2	18 14	29.0	536	21 8	611	460	13 47	151	189	15 4	225	156	1 31	69	
25**	10.1	11 47	20.1	-15.5	18 59	35.6	532	17 17	597	474	18 46	123	192	15 20	226	169	2 52	57	
26**	12.6	20 43	22.7	1.5	21 18	21.2	536	20 30	623	451	14 30	172	193	15 10	243	144	24 0	99	
27**	12.8	3 55	23.6	1.9	21 0	21.7	538	4 25	612	478	12 43	134	179	15 50	212	138	0 10	74	
28	12.3	10 38	19.8	-4.1	18 32	23.9	548	23 18	575	495	10 46	80	186	18 40	203	169	0 15	34	
29	13.1	5 43	22.3	-2.1	18 12	24.4	538	19 50	597	488	13 31	109	189	18 30	214	170	3 44	44	
30	12.8	14 9	16.1	8.0	16 20	8.1	546	2 14	566	506	16 0	60	192	16 30	212	183	3 0	29	
Mean	12.6	-	18.8	1.7	-	17.2	550	-	592	507	-	84.9	186	-	206	167	-	38.5	
Mean*	13.1	-	16.6	9.9	-	6.7	560	-	573	546	-	27.0	182	-	189	172	-	17.2	
Mean**	12.1	-	21.9	-5.4	-	27.3	537	-	620	460	-	159.6	187	-	223	153	-	69.8	
December	10°+	U.T. h m	10°+ h m	10°+ 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	12.7	16 59	18.2	7.3	21 29	10.9	553	16 30	569	521	21 21	48	192	21 40	207	184	12 58	23	
2	12.2	15 51	19.8	-6.5	19 52	26.3	554	23 9	587	500	19 44	87	192	20 0	220	179	24 0	41	
3**	12.0	14 23	19.8	-0.4	19 6	20.2	547	19 15	599	492	14 31	107	192	19 10	218	177	23 50	41	
4	11.3	13 10	16.6	1.5	18 21	15.1	549	22 27	614	508	13 33	106	189	18 27	208	171	0 52	37	
5	12.5	15 39	16.0	8.0	20 50	8.0	551	21 0	569	518	5 0	51	190	16 20	201	182	4 50	19	
6*	12.1	10 45	13.5	10.6	0 2	2.9	556	19 8	566	546	0 52	20	189	23 12	195	185	0 50	10	
7	12.7	14 41	15.3	11.3	3 6	4.0	558	7 3	568	548	0 34	20	188	13 30	194	185	9 50	9	
8	12.4	13 45	15.2	8.7	16 40	6.5	560	7 45	574	532	16 20	42	189	16 50	198	182	5 35	16	
9	12.7	13 0	16.4	8.3	22 33	8.1	560	6 40	588	525	15 40	63	186	16 30	199	176	6 0	23	
10	12.8	15 31	17.4	9.8	1 12	7.6	560	0 25	595	530	15 52	65	185	17 35	195	177	1 10	18	
11*	12.6	12 22	15.9	10.7	19 0	5.2	563	11 49	581	549	18 0	32	186	15 28	195	180	23 35	15	
12*	12.4	16 48	15.2	9.1	24 0	6.1	563	23 15	572	548	20 35	24	186	20 50	193	180	8 30	13	
13*	12.7	2 39	15.5	7.6	20 1	7.9	565	7 30	576	549	19 15	22	184	19 30	191	179	8 55	12	
14	13.2	15 30	21.0	8.9	23 12	12.1	561	7 15	583	505	15 43	78	187	16 30	203	175	10 40	28	
15	12.0	18 55	14.4	2.1	21 3	12.3	555	14 10	569	532	20 54	37	188	21 25	199	175	24 0	24	
16**	12.8	13 35	24.9	-0.9	18 56	25.8	536	22 56	595	452	13 2	143	196	18 30	233	172	8 49	61	
17**	12.3	4 50	19.3	-3.1	16 45	22.4	539	6 26	587	465	16 32	122	190	16 55	217	165	23 52	52	
18	11.5	2 43	18.5	-2.0	19 21	20.5	545	19 31	619	480	14 21	139	192	15 0	212	168	0 0	44	
19**	10.8	7 33	19.4	-22.0	17 58	41.4	539	2 16	591	446	17 50	145	193	18 30	230	175	3 5	55	
20**	10.9	0 37	19.9	-5.6	17 16	25.5	538	23 49	624	487	16 32	137	194	16 53	222	164	1 0	58	
21	10.8	10 58	17.4	-12.2	19 34	29.6	551	22 39	609	510	19 11	99	188	19 40	209	165	23 15	44	
22	11.2																		

MAGNETIC OBSERVATIONS, ABINGER 1943.

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1943* (SEE INTRODUCTION PAGE xi).

Date	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	0002 0143	10	2110 1113	10	0212 3331	15	3321 2343	21	4545 3455	35	2123 2233	18
2	2011 1311	10	1022 3213	14	1253 2111	16	4231 3223	20	5344 3522	28	1223 3211	15
3	2211 2323	16	3223 2233	20	1133 3134	19	5543 4534	33	3112 1424	18	1122 2202	12
4	3225 5644	31	2323 3233	21	3234 2345	26	4323 4363	28	3331 2324	21	2113 3110	12
5	3223 1334	21	3122 3342	20	3332 2433	23	5333 3535	30	1123 3332	18	2112 2323	16
6	3122 2233	18	3111 3433	19	3121 2243	18	4343 5334	29	3112 3311	15	4432 2220	19
7	1111 1011	7	2111 2223	14	2212 2132	15	5422 3243	25	3322 1111	14	1223 4424	22
8	0101 1134	11	3111 1141	13	3322 2323	20	3232 1111	14	1112 2211	11	3434 4543	30
9	3233 1111	15	2121 0131	11	3212 2234	19	1122 2123	14	1122 1320	12	3444 4433	29
10	1111 2223	13	0012 2122	10	2111 1213	12	1334 4355	28	1002 2431	13	1443 3424	25
11	1110 1112	8	3332 2112	17	3111 3354	21	5543 3344	31	1122 3423	18	1013 4532	19
12	0211 1113	10	2201 1123	12	4423 3443	27	2112 3211	13	2442 3222	21	1243 4342	23
13	1111 0112	8	3332 3223	21	2121 2101	10	0111 1101	6	2244 4524	27	5312 3444	26
14	0011 0011	4	2122 1112	12	2332 2311	17	0113 2111	10	3323 2323	21	4333 3310	20
15	0010 1121	6	2132 1121	13	0111 1211	8	0123 2343	18	5433 2332	25	1122 2121	12
16	0010 2323	11	1012 1333	14	2234 3355	27	3233 3332	22	1013 4442	19	1132 1111	11
17	3124 3554	27	3446 4354	33	3123 4213	19	3123 2311	16	3333 3465	30	1111 2200	8
18	3132 2330	17	3333 3202	19	1032 1331	14	1212 1111	10	5544 4444	34	0112 3211	11
19	2111 2323	15	3122 3311	16	1123 2434	20	2313 2111	14	3442 3333	25	0213 4534	22
20	1233 3566	29	0112 2311	11	2243 3462	26	0113 4413	17	2111 3211	12	5324 3433	27
21	4334 4335	29	0002 2122	9	2122 1332	16	5334 3441	27	2021 2210	10	3333 5533	28
22	6123 3554	29	0012 2122	10	2223 3345	24	1133 1112	13	0111 1111	7	3343 3443	27
23	3233 3223	21	3221 1233	17	5432 4343	28	0021 2111	8	1223 3333	20	3333 4434	27
24	3313 2233	20	3212 2223	17	1121 3400	12	0002 2110	6	4323 3444	27	4333 4533	28
25	2121 1110	9	1112 2444	19	1321 2111	12	2312 2334	20	4343 4333	27	3333 3433	25
26	3334 1413	22	5433 2443	28	2121 1213	13	5543 3344	31	3212 2333	19	1112 2223	14
27	2112 3320	14	3312 2223	18	3111 1132	13	4122 2321	17	4322 2335	24	4112 2324	19
28	0133 2332	17	2111 0111	8	0021 1122	9	1111 3233	15	5534 3544	33	2343 4354	28
29	3111 2123	14			2323 3475	29	3132 3323	20	3433 3332	24	3332 1311	17
30	4321 1113	16			4423 3354	28	2334 3333	24	2232 3323	20	1211 2100	8
31	0111 2222	11			3321 2435	23			1111 2222	12		

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

MAGNETIC OBSERVATIONS, ABINGER 1943.

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TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1943*: (SEE INTRODUCTION PAGE xi).

Date	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	1221 1110	9	3334 4553	30	5334 4553	32	4443 4455	33	3233 4453	27	0012 2334	15
2	0111 2113	10	3343 4453	29	4433 4344	29	5334 5665	37	2121 1311	12	2322 2564	26
3	3333 3331	22	5344 4343	30	4444 4535	33	4345 4655	36	1111 2113	11	3332 4554	29
4	3214 4553	27	3433 4554	31	3444 4442	29	4334 4423	27	1211 2113	12	4332 4345	28
5	4544 5555	37	4333 4443	28	4424 3443	28	3212 3133	18	2333 4322	22	3422 3332	22
6	5545 5444	36	3243 2452	25	4223 1331	19	3321 1101	12	2332 4655	30	1000 1100	3
7	3334 3333	25	2234 4412	22	3211 2232	16	4312 4334	24	3233 2244	23	1111 1100	6
8	3344 4442	28	3434 5556	35	3223 3455	27	4125 4445	29	2333 3233	22	1101 3321	12
9	3355 4564	35	6443 4334	31	5444 4445	34	3354 4554	33	3231 2223	18	2232 2322	18
10	3434 4432	27	3312 1223	17	4334 4434	29	3332 3632	25	2121 2143	16	4112 3311	16
11	2344 5333	27	3222 2222	17	4432 4434	28	2123 3234	20	1111 1111	8	1112 2221	12
12	3433 3334	26	3121 2234	18	3224 3443	25	3332 2344	24	0113 2221	12	0001 0123	7
13	4333 3443	27	3544 5455	35	4433 4452	29	3212 3112	15	0011 1233	11	3111 1131	12
14	3111 1220	11	3234 4464	30	4424 3354	29	2012 2132	13	1111 1321	11	0012 3422	14
15	1222 2332	17	3333 4444	28	4233 3334	25	1013 2110	9	0111 1232	11	1111 1244	15
16	3322 3333	22	3345 4434	30	3222 3433	22	1112 3113	13	3322 3334	23	3155 5455	33
17	4211 3323	19	4442 3334	27	3321 2323	19	1123 3234	19	1111 1111	8	4435 4534	32
18	3324 5444	29	3345 5541	30	1112 2125	15	1011 2333	14	1122 3431	17	4333 4353	28
19	3332 3433	24	1244 3554	28	4333 3222	22	3232 3121	17	1455 5556	36	4344 4664	35
20	3122 3313	18	5444 3445	33	1112 3323	16	1112 2454	20	5544 4653	36	4134 4545	30
21	3333 4333	25	3443 3312	23	4334 3343	27	4221 1110	12	5444 5554	36	4322 3165	26
22	3233 3334	24	2111 2223	14	3433 4433	27	1134 3545	26	3333 4544	29	3233 3444	26
23	2222 2321	16	2222 3234	20	3333 3333	24	4211 3123	17	3434 4666	36	2233 4243	23
24	1321 2200	11	3442 3423	25	3212 2132	16	3335 5455	33	4333 5455	32	2212 2131	14
25	0111 2212	10	3332 3333	23	2333 3311	19	5344 4454	33	4334 5565	35	1323 1133	17
26	1113 3233	17	3343 3332	24	1333 6555	31	5544 5554	37	3433 5555	33	3112 3544	23
27	3323 3321	20	1212 2122	13	4334 4355	31	3343 2356	29	4544 4454	34	1222 2121	13
28	0112 3211	11	2333 6535	30	5443 5445	34	5533 3554	33	4343 3353	28	2121 1111	10
29	2221 1102	11	4343 5553	32	4453 5565	37	4444 5464	35	4432 4453	29	1122 0342	15
30	3334 4443	28	5554 6566	42	4535 5466	38	4443 5445	33	2111 3311	13	1111 3212	12
31	4134 3334	25	6656 6664	45			3434 5464	33			1121 3355	21

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

MAGNETIC OBSERVATIONS, ABINGER 1943.

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

"All" Days

DECLINATION WEST (Unit 0'.01)

Month and Season, 1943.	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	-144	-062	+006	-010	-006	+031	+018	-010	-063	-052	+030	+144	+275	+329	+268	+199	+163	+009	-024	-078	-210	-326	-302	-194
Feb.	-171	-130	-112	-090	-069	-050	-045	-057	-085	-096	+019	+176	+307	+363	+346	+244	+172	+107	+044	-025	-163	-218	-234	-226
March	-146	-134	-104	-080	-107	-111	-120	-188	-261	-212	+010	+265	+487	+563	+537	+416	+240	+079	-006	-070	-262	-336	-274	-189
April	-252	-194	-111	-205	-194	-166	-218	-272	-359	-238	+016	+316	+533	+631	+540	+379	+226	+107	+027	-052	-075	-128	-144	-167
May	-119	-141	-118	-177	-162	-257	-349	-403	-375	-205	+059	+327	+494	+548	+496	+412	+291	+155	+044	-002	-073	-104	-175	-175
June	-095	-159	-166	-187	-192	-310	-399	-419	-420	-289	-071	+219	+417	+505	+531	+467	+338	+187	+115	+062	+045	-017	-063	-094
July	-160	-142	-133	-176	-240	-300	-306	-359	-363	-287	-088	+172	+393	+558	+570	+498	+367	+231	+136	+030	-078	-067	-103	-145
Aug.	-196	-180	-096	-133	-136	-165	-199	-253	-251	-171	+066	+334	+564	+624	+571	+379	+251	+043	-057	-178	-179	-228	-205	-216
Sept.	-127	-069	-090	-087	-075	-077	-098	-159	-186	-116	+075	+324	+484	+539	+464	+301	+186	+036	-210	-239	-153	-231	-204	-285
Oct.	-132	-051	-098	-047	-016	+043	+038	-011	-060	-048	+143	+362	+475	+447	+266	+201	-048	-131	-245	-245	-249	-290	-212	-089
Nov.	-100	-010	+048	+073	+100	+138	+131	+108	+031	+026	+111	+258	+330	+278	+174	+090	-031	-144	-247	-329	-347	-319	-254	-116
Dec.	-111	-064	-012	-002	+038	+038	+072	+059	+058	+090	+168	+216	+274	+246	+165	+168	+031	-009	-119	-330	-321	-233	-198	-216
Year	-146	-111	-082	-093	-088	-099	-123	-164	-195	-133	+045	+259	+419	+469	+411	+313	+182	+056	-045	-121	-172	-208	-197	-176
Winter	-132	-067	-018	-007	+016	+039	+044	+025	-015	-008	+082	+199	+297	+304	+238	+175	+084	-009	-087	-191	-260	-274	-247	-188
Equinox	-164	-112	-101	-105	-098	-078	-100	-158	-217	-154	+061	+317	+495	+545	+452	+324	+151	+023	-109	-152	-185	-246	-209	-183
Summer	-143	-156	-128	-168	-183	-258	-313	-359	-352	-238	-009	+263	+467	+559	+542	+439	+312	+154	+060	-022	-071	-104	-137	-158

INCLINATION (Unit 0'.01)

Jan.	-011	000	-012	-025	-043	-067	-082	-080	-066	-023	+020	+045	+021	+022	+019	+021	+028	+057	+045	+055	+044	+018	+016	+008
Feb.	-001	-013	-016	-027	-040	-059	-063	-071	-042	-008	+032	+058	+023	+019	+023	+019	+023	+025	+028	+029	+023	+015	+011	+015
March	-045	-039	-029	-050	-060	-065	-069	-051	-011	+039	+083	+084	+063	+044	+029	+045	+051	+030	+001	+002	+008	000	-016	-041
April	-071	-039	-047	-054	-053	-038	-022	+005	+048	+103	+128	+115	+085	+054	+045	+022	+003	-009	-023	-035	-042	-043	-051	-075
May	-087	-081	-069	-047	-032	-004	+037	+089	+118	+134	+109	+095	+096	+074	+066	+030	+007	-044	-073	-070	-078	-079	-093	-092
June	-088	-065	-030	-035	-028	-016	+012	+068	+117	+133	+130	+105	+111	+078	+025	-001	-012	-061	-067	-079	-072	-075	-086	-063
July	-069	-068	-054	-054	-045	-024	+010	+048	+080	+124	+137	+113	+077	+064	+042	+013	+006	-025	-065	-052	-058	-065	-070	-069
Aug.	-081	-096	-088	-077	-049	-055	-008	+047	+092	+151	+164	+128	+097	+086	+065	+063	+033	-011	-037	-057	-089	-093	-086	-108
Sept.	-089	-095	-083	-069	-066	-068	-003	+010	+070	+136	+185	+181	+104	+067	+075	+058	+029	+026	-018	-052	-054	-125	-112	-106
Oct.	-094	-090	-073	-083	-061	-075	-038	-003	+044	+094	+116	+096	+089	+085	+093	+086	+079	+051	+021	-020	-079	-081	-076	-078
Nov.	-059	-034	-046	-059	-079	-096	-079	-056	+008	+040	+074	+069	+075	+079	+081	+082	+060	+034	+032	+011	-002	-005	-047	-072
Dec.	-022	-017	-023	-035	-047	-076	-097	-086	-062	-009	+008	+003	+019	+048	+061	+068	+080	+065	+067	+043	+037	+016	-015	-031
Year	-060	-053	-048	-051	-050	-054	-034	-007	+033	+076	+099	+091	+072	+060	+052	+042	+032	+012	-007	-019	-030	-043	-052	-059
Winter	-023	-016	-024	-037	-052	-075	-080	-073	-041	000	+034	+044	+035	+042	+046	+048	+048	+045	+043	+035	+026	+011	-009	-020
Equinox	-075	-066	-058	-064	-060	-062	-033	-010	+038	+093	+128	+119	+085	+063	+061	+053	+041	+025	-005	-026	-042	-062	-064	-075
Summer	-081	-078	-060	-053	-039	-025	+013	+063	+102	+136	+135	+110	+095	+076	+050	+026	+009	-035	-061	-065	-074	-078	-084	-083

HORIZONTAL INTENSITY (Unit 0.1Y)

Jan.	+ 08	- 14	+ 05	+ 23	+ 58	+ 89	+ 112	+ 108	+ 83	+ 13	- 52	- 90	- 56	- 37	- 16	- 10	- 22	- 53	- 35	- 50	- 37	- 07	- 16	- 09
Feb.	00	+ 10	+ 11	+ 26	+ 49	+ 75	+ 85	+ 98	+ 51	- 04	- 73	- 110	- 58	- 42	- 32	- 13	- 16	- 12	- 15	- 13	- 07	- 01	- 02	- 16
March	+ 57	+ 41	+ 28	+ 60	+ 77	+ 84	+ 100	+ 76	+ 06	- 82	- 163	- 174	- 141	- 87	- 44	- 38	- 36	+ 01	+ 41	- 35	+ 26	+ 27	+ 33	+ 63
April	+ 96	+ 43	+ 45	+ 57	+ 58	+ 43	+ 29	- 07	- 77	- 172	- 233	- 234	- 183	- 114	- 61	- 02	+ 43	+ 70	+ 88	+ 100	+ 101	+ 94	+ 96	+ 116
May	+118	+106	+ 75	+ 48	+ 31	- 02	- 58	-143	-192	-235	-222	-212	-196	-131	- 84	- 11	+ 43	+ 128	+ 176	+ 162	+ 164	+ 146	+ 153	+ 133
June	+120	+ 77	+ 27	+ 47	+ 39	+ 22	- 17	- 108	-191	-232	-244	-215	-211	-139	- 32	+ 23	+ 58	+ 144	+ 157	+ 166	+ 145	+ 135	+ 137	+ 94
July	+ 96	+ 85	+ 55	+ 61	+ 52	+ 27	- 27	- 88	-140	-217	-244	-221	-158	-127	- 59	+ 09	+ 40	+ 100	+ 163	+ 131	+ 129	+ 119	+ 115	+ 104
Aug.	+ 71	+ 95	+ 73	+ 59	+ 25	+ 42	- 20	- 95	-161	-257	-286	-234	-169	-117	- 51	- 08	+ 47	+ 115	+ 142	+ 157	+ 174	+ 153	+ 121	+ 133
Sept.	+100	+ 97	+ 7																					

MAGNETIC OBSERVATIONS, ABINGER 1943.

D 29

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

"All" Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1943	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	+ 22	- 08	+ 04	+ 24	+ 58	+ 85	+109	+107	+ 88	+ 18	- 54	-102	- 82	- 68	- 41	- 29	- 37	- 53	- 32	- 42	- 16	+ 24	+ 13	+ 10
Feb.	+ 16	+ 22	+ 22	+ 34	+ 55	+ 79	+ 88	+102	+ 58	+ 05	- 74	-125	- 87	- 76	- 65	- 36	- 32	- 22	- 19	- 10	+ 09	+ 20	+ 21	+ 06
March	+ 70	+ 53	+ 38	+ 67	+ 86	+ 93	+110	+ 93	+ 31	- 60	-161	-197	-186	-140	- 95	- 77	- 58	- 07	+ 41	+ 41	+ 51	+ 59	+ 59	+ 80
April	+119	+ 61	+ 55	+ 76	+ 76	+ 58	+ 49	+ 19	- 41	-146	-231	-261	-231	-173	-112	- 38	+ 21	+ 59	+ 84	+103	+107	+105	+108	+130
May	+128	+118	+ 85	+ 64	+ 46	+ 23	- 24	-102	-153	-212	-224	-240	-182	-130	- 50	+ 14	+111	+169	+160	+168	+154	+167	+148	+148
June	+127	+ 91	+ 43	+ 64	+ 57	+ 51	+ 22	- 66	-148	-201	-233	-233	-248	-185	- 83	- 22	+ 25	+124	+144	+157	+138	+134	+141	+102
July	+110	+ 97	+ 67	+ 77	+ 74	+ 55	+ 03	- 52	-103	-186	-232	-232	-193	-179	-113	- 39	+ 04	+ 76	+147	+126	+134	+124	+123	+116
Aug.	+ 89	+111	+ 81	+ 71	+ 38	+ 57	- 01	- 69	-134	-237	-288	-262	-220	-175	-105	- 44	+ 22	+109	+145	+172	+188	+173	+139	+152
Sept.	+111	+102	+ 79	+ 57	+ 65	+ 73	- 04	- 07	- 99	-205	-303	-321	-213	-140	-120	- 56	+ 03	+ 30	+117	+149	+130	+223	+172	+162
Oct.	+115	+ 89	+ 67	+ 86	+ 61	+ 80	+ 39	+ 02	- 65	-153	-215	-206	-187	-151	-118	- 85	- 47	+ 02	+ 49	+ 96	+162	+152	+122	+104
Nov.	+ 66	+ 24	+ 35	+ 52	+ 82	+100	+ 80	+ 56	- 32	- 78	-137	-147	-122	- 95	- 80	- 38	+ 10	+ 18	+ 48	+ 57	+ 49	+ 90	+ 98	+ 98
Dec.	+ 18	+ 06	+ 13	+ 30	+ 50	+ 89	+118	+103	+ 64	- 11	- 39	- 35	- 59	- 83	- 84	- 90	- 91	- 61	- 53	+ 04	+ 04	+ 16	+ 41	+ 50
Year	+ 83	+ 64	+ 49	+ 59	+ 62	+ 70	+ 49	+ 16	- 45	-122	-183	-196	-174	-140	- 97	- 54	- 18	+ 32	+ 68	+ 84	+ 94	+103	+100	+ 97
Winter	+ 31	+ 11	+ 19	+ 35	+ 61	+ 88	+ 99	+ 92	+ 45	- 17	- 76	-101	- 94	- 87	- 71	- 59	- 50	- 32	- 22	00	+ 14	+ 27	+ 41	+ 41
Equinox	+104	+ 76	+ 60	+ 72	+ 72	+ 76	+ 49	+ 27	- 44	-141	-228	-246	-204	-151	-111	- 64	- 20	+ 21	+ 73	+ 97	+113	+135	+115	+119
Summer	+114	+104	+ 69	+ 69	+ 54	+ 47	00	- 72	-135	-209	-244	-242	-225	-180	-108	- 39	+ 16	+105	+151	+154	+157	+146	+143	+130

WEST COMPONENT (Unit 0.1γ)

Jan.	- 75	- 36	+ 04	- 01	+ 07	+ 32	+ 29	+ 14	- 19	- 25	+ 07	+ 61	+136	+168	+140	+104	+ 83	- 05	- 19	- 50	-118	-175	-163	-105
Feb.	- 91	- 67	- 58	- 43	- 28	- 13	- 09	- 13	- 36	- 52	- 03	+ 74	+153	+186	+178	+127	+ 89	+ 55	+ 21	- 16	- 88	-116	-125	-123
March	- 68	- 64	- 50	- 32	- 43	- 44	- 46	- 86	-138	-127	- 24	+110	+234	+284	+278	+214	+121	+ 42	+ 04	+ 31	-135	-174	-140	- 89
April	-117	- 96	- 51	- 99	- 93	- 81	-111	-146	-204	-157	- 33	+127	+251	+315	+276	+201	+128	+ 69	+ 30	- 10	- 22	- 51	- 60	- 68
May	- 42	- 56	- 49	- 86	- 81	-137	-196	-240	-233	-151	- 08	+136	+228	+268	+249	+217	+162	+105	+ 55	+ 28	- 10	- 30	- 66	- 70
June	- 29	- 71	- 83	- 91	- 95	-161	-215	-242	-257	-195	- 81	+ 78	+184	+244	+277	+252	+190	+125	+ 89	+ 62	+ 50	+ 15	+ 09	- 33
July	- 68	- 61	- 61	- 83	-118	-155	-167	-206	-218	-191	- 90	+ 52	+181	+274	+293	+266	+202	+141	+101	+ 39	- 19	- 15	- 34	- 59
Aug.	- 92	- 79	- 38	- 60	- 68	- 80	-109	-151	-162	-136	- 16	+136	+270	+311	+295	+200	+142	+ 43	- 05	- 67	- 64	- 94	- 88	- 91
Sept.	- 50	- 20	- 35	- 38	- 30	- 29	- 55	- 89	-120	-101	- 13	+120	+227	+271	+233	+155	+103	+ 25	- 94	-104	- 61	- 87	- 81	-127
Oct.	- 52	- 12	- 42	- 10	+ 02	+ 38	+ 28	- 06	- 45	- 54	+ 40	+162	+227	+218	+125	+ 95	- 35	- 72	-126	-117	-108	-132	- 95	- 30
Nov.	- 43	- 01	+ 33	+ 49	+ 70	+ 94	+ 86	+ 69	+ 11	+ 00	+ 36	+116	+155	+131	+ 78	+ 35	- 24	- 77	-132	-172	-180	-166	-123	- 46
Dec.	- 57	- 34	- 04	+ 04	+ 30	+ 37	+ 61	+ 51	+ 43	+ 47	+ 85	+112	+140	+120	+ 76	+ 01	- 16	- 75	-180	-175	-125	-101	-110	
Year	- 65	- 50	- 36	- 41	- 37	- 42	- 59	- 87	-115	- 95	- 08	+107	+199	+233	+208	+162	+ 97	+ 36	- 13	- 52	- 78	- 96	- 90	- 79
Winter	- 67	- 35	- 06	+ 02	+ 20	+ 38	+ 42	+ 30	- 00	- 08	+ 31	+ 91	+146	+151	+118	+ 86	+ 37	- 11	- 51	-105	-140	-146	-128	- 96
Equinox	- 72	- 48	- 45	- 45	- 41	- 29	- 46	- 82	-127	-110	- 08	+130	+235	+272	+228	+166	+ 79	+ 16	- 47	- 66	- 82	-111	- 94	- 79
Summer	- 58	- 67	- 58	- 80	- 91	-133	-172	-210	-218	-168	- 49	+101	+216	+274	+279	+234	+174	+104	+ 60	+ 16	- 11	- 31	- 49	- 63

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	- 22	- 31	- 31	- 35	- 15	- 24	- 24	- 33	- 49	- 53	- 57	- 58	- 09	+ 27	+ 48	+ 46	+ 73	+ 71	+ 72	+ 65	+ 45	+ 19	+ 06	
Feb.	- 02	- 20	- 30	- 34	- 23	- 32	- 22	- 18	- 28	- 38	- 58	- 57	- 55	- 30	+ 04	+ 34	+ 43	+ 60	+ 63	+ 69	+ 64	+ 50	+ 35	+ 13
March	- 23	- 37	- 35	- 29	- 28	- 08	+ 01	- 23	- 55	- 95	-114	-109	- 52	- 03	+ 67	+ 95	+108	+ 99	+ 89	+ 87	+ 64	+ 21	+ 03	
April	- 21	- 34	- 59	- 57	- 48	- 32	- 08	00	- 13	- 45	-101	-144	-131	- 78	+ 13	+ 74	+112	+124	+109	+ 89	+ 69	+ 48	+ 10	
May	- 28	- 36	- 65	- 52	- 38	- 18	- 08	- 24	- 37	- 82	-138	-167	-124	- 48	+ 30	+ 78	+123	+145	+156	+136	+110	+ 67	+ 34	- 06
June	- 23	- 44	- 42	- 12	- 07	- 02	- 16	- 16	- 42	- 79	-116	-139	-108	- 55	+ 12	+ 47	+ 95	+125	+134	+113	+ 90	+ 56	+ 22	00
July	- 15	- 37	- 58	- 46	- 36	- 22	- 27	- 37	- 50	- 77	- 92	-126	- 99	- 74	+ 06	+ 65	+115	+145	+154	+124	+102	+ 51	+ 23	+ 02
Aug.	-115	-111	-136	-129	-111	- 92	- 73	- 58	- 57	- 75	- 96	- 99	- 58	+ 23	+108	+200	+224	+229	+203	+168	+ 98	+ 34	- 16	- 63
Sept.	- 76	-103	-120	-123	- 90	- 78	- 43	- 17	- 33	- 43	- 62	- 64	- 34	+ 22	+ 81	+138	+149	+170						

MAGNETIC OBSERVATIONS, ABINGER 1943.

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, 1943	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	-081	-047	-017	-035	-039	-001	-023	-049	-113	-121	-011	+095	+175	+223	+191	+149	+107	+051	+029	-007	-057	-157	-151	-119
Feb.	-097	-119	-093	-091	-097	-051	-057	-111	-159	-159	-049	+161	+315	+369	+327	+217	+141	+095	+015	-043	-111	-163	-123	-111
March	-108	-054	-034	-050	-056	-048	-118	-242	-344	-332	-140	+158	+378	+472	+412	+314	+178	+098	+048	+022	-030	-086	-200	-238
April	-077	-073	-067	-099	-103	-135	-237	-377	-449	-383	-169	+113	+383	+521	+451	+311	+211	+123	+075	+067	+079	+029	-053	-131
May	-135	-107	-089	-093	-199	-339	-421	-455	-423	-223	+113	+401	+583	+517	+403	+289	+159	+047	+005	-001	+005	+001	-013	-031
June	-044	-086	-084	-176	-260	-408	-498	-514	-488	-344	-090	+202	+416	+512	+512	+406	+268	+154	+090	+100	+108	+118	+078	+030
July	-069	-103	-097	-197	-223	-317	-387	-417	-415	-281	+189	+379	+489	+491	+383	+239	+155	+095	+069	+067	+055	+021	-045	
Aug.	-057	-171	-171	-199	-203	-283	-285	-263	-265	-147	+021	+255	+439	+447	+419	+289	+151	+069	+065	+065	+033	-003	-071	-131
Sept.	-103	-085	-133	-171	-171	-153	-207	-283	-317	-227	-019	+217	+421	+479	+455	+327	+201	+227	+143	+089	+007	-087	-305	-305
Oct.	-076	-084	-096	-066	-068	-050	-102	-204	-302	-252	-014	+282	+406	+376	+278	+160	+112	+048	+022	-002	-030	-102	-142	-084
Nov.	-026	-020	-024	-033	-038	-022	-056	-102	-140	-088	+042	+212	+310	+268	+176	+090	+096	+084	-016	-106	-158	-180	-154	-124
Dec	-126	-042	+004	-004	-006	-002	+034	-024	-026	+026	+058	+116	+160	+122	+070	+074	+080	+072	+014	-094	-126	-132	-136	-118
Year	-083	-083	-075	-101	-122	-151	-196	-253	-287	-211	-028	+200	+364	+400	+349	+251	+162	+102	+049	+013	-018	-059	-104	-117
Winter	-083	-057	-033	-040	-045	-019	-026	-072	-110	-086	+010	+146	+240	+246	+191	+133	+106	+076	+011	-063	-113	-158	-141	-118
Equinox	-091	-074	-083	-097	-100	-097	-166	-277	-353	-299	-086	+193	+397	+462	+399	+278	+176	+124	+072	+044	+007	-062	-175	-190
Summer	-076	-117	-110	-166	-221	-337	-398	-412	-398	-249	-010	+262	+454	+491	+456	+342	+204	+106	+064	+058	+053	+043	+004	-044

INCLINATION (Unit 0.'01)

Jan.	+054	+032	+032	+024	+018	-004	-021	-041	-045	-035	-001	+014	-004	-005	-010	-004	-005	-023	-019	-010	+004	+017	+020	+011
Feb.	+003	+016	+002	-017	-027	-040	-063	-074	-032	+029	+051	+049	+030	+037	+036	+025	+016	+015	+016	+009	-011	-027	-024	-015
March	-005	-014	-027	-023	-024	-038	-051	-038	-006	+045	+084	+088	+080	+051	+040	+022	+006	-006	-023	-035	-037	-024	-022	-045
April	+001	+008	+004	-001	-013	-024	-031	-013	+034	+086	+129	+117	+079	+024	-001	-028	-030	-033	-045	-062	-063	-059	-044	-039
May	-047	-037	-022	-013	-006	+006	+042	+089	+126	+123	+088	+047	+034	+032	+010	-011	-018	-039	-068	-075	-065	-062	-058	-070
June	-042	-026	-018	-016	-026	-011	+015	+058	+102	+133	+120	+108	+089	+041	-009	-040	-036	-044	-061	-067	-065	-072	-070	-060
July	-024	-010	+002	-006	+005	-009	+019	+040	+075	+097	+093	+062	+056	+058	+049	+014	-003	-049	-070	-082	-078	-080	-081	-073
Aug.	-024	+003	+012	+032	-002	-007	+018	+055	+093	+112	+091	+047	+007	+011	-013	-005	000	-020	-062	-063	-080	-079	-056	-078
Sept.	-002	+003	-005	+006	+003	+008	+015	+027	+055	+096	+101	+077	+032	+015	+010	+014	-002	-037	-046	-053	-104	-086	-059	-070
Oct.	-001	+008	+001	-001	-015	-020	-025	-004	+041	+078	+062	+002	-019	-026	-002	+018	+013	+011	+014	-010	-025	-031	-041	-030
Nov.	+011	+010	+013	+002	-009	-032	-041	-032	-008	+023	+050	+042	+015	-002	-012	-002	+010	+002	-010	-005	-003	-007	-011	
Dec.	+044	+038	+027	+003	-013	-024	-047	-055	-052	-022	-006	-019	-019	-007	-005	+014	+010	+014	+012	+019	+020	+028	+027	+011
Year	-003	+003	+002	-001	-009	-016	-014	+001	+032	+064	+072	+053	+032	+019	+008	+001	-004	-017	-029	-037	-042	-040	-035	-039
Winter	+028	+024	+019	+003	-008	-025	-043	-051	-034	-001	+024	+022	+006	+003	+008	+005	+004	+003	+002	+002	+004	+004	-001	
Equinox	-002	+001	-007	-005	-012	-019	-023	-007	+031	+076	+094	+071	+043	+016	+012	+007	-003	-016	-025	-040	-057	-050	-042	-046
Summer	-034	-018	-007	-001	-007	-005	+024	+061	+099	+116	+098	+066	+047	+036	+009	-011	-014	-038	-065	-072	-072	-073	-066	-070

HORIZONTAL INTENSITY (Unit 0.1Y)

Jan.	-82	-52	-50	-40	-20	+08	+34	+62	+64	+34	-18	-42	-16	-02	+20	+16	+16	+48	+40	+26	+08	-14	-22	-18
Feb.	-08	-28	-06	+20	+36	+56	+94	+110	+46	-50	-96	-100	-76	-72	-52	-26	-10	-04	-04	+08	+34	+52	+44	+26
March	+14	+28	+46	+38	+46	+66	+92	+80	+16	-86	-174	-196	-182	-114	-76	-22	+10	+36	+56	+76	+78	+54	+48	+74
April	+10	+02	+08	+20	+34	+54	+76	+44	-38	-140	-234	-244	-192	-88	-12	+44	+60	+66	+84	+108	+108	+98	+76	+66
May	+78	+64	+44	+38	+30	+22	-34	-118	-188	-218	-200	-162	-130	-92	-22	+28	+54	+94	+136	+138	+120	+106	+100	+108
June	+73	+45	+31	+45	+57	+39	-05	-81	-157	-223	-223	-229	-183	-85	+15	+73	+77	+91	+111	+115	+107	+111	+105	+91
July	+44	+16	-02	+14	00	+26	-10	-44	-114	-164	-168	-136	-124	-120	-84	-16	+26	+90	+126	+140	+132	+124	+126	+114
Aug.	+22	-14	-28	-58	+02	+12	-20	-70	-126	-170	-168	-114	-48	-42	+08	+12	+20	+58	+118	+118	+138	+136	+98	+124
Sept.	00	-02	+12	+02	+10	00	-04	-26	-86	-164	-190	-168	-106	-58	-30	-14	+24	+82	+94	+110	+178	+146	+92	+102
Oct.	+05	-07	+03	+09	+35	+39	+49	+19	-57	-135														

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

International Quiet Days

NORTH COMPONENT (Unit 0.1Y)

Month and Season, 1943	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	- 73	- 47	- 48	- 36	- 16	+ 08	+ 35	+ 66	+ 74	+ 45	- 17	- 50	- 33	- 23	+ 01	+ 01	+ 05	+ 42	+ 37	+ 26	+ 13	+ 01	- 07	- 06
Feb.	+ 01	- 16	+ 03	+ 28	+ 45	+ 60	+ 98	+ 119	+ 61	- 34	- 90	- 114	- 105	- 106	- 83	- 46	- 23	- 13	- 05	+ 12	+ 44	+ 67	+ 55	+ 36
March	+ 24	+ 33	+ 49	+ 42	+ 51	+ 70	+ 102	+ 102	+ 49	- 53	- 158	- 208	- 215	- 158	- 114	- 52	- 07	+ 26	+ 51	+ 73	+ 80	+ 61	+ 66	+ 96
April	+ 17	+ 09	+ 14	+ 29	+ 43	+ 66	+ 98	+ 80	+ 06	- 101	- 214	- 251	- 226	- 137	- 55	+ 13	+ 39	+ 53	+ 76	+ 100	+ 99	+ 94	+ 80	+ 78
May	+ 90	+ 73	+ 52	+ 46	+ 49	+ 54	+ 07	- 72	- 144	- 193	- 208	- 198	- 184	- 140	- 60	- 00	+ 38	+ 88	+ 133	+ 136	+ 118	+ 104	+ 100	+ 109
June	+ 76	+ 53	+ 39	+ 61	+ 81	+ 78	+ 43	- 30	- 108	- 186	- 211	- 245	- 220	- 133	- 34	+ 33	+ 50	+ 75	+ 101	+ 104	+ 95	+ 98	+ 96	+ 87
July	+ 50	+ 26	+ 07	+ 33	+ 21	+ 56	+ 27	- 03	- 72	- 134	- 157	- 152	- 158	- 165	- 130	- 53	+ 03	+ 74	+ 115	+ 131	+ 124	+ 117	+ 122	+ 117
Aug.	+ 27	+ 03	- 11	- 38	+ 22	+ 39	+ 08	- 44	- 99	- 153	- 167	- 137	- 89	- 84	- 32	- 16	+ 05	+ 51	+ 110	+ 110	+ 133	+ 134	+ 103	+ 135
Sept.	+ 10	+ 06	+ 25	+ 18	+ 26	+ 15	+ 16	+ 02	- 54	- 140	- 185	- 186	- 145	- 103	- 73	- 45	+ 04	+ 59	+ 79	+ 100	+ 175	+ 152	+ 120	+ 130
Oct.	+ 12	+ 01	+ 12	+ 15	+ 41	+ 43	+ 58	+ 39	- 27	- 108	- 133	- 83	- 60	- 25	- 33	- 28	- 14	+ 01	+ 01	+ 37	+ 57	+ 70	+ 78	+ 55
Nov.	- 14	- 11	- 13	+ 04	+ 24	+ 50	+ 67	+ 56	+ 14	- 46	- 109	- 114	- 74	- 27	+ 08	+ 06	+ 08	- 07	+ 16	+ 37	+ 32	+ 30	+ 30	+ 29
Dec.	- 56	- 50	- 39	- 07	+ 21	+ 29	+ 61	+ 76	+ 65	+ 20	- 05	+ 08	+ 05	+ 01	+ 02	- 20	- 17	- 18	- 08	- 08	- 07	- 18	- 27	- 07
Year	+ 14	+ 07	+ 08	+ 16	+ 34	+ 47	+ 52	+ 33	- 20	- 90	- 138	- 144	- 125	- 92	- 50	- 17	+ 08	+ 36	+ 59	+ 72	+ 80	+ 76	+ 68	+ 72
Winter	- 36	- 31	- 24	- 03	+ 19	+ 37	+ 65	+ 79	+ 54	- 04	- 55	- 68	- 52	- 39	- 18	- 15	- 07	+ 01	+ 10	+ 17	+ 21	+ 20	+ 13	+ 13
Equinox	+ 16	+ 12	+ 25	+ 26	+ 40	+ 49	+ 69	+ 56	- 07	- 101	- 173	- 182	- 162	- 106	- 69	- 28	+ 06	+ 35	+ 52	+ 78	+ 103	+ 94	+ 86	+ 90
Summer	+ 61	+ 39	+ 22	+ 26	+ 43	+ 57	+ 21	- 37	- 106	- 167	- 186	- 183	- 163	- 131	- 64	- 09	+ 24	+ 72	+ 115	+ 120	+ 118	+ 113	+ 105	+ 112

WEST COMPONENT (Unit 0.1Y)

Jan.	- 58	- 34	- 18	- 26	- 24	+ 01	- 06	- 15	- 49	- 58	- 09	+ 43	+ 90	+ 118	+ 105	+ 82	+ 60	+ 36	+ 23	+ 01	- 29	- 86	- 84	- 66	
Feb.	- 53	- 68	- 51	- 45	- 45	- 17	- 14	- 40	- 76	- 93	- 43	+ 68	+ 154	+ 183	+ 165	+ 111	+ 73	+ 50	+ 07	- 22	- 53	- 77	- 58	- 54	
March	- 55	- 24	- 10	- 20	- 22	- 14	- 46	- 114	- 180	- 192	- 105	+ 49	+ 169	+ 231	+ 206	+ 163	+ 96	+ 59	+ 35	+ 25	- 02	- 36	- 98	- 113	
April	- 39	- 38	- 34	- 49	- 49	- 62	- 113	- 193	- 245	- 228	- 181	+ 17	+ 170	+ 261	+ 238	+ 173	+ 123	+ 77	+ 55	+ 55	+ 61	+ 33	- 15	- 58	
May	- 58	- 46	- 40	- 43	- 101	- 176	- 230	- 263	- 288	- 258	- 157	+ 25	+ 184	+ 287	+ 259	+ 210	+ 159	+ 94	+ 42	+ 27	+ 24	+ 24	+ 19	+ 11	+ 03
June	- 11	- 38	- 39	- 86	- 128	- 210	- 266	- 288	- 287	- 222	- 87	+ 67	+ 189	+ 257	+ 275	+ 229	+ 156	+ 98	+ 67	+ 74	+ 76	+ 82	+ 60	+ 32	
July	- 29	- 52	- 52	- 102	- 119	- 164	- 208	- 229	- 241	- 178	- 74	+ 76	+ 180	+ 239	+ 246	+ 201	+ 132	+ 98	+ 73	+ 62	+ 59	+ 51	+ 34	- 04	
Aug.	- 26	- 93	- 96	- 116	- 108	- 148	- 155	- 152	- 163	- 108	- 19	+ 115	+ 225	+ 230	+ 224	+ 156	+ 84	+ 47	+ 55	+ 55	+ 42	+ 23	- 20	- 48	
Sept.	- 56	- 46	- 69	- 91	- 89	- 81	- 111	- 155	- 184	- 150	- 44	+ 86	+ 205	+ 244	+ 237	+ 171	+ 111	+ 135	+ 93	+ 67	+ 35	- 20	- 146	- 144	
Oct.	- 41	- 47	- 52	- 35	- 31	- 21	- 47	- 106	- 172	- 159	- 33	+ 139	+ 211	+ 201	+ 146	+ 82	+ 58	+ 25	+ 11	+ 04	- 07	- 45	- 65	- 37	
Nov.	- 17	- 13	- 16	- 16	- 17	- 03	- 19	- 46	- 74	- 57	+ 03	+ 96	+ 157	+ 142	+ 98	+ 51	+ 45	+ 45	- 06	- 52	- 81	- 93	- 79	- 63	
Dec.	- 79	- 32	- 05	- 03	+ 01	+ 04	+ 30	+ 01	- 03	+ 18	+ 31	+ 65	+ 89	+ 67	+ 39	+ 37	+ 41	+ 36	+ 06	- 53	- 70	- 76	- 80	- 66	
Year	- 44	- 44	- 40	- 53	- 61	- 74	- 99	- 133	- 161	- 132	- 41	+ 84	+ 178	+ 203	+ 182	+ 135	+ 90	+ 62	+ 37	+ 20	+ 05	- 19	- 45	- 52	
Winter	- 52	- 37	- 23	- 23	- 21	- 04	- 02	- 25	- 51	- 48	- 05	+ 68	+ 123	+ 128	+ 102	+ 70	+ 57	+ 42	+ 08	- 32	- 58	- 83	- 75	- 62	
Equinox	- 48	- 39	- 41	- 49	- 48	- 45	- 79	- 142	- 195	- 182	- 78	+ 73	+ 189	+ 234	+ 207	+ 147	+ 97	+ 74	+ 49	+ 38	+ 22	- 17	- 81	- 88	
Summer	- 31	- 57	- 57	- 87	- 114	- 175	- 215	- 233	- 237	- 166	- 39	+ 111	+ 220	+ 246	+ 239	+ 186	+ 117	+ 71	+ 56	+ 54	+ 50	+ 44	+ 21	- 04	

VERTICAL COMPONENT (Unit 0.1Y)

Jan.	- 02	- 06	- 08	- 10	+ 18	+ 02	+ 06	+ 02	- 08	- 40	- 44	- 48	- 52	- 22	+ 12	+ 24	+ 22	+ 30	+ 26	+ 24	+ 30	+ 26	+ 16	- 02
Feb.	- 07	- 11	- 07	- 13	- 09	- 07	+ 01	+ 01	- 05	- 17	- 47	- 61	- 73	- 37	+ 05	+ 29	+ 31	+ 43	+ 45	+ 47	+ 41	+ 27	+ 21	+ 07
March	+ 15	+ 19	+ 13	+ 09	+ 23	+ 21	+ 37	+ 55	+ 19	- 45	- 113	- 151	- 147	- 89	- 37	+ 23	+ 45	+ 61	+ 51	+ 57	+ 53	+ 41	+ 33	+ 17
April	+ 26	+ 30	+ 30	+ 42	+ 36	+ 42	+ 68	+ 58	+ 26	- 28	- 96	- 162	- 172	- 120	- 32	+ 08	+ 36	+ 38	+ 40	+ 38	+ 36	+ 24	+ 18	
May	+ 18	+ 22	+ 26	+ 44	+ 50	+ 72	+ 66	+ 36	- 04	- 84	- 162	- 214	- 184	- 104	- 16	+ 26	+ 62	+ 82	+ 82	+ 64	+ 54	+ 30	+ 10	
June	+ 23	+ 15	+ 11	+ 47	+ 43	+ 51	+ 43	+ 09	- 15	- 59	- 103	- 159	- 119	- 55	+ 05	+ 31	+ 57	+ 59	+ 49	+ 33	+ 23	+ 09	+ 03	+ 05
July	+ 18	+ 04	+ 02	+ 12	+ 16	+ 26	+ 42	+ 36	- 06	- 44	- 68	- 104	- 94	- 78	- 28	+ 12	+ 50	+ 42	+ 52	+ 40	+ 38	+ 12	+ 14	+ 14
Aug.	- 30	- 20	- 24	- 24	- 02	+ 02	+ 16	+ 28	+ 26	- 06														

MAGNETIC OBSERVATIONS, ABINGER 1943.

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, 1943	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	-307	-089	+121	+135	+111	+145	+099	+153	+111	+069	+101	+329	+527	+539	+411	+301	+417	-183	-341	-381	-623	-815	-539	-287
Feb.	-246	-138	-240	-228	-064	-096	-004	+036	+080	+034	+106	+232	+388	+450	+450	+324	+316	+234	-046	-030	-258	-390	-446	-462
March	-294	-306	-186	-096	-148	-136	-036	-200	-230	-148	-202	+406	+666	+818	+824	+638	+456	+196	-196	-142	-832	-602	-384	-268
April	-656	-394	-346	-578	-226	-002	+012	-026	-204	-076	+154	+504	+664	+642	+450	+304	+142	+068	-106	-258	-258	-252	-224	-224
May	-181	-353	-135	-229	-001	+083	-001	-309	-341	-141	+103	+297	+453	+537	+509	+397	+275	+149	-043	-167	-207	-129	-269	-299
June	-324	-318	-206	-210	-082	-090	-228	-250	-302	-182	-070	+180	+400	+548	+506	+526	+410	+086	+056	-078	-056	-006	-152	-150
July	-184	-204	-064	-130	-206	-190	-140	-202	-260	-282	-118	+124	+238	+462	+542	+500	+488	+358	+158	-032	-336	-132	-196	-184
Aug.	-206	-294	+160	-068	+138	-004	-112	-214	-232	+028	+336	+552	+752	+880	+694	+372	+172	-112	-186	-584	-524	-832	-490	-224
Sept.	-143	+079	+061	+229	+393	+281	+157	+009	-073	-101	+011	+261	+485	+499	+465	+195	+091	-269	-587	-435	-367	-539	-251	-451
Oct.	-290	-058	-332	-168	+140	+228	+362	+198	+268	+206	+304	+404	+590	+506	+074	+240	-344	-404	-426	-340	-400	-408	-452	+104
Nov.	-160	-126	+098	+238	+406	+436	+412	+424	+288	+296	+204	+338	+244	+312	-002	-132	-162	-354	-380	-694	-636	-604	-404	-038
Dec.	-282	-114	+046	000	+164	+146	+242	+250	+246	+290	+436	+390	+480	+404	+324	+158	-222	-544	-572	-620	-526	-302	-136	-266
Year	-273	-193	-085	-092	+052	+067	+064	-011	-054	-001	+147	+335	+491	+552	+453	+331	+183	-058	-208	-301	-419	-418	-331	-229
Winter	-249	-117	+006	+036	+154	+158	+187	+216	+181	+172	+212	+322	+410	+426	+296	+163	+087	-212	-335	-431	-511	-528	-382	-263
Equinox	-345	-170	-201	-153	+040	+093	+124	-005	-060	-030	+168	+394	+601	+622	+501	+381	+127	-084	-285	-256	-464	-452	-335	-210
Summer	-224	-292	-061	-159	-038	-050	-120	-244	-284	-144	+063	+288	+461	+607	+563	+449	+336	+120	-004	-215	-281	-275	-277	-214

INCLINATION (Unit 0'.01)

Jan.	-163	-067	-079	-124	-154	-181	-167	-173	-163	-107	+008	+118	+073	+074	+064	+070	+079	+287	+211	+205	+160	+045	+001	-019
Feb.	-041	-061	-103	-111	-136	-153	-106	-101	-048	-044	+046	+143	-013	-030	+016	+022	+044	+065	+124	+133	+079	+086	+080	+121
March	-105	-102	-068	-124	-136	-099	-078	-042	+015	+090	+169	+117	+050	+045	+052	+055	+058	-010	-035	+006	+066	+076	+034	-038
April	-151	-104	-181	-179	-176	-105	-063	+014	+093	+203	+219	+202	+181	+101	+060	+097	+064	+035	+009	-012	+001	-029	-080	-206
May	-171	-208	-155	-151	-079	-021	+070	+105	+157	+208	+194	+166	+137	+083	+104	+076	+025	-037	-098	-026	-031	-078	-159	-109
June	-105	-098	-060	-107	-089	-068	-034	+060	+115	+173	+155	+129	+160	+155	+084	+043	+016	-100	-067	-088	-068	-063	-072	-074
July	-107	-103	-128	-110	-069	+009	+056	+116	+123	+135	+173	+129	+127	+081	+080	-039	+027	-015	-147	-056	-051	-042	-088	-099
Aug.	-233	-267	-239	-261	-088	-195	-109	-065	+078	+234	+366	+315	+256	+190	+098	+211	+144	+012	+046	-017	-103	-150	-070	-148
Sept.	-187	-150	-205	-152	-214	-243	-076	-049	+096	+227	+269	+331	+258	+154	+209	+155	+121	+113	+022	-058	-026	-255	-187	-148
Oct.	-179	-249	-157	-124	-091	-149	-013	+106	+142	+200	+266	+181	+078	+200	+190	+167	+115	+034	-001	-004	-231	-198	-120	-161
Nov.	-139	-074	-107	-144	-196	-209	-123	-074	+072	+093	+128	+162	+236	+132	+164	+224	+099	+003	+057	-030	-025	-024	-027	-197
Dec.	-094	-091	-119	-093	-094	-137	-204	-140	-109	+005	+077	+057	+089	+191	+157	+172	+172	+194	+208	+045	+024	-058	-096	-149
Year	-140	-131	-133	-140	-127	-129	-071	-020	+048	+118	+173	+171	+136	+115	+107	+104	+080	+048	+027	+008	-017	-058	-065	-102
Winter	-109	-073	-102	-118	-145	-170	-150	-122	-062	-013	+065	+120	+096	+092	+100	+122	+099	+137	+150	+088	+060	+012	-011	-061
Equinox	-156	-151	-153	-145	-154	-149	-058	+007	+087	+180	+231	+208	+142	+125	+128	+119	+090	+043	-001	-017	-048	-102	-088	-138
Summer	-154	-169	-146	-157	-081	-069	-004	+054	+118	+188	+222	+185	+170	+127	+092	+073	+053	-035	-067	-047	-063	-083	-097	-108

HORIZONTAL INTENSITY (Unit 0.1Y)

Jan.	+212	+54	+74	+136	+192	+230	+210	+220	+200	+110	-54	-212	-142	-108	-62	-56	-70	-334	-208	-212	-164	-36	-02	+22
Feb.	+49	+73	+119	+129	+163	+181	+123	+127	+49	+39	-109	-237	-03	+27	-25	-15	-35	-53	-127	-125	-47	-77	-81	-157
March	+115	+87	+41	+143	+157	+113	+105	+59	-35	-153	-293	-215	-113	-79	-69	-31	-27	+83	+127	+55	-19	-59	-47	+59
April	+178	+86	+168	+160	+166	+66	+26	-64	-174	-330	-356	-330	-278	-136	-40	-58	+12	+68	+96	+118	+82	+102	+154	+294
May	+225	+249	+111	+93	+15	-61	-177	-211	-269	-343	-335	-283	-217	-99	-87	-17	+83	+183	+281	+153	+137	+177	+247	+137
June	+121	+109	+57	+133	+101	+65	+27	-117	-201	-303	-277	-247	-281	-251	-113	-29	+39	+243	+203	+223	+165	+123	+115	+105
July	+135	+117	+131	+117	+69	-37	-111	-209	-215	-241	-313	-255	-215	-133	-103	+105	+33	+113	+319	+171	+153	+93	+139	+135
Aug.	+221	+303	+221	+235	-15	+157	+63	+01	-191	-415	-603	-499	-347	-171	+35	-53	+49	+203	+91	+153	+201	+191	+49	+111
Sept.	+214	+142	+198	+102	+200	+250	+40	+32	-170	-350	-398	-482	-332	-150	-192	-68	-54	-36	+80	+150	+84	+374		

MAGNETIC OBSERVATIONS, ABINGER 1943.

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1Y)

Month and Season, 1943	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	+238	+ 62	+ 61	+121	+178	+212	+197	+202	+186	+102	- 63	-240	-190	-158	-101	- 84	-109	-311	-172	-172	-102	+ 43	+ 50	+ 49
Feb.	+ 72	+ 85	+140	+149	+167	+187	+121	+122	+ 41	+ 35	-118	-256	- 40	-17	- 68	- 46	- 65	- 75	-121	-120	- 21	- 38	- 37	-110
March	+141	+115	+ 58	+150	+169	+124	+107	+ 77	- 12	-136	-308	-251	-175	-156	-147	- 92	- 70	+ 63	+144	+ 68	+ 61	- 00	- 09	+ 84
April	+238	+122	+199	+213	+185	+ 65	+ 24	- 61	-152	-317	-365	-373	-337	-198	-101	-100	- 17	+ 53	+ 88	+126	+106	+125	+176	+311
May	+239	+279	+122	+114	+ 15	- 68	-174	-178	-232	-324	-340	-307	-257	-149	-135	- 55	+ 55	+166	+281	+167	+155	+187	+269	+164
June	+150	+138	+ 76	+151	+107	+ 73	+ 49	- 91	-169	-281	-266	-260	-315	-300	-160	- 79	- 01	+231	+194	+227	+168	+122	+128	+118
July	+151	+135	+135	+128	+ 88	- 18	- 96	-186	-187	-210	-297	-263	-234	-175	-153	+ 55	- 14	+ 77	+299	+171	+183	+104	+156	+151
Aug.	+237	+326	+202	+238	- 28	+155	+ 73	+ 22	-166	-411	-626	-544	-414	-253	- 32	- 88	+ 32	+211	+107	+207	+248	+268	+ 95	+131
Sept.	+224	+147	+189	+ 78	+159	+219	+ 24	+ 31	-160	-335	-393	-499	-373	-196	-234	- 86	- 62	- 10	+135	+189	+118	+420	+223	+197
Oct.	+202	+251	+153	+129	+ 51	+131	- 57	-195	-249	-340	-438	-304	-156	-282	-152	-144	- 01	+113	+129	+ 97	+392	+314	+188	+166
Nov.	+141	+ 61	+ 91	+121	+172	+188	+ 75	+ 20	-167	-184	-207	-255	-328	-164	-155	-204	- 36	+103	+ 17	+159	+128	+105	+ 78	+240
Dec.	+112	+ 86	+116	+ 89	+ 85	+145	+235	+141	+ 96	- 67	-182	-134	-180	-287	-202	-204	-158	-145	-156	+ 73	+ 60	+127	+135	+203
Year	+179	+151	+129	+140	+112	+118	+ 48	- 08	- 98	-206	-300	-307	-250	-195	-137	- 94	- 37	+ 40	+ 79	+ 99	+125	+148	+121	+142
Winter	+141	+ 74	+102	+120	+151	+183	+157	+121	+ 39	- 29	-143	-221	-185	-157	-132	-135	- 92	-107	-108	- 15	+ 16	+ 59	+ 57	+ 96
Equinox	+201	+159	+150	+143	+141	+135	+ 25	- 37	-143	-282	-376	-357	-260	-208	-159	-106	- 38	+ 55	+124	+120	+169	+215	+145	+189
Summer	+194	+220	+134	+156	+ 46	+ 36	- 37	-108	-189	-307	-382	-344	-305	-219	-120	- 42	+ 18	+171	+220	+193	+189	+170	+162	+141

WEST COMPONENT (Unit 0.1Y)

Jan.	-126	- 38	+ 77	+ 96	+ 93	+118	+ 90	+120	+ 94	+ 56	+ 44	+137	+255	+267	+207	+150	+209	-156	-218	-240	-360	-440	-287	-149
Feb.	-122	- 60	-107	- 98	- 05	- 19	+ 20	+ 42	+ 51	+ 25	+ 37	+ 81	+206	+244	+235	+170	+162	+115	- 47	- 38	-145	-221	-251	-273
March	-136	-147	- 91	- 26	- 51	- 52	- 01	- 96	-128	-106	+ 56	+178	+334	+421	+426	+334	+238	+119	- 82	- 66	-446	-330	-212	-132
April	-317	-194	-154	-279	- 91	+ 11	+ 11	- 25	-139	- 99	+ 19	+210	+304	+329	+334	+229	+164	+ 88	+ 53	- 35	-123	-119	-107	- 67
May	- 56	-144	- 52	-105	+ 02	+ 33	- 32	-202	-229	-136	- 05	+108	+202	+268	+255	+208	+161	+112	+ 27	- 62	- 86	- 37	- 99	-135
June	-151	-150	- 99	- 88	- 26	- 36	-116	-154	-196	-150	- 86	+ 52	+163	+247	+249	+275	+225	+ 89	+ 66	- 02	+ 19	- 60	- 61	
July	- 74	- 88	- 11	- 48	- 97	-108	- 94	-144	-176	-193	-118	+ 21	+ 88	+222	+270	+284	+265	+210	+141	+ 13	-152	- 54	- 80	- 74
Aug.	- 70	-103	+124	+ 06	+ 71	+ 26	- 48	-114	-157	- 59	+ 72	+205	+338	+437	+375	+188	+100	- 24	- 83	-283	-243	-408	-252	-100
Sept.	- 38	+ 67	+ 67	+140	+244	+194	+ 91	+ 11	- 69	-116	- 65	+ 53	+199	+239	+213	+ 92	+ 39	-149	-298	-205	-180	-220	- 98	-212
Oct.	-123	+ 13	-155	- 69	+ 86	+149	+188	+ 74	+102	+ 52	+ 88	+167	+296	+227	+ 13	+106	-189	-201	-211	-169	-149	-168	-214	+ 87
Nov.	- 62	- 58	+ 70	+152	+254	+273	+240	+236	+128	+129	+ 75	+140	+ 75	+142	- 29	-109	- 95	-176	-206	-352	-326	-313	-208	+ 22
Dec.	-135	- 47	+ 46	+ 16	+105	+175	+163	+152	+147	+207	+190	+231	+170	+141	+ 50	-150	-325	-342	-327	-278	-143	- 50	-110	
Year	-118	- 79	- 24	- 25	+ 49	+ 58	+ 44	- 07	- 47	- 38	+ 27	+129	+224	+268	+224	+165	+ 94	- 25	-100	-147	-207	-203	-160	-100
Winter	-111	- 51	+ 22	+ 42	+112	+120	+131	+140	+106	+ 89	+ 91	+137	+192	+206	+138	+ 65	+ 32	-136	-203	-239	-277	-279	-199	-128
Equinox	-154	- 65	- 83	- 59	+ 47	+ 76	+ 72	- 09	- 59	- 67	+ 25	+152	+283	+304	+247	+190	+ 63	- 36	-135	-119	-225	-209	-158	- 81
Summer	- 88	-121	- 10	- 59	- 13	- 21	- 73	-154	-190	-135	- 34	+ 97	+198	+294	+287	+239	+188	+ 97	+ 38	- 84	-121	-120	-123	- 93

VERTICAL COMPONENT (Unit 0.1Y)

Jan.	- 69	-107	- 99	-111	- 85	- 89	- 91	- 85	- 97	-115	- 97	- 85	- 81	+ 05	+ 75	+109	+111	+213	+247	+215	+173	+ 71	+ 01	- 13
Feb.	- 28	- 40	- 78	- 82	- 90	-106	- 78	- 56	- 54	- 62	- 92	- 60	- 52	- 42	- 04	+ 42	+ 68	+100	+136	+168	+164	+116	+ 86	+ 52
March	- 98	-148	-138	- 98	-104	- 78	- 24	- 08	- 32	- 46	- 98	- 96	- 90	- 28	+ 22	+116	+138	+158	+174	+150	+182	+126	+ 08	+ 08
April	-108	-160	-234	-246	-222	-210	-158	-102	- 82	- 66	- 74	- 70	- 20	+ 32	+114	+200	+248	+282	+256	+232	+194	+140	+ 84	- 28
May	- 70	-138	-276	-304	-238	-214	-170	-128	- 82	- 80	-106	- 84	- 30	+ 54	+154	+226	+280	+296	+314	+268	+210	+142	+ 24	- 60
June	- 84	- 88	- 76	- 60	- 74	- 84	- 56	- 66	- 68	-106	-108	-128	-100	- 48	+ 28	+ 80	+144	+220	+242	+214	+148	+ 68	+ 16	- 10
July	- 54	- 84	-140	-108	- 78	- 56	- 66	- 88	- 76	- 94	-130	-148	- 62	- 32	+ 38	+112	+170	+212	+236	+204	+180	+ 72	+ 20	- 26
Aug.	-291	-217	-311	-357	-339	-309	-233	-223	-175	-155	-139	- 73	+ 77	+261	+423	+605	+613	+515	+369	+297	+111	- 73	-127	-253
Sept.	-148	-188	-250	-286	-274	-260	-170	- 94	- 62	- 30	+ 02	+ 24	+120	+184	+2									

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																									
1943	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.	+ 2.7	+ 5.4	- 3.4	- 1.8	+ 2.7	- 2.2	- 0.8	+ 0.4	- 9.4	+ 0.5	- 0.7	+ 7.4	- 0.5	- 0.9	+ 1.0	+ 2.2	+ 1.6	- 5.1	- 2.8	- 0.4	+ 0.4	- 0.6	- 0.5	+ 0.0	+ 0.0
Feb.	+ 4.1	+ 4.4	- 4.0	- 1.4	+ 2.2	- 1.4	- 0.8	+ 0.8	- 10.1	- 3.8	- 0.6	+ 6.3	- 0.9	- 1.8	+ 1.1	+ 2.0	+ 2.4	- 4.6	- 2.3	- 1.0	+ 0.8	- 0.3	- 0.4	+ 0.0	+ 0.0
March	+ 10.4	+ 3.7	- 6.1	- 1.9	+ 2.5	- 1.7	- 0.1	+ 1.4	- 11.8	- 6.7	+ 2.5	+ 11.7	- 1.3	- 3.3	+ 2.2	+ 2.3	+ 3.2	- 6.2	- 5.5	- 0.9	+ 2.0	- 0.2	- 1.0	- 0.0	- 0.0
April	+ 15.1	- 1.6	- 7.1	- 0.3	+ 3.0	- 1.3	+ 0.0	+ 0.5	- 10.4	- 12.0	+ 4.1	+ 9.4	- 3.4	- 5.0	+ 1.5	+ 1.5	+ 3.6	- 7.4	- 6.3	- 1.7	+ 3.2	0.0	- 1.0	- 0.2	- 0.2
May	+ 18.7	- 6.5	- 5.6	- 0.0	+ 0.2	+ 0.3	+ 1.1	- 0.0	- 8.4	- 14.5	+ 5.3	+ 10.0	- 3.9	- 1.7	+ 1.3	+ 0.0	+ 4.0	- 8.8	- 7.4	- 0.6	+ 2.3	- 0.7	+ 0.7	+ 0.7	+ 0.7
June	+ 16.7	- 5.7	- 7.2	+ 0.6	+ 1.1	- 0.8	+ 1.2	- 0.0	- 5.6	- 18.0	+ 4.0	+ 9.6	- 2.7	- 3.3	+ 0.5	+ 0.0	+ 4.0	- 6.6	- 6.8	- 0.3	+ 1.2	- 0.5	- 0.3	+ 0.2	+ 0.2
July	+ 16.2	- 4.0	- 6.3	+ 0.4	+ 0.5	- 0.5	+ 0.9	+ 0.5	- 7.3	- 16.7	+ 2.7	+ 10.7	- 1.3	- 3.1	+ 0.4	+ 1.1	+ 3.6	- 8.3	- 6.3	- 0.8	+ 1.5	+ 0.6	- 0.1	- 0.2	- 0.2
Aug.	+ 18.5	- 6.4	- 7.0	+ 0.4	+ 0.3	- 1.6	+ 0.6	+ 1.2	- 11.6	- 9.6	+ 4.9	+ 11.0	- 2.8	- 4.2	+ 1.0	+ 1.1	- 2.8	- 15.0	- 7.7	+ 0.5	+ 2.4	+ 0.2	- 0.8	+ 0.0	+ 0.0
Sept.	+ 18.9	- 4.2	- 5.6	- 2.9	+ 1.7	- 3.5	- 0.4	+ 1.5	- 10.0	- 4.9	+ 4.4	+ 9.8	- 1.9	- 4.3	+ 0.5	+ 1.2	- 2.8	- 11.2	- 5.7	- 0.9	+ 1.9	- 0.1	- 0.3	+ 0.6	+ 0.6
Oct.	+ 15.5	- 0.6	- 4.7	- 1.4	+ 0.1	- 2.5	- 0.4	+ 1.3	- 9.5	+ 2.2	+ 5.3	+ 6.4	- 2.0	- 4.3	+ 2.5	+ 1.5	- 3.4	- 9.9	- 5.7	+ 0.3	+ 2.3	- 1.1	- 0.5	- 0.5	- 0.5
Nov.	+ 9.8	+ 2.3	- 4.6	- 1.4	+ 1.2	- 2.1	+ 1.3	- 0.1	- 8.0	+ 7.8	+ 2.4	+ 6.7	- 0.4	- 2.4	+ 2.1	+ 0.6	- 2.5	- 8.3	- 3.0	+ 0.9	+ 0.7	- 0.5	- 1.1	+ 0.1	+ 0.1
Dec.	+ 3.9	+ 6.1	- 2.0	- 3.2	+ 0.7	- 2.1	+ 0.9	+ 0.7	- 10.0	+ 5.1	+ 1.7	+ 4.7	+ 0.6	- 0.8	+ 1.1	- 0.5	- 1.2	- 6.6	- 2.5	- 0.2	- 0.8	- 0.4	- 0.7	+ 0.1	+ 0.1
Year	+ 12.6	- 0.6	- 5.3	- 0.9	+ 1.3	- 1.6	+ 0.3	+ 0.7	- 9.3	- 5.9	+ 3.0	+ 8.7	- 1.7	- 2.9	+ 1.3	+ 1.1	+ 0.8	- 8.2	- 5.2	- 0.4	+ 1.5	- 0.3	- 0.6	+ 0.2	+ 0.2
Winter	+ 5.1	+ 4.5	- 3.5	- 1.9	+ 1.7	- 2.0	+ 0.1	+ 0.5	- 9.4	+ 2.4	+ 0.7	+ 6.3	- 0.3	- 1.5	+ 1.3	+ 1.0	+ 0.1	- 6.2	- 2.7	- 0.2	+ 0.3	- 0.5	- 0.7	+ 0.1	+ 0.1
Equinox	+ 15.0	- 0.7	- 6.0	- 1.1	+ 1.8	- 2.3	- 0.2	+ 1.2	- 10.4	- 5.3	+ 4.0	+ 9.4	- 2.2	- 4.3	+ 1.7	+ 1.6	+ 0.2	- 8.7	- 5.8	- 0.8	+ 2.3	- 0.3	- 0.7	+ 0.2	+ 0.2
Summer	+ 17.5	- 5.7	- 6.5	+ 0.3	+ 0.5	- 0.7	+ 0.9	+ 0.4	- 8.2	- 14.7	+ 4.2	+ 10.3	- 2.7	- 3.1	+ 0.8	+ 0.6	+ 2.2	- 9.7	- 7.1	- 0.3	+ 1.8	- 0.1	- 0.4	+ 0.2	+ 0.2
INTERNATIONAL QUIET DAYS																									
Year	+ 7.6	- 0.2	- 5.1	- 0.6	+ 1.4	- 1.6	+ 0.1	+ 0.9	- 5.7	- 9.5	+ 3.0	+ 6.9	- 3.1	- 2.8	+ 1.3	+ 1.3	+ 3.9	- 1.7	- 4.5	- 0.0	+ 1.8	- 0.4	- 0.8	+ 0.2	+ 0.2
Winter	+ 1.3	+ 2.4	- 3.5	- 1.5	+ 1.4	- 1.4	- 0.4	+ 0.9	- 6.2	- 2.0	+ 0.5	+ 4.9	- 1.1	- 1.1	+ 1.7	+ 1.1	+ 1.8	- 2.2	- 2.1	+ 0.2	+ 0.5	- 0.5	- 0.5	+ 0.1	+ 0.1
Equinox	+ 9.5	+ 0.2	- 6.0	- 1.2	+ 2.1	- 2.2	- 0.6	+ 1.2	- 5.7	- 11.2	+ 1.7	+ 8.1	- 4.1	- 4.2	+ 1.7	+ 2.3	+ 5.3	- 1.1	- 5.7	- 0.5	+ 2.5	- 0.2	- 1.2	+ 0.3	+ 0.3
Summer	+ 12.2	- 3.2	- 5.7	+ 0.6	+ 0.7	- 1.5	+ 1.5	+ 0.4	- 5.2	- 15.4	+ 6.9	+ 7.5	- 3.9	- 3.1	+ 0.4	+ 0.5	+ 4.7	- 1.6	- 5.7	+ 0.1	+ 2.3	- 0.6	- 0.7	+ 0.2	+ 0.2
INTERNATIONAL DISTURBED DAYS																									
Year	+ 20.5	- 2.1	- 6.8	+ 0.4	+ 1.4	- 2.5	+ 0.3	+ 1.1	- 14.0	+ 1.2	+ 1.8	+ 10.7	- 0.5	- 4.4	+ 1.9	+ 0.3	- 4.6	- 18.9	- 6.2	- 0.5	+ 1.5	+ 0.0	- 0.8	+ 0.5	+ 0.5
Winter	+ 12.3	+ 9.1	- 4.4	- 1.6	+ 2.6	- 3.6	- 0.6	+ 0.4	- 15.2	+ 11.7	+ 1.5	+ 8.1	+ 1.1	- 2.9	+ 0.7	+ 0.4	- 2.1	- 14.3	- 4.0	- 1.6	- 0.4	0.0	- 0.8	+ 0.5	+ 0.5
Equinox	+ 24.6	- 3.8	- 7.6	+ 1.1	+ 0.5	- 3.7	+ 0.9	+ 1.4	- 15.5	+ 1.9	+ 2.6	+ 11.3	- 1.0	- 6.3	+ 3.2	+ 1.3	- 7.6	- 18.7	- 6.1	- 0.7	+ 2.6	- 0.2	- 1.0	+ 0.4	+ 0.4
Summer	+ 24.6	- 11.6	- 8.4	+ 1.8	+ 1.0	- 0.4	+ 0.6	+ 1.5	- 11.3	- 10.0	+ 1.4	+ 12.6	- 1.6	- 4.1	+ 1.9	- 0.8	- 4.1	- 23.6	- 8.4	- 0.1	+ 2.4	+ 0.3	- 0.4	+ 0.6	+ 0.6

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

Values of c_n , a_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	a_1	c_2	a_2	c_3	a_3	c_4	a_4	c_1	a_1	c_2	a_2	c_3	a_3	c_4	a_4	c_1	a_1	c_2	a_2	c_3	a_3	c_4	a_4	
"All" Days																									
1943	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.	6.0	27	3.9	244	3.5	130	0.9	296	9.4	273	7.4	356	1.1	209	2.4</td										

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TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1943

Month and Season	'All' Days			Quiet Days			Disturbed Days			'All' Days			Quiet Days			Disturbed Days		
	D	I	H	D	I	H	D	I	F	X	Y	Z	X	Y	Z	X	Y	Z
January	'	'	Y	'	'	Y	'	'	Y	Y	Y	Y	Y	Y	Y	Y	Y	
February	6.55	1.39	20.2	3.80	0.99	14.6	13.54	4.68	56.4	21.1	34.3	13.1	14.7	20.4	8.2	47.8	70.7	36.2
March	5.97	1.29	20.8	5.32	1.25	21.0	9.12	2.96	41.8	22.7	31.1	12.7	23.3	27.6	12.0	44.3	51.7	27.4
April	8.99	1.53	27.4	8.16	1.39	28.8	16.56	3.05	45.0	30.7	45.8	22.2	31.7	42.3	20.8	45.2	87.2	33.0
May	9.90	2.03	33.5	9.70	1.92	35.2	13.20	4.25	65.0	39.1	51.9	27.4	35.1	50.6	24.0	68.4	65.1	52.8
June	9.51	2.27	41.1	10.38	2.01	35.6	8.90	4.16	62.4	40.9	50.8	32.3	34.4	55.0	29.6	62.1	49.7	61.8
July	9.51	2.21	41.0	10.26	2.05	34.4	8.72	2.80	54.6	40.5	53.4	27.3	34.9	56.3	21.8	54.6	47.1	37.0
August	9.33	2.07	40.7	9.08	1.79	30.8	8.78	3.20	63.2	38.1	51.1	28.0	29.6	48.7	15.6	59.6	47.7	38.4
September	8.77	2.72	46.0	7.32	1.92	30.8	17.12	6.33	90.6	47.6	47.3	36.5	30.2	39.3	17.0	95.2	84.5	97.0
October	8.24	3.10	50.5	7.96	2.05	36.8	10.86	5.86	85.6	54.4	39.8	29.3	36.1	42.8	21.0	91.9	54.2	66.4
November	7.65	2.10	34.5	7.08	1.19	20.2	10.42	5.15	77.4	37.7	35.9	27.1	21.1	38.3	18.0	83.0	51.0	59.4
December	6.77	1.78	24.3	4.90	0.91	17.0	11.30	4.45	54.4	24.7	33.5	18.6	18.1	25.0	11.6	56.8	62.5	44.8
Mean for Year	6.04	1.77	21.6	2.96	0.99	14.4	11.00	4.12	51.4	20.9	32.0	14.4	13.2	16.9	6.0	52.2	57.3	36.0
Winter	8.10	2.02	33.5	7.24	1.54	26.6	11.63	4.25	62.3	34.9	42.2	24.1	26.9	38.6	17.1	63.4	60.7	49.2
Equinox	6.33	1.56	21.7	4.25	1.04	16.8	11.24	4.05	51.0	22.4	32.7	14.7	17.3	22.5	9.5	50.3	60.6	36.1
Summer	8.70	2.19	36.5	8.23	1.64	30.3	12.76	4.58	68.3	40.5	43.4	26.5	31.0	43.5	21.0	72.1	64.4	52.9

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

Month 1943	'All' Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
January	'	Y	Y	'	Y	Y	'	Y	Y
February	-0.06	0.0	+0.2	+0.08	+5.8	-1.2	+0.46	-7.6	-0.2
March	+0.00	+0.1	-0.0	+0.18	+2.8	-0.2	-1.32	-14.2	+5.6
April	-0.05	-0.5	-0.2	-0.80	+3.2	-0.8	+0.56	-10.6	+6.4
May	-0.06	+0.8	+0.2	-0.32	+5.0	-0.8	+1.98	-0.4	+3.0
June	+0.01	+0.5	+0.1	+0.32	+3.2	-0.8	-0.74	-10.8	-3.4
July	-0.01	-0.4	+0.1	+0.32	+2.2	-1.6	+1.44	-1.0	+2.8
August	+0.03	-0.2	-0.1	+0.14	+6.0	-0.8	+0.06	-3.0	-0.4
September	+0.03	-1.0	-0.1	-0.50	+7.4	+0.4	-1.34	-31.6	-12.4
October	-0.31	+0.1	-0.4	-1.36	+3.0	-0.2	-1.62	-8.6	-1.0
November	+0.08	+0.2	+0.9	-0.10	+3.2	-1.4	+1.78	-1.2	-0.8
December	+0.04	+0.1	+0.3	-0.04	+3.6	-0.8	-0.56	+2.4	-1.0
Year	..	..	..	-0.15	+3.9	-0.7	+0.14	-6.8	-0.4

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

Month 1943	Declination West	Inclination	Intensity					
			Horizontal	North	West	Vertical	Total	
	o /	o /	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	10 20.1	66 44.3	.18555	.18254	.03329	.43162	.46981	
February	10 19.7	66 43.9	.18560	.18259	.03328	.43161	.46982	
March	10 18.8	66 44.2	.18556	.18256	.03322	.43161	.46981	
April	10 18.1	66 44.2	.18557	.18258	.03319	.43164	.46984	
May	10 17.6	66 44.1	.18559	.18260	.03316	.43166	.46987	
June	10 16.8	66 43.8	.18565	.18267	.03313	.43169	.46992	
July	10 16.1	66 43.9	.18564	.18267	.03309	.43170	.46992	
August	10 15.2	66 44.9	.18551	.18255	.03302	.43175	.46992	
September	10 14.2	66 45.2	.18549	.18254	.03296	.43180	.46996	
October	10 13.5	66 45.2	.18550	.18255	.03293	.43182	.46998	
November	10 12.6	66 45.3	.18550	.18256	.03288	.43186	.47000	
December	10 12.1	66 45.2	.18553	.18260	.03286	.43190	.47006	
Year	10 16.2	66 44.5	.18556	.18259	.03308	.43172	.46991	

MAGNETIC OBSERVATIONS, ABINGER 1943.

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	10 5.0	9 49.9	9 49.7	9 49.8	9 50.4	9 50.4	9 50.2	9 50.3	9 50.4	9 50.5	9 50.2	9 50.4
2	5.0	49.8	49.7	49.9	50.5	50.3	50.3	50.3	50.4	50.4	50.1	50.5
3	5.1	49.8	49.7	49.8	50.4	50.3	50.2	50.4	50.4	50.4	50.1	50.4
4	5.1	49.9	49.8	49.9	50.4	50.4	50.1	50.4	50.4	50.4	50.1	50.5
5	4.9	49.9	49.8	49.9	50.4	50.3	50.1	50.4	50.4	50.4	50.2	50.5
6	5.0	49.9	49.7	50.0	50.4	50.4	50.2	50.4	50.4	50.2	50.3	50.5
7	5.0	50.0	49.7	50.0	50.4	50.4	50.4	50.4	50.4	50.3	50.3	50.5
8	5.0	50.0	49.7	50.0	50.4	50.4	50.4	50.4	50.4	50.3	50.3	50.5
9	5.0	50.0	49.7	50.0	50.4	50.5	50.4	50.4	50.4	50.3	50.3	50.5
10	5.0	50.0	49.7	50.0	50.3	50.4	50.4	50.4	50.4	50.3	50.4	50.5
11	5.0	49.9	49.7	50.0	50.4	50.4	50.3	50.4	50.3	50.3	50.5	50.5
12	5.0	49.9	49.8	50.0	50.4	50.4	50.4	50.4	50.3	50.2	50.5	50.5
13	5.0	49.8	49.7	50.0	50.4	50.4	50.4	50.4	50.4	50.3	50.4	50.5
14	5.1	49.7	49.7	49.9	50.4	50.3	50.4	50.4	50.3	50.3	50.5	50.5
15	5.1	49.7	49.7	50.0	50.4	50.3	50.4	50.4	50.3	50.3	50.5	50.5
16	5.1	49.8	49.7	50.0	50.4	50.3	50.4	50.4	50.3	50.3	50.5	50.6
17	5.1	49.8	49.7	49.9	50.4	50.3	50.4	50.3	50.4	50.2	50.5	50.6
18	5.1	49.7	49.7	50.1	50.4	50.3	50.4	50.4	50.3	50.2	50.5	50.6
19	10 5.1 9 49.9	49.8	49.7	50.3	50.5	50.3	50.4	50.4	50.3	50.2	50.5	50.6
20	50.0	49.8	49.7	50.3	50.4	50.2	50.4	50.4	50.3	50.2	50.5	50.5
21	50.0	49.7	49.7	50.3	50.5	50.3	50.4	50.5	50.3	50.2	50.5	50.6
22	49.9	49.7	49.7	50.4	50.4	50.3	50.4	50.4	50.3	50.2	50.5	50.6
23	49.9	49.7	49.8	50.3	50.3	50.3	50.4	50.4	50.4	50.2	50.5	50.6
24	49.9	49.7	49.8	50.4	50.4	50.3	50.4	50.4	50.4	50.2	50.5	50.6
25	50.0	49.7	49.8	50.3	50.4	50.3	50.3	50.4	50.4	50.2	50.5	50.5
26	49.9	49.7	49.8	50.3	50.3	50.3	50.3	50.4	50.4	50.2	50.5	50.6
27	50.0	49.8	49.8	50.3	50.4	50.3	50.4	50.4	50.4	50.2	50.5	50.6
28	49.9	49.7	49.8	50.3	50.4	50.3	50.4	50.4	50.4	50.2	50.5	50.6
29	49.8		49.7	50.3	50.4	50.3	50.4	50.4	50.4	50.2	50.5	50.6
30	49.9		49.8	50.3	50.4	50.2	50.4	50.4	50.4	50.2	50.4	50.6
31	49.9		49.8		50.4		50.4	50.4		50.2		50.6

The normal temperature maintained in the Recording Room was changed as follows:

January 5, 16°.0 to 11°.0; April 17, 11°.0 to 16°.0; July 5, 16°.0 to 21°.0; October 6, 21°.0 to 16°.0.

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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									
	h	m	h	m	Y	Y		h	m	h	m	Y	Y		h	m	h	m	Y	Y									
Jan.	1	11	25	-	11	40	8	18566	18335	Mar.	29	9	1	-	9	12	8	18558	18388	June	18	8	19	-	8	29	8	18556	18383
	2	9	13	-	9	28	8	18562	18334		30	9	8	-	9	18	8	18522	18387		19	7	57	-	8	12	8	18572	18383
	4	9	11	-	9	27	8	18558	18335											21	7	53	-	8	6	8	18535	18382	
	6	9	13	-	9	29	8	18546	18335											22	7	54	-	8	6	8	18500	18383	
	7	9	15	-	9	30	8	18557	18334	Apr.	1	9	9	-	9	19	8	18527	18387		23	7	59	-	8	13	8	18552	18382
	8	9	12	-	9	24	8	18561	18334		2	9	11	-	9	21	8	18542	18390		24	7	54	-	8	5	8	18524	18382
	9	9	25	-	9	38	8	18554	18333		3	9	13	-	9	22	8	18335	18388		25	7	42	-	7	55	8	18535	18382
	11	8	48	-	9	8	8	18571	18334		5	8	3	-	8	13	8	18536	18389		26	8	6	-	8	19	8	18542	18382
	12	9	10	-	9	24	8	18564	18334		6	8	10	-	8	21	8	18560	18390		28	7	52	-	8	3	8	18532	18382
	14	9	14	-	9	27	8	18573	18401		7	8	10	-	8	19	8	18548	18388		29	8	13	-	8	23	8	18540	18382
	15	9	17	-	9	30	8	18570	18399		8	8	10	-	8	21	8	18546	18388		30	8	11	-	8	21	8	18557	18382
	16	9	10	-	9	24	8	18574	18399		9	8	12	-	8	24	8	18567	18388										
	18	9	13	-	9	31	8	18552	18399		10	8	9	-	8	20	8	18540	18388										
	20	9	17	-	9	30	8	18555	18400		12	10	33	-	10	45	8	18526	18388	July	1	8	11	-	8	22	8	18564	18382
	21	8	37	-	8	49	8	18547	18400		14	8	17	-	8	29	8	18575	18388		2	8	4	-	8	13	8	18565	18382
	22	9	18	-	9	31	8	18532	18400		15	8	16	-	8	26	8	18587	18388		3	8	6	-	8	17	8	18547	18381
	23	9	10	-	9	20	8	18549	18401		16	8	8	-	8	20	8	18569	18388		6	8	36	-	9	16	8	18540	18381
	25	9	9	-	9	18	8	18559	18400		17	8	17	-	8	28	8	18559	18388		8	8	19	-	8	38	8	18529	18382
	27	9	3	-	9	15	8	18561	18400		19	8	52	-	9	3	8	18549	18387		9	8	17	-	8	32	8	18528	18382
	28	9	1	-	9	11	8	18552	18400		20	8	50	-	9	1	8	18564	18386		10	8	18	-	8	31	8	18536	18381
	29	9	16	-	9	25	8	18561	18400		21	8	49	-	9	0	8	18549	18385		12	8	11	-	8	21	8	18551	18381
	30	9	4	-	9	16	8	18558	18401		22	7	12	-	7	27	8	18565	18385		13	8	17	-	8	32	8	18556	18381
											23	7	29	-	7	46	8	18559	18385		14	8	5	-	8	22	8	18549	18381
											27	8	13	-	8	27	8	18539	18387		15	8	7	-	8	17	8	18556	18381
Feb.	1	9	7	-	9	19	8	18564	18398		28	8	13	-	8	23	8	18553	18386		16	8	7	-	8	17	8	18556	18381
	3	9	4	-	9	18	8	18577	18399		29	8	7	-	8	16	8	18552	18385		17	8	6	-	8	18	8	18556	18381
	4	9	8	-	9	18	8	18570	18399		30	8	45	-	8	58	8	18564	18386		19	8	3	-	8	13	8	18547	18381
	5	8	56	-	9	7	8	18563	18400											20	7	56	-	8	11	8	18551	18381	
	6	9	7	-	9	17	8	18556	18399	May	1	8	4	-	8	14	8	18515	18385		21	8	6	-	8	16	8	18561	18380
	8	9	3	-	9	18	8	18567	18399		3	8	13	-	8	21	8	18531	18385		22	8	6	-	8	17	8	18562	18381
	10	9	14	-	9	24	8	18565	18428		4	8	10	-	8	20	8	18546	18385		23	8	2	-	8	14	8	18554	18382
	11	9	3	-	9	17	8	18559	18427		5	8	10	-	8	19	8	18533	18386		24	8	7	-	8	20	8	18567	18381
	12	9	2	-	9	12	8	18563	18426		6	8	13	-	8	22	8	18541	18386		26	7	55	-	8	11	8	18574	18381
	13	9	0	-	9	13	8	18553	18426		7	8	14	-	8	23	8	18540	18385		27	8	25	-	8	39	8	18578	18380
	15	9	7	-	9	19	8	18562	18425		8	8	13	-	8	23	8	18555	18385		28	8	39	-	8	48	8	18570	18380
	16	8	58	-	9	8	8	18567	18426		10	6	42	-	6	57	8	18571	18386		29	7	59	-	8	9	8	18548	18379
	17	9	12	-	9	24	8	18568	18426		12	8	9	-	8	19	8	18536	18385		30	8	10	-	8	20	8	18554	18379
	18	8	56	-	9	9	8	18545	18425		13	8	16	-	8	26	8	18543	18384										
	19	9	7	-	9	16	8	18556	18424		14	8	11	-	8	23	8	18546	18384	Aug.	3	8	50	-	9	2	8	18538	18379
	20	9	6	-	9	15	8	18560	18424		15	8	8	-	8	19	8	18516	18386		4	8	47	-	8	58	8	18534	18379
	22	9	0	-	9	10	8	18573	18423		17	8	10	-	8	19	8	18556	18384		5	8	50	-	9	0	8	18524	18379
	24	8	52	-	9	8	8	18564	18402		19	10	33	-	10	45	8	18526	18383		6	8	13	-	8	24	8	18515	18380
	25	9	4	-	9	15	8	18563	18401		20	8	8	-	8	18	8	18537	18384		7	8	10	-	8	23	8	18563	18381
	26	9	8	-	9	18	8	18545	18402		21	8	10	-	8	21	8	18538	18383		9	8	10	-	8	22	8	18522	18379
	27	9	8	-	9	19	8	18547	18402		22	8	12	-	8	23	8	18547	18384		10	7	24	-	7	36	8	18546	18380
											24	8	7	-	8	16	8	18531	18384		11	7	34	-	7	48	8	1	

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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								
	h	m	h	m	Y	Y		h	m	h	m	Y	Y		h	m	h	m	Y	Y								
Sept. 2	9	6	-	9	17	8	18504	18379	Oct. 13	9	16	-	9	26	8	18540	18376	Nov. 20	9	2	-	9	16	8	18526	18379		
	3	9	12	-	9	23	8	18499	18378	14	9	14	-	9	23	8	18546	18377	22	9	13	-	9	24	8	18527	18378	
	4	9	11	-	9	20	8	18525	18380	15	9	8	-	9	18	8	18549	18378	23	10	27	-	10	39	8	18528	18378	
	6	9	9	-	9	18	8	18531	18379	16	9	14	-	9	24	8	18554	18378	24	9	10	-	9	26	8	18509	18377	
	7	8	57	-	9	9	8	18544	18380	18	9	12	-	9	22	8	18548	18378	25	9	5	-	9	18	8	18535	18378	
	8	9	7	-	9	16	8	18547	18379	19	8	49	-	9	0	8	18546	18378	26	9	11	-	9	19	8	18546	18378	
	9	9	1	-	9	10	8	18514	18379	20	8	57	-	9	8	8	18556	18378	27	9	16	-	9	26	8	18523	18378	
	10	9	12	-	9	27	8	18514	18379	21	10	25	-	10	36	8	18541	18377	29	9	19	-	9	27	8	18533	18378	
	11	9	2	-	9	13	8	18534	18379	22	9	10	-	9	20	8	18570	18377	30	9	11	-	9	21	8	18545	18378	
	13	8	19	-	8	31	8	18540	18379	23	9	3	-	9	13	8	18545	18377										
	14	8	24	-	9	2	8	18546	18378	25	9	11	-	9	20	8	18523	18378										
	15	9	49	-	10	5	8	18528	18378	26	9	14	-	9	23	8	18510	18378										
	16	9	12	-	9	23	8	18541	18377	27	9	8	-	9	20	8	18539	18378										
	17	9	13	-	9	22	8	18542	18379	28	9	14	-	9	22	8	18522	18377										
	18	9	10	-	9	20	8	18547	18377	29	9	10	-	9	20	8	18506	18378										
	20	9	16	-	9	26	8	18542	18379	30	8	41	-	8	57	8	18542	18379										
	21	8	43	-	8	59	8	18555	18379																			
	22	9	7	-	9	18	8	18541	18379																			
	23	9	25	-	9	36	8	18530	18378																			
	24	9	4	-	9	17	8	18546	18379	Nov. 1	9	4	-	9	18	8	18528	18377	Dec. 1	9	39	-	9	51	8	18545	18378	
	25	9	8	-	9	19	8	18548	18378		2	8	29	-	8	41	8	18541	18377	2	9	14	-	9	26	8	18565	18378
	27	9	19	-	9	30	8	18537	18377		3	9	9	-	9	20	8	18547	18377	3	9	6	-	9	18	8	18554	18377
	28	8	43	-	8	58	8	18509	18377		4	8	51	-	9	5	8	18559	18378	4	10	20	-	10	32	8	18548	18378
	29	9	14	-	9	24	8	18469	18377		5	8	47	-	9	6	8	18559	18378	5	10	27	-	10	37	8	18552	18378
	30	9	9	-	9	19	8	18511	18377		6	8	45	-	9	1	8	18565	18377	6	9	15	-	9	26	8	18556	18378
											8	9	11	-	9	22	8	18533	18377	7	9	2	-	9	14	8	18561	18379
											9	9	14	-	9	25	8	18556	18379	8	9	18	-	9	28	8	18569	18378
											10	9	17	-	9	27	8	18553	18377	10	9	16	-	9	26	8	18570	18378
											11	10	25	-	10	37	8	18541	18378	11	9	12	-	9	23	8	18566	18378
											12	10	17	-	10	30	8	18555	18378	12	9	20	-	9	29	8	18530	18378
											13	10	27	-	10	38	8	18547	18377	13	9	15	-	9	25	8	18531	18377
											15	10	31	-	10	43	8	18556	18378	14	9	11	-	9	22	8	18551	18376
											16	11	39	-	11	56	8	18557	18378	15	10	36	-	10	47	8	18568	18377
											17	9	46	-	9	59	8	18555	18378	16	9	14	-	9	23	8	18538	18377
											18	9	10	-	9	20	8	18568	18378	17	9	23	-	9	34	8	18561	18377
											19	9	10	-	9	22	8	18500	18378	18	9	11	-	9	21	8	18542	18378
Jan. 5 - Temperature of Recording Room lowered from 16°.0 C to 11°.0 C. Apr. 17 - Temperature of Recording Room raised from 11°.0 C to 16°.0 C. July 5 - Temperature of Recording Room raised from 16°.0 C to 21°.0 C. Oct. 6 - Temperature of Recording Room lowered from 21°.0 C to 16°.0 C.																												

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

Universal Time				Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time				Observed Horizontal Intensity	Deduced Value of Base-line	Universal Time				Observed Horizontal Intensity	Deduced Value of Base-line							
	h	m	h	m	Y	Y		h	m	h	m	Y	Y		h	m	h	m	Y	Y				
May 25	8	24	-	9	32	18534	18383	July 20	8	11	-	10	16	18542	18383	Sept. 21	9	18	-	10	37	18551	18379	
June 1	8	8	-	9	3	18553	18387		9	11	-	9	28	18536	18380		28	9	20	-	10	34	18484	18382
8	8	10	-	9	23	18547	18387		11	8	11	-	9	28	18534	18384	Oct. 5	9	16	-	10	41	18530	18376
15	8	3	-	9	24	18538	18381		17	9	15	-	10	37	18551	18382	12	9	4	-	10	31	18543	18331
July 6	8	21	-																					

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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

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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										
Sept. 22	9	26	-	9	44	8	43173	43007	Oct. 27	9	30	-	9	52	8	43176	43007	Nov. 27	9	34	-	9	56	8	43173	43005				
24	9	24	-	9	46	8	43166	43007	28	9	34	-	9	50	8	43176	43010	29	9	36	-	9	54	8	43187	43009				
25	9	28	-	9	48	8	43172	43008	29	9	28	-	9	47	8	43184	43009	30	9	36	-	9	57	8	43188	43009				
27	9	44	-	10	0	8	43169	43008	30	9	10	-	9	36	8	43183	43010	Dec.												
28	9	10	-	9	36	8	43179	43006	Nov. 1				9	27	-	9	46	8	43186	43009	1	9	10	-	9	32	8	43188	43007	
29	9	30	-	9	51	8	43180	43007	2	8	54	-	9	19	8	43183	43007	2	9	39	-	9	57	8	43185	43007				
30	9	28	-	9	47	8	43185	43005	3	9	29	-	9	56	8	43185	43009	3	9	28	-	9	46	8	43188	43008				
Oct.				1	9	35	-	9	57	8	43170	43007	4	9	17	-	9	41	8	43184	43009	4	9	19	-	9	50	8	43184	43008
Oct.				2	9	28	-	9	58	8	43180	43008	5	9	15	-	9	40	8	43180	43009	6	9	38	-	9	54	8	43188	43008
Oct.				4	8	56	-	9	16	8	43177	43007	7	9	10	-	9	39	8	43179	43008	7	9	24	-	9	47	8	43189	43010
Oct.				5	9	24	-	9	40	8	43180	43005	8	9	38	-	9	57	8	43175	43007	8	9	39	-	9	54	8	43187	43007
Oct.				7	9	38	-	9	57	8	43175	43007	9	9	21	-	9	49	8	43178	43008	9	9	32	-	9	49	8	43186	43008
Oct.				8	9	21	-	9	49	8	43178	43008	10	9	21	-	9	42	8	43176	43007	10	9	35	-	9	58	8	43183	43009
Oct.				9	9	21	-	9	42	8	43176	43007	11	9	38	-	9	54	8	43183	43009	11	9	32	-	9	49	8	43183	43008
Oct.				11	9	38	-	9	58	8	43181	43008	12	9	37	-	9	57	8	43177	43009	12	9	31	-	9	45	8	43179	43007
Oct.				12	9	37	-	9	57	8	43177	43009	13	9	37	-	9	55	8	43173	43008	13	9	38	-	9	54	8	43183	43008
Oct.				13	9	37	-	9	57	8	43173	43008	14	9	31	-	9	55	8	43174	43008	14	9	31	-	9	45	8	43179	43007
Oct.				14	9	31	-	9	49	8	43176	43009	15	9	35	-	9	59	8	43174	43007	15	9	25	-	9	54	8	43184	43007
Oct.				15	9	29	-	9	50	8	43174	43009	16	9	35	-	10	4	8	43170	43007	16	9	32	-	9	55	8	43186	43008
Oct.				16	9	36	-	9	59	8	43170	43009	17	9	19	-	9	38	8	43174	43008	17	9	38	-	9	56	8	43184	43007
Oct.				18	9	31	-	9	48	8	43174	43009	19	9	31	-	9	53	8	43175	43008	18	9	32	-	9	51	8	43190	43009
Oct.				19	9	10	-	9	33	8	43173	43007	20	9	29	-	9	49	8	43192	43011	19	9	29	-	9	50	8	43190	43007
Oct.				20	9	17	-	9	34	8	43179	43008	21	9	28	-	9	55	8	43177	43006	20	9	30	-	9	58	8	43192	43008
Oct.				21	9	26	-	9	48	8	43177	43009	22	9	26	-	9	50	8	43183	43007	21	9	33	-	9	58	8	43192	43008
Oct.				22	9	26	-	9	42	8	43173	43010	23	9	35	-	10	3	8	43185	43009	22	9	38	-	10	4	8	43190	43010
Oct.				23	9	23	-	9	45	8	43180	43009	24	9	33	-	9	58	8	43195	43010	23	9	26	-	9	51	8	43185	43009
Oct.				25	9	31	-	9	50	8	43176	43009	25	9	24	-	9	42	8	43186	43009	24	9	26	-	9	44	8	43186	43008
Oct.				26	9	29	-	9	50	8	43175	43010	26	9	29	-	9	46	8	43187	43008	25	9	41	-	9	59	8	43189	43006
Jan.																														

Jan. 5 - Temperature of Recording Room lowered from $16^{\circ}.0$ C to $11^{\circ}.0$ C.

Apr. 17 - Temperature of Recording Room raised from $11^{\circ}.0$ C to $16^{\circ}.0$ C.

July 5 - Temperature of Recording Room raised from $16^{\circ}.0$ C to $21^{\circ}.0$ C.

Oct. 6 - Temperature of Recording Room lowered from $21^{\circ}.0$ C to $16^{\circ}.0$ C.

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	43008	43008	43005	43008	43012	-	43007	-	43007	43006	43010	43010
2	43007	-	-	43008	-	43014	43006	-	43007	43006	43009	43013
3	-	43008	43008	43010	43011	43013	43004	43003	43007	-	43009	43008
4	<u>43009</u>	43008	43007	-	43010	43012	-	43007	43006	43002	43011	43006
5	-	43008	43009	43009	43012	43011	-	43005	-	<u>42999</u>	-	-
6	43020	43008	43006	43008	43009	-	43001	43005	43007	-	43008	43009
7	43012	-	-	43009	43012	43011	43007	43005	43006	43003	-	43009
8	43012	43004	43006	43012	-	43013	43006	-	43003	43006	43010	43010
9	43006	-	-	43011	-	43008	43005	43005	43007	43007	43010	43011
10	-	43001	43009	43010	43010	43010	43005	43004	43002	-	43013	43011
11	43015	43008	43008	-	-	43010	-	43006	43004	43008	43012	43012
12	43010	43006	43007	43013	43010	-	43004	43004	-	43010	43011	-
13	-	43006	-	-	43009	-	43007	43006	43005	43011	43010	43010
14	<u>43011</u>	-	-	43006	43009	-	43004	43007	43008	43009	-	43011
15	<u>43010</u>	43008	43009	43008	43010	43009	43006	-	43005	43010	43009	43009
16	43009	43008	43007	43010	-	43011	43008	43005	43006	43010	43011	43011
17	-	43010	43005	<u>43009</u>	43012	43010	43006	43007	43008	-	43010	43009
18	43012	43004	43007	-	-	43011	-	-	43007	43009	43008	43010
19	-	43006	43008	43009	43011	43009	43005	43006	-	43011	43009	-
20	43006	43007	43006	43009	43010	-	43004	-	43007	43010	43009	43009
21	43006	-	-	43009	43009	43010	43007	43006	43006	43009	-	43005
22	43007	43003	43006	43009	43012	43010	43005	-	43008	43010	43011	43010
23	43006	-	-	43009	-	43009	43008	43003	43007	43011	43012	43012
24	-	-	43008	-	43013	43011	43007	43007	43008	-	-	43009
25	43003	43005	43006	-	43011	-	-	43004	43005	43009	43013	-
26	-	43006	43007	-	43012	-	43007	43006	-	43009	43010	-
27	43009	43007	43010	43009	43011	-	43007	43008	43004	-	43006	-
28	43003	-	-	43008	43011	-	43007	43005	43003	43009	-	43012
29	43007		43007	43007	43013	43004	{ 43006 43004 }	-	43006	43009	43011	43011
30	-		43010	43010	-	43008	43006	43004	43005	43012	43011	43009
31	-		-		43015		-	-	-	-		43008

Jan. 5 - Temperature of Recording Room lowered from $16^{\circ}0.0$ C to $11^{\circ}0.0$ C.
 Apr. 17 - Temperature of Recording Room raised from $11^{\circ}0.0$ C to $16^{\circ}0.0$ C.
 July 5 - Temperature of Recording Room raised from $16^{\circ}0.0$ C to $21^{\circ}0.0$ C.
 Oct. 6 - Temperature of Recording Room lowered from $21^{\circ}0.0$ C to $16^{\circ}0.0$ C.

MAGNETIC OBSERVATIONS, ABINGER 1943.

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

Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip	Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip
	° '	C.G.S.Unit	C.G.S.Unit	° '		° '	C.G.S.Unit	C.G.S.Unit	° '
1818	24 19 †	..	..	..	1882	18 22.3	0.1806	0.4375	67 34.2
1819	24 21	..	..	..	1883	18 15.0	0.1812	0.4381	67 31.7
1820	24 21	..	..	..	1884	18 7.6	0.1814	0.4379	67 29.7
1841	23 16.2	..	..	..	1885	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.6	..	..	..	1886	17 54.5	0.1818	0.4377	67 27.1
1843	23 11.7	..	..	69 0.6	1887	17 49.1	0.1819	0.4380	67 26.6
1844	23 15.3	..	..	69 0.3	1888	17 40.4	0.1822	0.4383	67 25.6
1845	22 56.7	..	..	68 57.5	1889	17 34.9	0.1823	0.4380	67 24.3
1846	22 49.6	0.1731	..	68 58.1	1890	17 28.6	0.1825	0.4381	67 23.0
1847	22 51.3	0.1736	..	68 59.0	1891	17 23.4	0.1827	0.4380	67 21.5
1848	22 51.8	0.1731	..	68 54.7	1892	17 17.4	0.1829	0.4379	67 20.0
1849	22 37.8	0.1733	..	68 51.3	1893	17 11.4	0.1831	0.4373	67 17.9
1850	22 23.5	0.1738	..	68 46.9	1894	17 4.6	0.1831	0.4374	67 17.4
1851	22 18.3	0.1744	..	68 40.4	1895	16 57.4	0.1834	0.4378	67 16.1
1852	22 17.9	0.1745	..	68 42.7	1896	16 51.7	0.1835	0.4382	67 15.1
1853	22 10.1	0.1748	..	68 44.6	1897	16 45.8	0.1838	0.4377	67 13.5
1854	22 0.8	0.1749	..	68 47.7	1898	16 39.2	0.1840	0.4377	67 12.1
1855	21 48.4	0.1756	..	68 44.6	1899	16 34.2	0.1843	0.4380	67 10.5
1856	21 43.5	0.1759	..	68 43.5	1900	16 29.0	0.1846	0.4380	67 8.8
1857	21 35.4	0.1769	..	68 31.1	1901	16 26.0	0.1850	0.4381	67 6.4
1858	21 30.3	0.1762	..	68 28.3	1902	16 22.8	0.1852	0.4377	67 3.8
1859	21 23.5	0.1761	..	68 26.9	1903	16 19.1	0.1852	0.4368	67 1.2
1860	21 14.3	..	..	68 30.1	1904	16 15.0	0.1854	0.4359	66 57.6
1861	21 5.5	0.1773	..	68 24.6	1905	16 9.9	0.1854	0.4355	66 56.3
					1906	16 3.6	0.1854	0.4353	66 55.6
1861		0.1759		68 15.8	1907	15 59.8	0.1855	0.4357	66 56.2
1862	20 52.6	0.1763	0.4403	68 9.6	1908	15 53.5	0.1854	0.4356	66 56.3
1863	20 45.9	0.1764	0.4396	68 7.0	1909	15 47.6	0.1854	0.4348	66 54.1
1864	..	0.1767	0.4393	68 4.1	1910	15 41.2	0.1855	0.4345	66 52.8
1865	20 33.9	0.1767	0.4388	68 2.7	1911	15 33.0	0.1855	0.4342	66 52.1
1866	20 28.0	0.1773	0.4397	68 1.3	1912	15 24.3	0.1855	0.4340	66 51.8
1867	20 20.5	0.1777	0.4392	67 57.2	1913	15 15.2	0.1853	0.4333	66 50.5
1868	20 13.1	0.1779	0.4395	67 56.5					
1869	20 4.1	0.1782	0.4396	67 54.8					
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 22.8	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 1925-1943

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

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. xi.

January. Apart from a small temporary decrease in H and D during the last five hours of 1st and slight general unsteadiness on succeeding days, no significant movements occurred until 4th. At 4^d 10^h a brisk disturbance began which lasted about eighteen hours, culminating at 4^d 17^{1/2}^h with a wave in D (25' E) and a less prominent movement in H (-100Y). Many small undulatory movements in all traces appeared during the second half of 5th. Activity then declined and the period from 7^d 0^h to 8^d 18^h was quiet. Conditions were unsteady generally between 8^d 18^h and 14^d 0^h, after which a further practically quiet period occurred, ending at 16^d 16^h. From 16^d 18^h unsteadiness was apparent and from 17^d 10^h this increased to a state of moderate activity which lasted about fifteen hours. The largest movements, however, did not exceed 100Y in H, while the total range in D was less than 25'. Conditions of general unsteadiness had returned by 18^d 0^h and these lasted until 20^d 16^h when the most considerable disturbance of the month rapidly developed. The main period of activity was quite shortlived and was over by 21^d 0^h, but during its continuance D decreased 40'. The changes in H and Z were not remarkable, ranging through 120Y and 90Y respectively. At 21^d 21^{1/2}^h and 22^d 0^{2/3}^h prominent waves in H occurred, +90Y and +110Y respectively, and at 22^d 18^h a wave in D (20' E). From 23^d 0^h the normal state of slight general unsteadiness was re-established, to last until the end of the month, with one short quiet spell intervening at 25^d 1^h to 26^d 1^h.

The range in declination during the month was from 9° 42'.4 on 20th to 10° 29'.3 on 26th; in horizontal intensity, from .18411 on 20th to .18643 on 22nd; in vertical intensity, from .43138 on 22nd to .43237 on 20th.

February. The prevailing condition throughout the month was one of moderate general unsteadiness. This varied in degree, but only three days could be described as disturbed, while no day was completely quiet during the whole 24 hours. The first disturbed day was 17th. Numerous rapid small oscillations were followed, at 10^h to 12^h, by a prominent wave in H (-120Y) accompanied by a sharp increase in Z (40Y). There was also a series of five relatively conspicuous oscillations in all traces between 17^d 19^h and 23^h, of which the largest, in H, was just under 100Y. The second disturbed period was the most considerable of the month and began rather abruptly at 25^d 17^{1/2}^h. The general character of the movements was oscillatory. They reached a climax at 26^d 2^h, with a wave of 15' W in D, and soon afterwards declined rapidly. The range in Z was 60Y. A repetitive series on a smaller scale occurred between 26^d 16^h and 27^d 6^h, in which the largest movement was a wave in D (12' E) at 26^d 19^h. No other changes call for mention.

The range in declination during the month was from 10° 3'.1 on 26th to 10° 30'.3 on 17th; in horizontal intensity, from .18443 to .18631, both on 17th; in vertical intensity, from .43134 on 17th to .43205 on 25th.

March. A rapid decrease in H (90Y) between 2^d 7^h and 9^d 8^h was not accompanied by changes of comparable amount in the other elements. All traces, however, were slightly unsteady, and the condition increased on 3rd. From 4th to 9th continuous slight activity was present, with numerous small bays occurring in the traces. The most prominent of these appeared at 4^d 21^h, namely a wave in H (+100Y) and one in D (14' E). There was also a rapid change in D (12' E) at 5^d 16^{1/2}^h. By 9^d the movements had become few and isolated, but on 11th activity was resumed and from 11^d 18^h to 13^d 3^h a state of mild disturbance existed. The ranges were relatively small, however, no movement as great as 100Y appearing in the record. A further period of activity began at about 16^d 0^h. There was a temporary decrease in H (90Y) between 16^d 8^h and 12^h and a prominent bay in the declination trace (16' E) at 16^d 20^{1/2}^h, followed by one in H (+75Y) at 16^d 23^{2/3}^h. Activity declined almost to quiet conditions between 17^d 15^h and 19^d 9^h but then returned and in varying degree persisted until 24^d 20^h. A specially prominent wave in D (28' E) occurred at 20^d 18^{1/2}^h, having been preceded by a steady increase in Z (60Y) from 13^h. The period of maximum disturbance lasted from 22^d 15^h to 23^d 6^h. During this interval several movements exceeded 50Y in H and 10' in D, while there was a temporary decrease of 60Y in Z between 22^d 22^h and 23^d 6^h. Small movements continued to appear on the traces at irregular intervals throughout the next six days and then, at 29^d 15^h, the most considerable disturbance of the month began rapidly to develop. A sharp increase in H at 29^d 18^{1/2}^h, followed by an oscillatory decrease, produced a range of 190Y in under two hours, the corresponding range in D being 26'. A series of oscillatory movements followed which averaged 50Y in H and 8' in D. The most conspicuous movement in Z was a decrease of 60Y in the interval 29^d 21^h 46^m to 22^d 0^m. Though diminished in scale the disturbance continued well into April and had not subsided until 8th.

The range in declination during the month was from $9^{\circ} 52' .8$ on 20th to $10^{\circ} 31' .2$ on 29th; in horizontal intensity, from .18468 on 16th to .18674 on 29th; in vertical intensity, from .43095 on 23rd to .43202 on 31st.

April. During the first seven days a series of minor disturbances occurred, separated in general by such short intervals that no time demarcation can be set. The most active period was from $3^d 0^h$ to $6^d 0^h$. The principal movements only, will be mentioned. There was a decrease in Z (50Y) from $3^d 0^h$ to 2^h followed by a fluctuating recovery and accompanied by irregular changes in H and a double wave in D ($\pm 10'$). A very sharp peak in H (+125Y) appeared at $4^d 19^h$. Prominent waves in declination occurred at $5^d 16\frac{1}{2}^h$ (20' E) and $7^d 0\frac{1}{2}^h$ to $2\frac{1}{2}^h$ (range of 19'). After $8^d 0^h$ conditions became nearly quiet until $9^d 12^h$. Small scale unsteadiness then set in, which gradually increased, and at $10^d 19\frac{1}{2}^h$ quickly developed into a brisk disturbance. This lasted only until about $11^d 6^h$, its principal features being a number of irregular movements in all traces (a few of which reached 75Y in H and 10' in D) and a range of almost 100Y in Z. Small irregular movements continued until $12^d 3^h$ and then a practically quiet interval began, lasting until $15^d 10^h$. Between $15^d 16^h$ and $18^d 8^h$ there were many small oscillatory movements in the traces, chiefly in H, but these became gradually insignificant, though still present when the next period of disturbance arrived at $20^d 10^h$. This disturbance consisted of a series of unimportant irregular fluctuations in H, none greater than 50Y, with rather more pronounced movements in D, and had ceased by $22^d 0^h$. A nearly quiet period ensued, which ended at $25^d 0^h$ with the rapid development of another disturbance, more active than the last, but producing no great ranges in the values of the elements, though at the climax Z was about 60Y below normal. A further quiet period extended from $27^d 4^h$ to $28^d 16^h$, after which the traces again showed much irregularity. A prominent bay in H (-60Y) at $30^d 10\frac{1}{2}^h$ was the first sign of a new disturbance, which however did not develop until the next day.

The range in declination during the month was from $10^{\circ} 2' .8$ on 10th to $10^{\circ} 31' .0$ on 21st; in horizontal intensity, from .18471 on 6th to .18650 on 4th; in vertical intensity, from .43103 on 11th to .43216 on 4th.

May. During the first two days, conditions were moderately disturbed. Movements were not large but they were numerous and, for the most part, irregular. The largest individual wave in H (+80Y) occurred at $1^d 4^h$; a wave in D at $2^d 0^h$ reached 15' W; Z decreased 100Y between $1^d 18\frac{1}{2}^h$ and $2^d 0\frac{1}{2}^h$. After $3^d 0^h$ only isolated movements appeared on the traces and these were little more than instances of temporary unsteadiness, which gradually decreased until 10th. From $10^d 12^h$ there was a resumption of activity, slight at first, but increasing to a state of moderate disturbance during 13th. On 15th, movements up to 50Y in H and 10' in D occurred between 0^h and 6^h , accompanied by a slow fluctuation in Z (-55Y). Marked unsteadiness continued throughout 15th. On 16th, from $11\frac{1}{2}^h$, disturbance was considerable and developed during the latter part of 17th almost to the dimensions of a small storm. The principal features are shown on the traces between $17^d 20^h$ and $18^d 8^h$. They include a steep wave in H (+120Y) at $17^d 20\frac{1}{2}^h$ followed by a series of irregular oscillations in all elements, the amplitude being on the average 10' in D, 50Y in H and 20Y in Z. The disturbance continued on a diminished scale until about $19^d 9^h$ after which the traces showed only minor irregularities. These ceased at $21^d 20^h$ when a short quiet period began, lasting until $23^d 6^h$. The period from $23^d 10^h$ to $29^d 6^h$ was one of almost continuous moderate activity. In general the movements were less than 10' in D and 50Y in H, but a few rather larger waves appeared between $27^d 21^h$ and $28^d 6^h$, and this period contained the climax of the disturbance. After $29^d 6^h$ the movements were small, though numerous.

The range in declination during the month was from $10^{\circ} 5' .1$ to $10^{\circ} 29' .3$ both on 1st; in horizontal intensity, from .18470 on 1st to .18685 on 17th; in vertical intensity, from .43108 on 15th to .43221 on 1st.

June. Many small movements were recorded during the first few days, chiefly in H, and there was one wave in D which reached 7', at $1^d 21\frac{1}{2}^h$. The irregularities increased in range during the latter half of 5th. At $6^d 0^h$ and $6^d 3^h$ there were prominent waves in the H and D traces. At $7^d 12^h$ a period of moderate disturbance began which lasted for several days, though without displaying any marked features. There was a range of 80Y in Z on 8th. A few movements approaching 100Y in H were recorded between 8th and 11th with corresponding movements of about 10' in D. Also a conspicuous wave in Z (-45Y) appeared at $13^d 2^h$, co-incidentally with a sharp easterly movement

in D (15'). After 15^d 0^h activity declined to small irregularities, chiefly in H, and these virtually ceased during 17th. They soon reappeared, however, several being recorded between 18^d 22^h and 19^d 6^h. At 19^d 11¹₂^h a further period of moderate disturbance began, which continued without much abatement until the end of 28th. As in the former instance, there were no specially marked features, the general character being irregular fluctuation in H and D with enlarged diurnal range in Z. The most prominent movements occurred at 20^d 0^h to 1^h (D, 16' E); 24^d 16¹₂^h (H, +70Y); 28^d 19^h (H, +70Y, D, 10' E). The most active period was from 23^d 16^h to 24^d 6^h. 26th and 27th were the least disturbed days in the period. From 29^d 6^h to the end of the month conditions were relatively quiet.

The range in declination during the month was from 10° 6'.3 on 20th to 10° 28'.2 on 21st; in horizontal intensity, from .18487 on 9th to .18634 on 19th; in vertical intensity, from .43129 on 20th to .43222 on 8th.

July. Nearly quiet conditions prevailed during the first two days, but from 2^d 22^h there was considerable unsteadiness. At 4^d 10^h activity began to increase and by 16^h had reached the dimensions of moderate disturbance. Though gradually declining after 6^d 12^h, this condition persisted until the end of 18^d. A few of the principal movements (which were all in H) will be mentioned. 4^d 16^h 20^m to 30^m, H decreased 80Y, but recovered irregularly during the next two hours; 5^d 14^h 30^m to 15^h 10^m, H increased 120Y; at 5^d 18¹₂^h, a wave (+100Y); 6^d 9^h 30^m to 10^h 20^m, H decreased 80Y after which it fluctuated continuously for seven hours; at 9^d 7¹₂^h, a wave (-80Y); at 9^d 18¹₂^h, a steep wave, (+120Y). From 14^d 2^h to 15^d 10^h conditions were almost quiet. A further period of unsteadiness then set in, the movements showing a distinctly undulatory character at intervals, but seldom exceeding 50Y in H and 15Y in Z. These conditions prevailed until 23^d 0^h when a pronounced diminution of unsteadiness was apparent for about three days. During 26th, however, there was a resumption of the characteristic irregularity, which on 30th and 31st was as great as before.

The range in declination during the month was from 10° 1'.7 on 5th to 10° 28'.1 on 18th; in horizontal intensity, from .18456 on 6th to .18676 on 9th; in vertical intensity, from .43135 on 3rd to .43221 on 9th.

August. During the first ten days of the month the traces showed a condition of almost continuous magnetic disturbance. The disturbance was generally irregular in character but some periods of more or less regular undulation occurred. Such were 1^d 16^h to 2^d 3^h; 2^d 19^h to 3^d 0^h; 4^d 18^h to 4^d 23^h; 5^d 12^h to 5^d 23^h. Individual movements occasionally approached 100Y in H and 15' in D, but were mostly much smaller. From about 8^d 12^h the amplitude of the movements increased rapidly until activity reached the dimensions of a "storm". The most notable feature was the increase in Z which amounted to 120Y in the interval 8^d 12^h to 15¹₂^h. Subsequently a fluctuating decrease set in from 17¹₂^h and by 9^d 0¹₂^h there had been a diminution of 200Y. Steep waves in H occurred at 8^d 17^h 40^m (+100Y) and at 9^d 0⁴₂^h (-130Y). Prominent movements in D are shown at 8^d 15¹₂^h (19' E); 8^d 21^h (20' E); 8^d 23^h-24^h (21' E). The disturbance quickly subsided after 9^d 4^h. Conditions remained rather unsteady during 10th, 11th and 12th, and towards the end of 12th, activity again became considerable. Throughout 13th a state of mild disturbance existed, numerous small oscillations, particularly in H, being interspersed with occasional larger movements, some of which exceeded 50Y. This condition persisted with little abatement until the end of 20th. Specially prominent peaks in H occurred at 14^d 20^h (+120Y) and at 16^d 11^h (-75Y). From 19^d 14^h to 20^d 6^h disturbance again reached the dimensions of a small storm, there being several bays in D approaching 15' accompanied by corresponding movements in H of similar magnitude (about 75Y). The principal instances were at 15¹₂^h, 18^h and 20¹₂^h on 19th and 0¹₂^h on 20th. There was, in addition, a range of 90Y in Z. Between 21^d 6^h and 22^d 12^h only small irregularities are shown. The amplitude of the movements then increased once more, though they did not attain the dimensions reached on 20th. The largest movements in the interval 22^d 12^h to 27^d 0^h were a wave in D at 24^d 6^h (15' W) and a rapid decrease in H (75Y) at 26^d 5¹₂^h to 7^h. From 27^d 0^h to 28^d 10^h conditions were relatively quiet. At 28^d 12^h 57^m an abrupt movement occurred in all traces. The increase in both vertical and horizontal components (20Y and 90Y respectively) persisted for thirty-five minutes and then suddenly relapsed. Many irregular oscillations succeeded the first, particularly in H, but none exceeded the initial movement in magnitude except that which occurred in Z at 28^d 21¹₂^h, (-40Y) and those in D which followed, between 21¹₂^h and 24^h, (18' E and 12' W). Irregular movements continued at intervals during 29th, on which day there was a range of 31' in D. At

$30^d 1^h 40^m$ movements occurred which proved to be preliminary to the onset of a relatively severe storm. The full intensity was not reached until $30^d 20^h$. From that time until $31^d 22^h$ a succession of steep waves occurred in the traces of H and D at nearly regular intervals of about one and three quarter hours. The average amplitude in H was 150Y and in D 25'. A general decrease in Z amounting to rather more than 200Y was recorded from $30^d 15^h$ to $31^d 5^h$, after which a recovery took place, the final intensity, reached at $31^d 16^h$, being 250Y greater than that at $31^d 5^h$. The storm was virtually over by $31^d 24^h$. It comprised a range of 315Y in H, 256Y in Z and 48' in D. The traces are reproduced in the accompanying plates.

The range in declination during the month was from $9^{\circ} 50' .6$ on 30th to $10^{\circ} 38' .1$ on 31st; in horizontal intensity, from .18350 on 31st to .18668 on 14th; in vertical intensity, from .43037 to .43293 both on 31st.

September. During the first five days the traces were constantly affected by irregular variations, many of considerable magnitude. In H, movements approaching 100Y in range occurred at $1^d 17\frac{1}{2}^h$, $3^d 15^h$, $3^d 21^h$, while over the same interval there were several waves in D just exceeding 10', the most conspicuous being a wave (11' W) at $2^d 2^h - 4^h$. On 6th and 7th the irregularities were smaller, but still almost continuous. From $8^d 17^h$ they increased to the dimensions of moderate disturbance. A wave, 25' E in D at $8^d 18^h$ was followed at 21^h by another (20' E) movements of -100Y in H occurred at $8^d 18^h$ and $9^d 0\frac{1}{2}^h$. Z at first increased 50Y and then, from $8^d 18\frac{1}{2}^h$, suffered a fluctuating decrease of 70Y by $9^d 1\frac{1}{2}^h$. The disturbance continued with varying intensity and but little intermission until $17^d 0^h$, when a short period of relative quiet supervened. Many irregular movements exceeded 50Y in H and 10' in D during the disturbance, while the diurnal range in Z exceeded 40Y on six successive days, 8th to 13th. The state of general unsteadiness re-appeared at $18^d 21^h$, beginning with a prominent wave in all traces. The subsequent irregularities were not numerous at first, but steadily increased in frequency and magnitude on 21st. After 22nd there was a decline which prevailed until $26^d 12^h$. From then until the end of the month the traces were constantly affected by relatively large irregular changes in the field, having the character of a moderate storm. Many movements in H were of the order of 100Y; some in D exceeded 15'; the maximum diurnal range in Z was 105Y, which occurred during 29th. In general, the disturbance was most active between the hours 18^h and 2^h each day and subsided to some extent during daylight.

The range in declination during the month was from $9^{\circ} 47' .6$ on 29th to $10^{\circ} 26' .8$ on 1st; in horizontal intensity, from .18411 on 30th to .18648 on 9th; in vertical intensity, from .43130 on 10th to .43248 on 29th.

October. The highly disturbed character of the field existing towards the end of September continued during the first three days of October, though somewhat diminished. There were still occasional waves exceeding 100Y in H and 15' in D. After $4^d 0^h$, however, movements became few and unimportant. The period from $6^d 6^h$ to $7^d 1^h$ was quiet. Activity was then resumed, and by $8^d 12^h$ had reached the scale of the first days of the month. From $10^d 0^h$ movements were again small, with the exception of a prominent wave in each trace at $10^d 16\frac{1}{2}^h$, (20' E in D), but continued numerous, especially on 12th, until $13^d 4^h$, after which they practically ceased, the period from $13^d 4^h$ to $16^d 21^h$ being nearly quiet. Small irregularities appeared on the traces at intervals during the next few days. A disturbance seemed about to develop at $20^d 17^h$, but was confined to one prominent wave at $18\frac{1}{2}^h$ and a few irregularities without significance, which had ceased by $21^d 4^h$. The second disturbed period of the month began with a small abrupt movement in H at $22^d 8^h 1^m$. Though several waves approaching 15' in D and 100Y in H appeared on the traces during 22nd, the disturbance was not fully developed until about 10^h on 24th. As in the case of the September disturbance, activity continued with little abatement for at least seven days. Movements were sometimes oscillatory but in general very irregular. Their magnitude ranged up to 25' in D (at $27^d 21^h$ to 28^h) and 150Y in H (at $29^d 18\frac{1}{2}^h$ to 19^h). The largest diurnal range in Z was 105Y (on 26th). The intensity of the disturbance diminished somewhat after $30^d 0^h$, prominent movements becoming markedly fewer in number, though small movements were still frequent.

The range in declination during the month was from $9^{\circ} 49' .9$ on 2nd to $10^{\circ} 30' .0$ on 26th; in horizontal intensity, from .18441 on 3rd to .18647 on 29th; in vertical intensity, from .43130 on 2nd to .43245 on 26th.

November. The disturbance which was in progress during the last week of October reached its concluding stages on 1st. From $2^d\ 0^h$ to $6^d\ 16^h$ only small irregularities appeared on the traces. On 5th, however, these became numerous and exhibited a decidedly oscillatory character, especially in H. At $6^d\ 16^h$ a brisk disturbance developed lasting until $7^d\ 3^h$. The most prominent feature was a wave in D (35' E) at $17\frac{1}{2}^h$, which was accompanied by a wave in H (-140Y). There was also a range of 75Y in Z during this short disturbance. A relatively quiet period then began which extended to 19^d . On several days, however, the traces were temporarily irregular, the most noticeable occasions being $8^d\ 18^h$ to $9^d\ 8^h$, $10^d\ 19^h$ to 24^h , $13^d\ 19^h$ to $14^d\ 6^h$ and $16^d\ 2^h$ to $17^d\ 0^h$. On the second of these, D showed an easterly bay of 12' between $10^d\ 19\frac{1}{2}^h$ and $20\frac{3}{4}^h$. From $19^d\ 3^h$ conditions rapidly became disturbed and until the end of 29th a state of very considerable activity existed resembling closely that prevailing at the end of each of the two preceding months. By comparison, activity was if anything rather more continuous and was certainly more prolonged, since disturbance persisted with scarcely any intermission for the exceptional period of eleven days. Among the many features of the traces only the outstanding ones will be mentioned. There were large waves in H centred at $19^d\ 12^h$ (-100Y); $19^d\ 23\frac{1}{2}^h$ (+140Y); a succession of four $23^d\ 17^h$ to $22\frac{1}{2}^h$ (average +100Y); $25^d\ 17\frac{1}{2}^h$ (+110Y); $25^d\ 19\frac{1}{2}^h$ (+120Y) and $27^d\ 4\frac{1}{2}^h$ (+110Y). Waves in D exceeding 20' occurred at $20^d\ 16\frac{1}{2}^h$ (24' E); $20^d\ 20^h$ (21' E); $22^d\ 16\frac{3}{4}^h$ (21' E); $24^d\ 18\frac{1}{4}^h$ (21' E); $25^d\ 19^h$ (24' E); $26^d\ 20\frac{3}{4}^h$ (21' W); also a succession of six waves averaging 15' between $23^d\ 15\frac{1}{2}^h$ and $22\frac{1}{2}^h$. The diurnal range of Z exceeded 50Y on every day from 19th to 27th, except 22nd; the maximum range being 105Y which occurred between $26^d\ 15^h\ 10^m$ and $27^d\ 0^h\ 10^m$, a period of nine hours, which period is considered to have been the climax of the disturbance. Activity ceased abruptly at $29^d\ 22^h$ and the conditions were practically quiet for the remainder of the month.

The range in declination during the month was from $9^{\circ}\ 44'.5$ on 25th to $10^{\circ}\ 23'.6$ on 27th; in horizontal intensity, from .18430 to .18668, both on 19th; in vertical intensity, from .43138 on 27th to .43243 on 26th.

December. After about twelve hours of quiet, irregular movements began to appear on the traces at $1^d\ 13^h$. These became numerous during 2^d and at $2^d\ 16\frac{1}{2}^h$ there was a prominent wave in H (-70Y) followed, at $2^d\ 20^h$, by a wave in D (20' E). General unsteadiness (reaching the dimensions of a mild disturbance between $3^d\ 14^h$ and $4^d\ 4^h$) prevailed until $5^d\ 16^h$, after which conditions became nearly quiet until $9^d\ 2^h$. In the succeeding period there were a few minor irregularities, the chief of which was a wave in H (+40Y) at $10^d\ 0\frac{1}{2}^h$, but, in general, quiet conditions continued to prevail until $15^d\ 20^h$. Signs of coming activity then appeared, the first being a wave in D (10' E) at $15^d\ 21^h$. From $16^d\ 8^h$ to $24^d\ 6^h$ a state of almost continuous disturbance existed which reached a maximum between $16^d\ 12^h$ and $17^d\ 6^h$ and again between $20^d\ 10^h$ and $21^d\ 2^h$. Prominent features in H were the initial decrease of 100Y at $16^d\ 8\frac{1}{2}^h$ to $0\frac{1}{2}^h$; a second decrease of the same amount from $16^d\ 11\frac{3}{4}^h$ to $13^h\ 2^m$ of which 45Y occurred in the last three minutes; a sharp wave at $17^d\ 16\frac{1}{2}^h$ (-100Y) and a steep wave at $21^d\ 0^h$ (+90Y). A particularly prominent wave in the D trace appeared between $19^d\ 16\frac{1}{2}^h$ and $19\frac{3}{4}^h$ (35' E) and there was a somewhat similar movement between $21^d\ 18\frac{1}{2}^h$ and $21\frac{1}{4}^h$ (25' E); while movements up to 15' were fairly numerous. By comparison the Z traces were but little disturbed, the largest diurnal range being only 60Y. Activity steadily declined after $22^d\ 0^h$. During the period $24^d\ 12^h$ to $26^d\ 12^h$ occasional unsteadiness occurred and from $26^d\ 15^h$ to 22^h there was a brief resumption of activity comprising a wave in D (15' E) at $26^d\ 16\frac{1}{2}^h$ with a corresponding movement in H (-70Y). The general character thereafter, until the last hours of the month, was quiet, though short spells of unsteadiness occurred at intervals. From $31^d\ 14^h$ to 24^h there was some activity, the principal features of which were an easterly bay in D amounting, at 23^h , to 20' and a decrease of 45Y in Z.

The range in declination during the month was from $9^{\circ}\ 38'.0$ on 19th to $10^{\circ}\ 24'.9$ on 16th; in horizontal intensity, from .18446 on 19th to .18624 on 20th; in vertical intensity, from .43164 on 20th to .43233 on 16th.

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

Declination West $10^{\circ}\ 38'.1$ on August 31; $9^{\circ}\ 38'.0$ on December 19
 Horizontal Intensity .18685 on May 17; .18350 on August 31
 Vertical Intensity .43293 on August 31; .43037 on August 31

1943

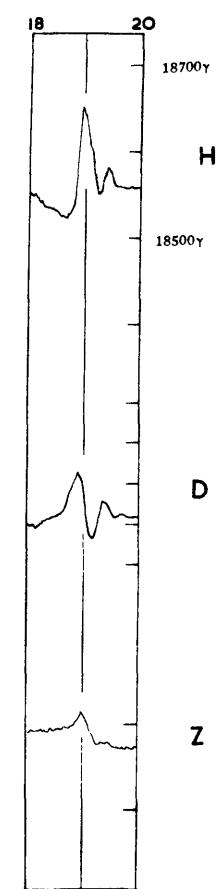
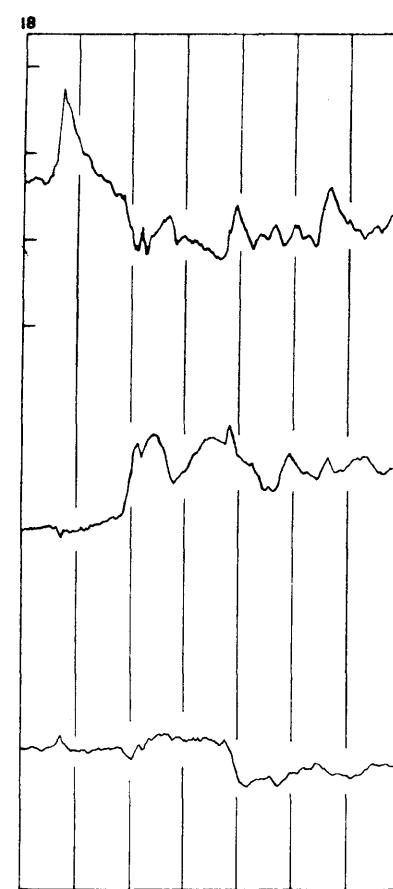
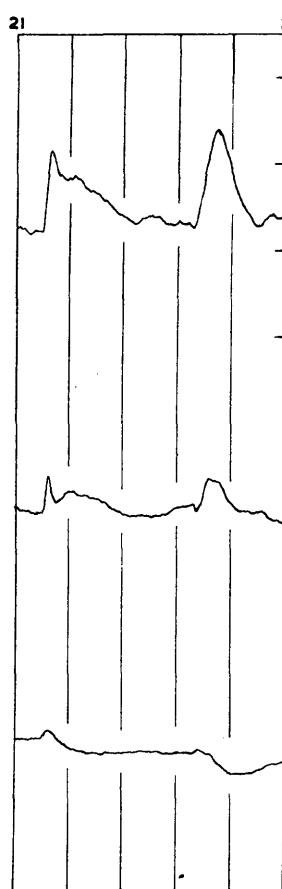
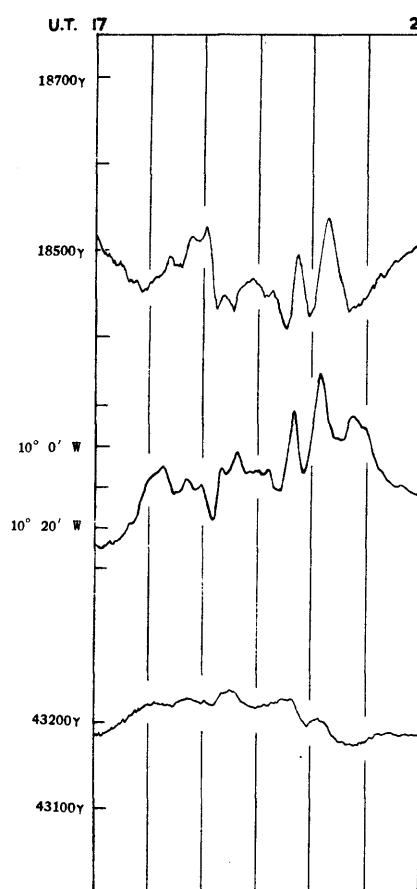
JANUARY 20

JANUARY 21-22

MARCH 29-30

APRIL 4

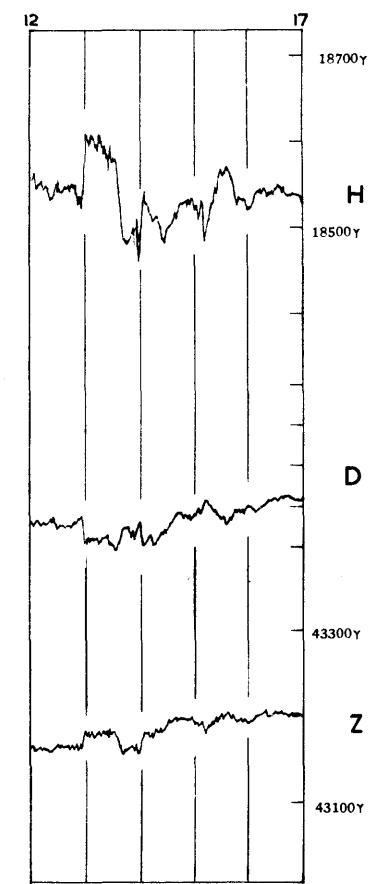
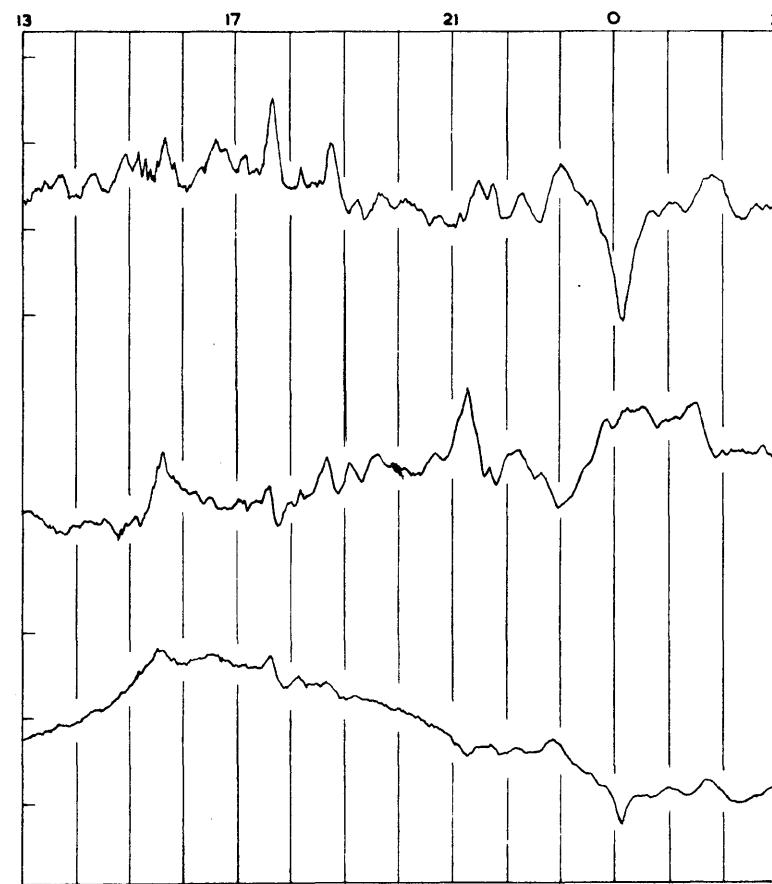
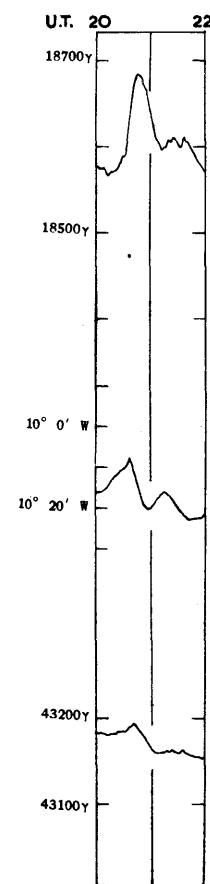
Plate I



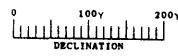
MAY 17

AUGUST 8-9

AUGUST 28



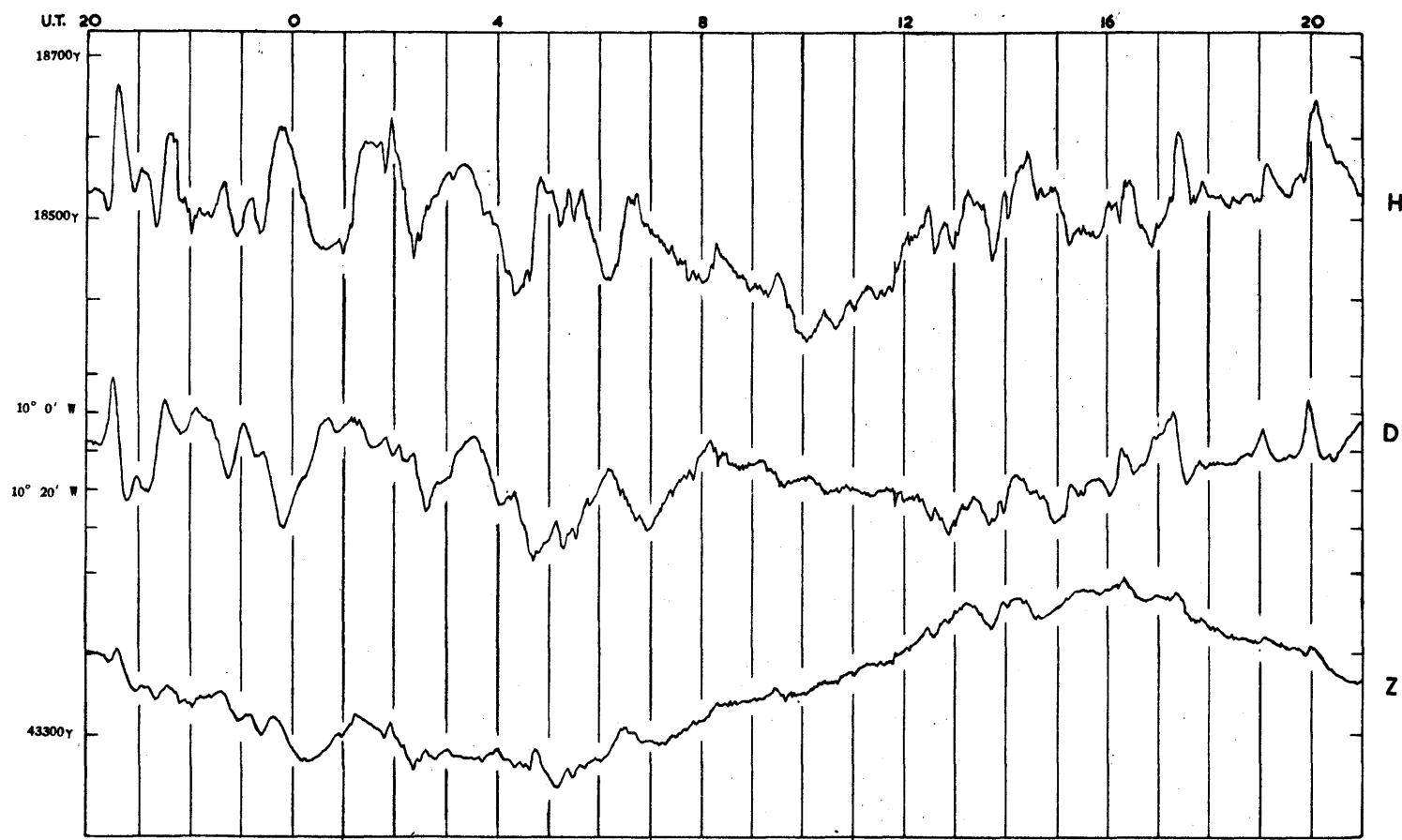
SCALES FOR THE MAGNETIC ELEMENTS



1943

AUGUST 30-31

Plate II

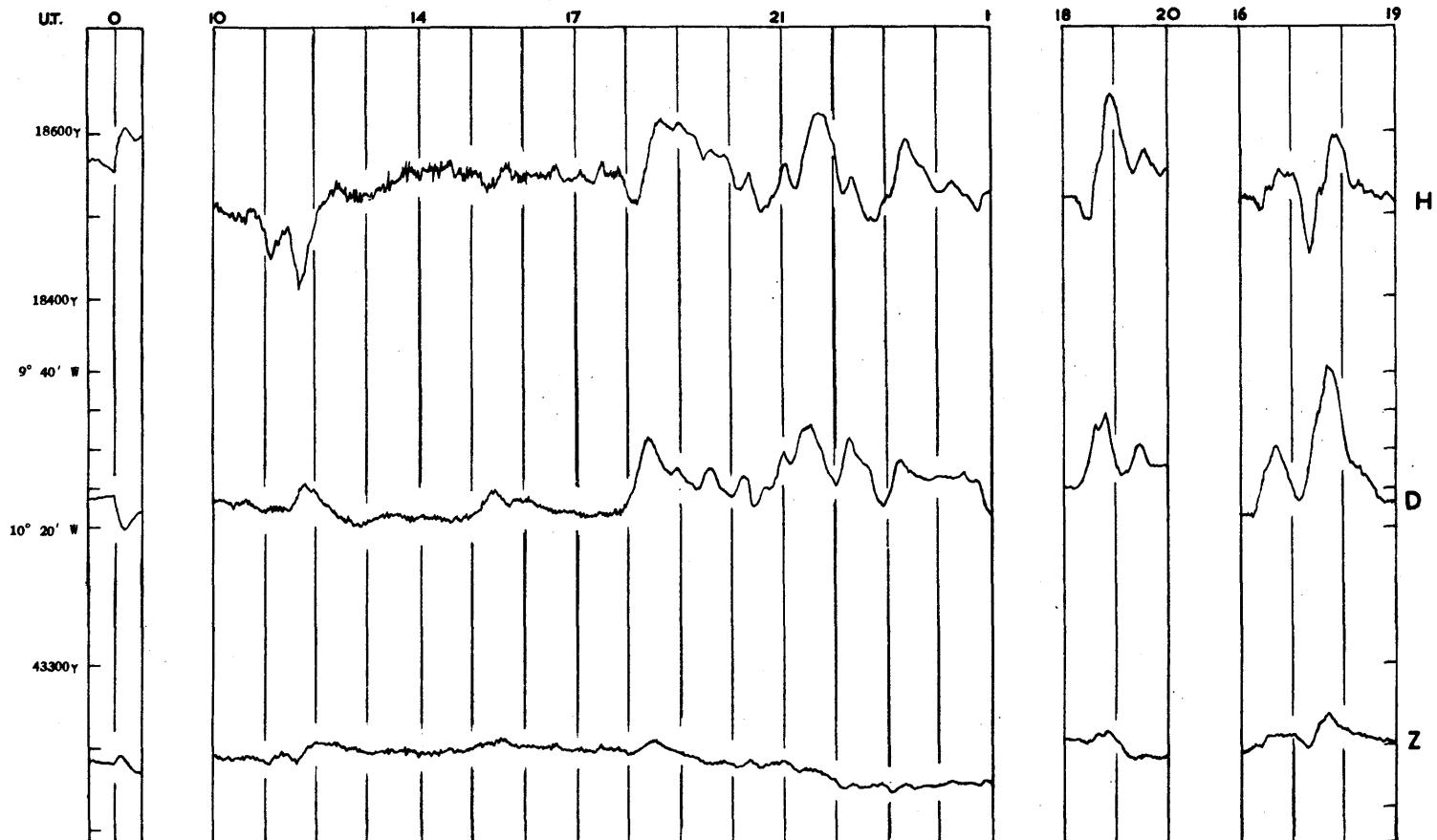


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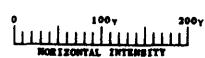
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OCT. 29

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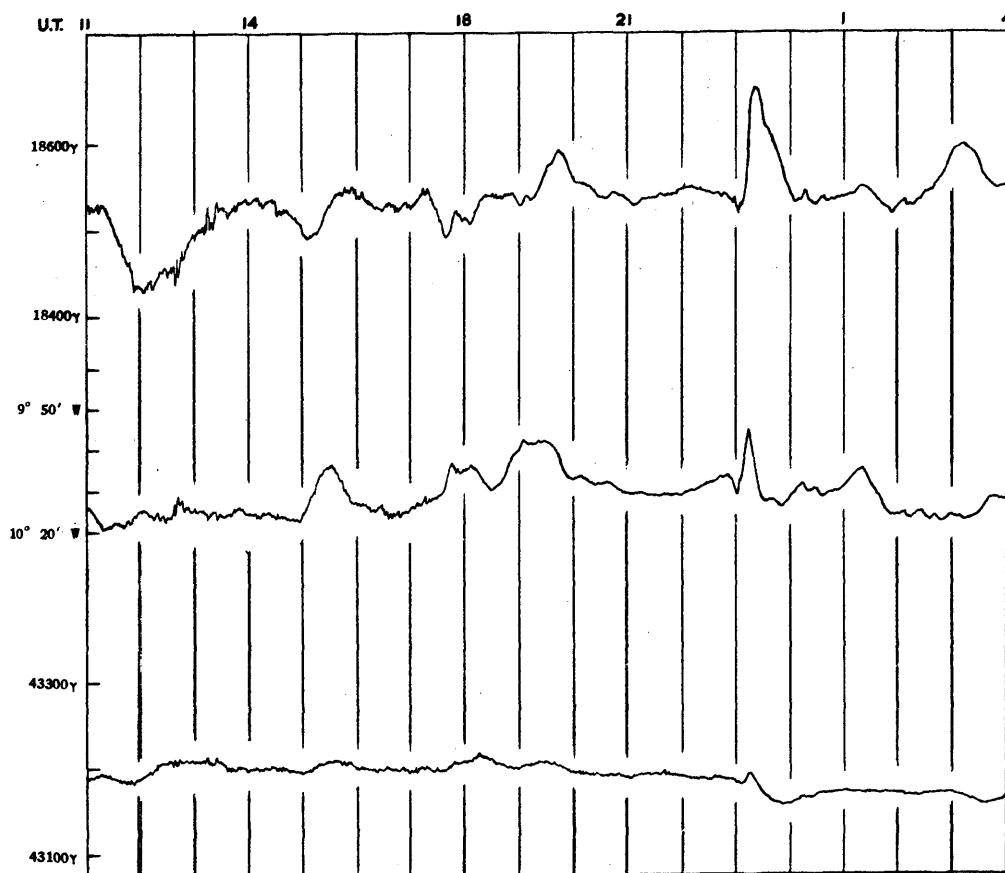
SCALES FOR THE MAGNETIC ELEMENTS



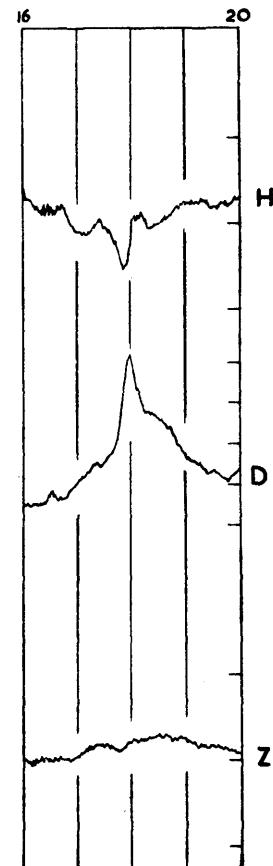
1943

Plate III

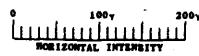
NOVEMBER 19-20



DECEMBER 19



SCALES FOR THE MAGNETIC ELEMENTS



ROYAL OBSERVATORY, GREENWICH.

**Results of
Meteorological Observations**

1943

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	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				Of the Earth 4 ft. below the Surface of the Soil	Highest in Sun's Rays	Lowest on the Grass	Degree of Humidity (Saturation = 100)					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values			Mean	Greatest	Least										
Jan.	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours		
1	29.222	49.6	39.2	10.4	44.0	+ 5.4	42.2	39.9	4.1	8.5	1.1	85	52.4	32.7	46.6	0.203	0.0	7.9		
2	29.417	42.8	34.8	8.0	38.5	+ 0.1	35.7	31.0	7.5	9.4	5.7	74	49.6	27.0	46.3	0.009	0.6	7.9		
3	29.761	38.8	30.6	8.2	34.7	- 3.6	31.9	27.0	7.7	10.3	2.6	72	55.4	24.1	46.1	0.000	3.5	7.9		
4	29.787	34.4	28.2	6.2	31.1	- 7.2	29.3	26.2	4.9	12.1	1.5	80	45.3	19.9	46.0	0.000	0.4	8.0		
5	29.714	36.6	30.6	6.0	33.0	- 5.2	31.6	29.5	3.5	7.1	2.3	86	51.0	27.1	45.6	0.000	0.0	8.0		
6	29.614	40.3	33.8	6.5	37.3	- 0.8	36.6	35.5	1.8	3.2	0.0	93	41.3	32.5	45.4	0.730	0.0	8.0		
7	29.569	40.2	34.0	6.2	37.6	- 0.4	37.2	36.7	0.9	1.7	0.0	96	38.9	33.0	45.1	0.243	0.0	8.0		
8	29.873	37.3	25.8	11.5	32.0	- 5.9	30.9	29.0	3.0	6.5	0.9	88	...	16.1	44.9	0.000	2.6	8.1		
9	29.945	32.7	26.2	6.5	29.9	- 8.0	28.4	25.7	4.2	5.6	1.9	82	50.0	16.3	44.6	0.000	0.7	8.1		
10	29.582	43.1	31.7	11.4	37.8	- 0.1	37.1	36.0	1.8	3.8	0.0	93	45.6	28.2	44.3	0.271	0.0	8.1		
11	29.213	51.5	40.3	11.2	44.7	+ 6.8	42.7	40.1	4.6	10.4	0.7	84	74.0	38.2	44.4	0.101	2.3	8.2		
12	28.809	47.2	42.4	4.8	45.4	+ 7.5	44.0	42.2	3.2	7.0	1.1	89	52.2	37.3	44.2	0.139	0.0	8.2		
13	29.136	49.4	39.9	9.5	44.1	+ 6.1	41.7	38.5	5.6	10.9	2.6	80	70.3	31.6	44.1	0.108	4.8	8.2		
14	28.967	43.6	36.0	7.6	40.8	+ 2.8	38.6	35.3	5.5	9.3	2.3	80	54.3	29.1	44.1	0.750	2.1	8.3		
15	29.533	46.0	36.0	10.0	40.7	+ 2.6	38.5	35.2	5.5	9.7	2.5	80	52.2	29.1	44.1	0.017	1.0	8.3		
16	29.726	47.4	33.1	14.3	41.8	+ 3.5	40.7	39.3	2.5	4.9	0.8	90	54.4	27.0	44.1	0.017	0.0	8.3		
17	29.560	45.1	38.6	6.5	41.6	+ 3.1	39.5	36.4	5.2	7.7	2.8	82	51.7	33.6	44.1	0.000	0.1	8.4		
18	29.614	46.9	34.2	12.7	41.3	+ 2.7	40.3	39.1	2.2	3.9	0.0	91	56.5	27.7	44.1	0.003	0.0	8.4		
19	29.593	50.2	42.9	7.3	45.8	+ 7.1	45.2	44.4	1.4	3.2	0.6	95	60.7	36.2	44.1	0.043	0.2	8.5		
20	29.472	52.2	46.4	5.8	49.0	+ 10.2	47.0	44.8	4.2	6.9	1.8	85	75.8	37.1	44.2	0.182	0.3	8.5		
21	29.462	53.4	46.3	7.1	49.1	+ 10.3	47.0	44.7	4.4	8.4	1.4	85	86.1	38.7	44.4	0.088	4.6	8.5		
22	29.453	54.9	47.2	7.7	50.4	+ 11.6	48.5	46.4	4.0	9.2	0.9	87	75.2	42.8	44.6	0.087	1.0	8.6		
23	29.801	50.7	33.8	16.9	44.9	+ 6.0	42.7	39.7	5.2	10.0	0.8	82	65.6	27.7	44.7	0.000	1.1	8.7		
24	30.179	48.1	29.4	18.7	37.8	- 1.1	36.6	34.7	3.1	8.0	0.0	89	70.1	23.3	44.6	0.000	4.0	8.7		
25	29.969	45.1	41.2	3.9	42.9	+ 3.8	41.2	38.8	4.1	6.2	0.8	85	57.3	37.4	44.8	0.121	0.4	8.8		
26	30.025	51.1	40.5	10.6	45.1	+ 5.8	43.2	40.7	4.4	9.1	1.9	85	80.3	33.0	44.0	0.000	3.5	8.8		
27	30.083	49.3	41.6	7.7	45.5	+ 6.0	43.5	40.9	4.6	9.2	1.5	84	71.9	34.8	44.8	0.000	0.2	8.9		
28	29.772	52.2	47.5	4.7	49.8	+ 10.2	48.4	46.9	2.9	5.0	2.0	90	63.6	43.8	45.0	0.083	0.0	8.9		
29	29.437	54.8	46.3	8.5	49.2	+ 9.5	46.7	43.9	5.3	9.8	2.4	82	92.1	38.3	44.9	0.000	6.3	9.0		
30	29.132	50.6	38.4	12.2	45.6	+ 5.9	43.0	39.6	6.0	13.7	0.9	80	84.3	32.7	45.0	0.608	2.6	9.0		
31	29.013	52.5	37.5	15.0	46.9	+ 7.2	45.4	43.6	3.3	6.8	1.6	88	54.4	31.8	45.1	0.585	0.0	9.1		
Means	29.562	46.4	37.2	9.1	41.9	+ 3.3	40.2	37.8	4.1	7.7	1.5	85.2	61.1	31.2	44.8	Sum 4.388	1.4	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 of the Air and Evaporation by means of Hygrometrical Tables, published by the Meteorological Office, Air Ministry. The mean of the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the 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 29.562 in., being 0.239 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 54°.9 on January 22; the lowest in the month was 25°.8 on January 8; and the range was 29°.1.

The mean of all the highest daily readings in the month was 46°.4, being 3°.3 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 37°.2, being 3°.0 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 9°.1, being 0°.2 greater than the average for the 65 years, 1841-1905.

The mean for the month was 41°.9, being 3°.3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER						
	Polaris		δ URSAE MINORIS		OSLER'S				Robinson's						
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
	A.M.	P.M.			Greatest	Mean of 24 Hourly Measures									
Jan. 1	hours	hours	hours	0.38	5.2	0.37	WSW: SW	SW: W: NWW	lbs.	lbs.	miles	c r	r 1do St Frst Nbst m _o	c Nbst ir c	c 3
2	11.1	0.81	10.7	0.78	NWW: NW: NWW	NWW: NW	17.0	1.31	484	496	b m c Stcu Nbst	b m c	b m	bc b	
3	13.1	0.95	9.4	0.69	NW: NW	NW: W	9.2	1.25	299	299	b x	b zo	b zo c	c b m	
4	0.0	0.00	0.0	0.00	NNW	Calm	2.3	0.31	145	145	c Acu Cist so-ha trhn x m	c f x	c f x	bc c	
5	..	..	..	..	Calm: SE	Calm	0.6	0.03	120	120	c m so	c Stcu St	c St Cist Stcu bc	bc c
6	0.0	0.00	0.0	0.00	SSE	SSE: Calm	0.2	0.00	120	120	c rr	rr Nbst	rr	rr ro	
7	5.1	0.37	5.1	0.37	Calm: NE	NNE	1.4	0.13	210	210	rr rr m _f	do df F	F ddo f m	do d c	
8	13.7	1.00	13.7	1.00	NNE: Calm	Calm	1.2	0.07	198	198	c b	b fx	b bc b m _x	b m x	
9	3.3	0.25	3.2	0.24	SE: SSE	SSE: SE	1.1	0.04	143	143	b m x	c Ci Cicu Ast so-ha m _o	bc Ast Cicu b	b c	
10	0.0	0.00	0.0	0.00	SE: Calm	SW: S: SE	2.0	0.20	259	259	c rsrr f	c St ff	c St ff	c f c	
11	0.8	0.06	0.4	0.03	SE: S	SSW: S	1.2	0.05	157	157	c rr	rr c St Frst bc Acu	bc c Ci Cicu Prcu	c	
12	7.3	0.54	7.1	0.53	S: SSE	SSE: W	2.7	0.45	320	320	c r c	c Frst ro 1do	c St 1do	rr ro c	
13	0.0	0.00	0.0	0.00	WSW	SW: S: SE	6.5	0.72	355	355	b c p _o	b Ci	b c Ci Prcu	c Ast rr	
14	8.1	0.60	7.9	0.58	NE: N	NE: N	1.4	0.16	258	258	b c p _m	c b c b Prcu	c bc Acu Stcu St b	b lu-ha	
15	10.8	0.80	10.6	0.78	NNW: WSW	WSW: W	8.5	1.08	490	490	c Stcu Frst 1ro	c bc Acu Stcu St b	c bc Acu Stcu St b	rr c	
16	..	..	..	..	SW: S	SSW: S	1.7	0.16	290	290	b c b c	c Frst Stcu ir	c Frst Stcu	c rr ro
17	4.8	0.36	2.7	0.20	S: SSE	S: Calm	1.9	0.15	258	258	c	c Nbst Acu	c Acu Ci	ror c	
18	0.7	0.06	0.0	0.00	Calm	Calm	2.0	0.19	215	215	c	c Stcu m _o	c m _o	b m	
19	1.3	0.10	0.4	0.03	SSE: S	SSE: S	0.0	0.00	102	102	c f	c St ro m _o	c iro m _o	c do c	
20	4.5	0.34	4.0	0.30	S: SSE	SSW	0.3	0.01	122	122	c	c Ci Acu Stcu	c iro c lu-ha	rr c	
21	0.1	0.01	0.0	0.00	SW	SW: Calm	2.0	0.27	269	269	c b c b	b bc Ci Acu Prcu	bc so-ha c St	c b	
22	0.2	0.02	0.2	0.02	S: SSW	SSW: SW	2.4	0.13	235	235	c	c Acu Cicu bc Frst Ci	bc c Stcu Frst ro	rr c	
23	13.0	1.00	13.0	1.00	SW: NNW	NNW: Calm	3.6	0.13	208	208	c m _o	c Ci Frst ro c	c bc Stcu m _o	b m	
24	4.1	0.32	3.5	0.27	Calm	S: SSW	1.6	0.05	166	166	b m fe x	bc Ci x f	f b	c do c	
25	7.5	0.58	5.8	0.44	SSW: SSW	SSW: WSW	4.8	0.56	347	347	c	bc Ci Acu c St	c rr	rr c	
26	10.7	0.82	8.0	0.62	WSW: W	WSW	3.0	0.20	318	318	c b m	b bc Ci m _o	c so-ha	c b	
27	0.1	0.01	0.1	0.01	WSW	WSW: SW	3.5	0.25	315	315	c	bc w m c Ast Frst m _o	c Frst Ci Stcu	c d r c q	
28	0.3	0.02	0.3	0.02	SW	SW: SSW	7.6	0.96	464	464	c	c Frst Stcu	c Nbst dd r	bc c ir	
29	2.4	0.19	1.4	0.11	SSW: SW	SSW: S	8.7	0.79	409	409	c q c	c b Frst bc	bc	b c rr	
30	4.3	0.34	4.1	0.33	SSW: SW	SW	16.5	1.33	522	522	c rr c	c Frst bc h p t lq Ast	c Ci Prcu Cum b trhn po q b	rr rc	
31	0.7	0.05	0.5	0.04	SSW: SW	SSW	32.0	3.60	661	661	c	rr q gale	ir Nbst rr gale	31	
Means	4.6	0.34	4.0	0.30	..	..	0.48	294						
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31		

The mean Temperature of Evaporation for the month was 40°.2, being 3°.0 higher than

The mean Temperature of the Dew Point for the month was 37°.8, being 2°.7 higher than

The mean Degree of Humidity for the month was 85.2, being 1.6 less than

The mean Elastic Force of Vapour for the month was 0.227 in., being 0.022 in. greater than

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

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.163. The maximum daily amount of Sunshine was 6.3 hours on January 29.

The highest reading of the Solar Radiation Thermometer was 92°.1 on January 29; and the lowest reading of the Terrestrial Radiation Thermometer was 16°.1 on January 8.

The Proportions of Wind referred to the cardinal points were N. 9, E. 8, S. 40, W. 25, calm or nearly calm conditions 18, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 32.0 lbs. on the square foot on January 31. The mean daily Horizontal Movement of the Air for the month was 294 miles; the greatest daily value was 661 miles on January 31 and the least daily value was 102 miles on January 18.

Rain (0.005 in. or over) fell on 19 days in the month, amounting to 4.388 in., as measured by gauge No. 6 partly sunk below the ground; being 2.507 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 1943	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			Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass	Surface of the Soil						
Feb. 1	in.	29.146	50.5	41.5	9.0	45.7	o	o	o	o	80	86.9	35.9	45.2	0.840	1.6	9.1			
2		29.400	48.3	37.4	10.9	43.2	+ 3.7	40.4	36.4	6.8	77	88.3	28.2	45.3	0.000	4.4	9.2			
3		29.679	46.0	37.2	8.8	41.6	+ 2.1	38.7	34.1	7.5	75	78.3	30.6	45.3	0.022	5.8	9.3			
4		29.950	45.0	33.8	11.2	39.3	- 0.2	37.3	34.2	5.1	82	54.9	27.2	45.1	0.000	1.8	9.3			
5		29.998	49.1	34.0	15.1	43.5	+ 3.9	41.5	38.8	4.7	84	58.2	27.4	45.1	0.033	0.0	9.3			
6		29.640	49.4	38.9	10.5	46.4	+ 6.8	43.8	40.6	5.8	10.5	80	59.1	29.0	44.9	0.114	0.8	9.4		
7		29.971	43.9	28.8	15.1	37.8	- 1.7	35.5	31.6	6.2	78	90.4	22.0	44.8	0.000	2.5	9.5			
8		30.041	42.4	25.0	17.4	35.6	- 3.7	33.1	28.7	6.9	75	66.3	18.1	44.7	0.000	0.0	9.6			
9		29.249	43.2	38.1	5.1	41.5	+ 2.4	39.6	36.9	4.6	83	47.0	34.7	44.6	0.439	0.0	9.6			
10		29.524	47.2	39.3	7.9	42.9	+ 4.0	41.0	38.3	4.6	84	65.1	32.4	44.6	0.172	0.1	9.6			
11		29.849	54.8	45.0	9.8	49.1	+ 10.3	46.5	43.6	5.5	7.6	81	86.3	37.8	44.5	0.000	0.6	9.7		
12		29.874	53.6	44.0	9.6	49.5	+ 10.7	46.0	41.8	7.7	15.1	75	70.9	36.0	44.5	0.007	0.2	9.8		
13		30.086	49.2	40.7	8.5	45.0	+ 6.0	39.9	32.0	13.0	18.3	60	91.0	32.6	44.5	0.000	5.8	9.8		
14		29.972	54.7	43.3	11.4	48.5	+ 9.2	45.5	41.8	6.7	8.1	77	71.9	36.9	44.6	0.000	0.6	9.9		
15		29.687	49.6	39.8	9.8	45.3	+ 5.9	41.1	35.0	10.3	17.8	5.8	67	93.0	33.3	44.6	0.051	4.9	10.0	
16		30.132	46.3	35.9	10.4	40.8	+ 1.3	36.3	28.6	12.2	15.6	6.3	61	85.9	29.4	44.6	0.000	5.9	10.0	
17		30.421	44.1	29.9	14.2	39.2	- 0.4	36.2	31.0	8.2	13.7	1.2	73	73.7	22.7	44.6	0.000	0.6	10.1	
18		30.443	55.7	35.6	20.1	46.3	+ 6.8	43.4	39.7	6.6	16.1	1.6	78	94.1	27.8	44.7	0.000	4.5	10.1	
19		30.453	54.8	31.3	23.5	42.1	+ 2.6	39.6	35.9	6.2	14.8	0.8	79	91.2	23.5	44.6	0.000	6.6	10.2	
20		30.424	45.8	33.8	12.0	41.3	+ 1.8	40.4	39.3	2.0	3.9	0.8	92	48.5	25.3	44.4	0.000	0.0	10.3	
21		30.389	45.0	32.1	12.9	39.8	+ 0.2	38.9	37.5	2.3	4.4	0.0	92	53.0	24.3	44.4	0.000	0.0	10.3	
22		30.243	38.2	34.6	3.6	36.9	- 2.8	36.0	34.4	2.5	3.3	1.5	91	43.1	35.4	44.3	0.000	0.0	10.4	
23		30.208	38.7	36.4	2.3	37.5	- 2.3	36.3	34.4	3.1	4.6	2.2	89	42.9	36.2	44.2	0.000	0.0	10.5	
24		30.191	54.4	32.5	21.9	42.5	+ 2.5	40.0	36.3	6.2	12.8	1.0	79	88.1	24.6	44.4	0.000	7.0	10.5	
25		30.062	53.4	33.4	20.0	42.3	+ 2.2	40.3	37.4	4.9	14.7	0.0	83	105.9	24.6	44.3	0.070	2.3	10.6	
26		30.329	49.0	34.0	15.0	41.9	+ 1.7	38.6	33.5	8.4	18.7	1.2	72	88.3	28.6	44.2	0.000	7.4	10.7	
27		30.492	50.6	31.5	19.1	40.6	+ 0.3	38.1	34.2	6.4	13.5	0.0	78	77.6	24.6	44.2	0.000	4.1	10.7	
28		30.489	48.4	31.0	17.4	41.5	+ 1.2	38.8	34.6	6.9	12.0	0.6	77	75.9	24.3	44.1	0.000	1.1	10.8	
Means		30.012	48.3	35.7	12.6	42.4	+ 2.9	39.9	36.1	6.3	11.4	2.1	78.6	74.1	29.1	44.6	1.748	2.5	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 Air and Evaporation by means of Hygrometrical Tables, published by the Meteorological Office, Air Ministry. The mean the difference between the Air and Dew Point Temperatures (Column 9) is the difference between the numbers in Columns 5 and 8, and the Greatest and Least Differences (Columns 10 and 11) are deduced from the 24 hourly autographic measures of the Dry-bulb and Wet-bulb Thermometers. The readings in Column 15 are taken daily at noon.

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

The mean reading of the Barometer for the month was 30.012 in., being 0.203 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 55°.7 on February 18; the lowest in the month was 25°.0 on February 8; and the range was 30°.7.

The mean of all the highest daily readings in the month was 48°.3, being 3°.4 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 35°.7, being 1°.0 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 12°.6, being 2°.4 greater than the average for the 65 years, 1841-1905.

The mean for the month was 42°.4, being 2°.9 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER	
	POLARIS		δ URSE MINORIS		OSLER'S				Robinson's		
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot				
	A.M.	P.M.			Greatest	Mean of 24 Hourly Measures	Horizontal Move- ment of the Air				
Feb. 1	hours	hours	hours		SSW: SW	SW: SSW	lbs.	lbs.	miles		
2	3.4	0.27	2.7	0.22	SSW: WSW	WSW: SW	24.0	2.30	582	c ir c bc	
3	8.5	0.68	8.5	0.68	WSW: W	W: WNW: WSW	4.0	...	400	c Acu Ast Ci bc p bc Ci Acu Cumb	
4	12.5	1.00	12.5	1.00	WSW: W	NW: WNW: WSW	4.1	...	329	c b m ₂ bc Acu Stcu	
5	6.5	0.52	6.1	0.49	WSW: W	SW	2.0	0.13	256	b c Frst Stcu m	
	0.0	0.00	0.0	0.00	WSW: SW		7.0	0.65	399	c Cicu Acu iro	
6	11.4	0.93	11.0	0.90	SW: WSW	WSW	14.4	1.25	474	c q	
7	12.3	1.00	12.3	1.00	WSW: NNE	N: NNE: Calm	4.0	0.13	208	c Nbstr r q c Ast Frst	
8	0.0	0.00	0.0	0.00	Calm: SSW	SSW	7.5	0.47	327	c Frst St. m ₂ Frcu bc	
9	6.1	0.50	5.5	0.45	SSW: W	NW: WNW	9.3	0.99	458	b x m ₂ m ₃ Stcu Ast	
10	2.4	0.19	2.0	0.17	W: WSW	SW: W	2.2	0.17	315	rr ro c Ast Acu Stcu so-ha m ₂	
11	2.1	0.17	0.9	0.08	WSW: WSW	WSW: WNW	2.3	0.17	308	c Stcu Frst	
12	5.7	0.46	5.2	0.42	WSW: SW	WSW: NW	7.6	1.34	555	c Frst q	
13	7.2	0.62	5.7	0.48	W: WNW	NW: W: WSW	4.0	0.61	444	c b Frcu Stcu m ₂ c y	
14	5.3	0.45	3.9	0.33	WSW	WSW: SW	5.0	0.79	515	b c Frst	
15	8.1	0.69	7.7	0.66	SW: WNW	WNW: W	11.0	1.41	564	c ir bc Acu Frst d Frcu q	
16	9.4	0.80	9.3	0.79	NW: NNW	NN: N	5.5	0.96	423	c b c	
17	0.0	0.00	0.0	0.00	N: Calm	WSW: SW	0.2	0.03	160	c x Acu f c	
18	..	..	..	..	SW: NW	NNW: Calm	0.4	0.03	150	c St f c Ci Cicu Frcu
19	9.1	0.78	8.2	0.70	Calm: SW	WSW: NW	1.9	0.06	171	b f x b Ci Cicu Frcu f m	
20	6.5	0.58	6.4	0.57	Calm	Calm	0.0	0.00	45	b off w o ff	
21	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	55	b c xwf o ff	
22	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	100	o St ff o St f m	
23	3.3	0.29	3.2	0.28	Calm	SW	0.3	0.01	95	o St m	
24	11.3	1.00	11.3	1.00	SW	Calm: SSW	0.0	0.00	149	b m ₂	
25	8.8	0.79	7.5	0.67	SSW: SW	WSW: NW	1.6	0.07	230	b mo x b c St f b Ci Ast	
26	10.8	0.96	9.5	0.84	NW: NNW	NNW: Calm	0.8	0.05	189	b bc Stcu zo b x b c x	
27	8.3	0.77	8.1	0.76	Calm: WSW	NW: Calm	0.2	0.00	141	b m ₂ Acu Ci c Stcu m ₂	
28	0.9	0.08	0.7	0.07	Calm: WSW	W: NNW: Calm	0.8	0.01	146	c Stcu f b Acum	
Means	5.9	0.50	5.5	0.47	..	..	0.45	292		
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	
										29	
										30	
										31	

The mean Temperature of Evaporation for the month was $39^{\circ}.9$, being $2^{\circ}.2$ higher than

The mean Temperature of the Dew Point for the month was $36^{\circ}.1$, being $1^{\circ}.1$ higher than

The mean Degree of Humidity for the month was 78.6 , being 5.0 less than

The mean Elastic Force of Vapour for the month was 0.213 in., being 0.009 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 0.246 . The maximum daily amount of Sunshine was 7.4 hours on February 26.

The highest reading of the Solar Radiation Thermometer was $105^{\circ}.9$ on February 25; and the lowest reading of the Terrestrial Radiation Thermometer was $18^{\circ}.1$ on February 8.

The Proportions of Wind referred to the cardinal points were N. 12, E. 0, S. 22, W. 44, calm or nearly calm conditions 22, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 24.0 lbs. on the square foot on February 1. The mean daily Horizontal Movement of the Air for the month was 292 miles; the greatest daily value was 582 miles on February 1 and the least daily value was 45 miles on February 20.

Rain (0.005 in. or over) fell on 9 days in the month, amounting to 1.748 in., as measured by gauge No. 6 partly sunk below the ground; being 0.268 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 1943	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)	TEMPERATURE			Rain collected in Gauge No. 6, whose Surface is 5 inches above the Ground	Daily Duration 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	Deduced Mean Daily Value	Mean	Greatest	Least	Highest in Sun's Rays	Lowest on the Grass					
Mar. 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 31	in. 30.533 30.362 30.249 30.048 30.218 30.296 30.265 29.952 30.021 29.958 29.832 30.046 30.016 29.881 29.769 29.876 29.988 29.890 29.782 29.863 29.940 29.900 29.700 29.493 29.414 29.575 29.729 29.938 29.885 29.673 29.710	○	○	○	○	○	○	○	○	○	○	○	○	○	in.	hours	hours	
		55.4	40.7	14.7	48.1	+ 7.7	44.7	40.4	7.7	14.1	2.1	74	93.3	29.2	44.0	0.000	4.5	10.9
		51.0	44.2	6.8	47.3	+ 6.9	44.9	42.1	5.2	7.6	3.9	82	64.6	31.7	44.0	0.000	0.0	10.9
		46.0	40.5	5.5	43.4	+ 2.9	40.8	37.1	6.3	9.7	3.6	79	56.1	34.9	44.0	0.000	0.0	11.0
		47.0	35.1	11.9	40.6	- 0.1	37.7	33.0	7.6	12.9	3.0	74	104.6	23.7	44.4	0.000	3.7	11.1
		52.0	33.1	18.9	40.6	- 0.3	38.1	34.2	6.4	16.0	1.9	78	82.3	21.7	44.1	0.000	4.1	11.1
		51.7	33.6	18.1	43.7	+ 2.7	40.9	37.0	6.7	12.7	1.0	77	90.9	23.7	44.1	0.000	2.0	11.2
		49.8	33.9	15.9	40.1	- 0.9	37.9	34.5	5.6	17.7	0.0	80	102.2	22.3	44.0	0.000	6.4	11.3
		49.9	29.0	20.9	40.3	- 0.8	36.4	29.9	10.4	19.8	0.0	66	101.9	16.1	44.0	0.000	7.4	11.3
		49.4	30.0	19.4	41.7	+ 0.7	37.3	30.0	11.7	23.0	1.2	63	93.5	19.7	44.0	0.000	7.6	11.4
		55.0	29.0	26.0	42.4	+ 1.5	38.7	33.0	9.4	18.8	0.0	69	99.3	18.7	44.1	0.000	5.4	11.4
		53.7	41.1	12.6	47.9	+ 6.9	44.2	39.4	8.5	11.7	5.8	72	76.2	32.0	44.1	0.000	0.1	11.5
		50.2	33.5	16.7	41.2	+ 0.1	37.3	31.0	10.2	19.0	2.8	66	101.8	20.5	44.0	0.000	7.8	11.6
		50.4	35.4	15.0	41.9	+ 0.6	38.1	32.1	9.8	22.7	2.2	68	108.8	22.6	44.1	0.000	5.0	11.6
		54.8	35.1	19.7	42.8	+ 1.3	39.3	34.0	8.8	18.3	1.9	71	105.3	24.6	44.2	0.000	8.4	11.7
		51.4	31.0	20.4	39.3	- 2.4	37.3	34.2	5.1	12.4	0.0	82	86.4	15.1	44.0	0.000	2.4	11.8
		59.8	29.1	30.7	43.2	+ 1.3	39.1	32.7	10.5	25.4	0.0	66	99.6	17.0	44.0	0.000	8.5	11.8
		54.7	33.1	21.6	42.5	+ 0.5	40.6	37.9	4.6	14.1	0.0	84	74.6	20.0	44.0	0.000	1.7	11.9
		57.0	35.3	21.7	44.8	+ 2.8	40.6	34.3	10.5	24.6	1.5	66	100.4	18.7	44.0	0.000	8.9	12.0
		44.8	36.3	8.5	41.0	- 0.9	38.3	34.0	7.0	13.4	2.2	76	74.3	26.8	43.8	0.000	0.4	12.0
		46.3	37.4	8.9	42.0	+ 0.1	39.4	35.4	6.6	12.8	2.7	78	61.3	27.0	43.8	0.000	0.0	12.1
		43.9	27.7	16.2	38.4	- 3.5	36.9	34.7	3.7	4.5	0.0	86	62.2	17.1	43.8	0.000	0.0	12.2
		53.0	34.8	18.2	42.4	+ 0.4	39.8	35.9	6.5	14.9	0.6	78	99.7	28.2	43.9	0.000	6.8	12.2
		56.4	36.4	20.0	43.9	+ 1.7	41.5	38.3	5.6	17.4	0.0	80	102.3	33.6	44.0	0.000	4.2	12.3
		57.0	44.4	12.6	49.5	+ 7.1	45.6	40.9	8.6	14.6	3.2	72	102.3	40.0	44.1	0.025	1.4	12.4
		59.3	45.6	13.7	51.0	+ 8.3	48.9	46.6	4.4	10.6	1.0	85	117.3	42.4	44.3	0.196	2.7	12.4
		53.5	42.6	10.9	48.8	+ 5.8	46.1	43.0	5.8	15.4	2.1	80	89.9	28.5	44.3	0.024	2.0	12.5
		56.0	42.3	13.7	48.1	+ 4.8	45.4	42.2	5.9	12.1	2.3	80	86.1	28.1	44.6	0.003	1.1	12.6
		55.0	38.9	16.1	46.3	+ 2.6	41.8	35.4	10.9	21.5	3.0	66	101.1	27.1	44.8	0.000	7.7	12.6
		53.8	35.8	18.0	46.2	+ 2.1	43.8	40.8	5.4	13.8	1.4	81	107.9	24.6	44.9	0.033	3.0	12.7
		59.1	49.5	9.6	53.5	+ 9.0	48.8	43.7	9.8	15.5	3.2	69	95.3	44.8	45.0	0.000	0.9	12.7
		55.8	48.1	7.7	53.0	+ 8.1	47.9	42.1	10.9	19.4	4.3	66	86.3	41.0	45.1	0.003	1.2	12.8
Means	29.929	52.7	36.9	15.8	44.4	+ 2.5	41.2	36.8	7.6	15.7	1.8	74.6	91.2	26.2	44.2	Sum 0.284	3.7	11.8
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 29.929 in., being 0.176 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 59°.8 on March 16; the lowest in the month was 27°.7 on March 21; and the range was 32°.1.

The mean of all the highest daily readings in the month was 52°.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 36°.9, being 1°.3 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 15°.8, being 2°.2 greater than the average for the 65 years, 1841-1905.

The mean for the month was 44°.4, being 2°.5 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY		WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS						Robinson's	CLOUDS AND WEATHER					
	Polaris		δ URSA MINORIS		OSLER'S			Pressure on the Square Foot			0 ^h to 6 ^h		6 ^h to 12 ^h		
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		A.M.	P.M.	Greatest	Mean of 24 Hourly Measures	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
Mar. 1	hours	hours	hours	0.49	2.8	0.26	W:NW	NNW:Calm	lbs.	lbs.	miles	c mbo m	bc Ci f bc	bc Ci Acu y	bc b
2	2.4	0.22	1.1	0.11	NW:NNW	Calm			0.6	0.01	163	c o mbo	o St mbo	o St Frst mbo	o mbo c
3	4.3	0.40	3.6	0.34	ENE:E	E			6.0	0.02	159	c	c Frst Ast	c Ast Stcu	c bc
4	10.7	1.00	10.7	1.00	ESE	E:Calm			4.2	0.75	373	bc	bc c Stcu Ast Frst Acu	b Ci	b Ci m f
5	5.7	0.53	2.3	0.22	Calm:N	NNE:Calm			1.0	0.37	237	b mfx	b o St m b	b Ci y	b c bc
6	5.6	0.54	4.7	0.46	WSW:N	N:NE			1.7	0.12	129	bc c m	c A cu Stcu mbo	c A cu bc mo	bc c
7	10.1	0.98	10.1	0.98	ENE:Calm	ENE			2.2	0.13	204	b x	b o fe St b f zo	b y	b c m
8	2.2	0.21	1.7	0.17	Calm:SW	WSW:W			1.8	0.08	172	b c x mbo	c b A cu c b	b bc Stcu Fr cu y b	b m f
9	10.3	1.00	6.2	0.60	NNW:N	N:Calm			0.6	0.03	192	c bc m	b m bc Cu Fr cu y	b Cu Fr cu y	c
10	2.1	0.20	1.6	0.16	SW:WSW	WSW			1.4	0.11	121	b f x	b f Ci bc so-ha Cist y	b Ci y	
11	9.0	0.88	8.5	0.83	WSW	N			1.6	0.09	239	c m mbo	c Stcu Frst mbo	c Stcu Frst o go ro c mbo	c bc b
12	6.0	0.59	3.4	0.33	NNE:NE	E:Calm			0.4	0.04	220	b x	b mbc Cicu b Fr cu y	b bc y	bc b
13	9.4	0.97	9.4	0.97	Calm:NE	ENE			5.2	0.39	166	b c x	bc Cist so-ha m mbo	b Ci Cicu Cist Acu c y	c b m
14	9.6	0.98	9.6	0.98	NE:NNE	ENE:ESE:Calm			1.1	0.07	294	b x m	b m Ci zo	b Ci Acu zo y	b f m x
15	9.7	1.00	9.7	1.00	Calm	Calm:SW			0.0	0.00	181	b f x	f F b m	b m f	
16	8.9	0.92	8.7	0.90	SW:Calm	Calm:SW			0.1	0.00	77	b x m	b m f m	b zo y	b m f x
17	9.7	1.00	9.7	1.00	Calm	Calm			0.1	0.00	136	b m f Fe x	Fe Fe	b i b z	b m f
18	6.1	0.62	5.3	0.55	Calm:NE	NE:NNE			2.3	0.13	92	b f x	b f x b y	b y	c b c
19	0.0	0.00	0.0	0.00	NNE:Calm	Calm:NNW			0.9	0.03	222	c	c A cu Fr cu	c St Frst zo ro mbo	c m o
20	5.4	0.58	5.4	0.58	NNW:Calm	Calm			0.2	0.01	135	c m o	c St Frst m	c St Stcu m	c b c m
21	0.0	0.00	0.0	0.00	Calm	NNE:E			0.3	0.01	93	b m f F x	Fe ff	c m c	c
22	1.1	0.12	1.1	0.12	Calm	ENE:Calm			0.6	0.03	137	o f	o St f b m	b m zo y	b c ff
23	1.6	0.17	1.5	0.17	ENE:Cal m	ENE			1.5	0.11	183	o Fe Fe	o Fe f b m	b bc m zo so-ha y	b c
24	0.0	0.00	0.0	0.00	ENE	E:ENE			2.3	0.25	265	c r c	c Ci Cicu Ast Acu so-ha	c Ast Acu y	c ido
25	0.8	0.08	0.4	0.04	E:ENE	S:Calm			1.8	0.10	181	c rr ido	ido Nb st c	c	c ro
26	6.9	0.75	5.8	0.63	WSW:W	NW:WSW			2.0	0.12	578	c	c grro m c St Frst	c bc Frst Frcu b	b bc b
27	5.9	0.67	5.6	0.64	WSW:SW	WSW:NW			1.0	0.07	228	b c	c ir ido St Frst	c r c Oi Frcu Frst	c b c
28	7.4	0.85	7.0	0.80	WSW:NW	NW:SW			1.6	0.12	206	b c b	bc c Frst Stcu y	bc Stcu Frst y	bc b
29	0.2	0.02	0.1	0.01	SW	SW			4.8	0.55	224	b c	c b Ci A cu Frst	c ro c St Frst	c rro c
30	2.3	0.27	1.7	0.20	WSW	WSW			17.0	1.72	359	c	c St	c Ci Stcu q y	c q
31	1.4	0.16	0.6	0.07	WNW:WSW	WSW			12.5	1.45	572	c q c	c Ci Cicu A cu Frcu	c Nb st ido	c
Means	5.2	0.52	4.5	0.46	..	..			0.22	0.22	214				
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°.2, being 1°.8 higher than

The mean Temperature of the Dew Point for the month was 36°.8, being 1°.2 higher than

The mean Degree of Humidity for the month was 74.6, being 3.5 less than

The mean Elastic Force of Vapour for the month was 0.219 in., being 0.010 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.1.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.314. The maximum daily amount of Sunshine was 8.9 hours on March 18.

The highest reading of the Solar Radiation Thermometer was 117°.3 on March 25; and the lowest reading of the Terrestrial Radiation Thermometer was 15°.1 on March 15.

The Proportions of Wind referred to the cardinal points were N.18, E.21, S.9, W.21, calm or nearly calm conditions 31, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 17.0 lbs. on the square foot on March 30. The mean daily Horizontal Movement of the Air for the month was 214 miles; the greatest daily value was 578 miles on March 30 and the least daily value was 77 miles on March 15.

Rain (0.005 in. or over) fell on 4 days in the month, amounting to 0.284 in., as measured by gauge No.6 partly sunk below the ground; being 1.236 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 1943	BAROMETER Mean of 24 Hourly Values (Corrected to 32° Fahrenheit it.)	TEMPERATURE								Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon			
		Of the Air				Of Evapo- ration	Of the Dew Point					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil							
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least	Highest in Sun's Rays	Lowest on the Grass							
Apr. 1	29.879	57.5	48.6	8.9	54.8	+ 9.5	50.5	46.1	8.7	14.3	3.4	o	o	72	72.5	46.7	45.3	0.010	0.0	12.9
2	30.197	57.2	47.0	10.2	51.0	+ 5.3	48.3	45.4	5.6	9.9	1.6	81	96.9	36.6	45.4	0.044	0.7	12.9		
3	30.249	63.6	47.2	16.4	54.5	+ 8.5	50.0	45.3	9.2	17.1	3.7	71	113.3	37.8	45.7	0.000	5.5	13.0		
4	30.158	64.3	41.5	22.8	52.1	+ 5.9	48.4	44.4	7.7	16.2	0.4	75	125.3	28.2	46.0	0.000	8.0	13.1		
5	29.795	70.0	38.8	31.2	54.2	+ 7.9	47.9	40.5	13.7	29.8	0.9	60	124.6	26.2	46.2	0.000	11.1	13.2		
6	29.889	52.3	40.3	12.0	46.5	+ 0.2	39.5	28.2	18.3	24.6	10.7	47	113.7	33.0	46.1	0.000	5.9	13.2		
7	29.819	57.0	38.8	18.2	47.4	+ 1.1	42.0	34.2	13.2	19.1	7.7	60	106.1	29.5	46.3	0.042	2.8	13.3		
8	30.089	50.6	37.4	13.2	44.5	- 1.6	38.5	28.6	15.9	25.3	7.0	52	108.3	28.1	46.4	0.000	3.9	13.3		
9	29.995	52.9	48.8	4.1	50.8	+ 4.8	46.9	42.4	8.4	10.0	7.0	73	69.6	44.1	46.4	0.000	0.0	13.4		
10	30.035	53.4	48.2	5.2	50.7	+ 4.8	46.4	41.3	9.4	14.7	5.6	70	70.7	42.2	46.4	0.000	0.0	13.5		
11	30.094	62.1	46.3	15.8	53.3	+ 7.5	48.7	43.6	9.7	16.4	5.1	70	109.7	39.1	46.6	0.000	1.5	13.5		
12	30.038	57.0	50.4	6.6	53.4	+ 7.5	51.2	49.1	4.3	5.5	1.3	85	92.5	43.6	46.7	0.027	0.0	13.6		
13	30.067	71.1	44.3	26.8	57.2	+11.1	51.2	45.1	12.1	24.6	1.0	64	131.1	30.9	47.0	0.000	11.8	13.7		
14	30.031	70.0	44.6	25.4	56.1	+ 9.7	50.2	43.8	12.3	20.7	3.7	64	120.0	30.7	47.0	0.000	0.5	13.7		
15	29.987	75.5	48.2	27.3	59.8	+13.0	52.0	43.9	15.9	35.3	5.9	56	146.3	36.0	46.4	0.000	7.5	13.8		
16	30.086	75.4	44.2	31.2	60.7	+13.5	53.1	45.5	15.2	30.4	2.2	57	127.1	30.1	47.6	0.000	8.2	13.9		
17	30.024	75.4	50.4	25.0	62.5	+14.9	53.0	43.1	19.4	34.9	5.7	49	129.8	35.6	47.9	0.000	10.5	13.9		
18	29.788	73.3	48.4	24.9	60.9	+12.9	51.4	41.1	19.8	34.7	5.1	47	131.2	35.2	48.1	0.000	12.1	14.0		
19	29.671	60.6	45.2	15.4	50.7	+ 2.4	46.4	41.3	9.4	15.2	3.0	70	111.9	35.0	48.1	0.076	3.2	14.1		
20	29.980	63.9	37.2	26.7	49.8	+ 1.3	43.6	34.9	14.9	26.2	2.1	57	126.9	27.1	48.5	0.000	12.2	14.1		
21	29.698	58.9	39.7	19.2	50.7	+ 2.0	46.4	41.3	9.4	18.6	1.9	70	118.8	23.1	48.5	0.100	6.4	14.2		
22	29.465	57.1	45.2	11.9	54.3	+ 5.6	52.5	50.8	3.5	5.9	1.9	88	81.5	31.4	48.6	0.000	0.0	14.2		
23	29.552	60.0	43.0	17.0	52.8	+ 4.2	50.7	48.7	4.1	6.8	1.2	86	106.5	29.2	48.7	0.254	2.5	14.3		
24	29.793	58.9	46.0	12.9	51.4	+ 2.8	45.7	38.5	12.9	27.1	3.6	61	126.4	40.9	48.7	0.036	8.5	14.4		
25	29.739	64.2	48.8	15.4	55.5	+ 6.9	49.6	43.2	12.3	23.9	2.4	63	131.8	40.9	48.9	0.026	10.0	14.4		
26	29.850	59.0	45.5	13.5	52.1	+ 3.5	45.1	35.9	16.2	27.3	7.2	54	120.5	37.6	48.8	0.003	7.8	14.5		
27	30.038	58.3	43.3	15.0	50.9	+ 2.2	45.9	39.6	11.3	17.6	4.3	65	118.2	33.1	49.0	0.000	3.9	14.6		
28	29.921	57.0	44.7	12.3	50.0	+ 1.2	46.0	41.2	8.8	17.9	2.1	72	106.8	36.2	49.0	0.039	3.0	14.6		
29	29.905	60.8	36.3	24.5	50.0	+ 1.0	45.8	40.8	9.2	22.5	1.3	70	122.5	24.0	49.0	0.021	5.4	14.7		
30	29.771	57.6	48.1	9.5	52.3	+ 3.2	50.3	48.4	3.2	10.7	1.8	86	77.7	46.4	49.1	0.240	0.0	14.7		
Means.	29.920	61.8	44.5	17.3	53.0	+ 5.8	47.9	41.9	11.2	20.1	3.7	66.5	111.3	34.6	47.4	0.918	5.1	13.8		
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 29.920 in., being 0.165 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was $75^{\circ} 5$ on April 15; the lowest in the month was $36^{\circ} 3$ on April 29; and the range was $39^{\circ} 2$.

The highest in the month was 78° 7.0 on April 22, the lowest 61° 8.8 being 5° 7 higher than the average for the 65 years, 1841-1906.

The mean of all the highest daily readings in the month was $11^{\circ} 5$, being $5^{\circ} 0$ higher than the average for the 65 years, 1841-1906.

The mean of all the lowest daily readings in the month was 44.1°, being 3.4° higher than the mean for the 65 years 1841-1905.

The mean of the daily ranges was 17.3 being 0.7 greater than the average for the 30 years.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					Robins- son's	CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S				Horizontal Move- ment of the Air	Clouds and Weather				
	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						
Apr. 1	hours	hours	hours	0.00	WSW:W	NW	lbs.	lbs.	miles	c Frst 1ro	c Stcu Frst	c Rro		
2	0.0	0.61	5.1	0.59	NW:NNW	NN: NW	9.0	0.89	514	rro	c Stcu Acu bc	bc o c		
3	0.74	6.3	0.74	NW:NNW	Calm:Var	2.0	0.13	236	c b c	c Acu Stcu	b			
4	1.00	8.5	1.00	Calm:SW	SSW	1.3	0.05	176	b w	b bc Acu Cicu c Stcu	b w			
5	0.63	4.6	0.55	SW	SW:WSW	0.5	0.02	169	b x	b dc Ci so-ha y	b c bc			
6	4.6	0.54	4.3	0.51	NW:NNW	WNN: NW	7.2	0.58	379	c Frst 1ro	c Stcu Acu bc	c Rro		
7	0.68	5.5	0.65	WSW:W	NW:NNW	9.0	1.27	527	bc c b	b bc Fr cu Ci Acu Stcu y	c Stcu y			
8	0.04	0.2	0.03	NNW	NW:WNW	29.3	2.39	604	b c q	c r q Frst fresh gale	c Stcu Frst p fresh pale b q y	c y qb		
9	0.00	0.0	0.00	WNW:NN:NNW	NW:Calm	2.4	0.28	323	b c	bc c Stcu Fr cu y	bc o Cicu Acu c y	c		
10	0.01	0.1	0.01	Calm:WSW	WNW:W	3.0	0.19	254	c	c Ast Frst	c Stcu Frst	c		
						0.6	0.03	172	c	c St mo c	c St	c		
11	0.54	3.7	0.46	WSW	WSW	3.6	0.23	328	c	c Frst Stcu	c Frst Cumb bc y	b c		
12	0.34	2.1	0.27	WSW:SW	SW:Calm	2.0	0.11	235	c	c do do dd Frst c	c d Frst c	b c		
13	1.00	8.0	1.00	Calm:SSW	SSW	1.6	0.05	170	bc w	bc Ci Acu Fr cu y	b Ci y	b		
14	..	..	..	SSW:SW	SW:SSW	1.0	0.06	190	b c	c Ci Ast z, y	c y	c b		
15	1.00	7.9	0.98	SW:WSW	SW:SSW	1.0	0.06	197	bc	bc Ci Cicu Acu y	bc Ci Cicu Acu y	bc b		
16	0.41	3.0	0.37	Calm	Calm	0.2	0.00	76	b bc w	bc Ci Cicu z, y	bc Ci Fr cu c y	c		
17	0.91	4.3	0.57	Calm	WSW	3.2	0.13	207	b bc b	b Zo y	b Ci bc y	bc o		
18	0.90	6.5	0.86	WSW	WSW	3.6	0.25	288	b	b Ci v	b Ci v	b y		
19	1.00	7.5	1.00	WSW:NW	NNW	1.4	0.10	219	b c po	bc c Stcu	c ro Nbst rr c	c b		
20	1.00	7.5	1.00	Calm	Calm:SSW:SSE	1.1	0.02	129	b x	b Ci y	b bc Cist so-ha b y	b		
21	0.07	0.5	0.07	ESE:E	E:Calm	6.2	0.21	231	b x	b bc Ci Cist so-ha ast	c Ast iro	i ro r c		
22	0.82	6.1	0.82	S:SSW	SW:SSW	5.7	0.34	289	c	d do c iro	c Nbst ido c b	b		
23	0.06	0.3	0.04	SSE:SSW	S:SSW	2.0	0.14	230	b c r	c rr	rr c Stcu	c p rr		
24	0.03	0.1	0.02	SW:WNW	WSW:SW	5.0	0.66	440	c r c	bc bc Cu y	bc c Cu c y	c		
25	0.78	5.4	0.77	SW:WSW	SW	9.7	1.86	599	c ir	bc Ci Fr cu y	bc Fr cu c y	b c p		
26	0.71	4.0	0.57	WSW:W	WNW:WSW	13.0	2.21	613	c b c	c q p y	c Fr cu q b y	b c d		
27	0.89	6.0	0.86	WSW	WSW	3.8	0.56	376	b c	c Cu Stcu y	c Acu y	b		
28	0.66	4.3	0.61	WSW:NW	Var:NNW	4.0	0.14	239	c b bc	bc c Ci Fr cu y	c Stcu Nb do t y	c r c b		
29	0.00	0.0	0.00	Calm:W	SW:SSW	2.8	0.06	166	b m x	b z bc Stcu Ci Fr cu y	c Stcu y do	d c r c		
30	..	..	..	Calm:SW	NW:NNW	2.1	0.09	200	c d	rr c Fr st	o Nbst g rr c r	c		
Means	4.7	0.55	4.0	0.51	..	..	0.44	293						
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 $47^{\circ}9$, being $4^{\circ}0$ higher than

The mean Temperature of the Dew Point for the month was $41^{\circ}9$, being $2^{\circ}3$ higher than

The mean Degree of Humidity for the month was 66.5 , being 8.0 less than

The mean Elastic Force of Vapour for the month was 0.267 in., being 0.023 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 0.369 . The maximum daily amount of Sunshine was 12.2 hours on April 20.

The highest reading of the Solar Radiation Thermometer was $146^{\circ}3$ on April 15; and the lowest reading of the Terrestrial Radiation Thermometer was $23^{\circ}1$ on April 21.

The Proportions of Wind referred to the cardinal points were N.14, E.3, S.26, W.42, calm or nearly calm conditions 15, the whole month being represented by 100..

The Greatest Pressure of the Wind in the month was 29.3 lbs. on the square foot on April 7. The mean daily Horizontal Movement of the Air for the month was 293 miles; the greatest daily value was 613 miles on April 26 and the least daily value was 78 miles on April 16.

Rain (0.005 in. or over) fell on 12 days in the month, amounting to 0.918 in., as measured by gauge No.6 partly sunk below the ground; being 0.648 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 1943	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 (%) Degree of Saturation	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	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
May 1	in.	o	o	o	o	- 1.9	43.5	38.5	8.9	14.3	4.9	71	114.7	40.4	49.1	0.107	3.2	14.8
2	29.877	53.4	42.7	10.7	47.4	- 0.4	45.5	41.1	8.0	15.1	3.9	74	82.3	39.1	49.0	0.009	0.4	14.8
3	29.894	55.8	44.9	10.9	49.1	+ 1.0	45.5	38.8	12.0	25.3	2.4	64	120.3	36.0	49.3	0.000	9.9	14.9
4	29.973	59.9	44.2	15.7	50.8	+ 1.1	44.5	35.6	15.5	26.4	3.0	56	126.1	34.7	49.4	0.000	13.2	14.9
5	30.094	61.0	41.9	19.1	51.1	+ 1.5	47.3	42.1	9.7	20.2	1.3	69	119.3	31.5	49.2	0.000	1.1	15.0
6	29.763	64.0	40.6	23.4	51.8	- 1.5	47.3	42.1										
7	29.505	58.1	44.5	13.6	50.8	+ 0.3	46.6	41.7	9.1	18.6	3.0	70	120.3	30.9	49.3	0.000	1.0	15.1
8	29.440	59.4	37.8	21.6	49.2	- 1.5	43.1	34.6	14.6	26.8	6.0	57	130.9	25.2	49.4	0.000	10.0	15.1
9	28.772	54.0	43.8	10.2	48.0	- 3.0	44.5	40.0	8.0	13.0	2.6	73	115.3	41.0	49.4	0.376	4.7	15.2
10	29.183	55.8	37.4	18.4	46.9	- 4.3	41.1	32.4	14.5	29.9	2.7	57	114.3	36.3	49.4	0.100	6.6	15.2
11	29.295	52.6	45.2	7.4	49.5	- 2.0	47.9	46.1	3.4	5.0	1.0	88	65.7	39.4	49.3	0.538	0.0	15.3
12	29.737	57.5	37.9	19.6	49.8	- 2.0	45.9	41.2	8.6	17.0	1.5	72	120.3	28.2	49.5	0.000	6.5	15.4
13	30.012	66.3	54.0	12.3	57.9	+ 5.8	55.1	52.7	5.2	12.9	3.0	83	119.7	45.6	49.6	0.000	1.0	15.4
14	30.109	78.0	52.4	25.6	65.0	+12.6	59.0	54.3	10.7	22.9	1.0	69	137.5	43.1	49.7	0.000	13.5	15.5
15	30.166	85.4	56.5	28.9	70.7	+18.1	62.1	55.8	14.9	32.9	1.3	59	144.3	44.1	50.2	0.170	13.0	15.5
16	30.409	67.1	47.5	19.6	58.5	+ 5.7	50.7	42.2	16.3	24.7	7.2	55	132.7	34.0	50.3	0.000	11.1	15.6
17	30.529	64.5	43.1	21.4	52.9	- 0.1	46.1	37.5	15.4	28.5	5.6	55	134.1	29.5	50.6	0.000	14.2	15.6
18	30.394	70.5	43.0	27.5	57.2	+ 4.1	49.9	41.7	15.5	26.2	3.1	57	127.9	30.1	51.0	0.000	13.4	15.7
19	30.205	64.6	46.2	18.4	56.1	+ 2.8	50.7	45.1	11.0	19.6	2.9	66	134.9	33.9	51.1	0.000	14.1	15.7
20	30.027	66.3	51.0	15.3	58.0	+ 4.5	52.6	47.3	10.7	27.5	2.6	68	137.0	42.9	51.4	0.000	13.3	15.8
21	29.949	76.0	47.8	28.2	62.4	+ 8.6	55.5	49.2	13.2	24.5	1.7	62	137.7	34.1	51.7	0.000	9.0	15.8
22	29.913	73.9	52.5	21.4	63.2	+ 9.0	56.5	50.7	12.5	23.2	2.6	64	133.8	39.5	51.9	0.000	7.2	15.9
23	29.748	72.4	50.9	21.5	59.9	+ 5.3	54.5	49.7	10.2	18.2	4.4	69	134.0	37.4	52.0	0.000	5.1	15.9
24	29.822	69.0	48.9	20.1	57.7	+ 2.8	50.8	43.4	14.3	29.2	3.8	59	139.9	36.7	52.3	0.000	11.3	16.0
25	29.492	59.5	48.7	10.8	52.6	- 2.7	50.5	48.5	4.1	7.6	2.0	86	109.6	36.7	52.2	0.565	1.5	16.0
26	29.726	67.3	48.7	18.6	55.6	+ 0.1	50.6	45.4	10.2	21.3	4.2	69	132.0	40.2	52.5	0.275	9.4	16.0
27	30.913	68.9	44.9	24.0	58.2	+ 2.4	53.5	49.2	9.0	18.1	2.4	72	137.2	33.7	52.5	0.000	7.8	16.1
28	30.108	74.2	55.5	18.7	64.3	+ 8.3	57.6	52.1	12.2	21.2	2.4	65	139.7	41.2	52.8	0.000	9.5	16.1
29	30.132	71.5	53.2	18.3	61.7	+ 5.5	54.7	48.1	13.6	21.5	5.4	61	134.4	38.9	53.0	0.000	6.8	16.1
30	30.014	77.1	49.1	28.0	62.8	+ 6.4	55.9	49.8	13.0	22.7	2.7	62	143.3	36.4	53.1	0.000	12.7	16.2
31	29.813	74.5	53.7	20.8	62.8	+ 6.1	56.7	51.5	11.3	20.9	4.7	67	151.8	46.5	53.3	0.000	7.2	16.2
Means	29.865	66.1	47.1	19.0	56.2	+ 3.1	50.7	44.9	11.3	21.2	3.2	66.5	126.7	37.0	50.9	Sum 2.140	7.8	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 29.865 in., being 0.064 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 85°.4 on May 14; the lowest in the month was 37°.4 on May 9; and the range was 48°.0.

The mean of all the highest daily readings in the month was 66°.1, being 3°.9 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 47°.1, being 2°.9 higher than the average for the 65 years, 1841-1905.

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

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					Robin- son's	CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S				Horizontal Move- ment of the Air					
	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	Horizontal Move- ment of the Air									
May 1	hours	hours	NW	NW:NNE	lbs.	lbs.	miles	c Stcu Frst bc Cu	c Nbst rr	c Stcu ro c	c Stcu Frst bc y	c ir		
2	0.0	0.00	3.5	0.55	ENE:NNE	2.7	0.37	c irr m	c Nbst iro	b bc	c bc Frcu Acu Ci b y q	b c		
3	4.5	0.68	6.5	1.00	NNE	10.0	1.19	358	c bc	b Frcu Frst y	b Frcu y	b y		
4	1.00	6.5	1.00	NNE:NNE	NE	5.7	0.70	526	b	c Acu Stcu	'c Acu Cumb Ci y	b y		
5	2.2	0.34	2.0	0.31	ENE:Calm	0.2	0.01	415	b c			c		
6	4.1	0.63	4.0	0.62	Calm:NNW	N:NNW	1.4	0.10	135	c bc c	c Frst Stcu y	c Stcu ro c	c y b	
7	0.0	0.00	0.0	0.00	NW:WSW:W	WSW:SSW	4.5	0.31	216	d	b bc Frcu Cu y	bc c Cu Stcu Cist so-ha y	c c	
8	0.0	0.00	0.0	0.00	S:SSW	SW	14.8	2.17	313	c rr c	c Ci Ast Frcu p q t	c p q	p c	
9	1.0	0.17	0.8	0.13	SW:W:NW	WNW:WSW:SW	11.6	1.64	607	c rr it c	c r bc q Frcu Ci y	bc Frcu q y	bc c Ast c	
10	2.4	0.40	2.3	0.38	SW:SSW	SSW:SW:NW	17.5	2.07	568	c rr q	rr Nbst q	rr q	r c q c rr c	
11	1.5	0.26	0.9	0.15	NW:WSW:SW	SSW	1.5	0.08	597	c bc b	b dc Ci Cicu so-ha y	c Stcu Frst ro c	c	
12	0.6	0.10	0.4	0.07	SSW:SW	SSW:S	4.7	0.35	217	c	c Frst	c	b v	
13	5.3	0.88	5.3	0.88	Calm:SSW	SW:SSW:Calm	2.4	0.17	338	c b	b Frcu Ci y	b Frcu Cu c y	bc b	
14	2.3	0.38	1.7	0.29	Calm:SW	SW:WNW:NNW	1.7	0.08	217	c tr b	b Frcu Cu y	c y	c y	
15	5.5	1.00	5.5	1.00	NNE	NE:ENE	2.0	0.19	175	c	c o Cicu Cu Frcu y	b y	b	
16	5.5	1.00	5.5	1.00	ENE	E:Calm	1.1	0.06	256	b	b Ci	b Ci	b y b	
17	5.5	1.00	5.5	1.00	Calm	NE:E	0.5	0.03	161	b	b zo y	b zo y	b c	
18					ENE:E	E	5.0	0.36	108	b	b Frcu Ci y	b Ci y	b c	
19	3.9	0.70	3.6	0.66	Calm	ESE:E	4.3	0.24	293	b	b x	b y	b d	
20	5.1	0.94	4.8	0.87	NNW:NW	NNW:NW	0.8	0.04	253	c b	c Cu zo y	c Cu zo y	c b	
21	5.2	0.94	4.6	0.83	WSW:Calm	Calm:SW	0.9	0.01	132	c	b zo Frcu y	c Frcu Cumb zo y	c b	
22	4.7	0.94	4.7	0.94	Calm:SW	SW:WSW	4.8	0.15	111	bc b	bc so-ha brhn c ro	c Ast Nbst Stcu iro	c b	
23	1.3	0.26	1.2	0.24	SW:WSW	WSW:SSW	2.2	0.25	237	b bc	bc Frcu Ci y	bc Cu Frcu Ci so-ha y	bc c	
24	0.0	0.00	5.0	0.00	Calm:E	Calm:NNW	2.1	0.13	303	b bc	rr Nbst c Frst	c Cumb Acu 1R t l	c po do	
25	4.4	0.89	4.4	0.89	NW	NW:W	3.0	0.28	206	c rr	b bc Frcu Cumb y	c Cumb y t l R p	c b	
26	0.0	0.00	0.0	0.00	Calm:SW	SW	1.5	0.09	306	c	b Frcu Ci bc Cu y	c Stcu Frst	c ro c	
27	4.1	0.82	4.0	0.81	WSW:W	W:Calm	0.9	0.11	186	b	bc Frcu Ci y	bc c Frcu y	c d c	
28	5.0	1.00	5.0	1.00	Calm:NNE	Calm:S	0.2	0.01	208	c	b bc Frcu y	b bc Frcu y	c b bc	
29	4.1	0.90	3.7	0.83	Calm	SE:E	2.4	0.08	113	b c	b bc Ci Frcu y	bc Ci Frcu b y	b	
30	3.4	0.75	3.4	0.75	E:SE:SW	WNW:W:SW	1.6	0.14	134	b	c Ast Stcu no c y	bc Cu Ci Frcu y	bc	
31	0.0	0.00	0.0	0.00	Calm:SW	SSW	1.6	0.11	237	b c	c Acu Cicu Frcu y	c Cu Acu Cist so-ha y	ro c	
Means	3.2	0.57	3.0	0.54	..	..	..	0.38	273				
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 50°.7, being 1°.7 higher than
 The mean Temperature of the Dew Point for the month was 44°.9, being 0°.1 higher than
 The mean Degree of Humidity for the month was 66.5, being 7.4 less than

The mean Elastic Force of Vapour for the month was 0.299 in., being 0.001 in. greater than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5.5.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.503. The maximum daily amount of Sunshine was 14.2 hours on May 16.

The highest reading of the Solar Radiation Thermometer was 151°.8 on May 30; and the lowest reading of the Terrestrial Radiation Thermometer was 25°.2 on May 7.

The Proportions of Wind referred to the cardinal points were N.20, E.16, S.20, W.24, calm or nearly calm conditions 20, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 17.5 lbs. on the square foot on May 10. The mean daily Horizontal Movement of the Air for the month was 273 miles; the greatest daily value was 607 miles on May 8 and the least daily value was 108 miles on May 17.

Rain (0.005 in. or over) fell on 8 days in the month, amounting to 2.140 in., as measured by gauge No.6 partly sunk below the ground; being 0.225 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 1943	BAROMETER Mean of 24 Hourly Values (corrected to 32° Fahrenheit and reduced to 32°)	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											
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values			Mean	Great-est	Least	Highest in Sun's Rays	Lowest on the Grass							
June 1	in. 29.544	63.1	49.6	13.5	56.1	- 1.3	52.0	47.9	8.2	18.6	3.0	75	127.6	43.0	53.6	0.111	7.0	16.3	
2	29.400	59.0	49.7	9.3	53.8	- 4.0	50.8	47.8	6.0	12.1	3.6	80	117.0	44.1	53.7	0.152	3.8	16.3	
3	29.621	63.0	51.3	11.7	55.2	- 2.9	50.8	46.3	8.9	14.3	5.0	72	126.1	45.6	53.8	0.055	3.3	16.4	
4	29.919	66.3	46.2	20.1	55.9	- 2.4	51.2	46.5	9.4	19.3	2.2	71	135.9	34.1	54.0	0.050	5.3	16.4	
5	29.869	66.1	54.4	11.7	59.4	+ 1.0	54.6	50.3	9.1	13.3	2.2	72	120.7	47.6	53.9	0.004	2.7	16.4	
6	29.964	69.0	49.0	20.0	58.1	- 0.2	52.5	47.0	11.1	19.9	2.4	67	145.5	39.0	54.0	0.000	6.6	16.4	
7	30.065	73.3	45.4	27.9	58.5	+ 0.3	52.8	47.3	11.2	23.4	1.2	66	151.8	32.7	54.2	0.160	6.3	16.5	
8	29.897	64.1	50.6	13.5	58.5	+ 0.4	56.9	55.6	2.9	5.3	0.0	90	88.4	49.9	54.0	0.065	0.0	16.5	
9	29.870	73.0	57.4	15.6	63.8	+ 5.8	59.5	56.3	7.5	17.9	1.1	77	130.5	48.1	54.1	0.002	2.9	16.5	
10	29.935	73.0	53.4	19.6	62.3	+ 4.2	57.9	54.6	7.7	15.7	1.2	75	133.0	44.0	54.2	0.008	1.6	16.5	
11	29.924	78.4	53.4	25.0	66.8	+ 8.6	60.2	55.2	11.6	20.4	1.4	66	134.7	40.7	54.5	0.000	7.9	16.5	
12	29.948	70.2	52.6	17.6	61.5	+ 3.1	53.0	44.4	17.1	28.5	8.3	53	135.3	41.7	54.6	0.000	10.7	16.6	
13	29.999	67.3	47.5	19.8	56.1	- 2.4	50.7	45.1	11.0	18.4	3.7	66	133.3	36.6	54.8	0.012	7.9	16.6	
14	29.791	66.0	49.0	17.0	55.5	- 3.2	50.3	44.9	10.6	22.5	4.2	67	142.3	39.6	55.0	0.044	8.2	16.6	
15	29.660	65.8	46.7	19.1	53.5	- 5.3	49.7	45.8	7.7	20.8	1.2	75	132.8	37.5	55.0	0.492	7.9	16.6	
16	29.705	65.4	45.7	19.7	53.2	- 5.7	49.7	46.1	7.1	21.0	1.4	77	133.3	36.6	55.0	0.157	6.1	16.6	
17	29.865	68.6	45.6	23.0	57.8	- 1.2	51.7	45.6	12.2	21.0	2.2	63	128.2	33.9	55.0	0.000	8.7	16.6	
18	29.895	60.4	50.6	9.8	56.9	- 2.3	54.6	52.7	4.2	7.1	1.1	86	85.9	40.4	54.9	0.175	0.6	16.6	
19	29.809	72.7	55.6	17.1	62.9	+ 3.4	57.8	53.6	9.3	17.4	3.0	72	136.3	48.8	55.2	0.000	8.2	16.6	
20	29.721	76.1	52.1	24.0	62.7	+ 2.8	56.6	51.4	11.3	24.1	1.3	67	140.9	45.3	55.3	0.000	10.0	16.6	
21	29.918	73.4	51.1	22.3	60.8	+ 0.5	54.2	48.0	12.8	26.8	2.6	63	142.2	38.0	55.4	0.000	11.3	16.6	
22	30.127	73.0	47.0	26.0	60.6	- 0.0	53.2	45.8	14.8	24.6	1.6	58	138.7	32.4	55.6	0.000	8.8	16.6	
23	30.147	71.1	57.3	13.8	62.5	+ 1.6	54.8	47.7	14.8	23.4	4.6	58	142.6	48.0	55.7	0.000	7.9	16.6	
24	30.175	76.6	51.1	25.5	64.2	+ 3.0	55.7	48.0	16.2	28.1	3.7	56	137.5	37.7	55.8	0.000	13.7	16.6	
25	30.076	72.6	55.0	17.6	62.9	+ 1.5	56.6	51.2	11.7	19.2	3.9	66	132.3	44.3	56.0	0.000	4.4	16.6	
26	30.178	71.9	52.5	19.4	61.6	+ 0.1	55.6	50.3	11.3	19.6	2.8	67	132.3	42.5	56.0	0.000	7.6	16.6	
27	30.267	68.1	50.6	17.5	59.0	- 2.6	54.0	49.4	9.6	18.4	1.8	71	126.2	37.2	56.0	0.000	6.5	16.6	
28	30.237	75.0	49.0	26.0	60.4	- 1.2	54.7	49.6	10.8	20.8	1.6	68	140.1	34.4	56.3	0.000	10.3	16.6	
29	30.173	71.5	53.7	17.8	60.4	- 1.2	54.6	49.4	11.0	17.6	5.1	67	121.9	47.8	56.3	0.000	5.8	16.6	
30	30.082	69.5	53.3	16.2	60.2	- 1.3	54.8	50.0	10.2	17.6	4.9	69	124.0	51.8	56.3	0.000	3.3	16.6	
Means	29.926	69.5	50.9	18.6	59.4	- 0.0	54.1	49.1	10.2	19.2	2.7	69.3	130.6	41.4	54.9	1.487	6.5	16.5	
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	

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

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

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

The mean reading of the Barometer for the month was 29.926 in., being 0.104 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 78°.4 on June 11; the lowest in the month was 45°.4 on June 7; and the range was 33°.0.

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

The mean of all the lowest daily readings in the month was 50°.9, being 0°.5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 18°.6, being 0°.1 greater than the average for the 65 years, 1841-1905.

The mean for the month was 59°.4, being the same as the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER				
	Polaris		δ URSÆ 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
	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures										
June 1	hours	hours	lbs.	lbs.	miles									
2	2.2	0.50	2.2	0.50	SSW:SW	SSW:SW	11.5	0.64	398	c r bc	b c y c r Nbst	rc Nbst Acu Cu p c	c r bc	
3	1.5	0.33	1.1	0.24	SSW	SW:WSW	12.0	0.67	402	c	c Ci Acu Nbst ir q	c Ir q Nbst c so-ha	c	
4	2.7	0.59	2.4	0.54	WSW:W	NW	8.5	0.57	403	c	c Nbst bc p c r t	c Nbst bc p c r t	c	
5	0.0	0.00	0.0	0.00	WSW	SW:WSW	2.0	0.23	276	b	c bc Acu c y	c so-ha y ir ro	c r	
6	0.8	0.19	0.5	0.11	SW:WSW	SW:W	1.6	0.26	313	c	c Acu Ci Frcu Frst	c Stcu Frcu ro c	c bc c Acu Ci	
7	4.5	1.00	4.5	1.00	WSW:W	NW:Calm	1.6	0.15	235	c	c Frcu Acu Ci Cumb y	c Cumb Frcu Acu Ci y	c po b	
8	0.0	0.00	0.0	0.00	Calm:SW	SW:SSW	0.9	0.06	157	b w	b bc Frcu Cumb Ast y	c Ast Frcu id mo	ro c rr	
9	2.1	0.47	2.0	0.44	SSW:WSW	WSW	0.7	0.07	199	rr o	o Frst	c bc y c mo	d c mo	
10	0.6	0.13	0.3	0.07	Calm:E	Calm:E	0.3	0.02	102	bc c mo	c Acu mo	c Acu Stcu 1-so-ha	c mo po c	
11	1.3	0.28	1.2	0.26	Calm:E	E:Calm	0.9	0.04	129	c mo w	c Acu Cu p	c DC c		
12	0.3	0.06	0.1	0.03	Calm:S	SSW:SW	1.2	0.09	173	c bc	bc Acu Ci y	c Ci Cicum 1-so-ha y	c	
13	4.5	1.00	4.5	1.00	WSW:WNW	WNW:W	2.6	0.28	339	c	bc Frcu Acu y	bc Frcu Cu y	bc b	
14	2.7	0.59	2.6	0.57	WSW	SW	3.3	0.17	269	b w	b bc Ci Cu Stcu c ro y	c Cumb Acu Nbst v p y	c v po c b	
15	2.1	0.47	2.0	0.44	Var:SW	Var:SW	3.8	0.15	244	b c b	bc Cumb Frcu p y	c v Cumb Frcu p t l	c p c	
16	3.9	0.88	3.9	0.88	WSW:SW	SW	4.0	0.25	252	c bc	b c Frcu Cumb Ci so-ha y	c Cumb Ast it l h r R	r R bc b	
17	2.7	0.61	2.6	0.59	WSW:WNW	N:Calm:WSW	2.3	0.14	244	b	b c Acu Ast Cumb itr	c ir t l Cumb Ci c	c b c	
18	3.6	0.80	3.0	0.67	WNW:NNW	N:Calm:WSW	1.0	0.05	149	b	b bc Frcu Cumb y	c ro c Frcu Cumb y	c b	
19	0.0	0.00	0.0	0.00	SW	SSW:SW	2.6	0.30	307	c b c	c Nbst rr o	c Nbst rr o c rr	ir o c	
20	4.2	0.94	4.2	0.94	SW	SW:SSW	3.2	0.52	397	c	c bc Frcu Acu Stcu y	bc Frst Frcu y	bc b	
21	4.5	1.00	3.3	0.74	SSW:Calm:SW	SW	3.4	0.38	298	b dc	bc Ci Cicum Frcu y	c so-ha y	bc b	
22	4.5	1.00	4.5	1.00	SW:WSW	W:NW:Calm	1.3	0.12	205	b dc	c dc Frcu Stcu Cumb y	bc Frcu Cumb y	c y	
23	2.1	0.47	2.0	0.45	Calm:SW	SW	1.8	0.12	228	b c	c bc Acu Frcu Ci y	c bc Acu Frcu Ci y	c b	
24	4.5	1.00	4.5	1.00	SW:W	WNW:NW	2.0	0.23	318	c	c bc Frcu y	b Ci y	b	
25	3.2	0.70	2.5	0.55	NW:Calm	WNW:SW	0.8	0.07	158	b	b bc Frcu Ci y	c Frcu Stcu bc y	b c b	
26	4.5	1.00	4.5	1.00	WSW:W	NW:N	1.9	0.14	242	bc c	c St y	c Stcu Frcu y	c b	
27	3.7	0.82	3.5	0.79	N:Calm	NNE:ENE	0.8	0.06	159	b	b zo c Acu Stcu Cu y	c Stcu y	b	
28	4.5	1.00	4.5	1.00	NE:NNE	NE:Calm	1.0	0.07	190	b c	c Stcu	c Stcu y	b	
29	1.5	0.34	1.4	0.32	Calm:NE	NNE	1.0	0.10	206	b c	c Frst b y	b bc Frcu y	b c	
30	0.0	0.00	0.0	0.00	NNE:N	NNE	2.7	0.24	290	c mo	c mo St Frcu y	c Frcu b y	c	
30	0.0	0.00	0.0	0.00	NNE	NNE	1.6	0.14	250	c	c St Stcu	c Stcu y		
Means	2.4	0.54	2.3	0.50	..	..	..	0.21	251					
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 $54^{\circ}1$, being $0^{\circ}8$ lower than
 The mean Temperature of the Dew Point for the month was $49^{\circ}1$, being $1^{\circ}7$ lower than
 The mean Degree of Humidity for the month was 69.3 , being 3.9 less than

The mean Elastic Force of Vapour for the month was 0.351 in., being 0.024 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 0.395 . The maximum daily amount of Sunshine was 13.7 hours on June 24.

The highest reading of the Solar Radiation Thermometer was $151^{\circ}8$ on June 7; and the lowest reading of the Terrestrial Radiation Thermometer was $52^{\circ}4$ on June 22.

The Proportions of Wind referred to the cardinal points were N.16, E.7, S.22, W.39, calm or nearly calm conditions 1° , the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 12.0 lbs. on the square foot on June 2. The mean daily Horizontal Movement of the Air for the month was 252 miles; the greatest daily value was 403 miles on June 3 and the least daily value was 102 miles on June 9.

Rain (0.005 in. or over) fell on 12 days in the month, amounting to 1.487 in., as measured by gauge No. 6 partly sunk below the ground; being 0.551 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 1943	BAROMETER	TEMPERATURE								Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 Inches above the Ground	Daily 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						
	Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least	Highest in Sun's Rays	Lowest on the Grass					
July 1	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours
	30.031	73.7	52.9	20.8	62.2	+ 0.7	55.9	50.3	11.9	22.6	4.1	66	138.1	52.7	56.5	0.000	13.4	16.6
	30.033	76.6	51.3	25.3	63.8	+ 2.2	56.2	49.5	14.3	30.2	4.9	60	135.4	49.6	56.4	0.000	10.7	16.6
	30.010	79.4	54.3	25.1	64.6	+ 2.8	55.8	47.8	16.8	39.5	2.7	54	141.9	41.1	56.6	0.000	10.9	16.5
	29.919	79.2	56.2	23.0	66.8	+ 4.7	59.4	53.5	13.3	26.4	2.0	62	140.1	40.5	56.9	0.000	8.1	16.5
	29.780	70.0	59.0	11.0	63.7	+ 1.4	57.0	51.4	12.3	14.9	7.4	64	105.7	50.1	57.0	0.000	0.8	16.5
	29.555	69.3	53.1	16.2	60.4	- 2.0	53.6	47.1	13.3	24.1	6.7	61	126.8	43.8	57.1	0.072	6.6	16.5
	29.556	69.7	49.8	19.9	59.1	- 3.3	51.6	43.6	15.5	31.1	3.8	57	132.4	41.9	57.1	0.004	9.9	16.5
	29.670	66.1	48.6	17.5	56.7	- 5.7	50.9	44.9	11.8	21.4	3.0	64	134.3	35.2	57.2	0.100	6.1	16.4
	29.760	65.2	46.9	18.3	57.5	- 4.9	53.2	49.2	8.3	14.5	1.6	73	105.6	36.3	57.0	0.047	1.8	16.4
	29.746	62.2	49.5	12.7	57.1	- 5.4	53.9	51.0	6.1	11.7	3.4	80	93.5	39.2	57.0	0.020	0.2	16.4
	29.663	69.4	56.4	13.0	62.9	+ 0.2	60.3	58.5	4.4	7.7	1.3	85	103.7	55.7	57.1	0.240	0.1	16.3
	29.619	73.7	56.0	17.7	64.2	+ 1.3	57.5	52.0	12.2	28.3	3.4	65	136.3	48.7	57.2	0.037	5.1	16.3
	29.774	69.3	51.8	17.5	60.6	- 2.5	53.5	46.6	14.0	21.2	5.2	60	132.1	44.5	57.1	0.000	9.7	16.3
	29.929	66.9	50.6	16.3	58.7	- 4.6	53.3	48.1	10.6	16.8	2.6	68	116.5	40.6	57.1	0.000	2.5	16.3
	29.807	73.1	55.7	17.4	63.2	- 0.2	58.5	54.8	8.4	17.0	3.5	74	133.3	47.2	57.3	0.155	2.8	16.2
	29.929	75.8	57.8	18.0	65.9	+ 2.5	59.8	55.1	10.8	20.7	2.4	68	129.3	45.5	57.4	0.010	7.8	16.2
	29.959	73.0	55.3	17.7	64.0	+ 0.6	56.5	50.0	14.0	25.7	1.6	61	136.1	43.4	57.4	0.000	14.6	16.1
	29.774	68.9	55.6	13.3	60.4	- 2.9	55.5	51.2	9.2	15.7	5.6	72	131.0	49.7	57.3	0.000	3.0	16.1
	29.665	69.0	55.4	13.6	62.1	- 1.1	57.0	52.7	9.4	14.9	4.5	72	118.9	51.5	57.6	0.000	0.5	16.1
	29.667	71.4	55.1	16.3	62.8	- 0.4	57.6	53.3	9.5	14.7	2.0	71	131.6	54.3	57.7	0.090	5.0	16.0
	29.774	66.0	57.3	8.7	61.3	- 1.9	60.2	59.4	1.9	4.3	0.0	93	76.4	56.3	57.6	0.483	0.0	16.0
	29.947	68.8	54.8	14.0	59.7	- 3.4	56.2	53.3	6.4	12.4	2.2	79	117.2	54.1	57.6	0.000	5.3	16.0
	29.975	60.9	53.4	7.5	57.0	- 6.0	54.0	51.3	5.7	9.1	2.0	81	72.0	52.7	57.7	0.000	0.1	15.9
	29.898	67.0	55.2	11.8	60.5	- 2.4	57.2	54.5	6.0	11.1	1.8	81	92.3	49.0	57.8	0.000	0.0	15.9
	29.826	78.4	50.7	27.7	64.3	+ 1.6	58.8	54.5	9.8	19.8	1.4	71	133.9	40.5	57.9	0.000	11.7	15.8
	29.778	80.6	53.3	27.3	67.1	+ 4.6	60.6	55.7	11.4	25.5	1.4	67	140.3	42.5	58.0	0.000	9.4	15.8
	29.852	83.8	59.3	24.5	70.6	+ 8.2	62.0	55.7	14.9	30.8	4.8	59	149.3	48.6	58.0	0.000	9.3	15.7
	29.960	84.4	61.3	23.1	71.5	+ 9.2	64.2	59.3	12.2	27.4	1.9	65	147.2	53.0	58.3	0.000	10.3	15.7
	30.021	84.7	59.6	25.1	72.0	+ 9.7	64.2	59.0	13.0	24.4	1.9	64	149.7	47.5	58.5	0.000	11.0	15.6
	29.977	87.7	59.1	28.6	72.4	+10.1	63.6	57.5	14.9	30.8	2.0	59	147.3	46.5	58.8	0.000	12.9	15.6
	29.736	89.0	61.5	27.5	74.3	+12.1	65.7	60.2	14.1	27.4	1.1	61	145.3	51.2	59.2	0.590	12.1	15.5
Means	29.825	73.3	54.7	18.6	63.5	+ 0.8	57.5	52.6	10.9	20.7	3.0	68.3	125.6	46.9	57.5	Sum 1.848	6.5	16.1
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the Barometer for the month was 29.825 in., being 0.019 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 89°.0 on July 31; the lowest in the month was 46°.9 on July 9; and the range was 42°.1.

The mean of all the highest daily readings in the month was 73°.3, being 1°.2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 54°.7, being 0°.9 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 18°.6, being 0°.3 greater than the average for the 65 years, 1841-1905.

The mean for the month was 63°.5, being 0°.8 higher than the average for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	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	hours	lbs.	lbs.	miles										
2	0.9	0.21	0.9	0.21	NNE:N	E:NE	1.6	0.17	260	c	bc b Frst y		b Frst	b c	
3	2.7	0.60	2.7	0.60	NNE:N	NNE:NE	1.0	0.12	218	c	c bc Stcu b y		Ci y	b c b	
4	4.7	1.00	4.7	1.00	N:Calm	N: Calm	0.6	0.05	142	b c	c b Ci y		ci so-ha	bc	
5	1.5	0.31	1.2	0.26	SSW:WSW	WW: NW	1.0	0.10	220	bc w	b Acu c Ci Frst y		Acu y	c y c	
6	3.5	0.75	3.3	0.69	NNW:N:Calm	Calm: SW	1.2	0.05	141	c	c St Frst Stcu		Frst Stcu y	c po bc	
7	4.7	0.98	4.7	0.98	SW:WSW	SW:WSW	3.7	0.30	310	bc b	c Stcu Acu Cumb		Cumb p t l b Stcu Ci	b	
8	2.7	0.56	2.5	0.52	WSW:NW	NW:Calm	1.9	0.20	262	b	b c Frst Acu Cumb y		bc y c p t	c t1 bc	
9	4.4	0.93	4.4	0.93	WSW:NW	NNW:NW	4.4	0.14	201	b c	c Stcu Acu Cumb y		bc Acu Cu Stcu Cumb p t bc	po bc b	
10	2.0	0.41	1.9	0.39	WSW:SW	SW: NW	2.5	0.18	261	b c	c Ast Acu Frst Cumb ir ro		Nbst ir c	c	
11	0.0	0.00	0.0	0.00	WSW:WSW	SSW:WSW	2.8	0.18	270	c b c	c Ast Nbst ir		ir Frst	c ro c	
12	4.8	0.95	4.7	0.93	SW	SW	3.2	0.50	382	rr	c Frst		C so-ha bc y	c ir d	
13	5.0	1.00	5.0	1.00	WSW:W	WS:WSW	4.5	0.66	420	c ir d	c ir d c Cist Ci Cumb y		bc b	bc b	
14	2.6	0.52	2.5	0.50	WSW	SW	5.0	0.45	444	b	b c Frst Frst Cumb y		ro bc y	c bc c	
15	0.1	0.01	0.1	0.01	SW	SW:W	3.0	0.22	277	c	c brn c Stcu Macu y		Stcu Frst iro Nbst	ir o rr	
16	5.0	1.00	5.0	1.00	Calm	Calm	0.2	0.00	89	r c	c bc Acu Stcu y		Frst Ci zo y	b	
17	2.3	0.41	1.4	0.25	ESE:SE	E:ESE	4.4	0.37	285	b w	b y		bc y	bc	
18	1.3	0.23	1.1	0.21	E:ESE	E:ENE	5.0	0.62	357	b c	c Frst Ci Ast		ci Ast i-so-ha c p	c	
19	0.0	0.00	0.0	0.00	NE:ENE	ENE:NE	3.7	0.32	312	c	c Frst		Frst Acu	c	
20	0.0	0.00	0.0	0.00	NE	NE	3.3	0.37	344	c	c Acu Ci Frst		ci Frst Stcu	Do c R	
21	0.0	0.00	0.0	0.00	NE:NNE	Calm:NNE	1.7	0.16	237	ir R t l ir	ir Nbst		rr dd	c 1d o	
22	0.0	0.00	0.0	0.00	NNE	NNE	2.1	0.17	256	c ido	c Frst		Frst Stcu b	b c	
23	0.0	0.00	0.0	0.00	NNE	Calm	0.3	0.02	122	c	c Ast Frst		c Ast Frst	c b	
24	5.7	0.96	4.0	0.67	Calm	Calm:SSW	0.1	0.00	49	c	c ro c St Frst		b Frst zo y	b	
25	6.0	1.00	6.0	1.00	Calm	Calm:SSW	0.2	0.01	92	b	b bc Frst b zo y		bc c Ci Acu y	c b	
26	2.9	0.48	2.5	0.42	Calm	SW	0.5	0.03	131	b w	b zo bc Ci Frst y		bc y Acu Cicu Ci	c	
27	4.0	0.66	2.9	0.47	SW:WSW	SW:WSW	1.4	0.08	192	b c	c bc Acu Cicu Ci		bc Ci Cicu Cu y	c b	
28	6.0	1.00	6.0	1.00	WSW	WSW	1.7	0.07	189	c bc	c f no bc Cu Frst y		bc y	bc b	
29	6.0	1.00	6.0	1.00	Calm	Calm	0.3	0.01	114	b m	b z bc Frst y		bc Ci Frst y	bc b	
30	6.0	1.00	6.0	1.00	E	E	1.2	0.02	139	b	b bc Ci Cist y		bc	r RTLbc	
31	2.4	0.37	2.1	0.33	Calm:E	E:ESE:SW	4.7	0.07	186	b	b zo y				
Means	2.8	0.53	2.6	0.50	..	..	..	0.20	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 57°.5, being 0°.4 lower than

The mean Temperature of the Dew Point for the month was 52°.6, being 1°.5 lower than

The mean Degree of Humidity for the month was 68.3, being 4.9 less than

The mean Elastic Force of Vapour for the month was 0.399 in., being 0.022 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 6.8.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.403. The maximum daily amount of Sunshine was 14.6 hours on July 17.

The highest reading of the Solar Radiation Thermometer was 149°.7 on July 29; and the lowest reading of the Terrestrial Radiation Thermometer was 35°.2 on July 8.

The Proportions of Wind referred to the cardinal points were N.18, E.17, S.16, W.17, calm or nearly calm conditions 22, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 5.7 lbs. on the square foot on July 15. The mean daily Horizontal Movement of the Air for the month was 233 miles; the greatest daily value was 444 miles on July 13 and the least daily value was 49 miles on July 24.

Rain (0.005 in. or over) fell on 11 days in the month, amounting to 1.848 in., as measured by gauge No.6 partly sunk below the ground; being 0.551 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 1943	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 Dura- tion 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						
		Fig	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least	Highest in Sun's Rays	Lowest on the Grass						
Aug. 1	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours
2	29.599	75.8	59.3	16.5	67.4	+ 5.2	62.1	58.4	9.0	17.4	1.2	73	139.7	51.8	59.5	0.282	10.7	15.5		
3	29.705	71.0	58.9	12.1	64.4	+ 2.3	57.9	52.6	11.8	18.3	4.1	66	127.7	51.4	59.5	0.000	5.4	15.4		
4	29.718	75.0	56.9	18.1	64.9	+ 2.8	58.6	53.6	11.3	22.7	2.0	67	142.3	50.1	59.6	0.000	4.7	15.4		
5	29.702	74.1	54.7	19.4	64.3	+ 2.2	57.4	51.6	12.7	23.5	2.6	64	132.3	43.1	59.7	0.000	5.5	15.3		
6	29.480	72.6	56.6	16.0	63.5	+ 1.4	58.5	54.5	9.0	23.1	1.4	73	138.3	52.5	59.7	0.415	5.9	15.3		
7	29.595	67.2	56.1	11.1	60.9	- 1.3	57.0	53.8	7.1	12.0	1.4	77	108.3	51.6	59.7	0.166	2.2	15.2		
8	29.923	67.0	55.2	11.8	60.0	- 2.2	54.6	49.8	10.2	19.1	4.7	69	105.0	49.5	59.6	0.015	0.0	15.1		
9	29.775	71.9	53.9	18.0	62.8	+ 0.5	58.2	54.6	8.2	12.3	4.3	74	125.2	48.1	59.6	0.000	3.3	15.1		
10	29.802	71.1	55.5	15.6	64.4	+ 2.1	57.7	52.2	12.2	22.3	4.7	65	134.6	44.0	59.6	0.000	9.8	15.0		
11	29.783	77.0	53.4	23.6	63.4	+ 1.1	58.7	55.1	8.3	18.4	1.3	74	135.7	41.8	59.6	0.001	4.6	15.0		
12	29.705	69.0	48.7	20.3	60.2	- 2.2	55.4	51.1	9.1	17.0	2.4	72	129.2	34.7	59.7	0.007	1.5	14.9		
13	29.925	71.8	44.4	27.4	58.4	- 4.1	51.1	43.3	15.1	28.6	1.3	57	141.7	30.4	59.6	0.000	9.0	14.9		
14	29.698	74.1	56.9	17.2	62.7	+ 0.2	57.4	53.0	9.7	21.4	2.7	71	143.3	51.1	59.6	0.005	2.4	14.8		
15	29.622	72.6	56.6	16.0	63.7	+ 1.2	57.0	51.4	12.3	25.5	1.0	64	130.3	46.0	59.6	0.112	7.7	14.7		
16	29.956	70.8	49.5	21.3	60.3	- 2.1	52.8	45.2	15.1	27.4	3.6	58	125.3	38.6	59.6	0.000	12.3	14.7		
17	30.037	80.9	48.8	32.1	65.8	+ 3.5	57.4	50.2	15.6	32.4	2.0	57	140.0	37.1	59.6	0.000	13.3	14.6		
18	29.981	78.5	56.7	21.8	66.0	+ 3.9	61.5	58.4	7.6	26.1	2.4	77	139.5	44.4	59.7	0.000	6.7	14.6		
19	29.738	81.0	60.8	20.2	70.0	+ 8.1	62.5	57.2	12.8	29.9	1.7	63	138.7	48.0	59.7	0.000	7.7	14.5		
20	29.768	78.9	52.5	26.4	65.6	+ 3.9	58.3	52.3	13.3	26.4	1.9	62	145.4	39.1	59.7	0.000	11.6	14.4		
21	29.630	82.5	55.4	27.1	68.1	+ 6.6	61.2	56.1	12.0	25.6	3.0	66	140.1	44.1	59.9	0.015	4.8	14.4		
22	29.479	70.0	58.3	11.7	64.3	+ 3.0	61.2	59.0	5.3	8.8	1.5	83	107.1	48.0	59.8	0.123	0.4	14.3		
23	29.628	72.4	52.3	20.1	62.1	+ 1.0	56.2	51.0	11.1	23.2	1.4	68	138.3	42.0	59.8	0.010	10.2	14.3		
24	29.825	74.0	52.9	21.1	61.2	+ 0.3	55.1	49.6	11.6	27.0	1.4	66	141.7	42.7	60.0	0.015	10.6	14.2		
25	29.860	74.4	47.5	26.9	60.2	- 0.6	53.7	47.5	12.7	26.1	1.5	63	141.9	34.5	60.0	0.000	9.9	14.1		
26	29.724	72.1	54.6	17.5	62.6	+ 1.9	56.0	50.2	12.4	28.9	2.2	64	136.4	40.7	60.0	0.025	9.1	14.1		
27	29.657	68.1	53.8	14.3	59.3	- 1.4	55.3	51.9	7.4	19.0	1.2	77	111.2	46.1	59.7	0.284	3.0	14.0		
28	29.726	69.1	49.5	19.6	58.3	- 2.3	52.3	46.5	11.8	23.5	3.2	64	126.7	41.0	59.7	0.006	9.1	14.0		
29	29.777	67.6	51.3	16.3	59.0	- 1.4	55.9	53.4	5.6	11.0	2.4	81	108.8	41.1	59.6	0.048	0.6	13.9		
30	29.837	72.4	59.2	13.2	64.3	+ 4.0	59.8	56.5	7.8	12.5	3.9	76	128.9	53.7	59.6	0.041	4.4	13.8		
31	29.696	66.6	55.2	11.4	62.8	+ 2.7	57.6	53.3	9.5	14.8	2.8	71	113.6	44.0	59.6	0.000	2.9	13.8		
Means	29.750	73.0	54.1	18.9	63.0	+ 1.3	57.2	52.4	10.6	21.5	2.4	68.7	130.4	44.2	57.5	Sum 1.570	6.2	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 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.

The mean reading of the Barometer for the month was 29.750 in., being 0.040 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was $82^{\circ}5$ on August 20; the lowest in the month was $44^{\circ}4$ on August 12; and the range was $38^{\circ}1$.

The mean of all the highest daily readings in the month was $73^{\circ}0$, being $2^{\circ}2$ higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was $54^{\circ}1$, being $0^{\circ}5$ higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was $18^{\circ}9$, being $1^{\circ}7$ greater than the average for the 65 years, 1841-1905.

The mean for the month was $63^{\circ}0$, being $1^{\circ}3$ higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS				CLOUDS AND WEATHER					
	Polaris		δ URSAE MINORIS		OSLER'S			Robin- son's						
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot	Horizontal Move- ment of the Air						
	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures				0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h			
Aug. 1	hours	hours	SW	lbs.	lbs.	miles	c R it l c	c Stcu Cu Cumb y	c Cu Cumb v p bc y	b				
2	4.7	0.72	4.0	0.62	SW:SSW	7.5	0.60	355	bc Ci Cu c Stcu y	c Stcu Frcu y	c b c			
3	1.2	0.19	1.0	0.15	Calm	3.5	0.24	335	c mo	c Ct Cu so-ha y	c bc			
4	4.5	0.70	4.0	0.61	Calm:SSW	0.0	0.00	126	c bc Cicu Acu Ci c y	c b y	b y c			
5	1.7	0.26	1.1	0.16	S:SW	1.1	0.03	165	c Ci Frcu Frst p	c Frcu Ci p y	p c r R			
6	0.9	0.14	0.6	0.09	SSW:SSW	3.8	0.27	306	c	c Frst	c bc			
7	1.9	0.29	1.9	0.29	SSW:N:NW	NNW: NW	2.4	0.18	272	ro r c	c ido y	ir ro c		
8	1.0	0.14	0.6	0.08	NW:WSW	1.9	0.10	233	bc c	c Ast Cu Frcu y do	c			
9	0.0	0.00	0.0	0.00	SW:WSW	7.5	0.95	460	c bc A cu Stcu	bc c A cu Stcu	c dc b			
10	6.7	0.96	6.5	0.93	WSW:NW	4.4	0.42	291	c Frcu y	c Stcu A cu bc y	c Cicu			
11	1.5	0.22	1.1	0.16	Calm:SW	2.3	0.13	228	b c	c Nbst do c ro mo				
12	7.0	1.00	7.0	1.00	WSW:WNW	N:Calm	5.0	0.25	270	c Stcu Frcu Ci Cumb y	c Cumb Stcu po c	dc b		
13	0.0	0.14	0.4	0.05	Calm:WSW	SW	2.0	0.12	208	bc Stcu Ci y	bc c Cist Frcu so-ha c y	c c		
14	0.0	0.00	0.0	0.00	SW	5.6	0.54	362	c Nbst ido y	c Cist Ci A cu Frcu y	c id			
15	6.7	0.90	6.7	0.90	W:WNW	WSW:WNW	3.5	0.40	306	id rr	bc Frcu Ci v b y	c b		
16	7.1	0.94	7.1	0.94	NW:WSW:W	W:WSW	1.8	0.17	244	b	c	dc dc		
17	7.5	1.00	7.5	1.00	Calm:SW	WSW:Calm	2.2	0.16	210	b Ci y	b y	c bc		
18	5.2	0.69	4.1	0.55	E	E	2.4	0.20	220	bc Ast Ci bc so-ha y	bc C i Cist so-ha b y	b y		
19	7.5	1.00	7.5	1.00	Calm:SW	WSW:W	1.5	0.19	243	bc Cist so-ha y	bc Frcu Ci c so-ha y	c c		
20	4.5	0.60	3.9	0.52	WSW:SW	SSW	1.2	0.07	174	b bc Frcu y	c Ci A cu Cist so-ha y	c ro r		
21	0.0	0.00	0.0	0.00	Calm:SSW	SSW:Calm	1.7	0.14	195	c Ast Ci y	c Nbst ir o	p c b		
22	7.7	0.96	7.4	0.92	Calm:SSW	SW	1.8	0.13	177	rr	bc y	bc b bc		
23	7.3	0.92	7.1	0.89	SW	SW	4.8	0.35	308	b c Cu Cumb p y	bc Frcu Cu v c p y	dc b		
24	7.8	0.97	7.8	0.97	SW:WSW	WSW:SW	3.4	0.17	266	bc b	c Cicu A cu Frcu v y	c Cicu A cu Frcu bc y	dc b	
25	4.0	0.50	3.8	0.48	Calm:SSW:S	Calm:SSW:S	0.5	0.01	117	b w m	bc c Ci Cicu Frcu y	bc c bc Frcu Cu y	dc b bc	
26	3.7	0.46	1.8	0.22	SSE:SSW:SW	WSW:SW	5.0	0.35	301	c r c	bc Cu Nbst p y	c p bc y	dc c b	
27	6.6	0.82	6.1	0.76	S:Calm	WSW	2.2	0.11	202	bc c rr	rr Nbst Ast c	c b		
28	5.4	0.68	4.6	0.57	SW:WSW	W:WSW	5.7	0.71	364	b	b bc Frcu c y	c ro c b c		
29	1.0	0.12	0.9	0.11	SW:SSW	SW:WSW	7.0	0.67	373	b c	c Ast Nbst r ro	c c		
30	1.1	0.13	0.8	0.09	WSW	SW	5.5	0.42	354	c	c Stcu	c d		
31	8.5	1.00	8.5	1.00	WSW:WSW	W:Calm	7.7	1.01	462	b c d b c Stcu Frcu	c Stcu Cu y	c b		
Means	4.1	0.55	3.8	0.50	0.29	267		c Acu Frcu Stcu y	c bc Stcu c y	c b bc c		
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31	

The mean Temperature of Evaporation for the month was $57^{\circ}2$, being $0^{\circ}3$ lower than

The mean Temperature of the Dew Point for the month was $52^{\circ}4$, being $1^{\circ}9$ lower than

The mean Degree of Humidity for the month was 68.7, being 8.1 less than

The mean Elastic Force of Vapour for the month was 0.396 in., being 0.028 in. less than

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

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.427. The maximum daily amount of Sunshine was 13.3 hours on August 16.

The highest reading of the Solar Radiation Thermometer was $145^{\circ}4$ on August 19; and the lowest reading of the Terrestrial Radiation Thermometer was $30^{\circ}4$ on August 12.

The Proportions of Wind referred to the cardinal points were N.5, E.3, S.31, W.45, calm or nearly calm conditions 16, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 7.7 lbs. on the square foot on August 30. The mean daily Horizontal Movement of the Air for the month was 267 miles; the greatest daily value was 462 miles on August 30 and the least daily value was 117 miles on August 24.

Rain (0.005 in. or over) fell on 16 days in the month, amounting to 1.570 in., as measured by gauge No.6 partly sunk below the ground; being 0.774 in. less than the average fall for the 65 years, 1841-1905.

the average for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	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 No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sun- shine	Sun above Horizon	
		Of the Air				Of Evapo- ration	Of the Dew Point					Of Radiation	Of the Earth 4 ft. below the Surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least	Highest in Sun's Rays	Lowest on the Grass					
Sept. 1	29.817	69.7	56.5	13.2	61.5	+ 1.7	57.8	54.9	6.6	12.3	3.1	79	118.5	46.1	59.6	0.014	0.3	13.6
2	29.834	69.0	53.9	15.1	59.6	- 0.1	54.9	50.7	8.9	19.9	1.4	72	120.6	47.4	59.5	0.050	4.9	13.6
3	29.996	66.0	46.4	19.6	57.6	- 2.0	52.3	47.1	10.5	19.4	1.4	68	107.1	30.0	59.6	0.000	2.8	13.5
4	29.992	72.4	49.6	22.8	60.2	+ 0.7	53.8	47.8	12.4	25.0	1.6	63	135.9	36.0	59.5	0.000	10.4	13.5
5	29.769	70.1	56.0	14.1	62.0	+ 2.6	56.5	51.7	10.3	21.9	3.6	69	100.1	46.0	59.4	0.010	1.7	13.4
6	29.818	72.0	50.4	21.6	59.6	+ 0.4	53.9	48.7	10.9	25.2	1.2	67	136.2	38.3	59.4	0.000	8.2	13.3
7	29.905	68.2	47.4	20.8	57.4	- 1.6	53.6	50.1	7.3	16.1	0.8	77	121.9	35.1	59.2	0.010	2.3	13.3
8	29.894	71.3	49.4	21.9	58.6	- 0.2	53.6	48.9	9.7	25.0	1.2	70	123.1	37.1	59.1	0.000	6.8	13.2
9	29.848	69.3	46.5	22.8	58.8	+ 0.2	54.1	49.8	9.0	23.8	1.2	72	129.3	33.1	59.1	0.270	8.1	13.1
10	29.699	72.3	59.5	12.8	64.0	+ 5.6	60.7	58.3	5.7	13.7	1.9	81	121.3	54.1	59.0	0.238	0.8	13.0
11	29.748	78.6	60.6	18.0	66.9	+ 8.8	62.7	59.9	7.0	22.0	0.7	78	133.0	51.5	59.0	0.258	7.5	13.0
12	29.654	71.0	59.7	11.3	64.3	+ 6.3	62.2	60.8	3.5	8.8	0.5	89	125.6	50.2	59.2	0.354	2.2	12.9
13	29.496	76.9	59.2	17.7	66.3	+ 8.5	63.1	61.0	5.3	15.8	0.6	83	120.0	49.0	59.3	0.002	2.0	12.9
14	29.498	73.3	55.6	17.7	63.9	+ 6.2	59.8	56.8	7.1	15.2	1.3	77	129.1	45.4	59.4	0.030	7.0	12.8
15	29.820	70.0	56.6	13.4	60.6	+ 3.0	55.0	50.0	10.6	21.5	3.4	68	135.5	49.1	59.6	0.000	8.1	12.7
16	29.983	68.1	54.7	13.4	61.9	+ 4.4	57.4	53.8	8.1	12.6	1.2	74	110.1	44.8	59.5	0.000	1.1	12.7
17	29.799	69.2	52.6	16.6	59.7	+ 2.5	56.3	53.5	6.2	13.5	1.0	80	115.9	41.5	59.5	0.000	3.0	12.6
18	29.855	64.8	44.9	19.9	54.5	- 2.4	50.6	46.7	7.8	17.0	0.6	75	117.6	33.8	59.3	0.000	6.4	12.5
19	29.935	67.0	46.6	20.4	53.5	- 3.0	50.5	47.4	6.1	19.9	1.2	80	127.4	33.3	59.3	0.000	3.8	12.5
20	29.771	65.8	48.0	17.8	55.6	- 0.6	52.0	48.5	7.1	15.3	1.9	77	108.5	36.0	59.0	0.021	3.0	12.4
21	29.770	55.9	43.4	12.5	49.8	- 6.1	45.7	40.8	9.0	16.5	3.0	71	89.5	32.5	58.9	0.000	1.2	12.3
22	29.963	58.0	38.0	20.0	48.1	- 7.5	42.9	35.7	12.4	25.0	2.6	62	114.9	27.5	58.7	0.000	9.7	12.3
23	30.009	68.2	34.7	33.5	51.1	- 4.3	45.3	37.8	13.3	26.4	0.9	61	119.4	23.4	58.5	0.000	9.9	12.2
24	29.835	70.5	45.0	25.5	56.7	+ 1.4	51.1	45.3	11.4	24.2	1.4	66	122.7	33.5	58.2	0.020	9.6	12.2
25	29.727	58.0	47.7	10.3	51.1	- 4.1	46.9	42.0	9.1	17.8	2.3	71	111.8	40.3	58.0	0.166	5.7	12.1
26	29.721	56.1	39.3	16.8	48.4	- 6.8	43.9	38.0	10.4	22.1	0.9	67	103.3	27.0	57.8	0.000	6.1	12.0
27	29.949	55.3	38.4	16.9	46.7	- 8.4	42.1	35.7	11.0	23.2	1.5	65	105.4	27.1	57.6	0.000	7.2	11.9
28	29.624	56.6	46.0	10.6	51.7	- 3.2	48.9	45.9	5.8	13.7	3.2	81	69.3	42.0	57.2	0.277	0.0	11.9
29	29.891	57.8	49.8	8.0	54.2	- 0.5	51.0	47.9	6.3	13.9	1.2	79	81.7	44.0	57.1	0.010	0.4	11.8
30	29.885	63.5	54.0	9.5	58.3	+ 3.9	56.5	55.0	3.3	4.4	1.8	89	81.8	50.0	57.0	0.002	0.0	11.8
Means	29.817	66.8	49.7	17.1	57.4	+ 0.2	53.2	49.0	8.4	18.4	1.6	73.7	114.5	39.6	58.9	Sum 1.732	4.7	12.7
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the Barometer for the month was 29.817 in., being 0.001 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 78°.6 on September 11; the lowest in the month was 34°.7 on September 23; and the range was 43°.9.

The mean of all the highest daily readings in the month was 68°.8, being 0°.6 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 49°.7, being equal to the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17°.1, being 0°.6 greater than the average for the 65 years, 1841-1905.

The mean for the month was 57°.5, being 0°.2 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					Robin- son's	CLOUDS AND WEATHER				
	POLARIS		δ URSAE MINORIS		OSLER'S						CLOUDS AND WEATHER				
	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							
Sept. 1	hours	hours	hours	hours	SW:SSW	SSW	1bs.	lbs.	miles	c Ast Stcu Frcu do	c Stcu do c p	c Stcu do c p	c ro		
2	0.0	0.00	0.0	0.00	WSW	W:WSW	0.8	0.07	197	c Ci Acu Cist so-ha y	c Cist Ci Frcuso-ha y	c Cist Ci Frcuso-ha y	c bc b		
3	7.9	0.93	7.9	0.93	Calm	Calm:NN:NE	1.4	0.06	190	b m o	c zo c y	c zo c y	c b		
4	0.84	0.84	6.9	0.81	Calm:SE	SSE:SE	0.4	0.01	108	b m o	b Ci bc Cu y	b Ci bc Cu y	bc		
5	0.65	0.65	3.5	0.39	SSE:S	SSW:SW	1.0	0.05	158	b w	bc Ci Cu y	bc Ci Cu y	c bc		
	0.0	0.00	0.0	0.00			2.7	0.21	271	b c	c ir d c	c ir d c			
6	0.0	0.00	0.0	0.00						c Acu Ci y	c Acu Ci y				
7	8.9	0.98	8.9	0.98	SW:WSW	SW:WSW	4.2	0.31	315	bc b	b Frcu Cu bc Stcu y	b Frcu Cu bc Stcu y	c b		
8	7.2	0.80	7.0	0.77	SSW:SW	SSW:SW	1.8	0.05	208	b c	c Ci Acu Stcu Nbst iro	c Ci Acu Stcu Nbst iro	b		
9	9.0	1.00	9.0	1.00	SSW:Calm	Calm	0.2	0.00	108	b c m o w	c bc Stcu Frst Ci Cu y	c bc Stcu Frst Ci Cu y	c b		
10	0.0	0.00	0.0	0.00	Calm:E	E	4.0	0.40	263	b w f	b fc Ci Cu i-so-ha y	b fc Ci Cu i-so-ha y	c rr R r		
	0.7	0.07	0.6	0.06	E:Calm:SSW	E:Calm:SSW	1.1	0.05	126	rr o c	c Nbst	c Nbst	ct l R R		
11	2.3	0.24	2.1	0.22	E:Calm	Calm	1.0	0.02	96	R it l R R c m o	c Stcu Cu bc Frcu Ci y	c Stcu Cu bc Frcu Ci y	bc b c m		
12	2.2	0.23	1.5	0.16	ENE	E	1.5	0.13	214	c m	c Stcu Frst m o	c Stcu Frst m o	c it l R m o		
13	8.8	0.92	8.6	0.90	Calm	SSW:SW	0.9	0.07	158	c bc c	c Nbst Stcu iro	c Nbst Stcu iro	b		
14	1.5	0.16	1.5	0.16	Calm:SSW	SSW:S	3.5	0.16	210	b c b	b bc Ci Cicu Acu Nbst p	b bc Ci Cicu Acu Nbst p	c bc d c r c		
15	2.1	0.22	1.5	0.16	NN:W	WSW:SW	4.4	0.32	347	c	c bc Ci Frcu Acu y	c bc Ci Frcu Acu y	b c		
16	5.3	0.56	4.2	0.45	SW	WSW:WNW:NNW	SW: S	2.9	0.22	284	c	c Stcu	c Stcu	c bc	
17	8.0	0.84	7.6	0.80	SSE:SW	WSW:WNW:NNW	1.2	0.07	197	bc b w	b c Acu Ast Ci	b c Acu Ast Ci	c bc b		
18	6.1	0.61	4.4	0.44	NW:W	Calm	0.5	0.01	112	b w m	b m o c	b m o c	c b b c m		
19	5.5	0.55	5.1	0.51	Calm	Calm:SSW	0.6	0.01	89	bc c w m	b c Acu Cu c bc m o	b c Acu Cu c bc m o	bc b		
20	9.5	0.95	9.1	0.91	SSW:SW	NW:W	2.0	0.19	275	b c id	id Nbst c Stcu Nbst	id Nbst c Stcu Nbst	b		
21	8.8	0.88	8.6	0.86	WSW:WNW	WSW:WNW	0.8	0.05	183	b bc w	bc Acu c Ast so-ha r o y	bc Acu c Ast so-ha r o y	b bc b		
22	10.0	1.00	10.0	1.00	NNE:N	N: Calm	2.4	0.11	192	b	b Stcu Cu y	b Stcu Cu y	b m o		
23	8.2	0.82	7.8	0.78	Calm:WSW	SW:SSW	0.7	0.03	179	b x m	b bc Ci Cicu y	b bc Ci Cicu y	b c b m o		
24	2.8	0.28	2.8	0.28	SW:WSW	WSW	2.0	0.04	200	b c b w m o	b Ci Cu y	b Ci Cu y	b c r r o		
25	5.8	0.57	5.8	0.57	N:NNW	N:NNW	1.2	0.14	226	rr o c	c bc Ci Frcu Stcu y	c bc Ci Frcu Stcu y	b c r o c		
26	10.0	0.97	10.0	0.97	Calm:N	N:NE	1.0	0.07	166	b x m o	b Ci c Stcu so-ha y	b Ci c Stcu so-ha y	b c b		
27	0.0	0.00	0.0	0.00	N: Calm	NW:Calm:SSW	0.6	0.05	162	b m w x	b Acu Cu Frcu y	b Acu Cu Frcu y	c m		
28	1.4	0.14	1.2	0.11	SSW:NW	NNW:NNW	7.6	0.57	380	c ir	ir c Stcu Frst	ir c Stcu Frst	id c b c		
29	0.0	0.00	0.0	0.00	NNW:Calm	NW:Calm	1.0	0.04	155	c m o	c Acu Stcu mo	c Acu Stcu mo	c id c m o		
30	5.8	0.56	4.2	0.41	Calm:SSW	SW:WSW	1.0	0.07	174	c m o	c Ast St ido m o	c Ast St ido m o	c b		
Means	5.0	0.53	4.7	0.49	..	..	..	0.12	198				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 $53^{\circ}.2$, being $0^{\circ}.9$ lower than

The mean Temperature of the Dew-Point for the month was $49^{\circ}.0$, being $2^{\circ}.1$ lower than

The mean Degree of Humidity for the month was 73.7 , being 6.2 less than

The mean Elastic Force of Vapour for the month was 0.349 in., being 0.030 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 0.368. The maximum daily amount of Sunshine was 10.4 hours on September 4.

The highest reading of the Solar Radiation Thermometer was $136^{\circ}.2$ on September 6; and the lowest reading of the Terrestrial Radiation Thermometer was $23^{\circ}.4$ on September 23.

The Proportions of Wind referred to the cardinal points were N.13, E.8, S.25, W.26, calm or nearly calm conditions 28, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 7.6 lbs. on the square foot on September 28. The mean daily Horizontal Movement of the Air for the month was 198 miles; the greatest daily value was 380 miles on September 28 and the least daily value was 89 miles on September 19.

Rain (0.005 in. or over) fell on 14 days in the month, amounting to 1.732 in., as measured by gauge No. 6 partly sunk below the ground; being 0.416 in. less than the average for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	BAROMETER	TEMPERATURE										Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sun- shine	Sun above Horizon
		Of the Air					Of Evapo- ration	Of the Dew Point						Of Radiation	Of the Earth 4 ft. below the Surface of the Soil				
		Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least	Highest in Sun's Rays	Lowest on the Grass					
Oct. 1	in.	29.879	64.9	53.7	11.2	59.6	+ 5.5	56.7	54.3	5.3	10.8	0.8	83	93.7	45.3	57.0	0.000	0.9	11.7
2	29.943	64.4	45.2	19.2	57.0	+ 3.3	51.1	45.0	12.0	21.6	3.6	64	122.5	32.6	57.0	0.009	7.5	11.6	
3	30.118	61.7	37.1	24.6	50.2	- 3.1	45.2	39.0	11.2	21.3	1.2	65	120.8	24.5	57.0	0.000	8.9	11.6	
4	29.906	62.7	47.5	15.2	55.0	+ 2.0	50.4	45.6	9.4	15.1	4.4	71	108.8	24.6	57.0	0.000	0.5	11.5	
5	29.746	60.5	54.6	5.9	57.5	+ 4.7	54.2	51.2	6.3	9.4	3.2	79	86.1	50.7	56.7	0.000	0.0	11.4	
6	29.571	61.3	51.4	9.9	56.8	+ 4.3	54.3	52.2	4.6	6.8	3.2	85	89.4	49.7	56.7	0.120	0.2	11.4	
7	29.824	58.3	47.3	11.0	52.0	- 0.3	48.8	45.4	6.6	14.7	2.6	78	90.3	35.0	56.6	0.062	2.1	11.3	
8	30.015	62.7	42.5	20.2	51.1	- 0.9	47.3	42.9	8.2	19.1	1.1	74	118.5	30.1	56.6	0.000	7.9	11.3	
9	30.077	63.3	39.7	23.6	51.7	+ 0.1	49.0	46.1	5.6	12.5	0.0	81	121.0	28.6	56.4	0.000	6.2	11.2	
10	30.003	66.3	53.1	13.2	57.3	+ 6.0	55.1	53.3	4.0	10.7	0.0	86	112.2	41.0	56.4	0.002*	3.8	11.1	
11	30.041	62.1	48.6	13.5	55.0	+ 4.1	53.6	52.4	2.6	9.6	0.0	91	82.7	34.2	56.2	0.002*	2.1	11.0	
12	30.018	61.1	51.4	9.7	54.6	+ 4.0	53.0	51.5	3.1	7.4	1.0	89	78.5	47.5	56.1	0.000	0.0	11.0	
13	29.955	63.1	53.0	10.1	57.0	+ 6.7	54.0	51.3	5.7	13.6	0.8	81	93.3	49.2	56.1	0.120	0.2	10.9	
14	29.936	59.1	48.4	10.7	54.4	+ 4.3	53.6	52.9	1.5	2.4	0.2	95	74.7	44.0	56.1	0.267	0.0	10.9	
15	29.808	59.5	43.2	16.3	48.8	- 1.1	46.3	43.5	5.3	13.3	0.7	81	100.7	30.0	56.1	0.000	4.0	10.8	
16	29.486	64.3	42.3	22.0	51.5	+ 1.7	48.4	45.1	6.4	15.3	1.1	78	113.8	28.9	56.1	0.000	7.2	10.7	
17	29.266	58.8	46.3	12.5	51.3	+ 1.7	48.2	44.9	6.4	17.2	0.9	78	106.7	43.0	56.0	0.305	4.9	10.7	
18	29.377	60.8	42.0	18.8	51.4	+ 2.1	48.3	45.0	6.4	13.8	0.6	78	108.2	32.7	55.9	0.025	7.1	10.6	
19	29.307	60.5	50.5	10.0	54.8	+ 5.7	52.5	50.4	4.4	10.8	1.4	85	107.5	46.1	55.8	0.520	2.76	10.5	
20	29.424	62.2	45.0	17.2	54.3	+ 5.5	51.0	47.7	6.6	14.4	0.8	79	105.6	34.9	55.5	0.010	6.7	10.5	
21	29.447	62.4	52.2	10.2	55.5	+ 6.9	53.1	51.0	4.5	11.6	1.9	85	104.4	43.7	55.4	0.316	3.2	10.4	
22	29.529	61.4	48.9	12.5	53.8	+ 5.5	51.9	50.1	3.7	11.1	0.6	87	103.7	40.3	55.4	0.385	3.8	10.3	
23	29.509	61.3	44.9	16.4	52.0	+ 3.9	50.3	48.6	3.4	9.9	0.8	88	104.3	32.8	55.2	0.179	3.5	10.3	
24	29.754	61.0	41.2	19.8	49.5	+ 1.6	47.1	44.5	5.0	12.2	0.2	83	117.4	29.1	55.1	0.000	6.4	10.2	
25	29.776	58.8	41.4	17.4	49.0	+ 1.3	46.9	44.6	4.4	12.7	0.5	85	90.7	30.8	55.0	0.000	3.0	10.1	
26	29.798	56.0	39.3	16.7	47.3	- 0.3	46.4	45.3	2.0	5.7	0.0	93	77.8	29.4	55.0	0.000	1.0	10.1	
27	29.939	56.1	42.8	13.3	48.0	+ 0.5	47.3	46.6	1.4	4.5	0.0	95	83.5	35.4	54.6	0.003*	2.2	10.0	
28	30.031	54.9	47.3	7.6	50.4	+ 3.0	49.9	49.4	1.0	2.2	0.0	97	72.9	39.6	54.5	0.009	0.7	10.0	
29	30.061	53.0	48.4	4.6	50.4	+ 3.1	49.1	47.8	2.6	6.6	1.6	91	62.2	41.0	54.3	0.000	0.0	9.9	
30	29.966	51.1	46.1	5.0	48.3	+ 1.1	47.5	46.7	1.6	4.8	0.4	94	55.4	39.6	54.2	0.000	0.0	9.8	
31	29.802	57.3	46.4	10.9	52.6	+ 5.5	51.5	50.5	2.1	4.3	0.9	92	69.5	37.7	54.2	0.006	0.0	9.8	
Means	29.784	60.4	46.5	13.8	52.8	+ 2.9	50.4	47.9	4.9	11.1	1.1	83.6	96.0	37.2	55.8	Sum 2.340	3.1	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 amounts entered on October 10, 11 and 27 are derived from dew or wet fog.

Rainfall (Column 16). The amount entered in 1841-1842 was 22.7581 in., being 0.056 in. higher than the average for the 65 years, 1841-1905.

THE THERMOPHILIC AIR

The highest temperature was $10^{\circ} 5$ on October 10; the lowest in the month was $37^{\circ} 1$ on October 3; and the range was $29^{\circ} 2$.

The highest in the month was 66.3 on October 10, the lowest in the month was 57.1 on October 25.

The mean of all the highest daily readings in the month was 60.4, being 3.4 higher than the average for the 30 years, 1871-1900.

The mean of all the lowest daily readings in the month was $46^{\circ}.5$, being $2^{\circ}.7$ higher than the average for

The mean of the daily ranges was $13^{\circ}.8$, being $0^{\circ}.6$ greater than the average for the 65 years, 184

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS						CLOUDS AND WEATHER				
	Polaris		δ URSÆ MINORIS		OSLER'S				Robinson's						
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h		
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures							
Oct. 1	hours	hours	hours	hours	SW	SW	1bs.	1bs.	miles	c Stcu Acu Cu Nbst	do Nbst c Stcu	c d c			
2	3.1	0.30	2.4	0.23	SW:W:WNW	WNW:NW	2.4	0.19	258	c b c w	dc Frcu Stcu y	bc b			
3	10.4	0.97	10.3	0.96	Calm:SW	WSW:SW	2.7	0.18	239	c b c pc	bc b y	b c b			
4	8.3	0.77	7.7	0.72	SW	SW:WSW	1.5	0.12	215	b x	b Ci c Stcu y	c Stcu	c		
5	0.2	0.02	0.0	0.00	WSW:SW	SW:SSW	4.0	0.52	364	b c	c Stcu y	c Stcu Nbst	c ido		
	0.1	0.01	0.0	0.00			4.0	0.45	352	c					
6	0.0	0.00	0.0	0.00	SSW:SW	SSW:NW:Calm	4.2	0.48	325	c Ids	c Nbst ido	c rr			
7	7.8	0.72	7.5	0.70	Calm:N	NNE:NE	0.8	0.09	174	rr c	c bc c y	c bc b bc			
8	10.3	0.95	8.2	0.76	NE:Calm	ESE:Calm	1.1	0.05	116	bc b c mw	b Acu y	b			
9	3.6	0.32	2.5	0.22	Calm	Calm	0.2	0.00	68	bc f w x	c Stcu Cu	b bc c m			
10	0.9	0.08	0.9	0.08	Calm	Calm	0.1	0.00	59	c f w	b Cu mo m	b o f fe			
11	4.2	0.37	4.0	0.36	Calm	N:Calm	0.2	0.00	61	o Fe Fe	Fe f c Acu f	b o m			
12	0.0	0.00	0.0	0.00	Calm	Calm:SSW	0.0	0.00	73	o m	c St Stcu mo	c m			
13	0.0	0.00	0.0	0.00	Calm	Calm	0.1	0.00	113	c mo	c so-ha c	c rr			
14	3.4	0.30	2.8	0.25	SSE:Calm	Calm	0.1	0.01	104	rr c m	c Nbst id dc mo	bc c m			
15	8.9	0.79	8.2	0.73	Calm	SSW:Calm	0.0	0.00	87	c f w	F b Ocu Frcu Acu mo	dc Frcu b mo	b c		
16	3.8	0.33	1.8	0.16	Calm:S	SSW:SE	1.1	0.07	168	c w mo	c b Ci Acu Cu mo bc y	b c			
17	4.9	0.43	4.9	0.43	SE:WSW	SW:S	2.2	0.10	214	bc c m	bc Frcu so-ha c y	c r c rr			
18	1.8	0.15	1.3	0.11	S:SE	S:SE	2.2	0.13	222	bc	bc b Ci Acu Stcu bc	c iro r			
19	5.2	0.45	5.1	0.44	SSE:S:SSW	S:SSW	11.7	0.50	334	c ir	c Acu Ast Nbst ro bc	rr q b			
20	8.9	0.77	8.3	0.72	SSW	SSW	5.2	0.27	322	b	bc p bc Acu Stcu Frst	bc t l p b			
21	5.5	0.47	5.3	0.46	SSW	SSW:Var	3.2	0.26	314	b c	c p Ast Cumb Nbst r R c	c rr bc			
22	1.5	0.13	0.8	0.07	SSW	SSW:SSF:Var	1.6	0.11	225	b	c b Acu Cicu Nbst r c	c r o R c			
23	11.3	0.94	11.0	0.92	Calm:SSW	SW	2.7	0.10	202	c ir	bc c Ast r c brhn bc	b m c d			
24	10.1	0.84	9.8	0.81	Calm:SSW	SSW:Calm	0.3	0.01	150	o w mo	bc Acu Ci Frcu so-ha	b			
25	8.7	0.73	7.4	0.62	Calm	NE:Calm	0.2	0.00	90	c w f F	c F f Acu b f	b m			
26	1.8	0.15	0.0	0.00	Calm	Calm	0.0	0.00	56	c b m	Fe Fe bc f Cu Acu	f Fe Fe			
27	0.5	0.04	0.0	0.00	Calm	Calm	0.1	0.00	45	Fe Fe	b f f	Fe Fe do do			
28	0.6	0.05	0.6	0.05	ENE:Calm	Calm	0.1	0.00	69	Fe Fe	f o m St	o m b o			
29	1.7	0.15	1.5	0.13	Calm	Calm	0.0	0.00	86	o m f	o St f f	o m			
30	5.3	0.43	3.4	0.27	Calm:ESE	Calm:ESE	1.0	0.03	150	c o c m w	c St mo	c			
31	0.0	0.00	0.0	0.00	SE:SSE	Calm:SE	0.3	0.01	139	c	c Ast r mo	c Ast Frst mo	c		
Means	4.3	0.38	3.7	0.33	0.12	174						
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 50°.4, being 2°.5 higher than

The mean Temperature of the Dew Point for the month was 47°.9, being 2°.3 higher than

The mean Degree of Humidity for the month was 83.6, being 1.3 less than

The mean Elastic Force of Vapour for the month was 0.335 in., being 0.027 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 0.290. The maximum daily amount of Sunshine was 8.9 hours on October 3.

The highest reading of the Solar Radiation Thermometer was 122°.5 on October 2; and the lowest reading of the Terrestrial Radiation Thermometer was 24.5 on October 3.

The Proportions of Wind referred to the cardinal points were N.4, E.7, S.29, W.15, calm or nearly calm conditions 45, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 11.7 lbs. on the square foot on October 19. The mean daily Horizontal Movement of the Air for the month was 174 miles; the greatest daily value was 364 miles on October 4 and the least daily value was 45 miles on October 27.

Rain (0.005 in. or over) fell on 14 days in the month, amounting to 2.340 in., as measured by gauge No. 6 partly sunk below the ground; being 0.442 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 1943	BAROMETER Mean of 24 Hourly Values (corrected to 32° Fahrenheit if 11°)	TEMPERATURE								Difference between the Air Temperature and Dew Point Temperature	Degree of Humidity (Saturation = 100)	TEMPERATURE				Rain collected in Gauge No. 6, whose receiving Surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon				
		Of the Air				Of Evapo-ration	Of the Dew Point					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				
Nov. 1	29.736	57.5	52.6	4.9	55.6	+ 8.6	54.7	53.9	1.7	2.7	1.1	94	65.0	48.1	54.1	0.203	0.0	9.7				
2	29.873	58.2	48.8	9.4	54.6	+ 7.8	53.6	52.8	1.8	4.2	0.5	93	92.4	39.4	54.1	0.018	0.4	9.7				
3	30.146	58.4	45.5	12.9	51.5	+ 4.9	50.1	48.7	2.8	6.4	0.6	90	102.5	33.5	54.1	0.002	2.8	9.6				
4	30.301	54.0	44.4	9.6	48.7	+ 2.3	47.0	45.1	3.6	7.3	0.0	87	82.3	31.2	54.1	0.001*	2.0	9.5				
5	30.177	51.1	41.5	9.6	47.5	+ 1.4	44.4	40.5	7.0	12.1	1.2	76	63.5	35.5	54.0	0.000	0.0	9.5				
6	29.751	51.0	41.2	9.8	46.1	+ 0.3	43.6	40.5	5.6	11.9	0.8	81	71.6	35.0	54.0	0.172	1.3	9.4				
7	29.875	44.3	31.4	12.9	40.1	- 5.3	36.3	30.0	10.1	14.9	1.3	66	80.3	26.7	53.7	0.000	5.9	9.4				
8	29.977	51.9	29.8	22.1	43.0	- 2.0	41.0	38.1	4.9	8.8	0.0	83	77.2	25.1	53.4	0.016	0.1	9.3				
9	30.189	50.8	39.5	11.3	47.4	+ 2.8	45.7	43.7	3.7	5.0	1.1	87	55.7	32.5	53.1	0.000	0.0	9.3				
10	30.246	56.6	35.3	21.3	46.3	+ 2.0	43.5	40.0	6.3	13.4	0.9	78	92.1	28.1	53.0	0.000	4.6	9.2				
11	30.057	52.2	39.7	12.5	45.7	+ 1.7	42.9	39.2	6.5	12.1	0.9	78	79.3	30.5	52.6	0.070	3.3	9.2				
12	29.742	54.2	40.8	13.4	49.0	+ 5.3	45.5	41.2	7.8	14.7	4.4	74	64.8	35.0	52.5	0.002	0.3	9.1				
13	29.237	50.0	38.6	11.4	45.2	+ 1.7	42.8	39.6	5.6	13.1	1.4	81	68.3	33.5	52.2	0.271	1.0	9.0				
14	29.160	41.0	33.5	7.5	37.4	- 5.9	35.7	33.0	4.4	6.3	3.4	83	42.8	28.4	52.0	0.035	0.2	9.0				
15	29.482	46.2	36.2	10.0	40.1	- 3.0	37.9	34.5	5.6	8.9	3.3	80	75.6	30.8	52.0	0.000	4.4	8.9				
16	29.787	39.4	33.7	5.7	36.6	- 6.2	34.0	29.4	7.2	9.6	5.0	74	51.2	28.3	51.5	0.000	0.0	8.9				
17	29.854	40.8	33.7	7.1	36.8	- 5.8	34.7	31.0	5.8	10.8	2.2	79	53.9	28.8	51.2	0.000	0.4	8.8				
18	30.058	44.2	33.7	10.5	38.1	- 4.3	36.1	32.9	5.2	10.7	1.3	81	72.3	28.2	51.0	0.000	5.1	8.8				
19	30.320	44.3	33.7	10.6	37.5	- 4.8	36.2	34.1	3.4	9.5	0.0	88	68.1	28.7	50.6	0.000	3.2	8.7				
20	30.294	36.5	29.3	7.2	33.0	- 9.2	32.9	32.8	0.2	2.5	0.0	99	43.3	25.5	50.3	0.000	0.0	8.7				
21	30.039	42.0	32.6	9.4	37.2	- 4.9	36.6	35.7	1.5	3.0	0.0	94	43.0	31.5	50.0	0.010	0.0	8.6				
22	29.771	46.0	39.2	6.8	43.4	+ 1.3	42.4	41.1	2.3	4.8	0.0	92	51.6	34.3	49.8	0.085	0.0	8.6				
23	29.577	50.3	33.5	16.8	42.0	- 0.0	40.4	38.2	3.8	7.5	0.0	86	55.1	28.6	49.6	0.100	0.0	8.5				
24	28.959	49.8	40.0	9.8	45.7	+ 3.7	42.4	37.9	7.8	12.5	3.9	74	79.4	37.3	49.5	0.015	3.2	8.5				
25	29.419	46.0	36.6	9.4	41.3	- 0.6	37.6	31.7	9.6	17.5	4.2	68	73.2	30.3	49.3	0.055	5.5	8.4				
26	29.644	38.3	29.5	8.8	34.4	- 7.4	33.3	31.4	3.0	4.3	1.0	88	45.0	26.0	49.0	0.000	0.0	8.4				
27	29.630	49.8	30.8	19.0	40.7	- 1.0	40.1	39.2	1.5	2.3	0.0	94	50.0	24.8	49.0	0.080	0.0	8.4				
28	29.378	57.0	40.6	16.4	51.3	+ 9.8	49.4	47.4	3.9	7.8	1.2	87	63.0	33.2	49.0	0.141	0.0	8.3				
29	29.652	46.0	39.5	6.5	41.9	+ 0.7	38.6	33.5	8.4	14.8	4.9	72	61.6	31.8	48.5	0.000	3.4	8.3				
30	29.786	45.8	38.5	7.3	42.5	+ 1.5	39.2	34.2	8.3	12.5	4.0	72	51.0	31.6	48.6	0.012	0.1	8.3				
Means	29.804	48.5	37.5	11.0	43.4	- 0.2	41.3	38.4	5.0	9.1	1.6	82.6	65.8	31.4	51.5	Sum 1.288	1.6	8.9				
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				

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

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

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

* Rainfall (Column 16). The amount entered on November 4 is derived from wet fog.

The mean monthly precipitation for the month was 29.804 in., being 0.039 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 58° .4 on November 3; the lowest in the month was $29^{\circ}.3$ on November 20; and the range was $29^{\circ}.1$.

The highest temperature in the month was $48^{\circ} 5$, being $0^{\circ} 4$ lower than the average for the 65 years, 1841-1905.

The mean of all the highest daily readings in the month was 10.01, being 0.5° F. above the average for the 65 years, 1841-1906.

The mean of all the lowest daily readings in the month was 37.3, being 0.3 lower than the 1st of March, 1841, 1905.

The mean of the daily ranges was 11°.0, being 0°.5 greater than the average for the 30 years, 10°.5.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	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.			reatest	Mean of 24 Hourly Measures							
Nov. 1	hours	0.04	0.3	0.03	Calm: SE	SE: ESE	lbs.	lbs.	miles				
2	11.7	0.94	11.4	0.91	Calm: E: SE	SSW: SSE	0.1	0.00	128	c ro	rro Nbst c ro	rr Ro c	
3	7.3	0.59	7.2	0.57	SE: SSE	SSE: Calm	0.6	0.03	166	c id ro	i ro Nbst Frst Cu c b	b c	
4	0.2	0.02	0.0	0.00	Calm: ENE	E	1.4	0.10	167	b w	b c bc i Stcu	b	
5	0.0	0.00	0.0	0.00	Calm: NNE	Calm	0.1	0.00	162	d f Fe	Fe Fe f c Stcu	c	
6	12.6	0.97	12.6	0.97	SW: NW	NW	5.0	0.39	353	c dr m f	c Nbst f ir, c Ast	b	
7	9.1	0.70	6.5	0.50	NW: NNW	NNW: SW	5.0	0.42	328	b	b Acu y	b bc	
8	1.3	0.10	0.4	0.03	SW: SSW	SSW: Calm	0.5	0.04	194	b cx m	c Acu Stcu	do c	
9	8.7	0.67	7.9	0.61	NN: Calm	Calm	0.0	0.00	86	c m f	c Ct Acu ff	c f b m	
10	2.8	0.22	2.7	0.21	SW: SSW	SW	2.0	0.13	267	b m f x	b Ci f b Stcu Fr cu	c lv-ha	
11	6.2	0.48	5.6	0.43	NNW	NNW: WSW	4.0	0.14	259	c rq c b	c b Ci Cicu Acu	o m o c	
12	2.7	0.21	2.3	0.18	WSW: W	NW: W	4.2	0.28	379	c ido d	c Frst Stcu	c dc c	
13	5.4	0.42	4.3	0.33	WSW	W: WW	4.0	0.32	382	c rr m	rr Nbst c Stcu Acu	i ro c	
14	0.3	0.03	0.1	0.01	NW: WW	NW: WNW	5.5	0.59	426	c b c iro Stcu Nust m	bc Ci Cicu b bc Stcu	c b	
15	9.6	0.74	8.3	0.63	NNW	NNW: N	3.8	0.40	369	c	c b Frst Stcu	c Cist so-ha St cu St mo	
16	2.5	0.20	1.5	0.12	NNW	NNW: NW	1.8	0.15	265	b c	c Cist Stcu so-ha mo	bc c	
17	4.3	0.33	2.8	0.21	NNW	NNW: N	1.6	0.15	243	c m o	c Stcu Frst mo	b c b c	
18	3.3	0.25	3.0	0.23	N	NNE: N	1.9	0.25	295	c bc f c	b bc f c Cist so-ha	b m o	
19	6.8	0.53	6.8	0.53	NNE: N	NNE: Calm	1.0	0.05	170	c m w	b Acu Stcu bc Ci Fr cu	Fe Fe	
20	0.2	0.01	0.0	0.00	Calm	Calm	0.0	0.00	67	b x f	f Fe Fe		
21	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	93	Fe Fe	Fe Fe	o ido	
22	9.4	0.70	8.8	0.65	SW	NW: W	0.2	0.03	175	o id	ir d f c m	c bc m m o	
23	2.2	0.16	1.5	0.11	WSW: SW	SSW	5.0	0.34	310	b x	b bc f c Cist so-ha	c iro r c	
24	10.9	0.81	9.6	0.71	SW: WSW	WSW	7.0	0.82	496	c p c	c Ast Stcu Ci b	b c	
25	11.6	0.86	11.5	0.85	WW	WSW	6.0	0.54	416	b m o	b bc Acu trhn c ro	ro t r b	
26	8.1	0.60	3.2	0.24	SW	SW: SSW	0.0	0.00	156	b m x	b f bc Cicu Cist iso-ha	o fm cm	
27	0.0	0.00	0.0	0.00	SSW: SW: WSW	SSW: NW	1.6	0.04	194	c m x	c Nbst Stcu dd idro m	do do	
28	11.4	0.85	10.6	0.79	WSW: WSW	WNW: WSW	6.5	0.79	435	rr c	c Nbst	b c b	
29	10.7	0.80	9.9	0.73	WNW: WNW	NNW: NW	7.5	1.14	502	b c b	b c r o b trhn bc q	o	
30	10.5	0.78	9.6	0.71	NNW: NW	NNW: NW	5.6	0.94	446	c bc	c Ci Acu Nb iro c Stcu	c Stcu Fr st	
Means	5.5	0.43	4.8	0.38	0.27	267				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 $41^{\circ}3$, being $0^{\circ}6$ lower than

The mean Temperature of the Dew Point for the month was $38^{\circ}4$, being $1^{\circ}3$ lower than

The mean Degree of Humidity for the month was 82.6, being 4.0 less than

The mean Elastic Force of Vapour for the month was 0.233 in., being 0.013 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.8.

The mean proportion of Sunshine for the month (constant sunshine being represented by 1) was 0.176. The maximum daily amount of

Sunshine was 5.9 hours on November 7.

The highest reading of the Solar Radiation Thermometer was $102^{\circ}5$ on November 3; and the lowest reading of the Terrestrial Radiation Thermometer was $24^{\circ}8$ on November 27.

The Proportions of Wind referred to the cardinal points were N.23, E.6, S.18, W.34, calm or nearly calm conditions 19, the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 7.5 lbs. on the square foot on November 29. The mean daily Horizontal Movement of the Air for the month was 267 miles; the greatest daily value was 502 miles on November 29 and the least daily value was 67 miles on November 20.

Rain (0.005 in. or over) fell on 15 days in the month, amounting to 1.288 in., as measured by gauge No.6 partly sunk below the ground; being 0.932 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 1943	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 Dura- tion 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 of 24 Hourly Values	Deducted Mean Daily Value	Mean	Great- est	Least	Highest in Sun's Rays	Lowest on the Grass						
Dec.	in.	o	o	o	o	o	o	o	o	o	o	o	o	o	in.	hours	hours		
	1	30.004	45.4	36.0	9.4	41.2	+ 0.3	39.9	38.2	3.0	5.4	0.8	89	53.0	29.1	48.4	0.010	0.0	
	2	29.542	47.6	33.0	14.6	43.2	+ 2.3	41.5	39.2	4.0	10.7	0.8	86	58.0	29.0	48.3	0.341	1.3	
	3	29.707	43.8	32.0	11.8	37.3	- 3.8	36.6	35.5	1.8	4.5	0.0	93	55.4	28.1	48.1	0.022	0.6	
	4	29.969	43.2	33.0	10.2	38.3	- 3.0	35.5	30.7	7.6	14.9	3.5	74	73.9	23.0	48.0	0.000	5.2	
	5	30.026	43.5	31.9	11.6	37.4	- 4.1	35.8	33.3	4.1	7.7	2.1	85	65.9	21.8	47.9	0.000	4.8	
	6	29.967	41.6	34.2	7.4	38.4	- 3.1	36.9	34.7	3.7	6.6	1.3	86	50.0	29.0	47.6	0.000	0.0	
	7	29.931	42.4	37.7	4.7	39.6	- 1.7	39.0	38.1	1.5	2.3	0.7	94	56.0	31.0	47.4	0.000	0.0	
	8	29.869	42.1	37.2	4.9	39.7	- 1.3	39.1	38.2	1.5	2.2	0.0	94	43.0	30.2	47.3	0.000	0.0	
	9	29.910	41.6	35.0	6.6	39.2	- 1.4	38.3	36.9	2.3	5.7	0.6	92	53.0	33.0	47.1	0.000	0.1	
	10	30.069	40.4	33.1	7.3	36.1	- 4.3	34.5	31.8	4.3	11.7	0.0	84	48.1	27.0	47.0	0.000	0.7	
	11	30.138	36.8	32.9	3.9	35.2	- 5.0	33.2	29.8	5.4	8.5	3.3	80	52.9	26.8	47.0	0.026	0.2	
	12	30.312	37.2	35.0	2.2	36.4	- 3.9	34.7	31.8	4.6	6.0	3.3	83	38.4	33.0	46.8	0.000	0.0	
	13	30.387	41.0	30.5	10.5	36.2	- 4.3	34.4	31.3	4.9	9.7	1.3	82	56.1	22.0	46.5	0.000	1.8	
	14	30.392	37.8	27.7	10.1	33.2	- 7.5	31.9	29.9	3.3	9.6	1.3	86	44.0	19.3	46.4	0.000	0.0	
	15	30.279	41.9	34.0	7.9	37.7	- 3.1	35.5	31.8	5.9	8.0	4.0	79	46.2	28.2	46.2	0.000	0.0	
	16	30.104	36.2	28.8	7.4	33.2	- 7.5	32.1	30.3	2.9	4.6	0.9	88	39.0	29.8	46.0	0.000	0.0	
	17	29.801	46.7	28.5	18.2	37.4	- 3.0	36.3	34.5	2.9	3.5	0.9	90	51.1	29.5	46.0	0.000	0.0	
	18	29.551	50.8	44.2	6.6	46.1	+ 6.1	45.0	43.6	2.5	5.8	1.2	91	49.0	37.9	46.0	0.170	0.0	
	19	29.308	50.6	38.1	12.5	43.7	+ 4.2	42.2	40.3	3.4	6.7	1.1	87	52.4	30.5	45.8	0.785	0.5	
	20	29.690	49.6	37.7	11.9	42.8	+ 3.8	40.3	36.6	6.2	10.1	3.3	79	74.8	30.1	46.0	0.000	5.9	
	21	29.404	46.5	39.5	7.0	43.8	+ 5.1	42.0	39.7	4.1	7.5	1.6	85	51.4	32.6	46.0	0.205	0.0	
	22	29.382	45.3	36.8	8.5	41.6	+ 3.2	38.4	33.6	8.0	14.9	3.5	72	68.3	31.8	45.8	0.000	4.1	
	23	29.636	46.0	33.1	12.9	39.9	+ 1.7	38.3	36.1	3.8	7.4	0.0	86	55.0	28.1	45.7	0.001*	0.0	
	24	30.127	43.1	31.3	11.8	37.5	- 0.7	36.4	34.6	2.9	6.6	0.0	90	51.0	26.6	45.5	0.000	1.9	
	25	30.357	45.9	37.8	8.1	43.0	+ 4.6	41.4	39.2	3.8	7.5	0.4	87	49.0	34.8	45.7	0.000	7.8	
	26	30.437	47.3	43.7	3.6	45.5	+ 6.9	45.2	44.9	0.6	1.7	0.0	97	51.4	40.1	45.6	0.003	0.0	
	27	30.479	47.5	34.8	12.7	45.4	+ 6.6	44.0	42.2	3.2	6.3	1.0	89	50.0	30.8	45.4	0.004	0.0	
	28	30.459	41.5	31.2	10.3	37.9	- 1.0	36.6	34.6	3.3	5.5	0.0	88	43.4	27.2	45.3	0.001*	0.0	
	29	30.280	42.2	35.9	6.3	39.0	- 0.0	37.9	36.2	2.8	3.3	0.0	90	43.2	35.2	45.4	0.000	7.9	
	30	30.172	44.2	36.0	8.2	40.5	+ 1.6	38.2	34.7	5.8	11.8	2.2	79	59.2	29.1	45.3	0.000	2.6	
	31	30.217	44.0	32.8	11.2	38.0	- 0.7	35.5	31.2	6.8	15.2	1.0	76	58.6	26.1	45.2	0.020	0.4	
Means		29.997	43.7	34.6	9.0	39.5	- 0.4	38.0	35.6	3.9	7.5	1.3	85.8	52.9	29.4	46.5	Sum 1.588	1.0	
No. of Col. for Ref.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the autographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841-1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of 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.

* Rainfall (Column 16). The amounts entered on December 23 and 28 are derived from wet fog.

The maximum of the Barometer for the month was 29.997 in. being 0.205 in. higher than the average for the 65 years, 1841-1906.

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50° S. in December 18, the lowest in the month was 22° 7 on December 14; and the range was 23° 1.

The highest in the month was 88.5 on December 16, the lowest in the month 78.5 on December 22.

The mean of all the highest daily readings in the month was 48.7°, being 0.5° lower than the average for the 65 years, 1841-1906.

The mean of all the lowest daily readings in the month was 34.8, being 0.5 lower than the average for the month.

The mean of the daily ranges was 9°.0, being 0°.3 greater than the average for the 60 years, 1901-1960.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1943	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										
Dec. 1	hours	hours	W	lbs.	lbs.	miles								
2	1.4	0.10	SSW:WNW	WSW:SSW	0.5	0.03	189	d bc	bc b c A cu Stcu f	c Stcu Frst f f	c r o c b c			
3	8.4	0.62	Calm	W: SW: Calm	1.6	0.15	219	c r	rr Nbst c b Frcu	d m				
4	0.0	0.00	NE	NE: NE	2.4	0.11	186	b f Fe	Fe Fe b f	d so-ha c Stcu m rro	c			
5	13.7	1.00	ENE: ENE	FNE	3.5	0.30	318	c mo	c b Frcu	b Frcu y	o			
6	11.2	0.81	11.1	0.80	2.6	0.14	250	b x	b f m Frcu	b x	d x			
7	2.8	0.20	FNE	FNE: NE	1.1	0.10	228	b c m	c Stcu m	r o c Stcu A cu Ci m	c m o			
8	0.6	0.04	NE	Calm	0.1	0.01	123	c mo	c ff	Cicu Stcu ff	c ff			
9	1.5	0.11	0.9	0.06	0.0	0.00	85	c ff	c ro ff	c Acy Stcu m	c			
10	0.0	0.00	SE:ESE	ESE	0.5	0.05	177	c St	c St fec A cu Cu Stcu	c b A cu Frcu	o c			
11	7.3	0.53	6.1	0.44	Calm: NE	ENE: NE	3.4	0.17	206	c fe				
12	0.0	0.00	0.0	0.00	NE	NE	1.6	0.15	263	c iso s m	c Nbst is c	p h Nbst c		
13	0.6	0.04	0.3	0.02	NE	NE: NNE	1.8	0.19	316	c m	c St m	c St m		
14	12.5	0.91	10.1	0.73	NE	NE	1.6	0.12	246	c m	c b A cu Si m bc mo	bc b Frcu	b	
15	2.2	0.16	1.4	0.10	Calm	Calm: NE	0.1	0.00	133	b bc x	c fc Cist A cu so-ha m	c Ast A cu Stcu m	c r m o c	
16	0.0	0.00	0.0	0.00	E:Calm	Calm	4.3	0.21	292	c mo m	c Stcu m	c Stcu m c	c	
17	1.1	0.08	0.4	0.03	Calm	S:SSW	0.8	0.03	112	c m	o St m m	o St m	o m	
18	0.0	0.00	0.0	0.00	SSW	SSW: SW	0.6	0.03	135	c m fe	o St bc A cu fe fe	f c	c	
19	13.5	0.97	13.3	0.95	SW:Calm:NW	WSW	12.7	0.79	379	c r c m	rr c Nbst d o d	c Nbst d ir q	ir o a c	
20	12.7	0.90	10.6	0.76	WSW: SW	SW: SSW	6.2	0.21	311	c r c r Rm	rr Nbst m c Stcu	c d m o	b	
21	9.8	0.70	9.0	0.64	SSW	SSW: SW	9.3	0.67	414	b c	b c Stcu Cicu Ast q	c Nbst re q r	b dc b	
22	12.5	0.89	12.1	0.87	SW:WSW	WSW: SW	5.5	0.62	443	b c	c Stcu A cu b Frcu	b c Frcu Stcu y b	c m f	
23	10.3	0.73	7.8	0.55	SW:Calm	Calm: NW	0.5	0.01	155	c b fe x	c Stcu f m	c Stcu f m	bc c m	
24	2.7	0.20	0.5	0.04	W:WSW	NNW: Calm	0.6	0.02	164	c b x f	b x f m	b c Stcu r	c m f	
25	1.3	0.10	0.4	0.03	Calm: SW	SW: WSW	0.2	0.03	163	c m f	c Ast ff	c A cu Ci f m	c ido m	
26	0.0	0.00	0.0	0.00	WSW	WSW: Calm	0.1	0.01	140	o m f	o St f F f	o c St f m	c b m	
27	7.7	0.55	7.1	0.51	Calm: NW	NW: Calm	0.2	0.01	126	1do m	c Nbst St m	c m St		
28	0.0	0.00	0.0	0.00	Calm	SW: Calm	0.0	0.00	117	b x c fe	c Stcu fe f m	o St m	o m	
29	5.8	0.41	5.2	0.37	W: SW	WSW	0.2	0.03	191	o m f	o St f ido	o f St c Stcu b m	c dc c m	
30	13.6	0.97	13.2	0.94	W:WNW	NNW	2.7	0.20	300	c bc m	bc Cicu A cu b m m o	b Cu Frcu m o	b c m o	
31	1.3	0.09	0.8	0.05	NNW: NW	NW: W: WSW	1.3	0.13	267	b x m	b Ci Cicu A cu b m m o	so-ha brha Ci Cicu c d m o	de do c	
Means	5.0	0.36	4.4	0.31	..	..	..	0.16	226					
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 38°.0, being 0°.5 lower than the mean Temperature of the Dew Point for the month was 35°.6, being 0°.8 lower than the mean Degree of Humidity for the month was 85.8, being 1.7 less than the mean Elastic Force of Vapour for the month was 0.208 in., being 0.008 in. less than

The mean amount of Cloud for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.3.

The mean amount of Sunshine for the month (constant sunshine being represented by 1) was 0.123. The maximum daily amount of Sunshine was 5.9 hours on December 20.

The highest reading of the Solar Radiation Thermometer was 74°.8 on December 20; and the lowest reading of the Terrestrial Radiation Thermometer was 19°.3 on December 14.

The Proportions of Wind referred to the cardinal points were N.17, E.20, S.15, W.25, calm or nearly calm conditions 23. the whole month being represented by 100.

The Greatest Pressure of the Wind in the month was 12.7 lbs. on the square foot on December 18. The mean daily Horizontal Movement of the Air for the month was 226 miles; the greatest daily value was 443 miles on December 22 and the least daily value was 85 miles on December 8.

Rain (0.005 in. or over) fell on 8 days in the month, amounting to 1.588 in., as measured by gauge No.6 partly sunk below the ground; being 0.239 in. less than the average fall for the 65 years, 1841-1905.

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

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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., 1943.	Reading	U.T., 1943.	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		April		April		August		August	
2. 9. 40	29.501	1. 19. 30	28.890	13. 20. 50	30.106	15. 4. 0	29.962	15. 23. 35	30.060	18. 5. 15	29.677
3. 17. 45	29.835	2. 16. 25	29.384	16. 22. 45	30.113	19. 11. 20	29.615	19. 7. 45	29.809	21. 10. 15	29.435
9. 8. 45	30.041	7. 5. 50	29.516	20. 10. 20	30.030	22. 4. 10	29.363	24. 1. 0	29.900	25. 8. 30	29.684
13. 10. 45	29.241	12. 8. 15	28.698	22. 23. 20	29.661	24. 0. 20	29.442	25. 20. 15	29.777	26. 13. 30	29.584
16. 9. 45	29.757	17. 13. 12	29.497	24. 17. 30	29.969	25. 22. 45	29.651	28. 0. 15	29.857	28. 19. 0	29.681
18. 10. 30	29.644	21. 4. 5	29.372	27. 7. 15	30.113	30. 12. 50	29.737	29. 11. 0	29.905	30. 4. 10	29.620
21. 11. 5	29.524	22. 14. 55	29.428					31. 12. 0	29.923		
24. 10. 25	30.224	25. 16. 15	29.848	May		May		September		September	
27. 10. 25	30.132	29. 3. 40	29.392								
29. 11. 20	29.490	30. 9. 10	28.989	4. 7. 33	30.148	8. 13. 5	28.665			2. 0. 45	29.727
30. 23. 30	29.284	31. 14. 35	28.849	9. 20. 30	29.500	10. 17. 30	29.143	4. 8. 25	30.045	5. 17. 10	29.715
31. 19. 35	28.956			16. 10. 55	30.570	22. 17. 45	29.674	7. 5. 45	29.936	8. 3. 5	29.847
February		February		23. 10. 20	29.870	24. 17. 0	29.341	8. 22. 15	29.940	10. 2. 45	29.678
				28. 8. 15	30.170			11. 12. 0	29.769	13. 17. 12	29.451
								14. 0. 45	29.540	14. 23. 0	29.444
								16. 9. 30	30.024	17. 15. 45	29.744
1. 20. 50	29.340	1. 3. 25	28.803	June		June		19. 10. 10	29.987	20. 7. 0	29.722
4. 22. 50	30.135	2. 2. 20	29.252					23. 1. 15	30.070	26. 2. 45	29.683
8. 0. 5	30.256	6. 7. 25	29.576					27. 10. 15	30.006	28. 7. 45	29.441
10. 8. 35	29.585	10. 16. 50	29.470	2. 13. 45	29.961	5. 4. 0	29.833	29. 21. 15	29.919	30. 16. 20	29.844
12. 0. 45	29.965	12. 15. 20	29.784	7. 8. 0	30.103	9. 16. 0	29.857			October	
13. 18. 0	30.174	15. 7. 0	29.556	10. 23. 25	29.970	11. 20. 30	29.871			October	
18. 23. 25	30.534	19. 17. 0	30.385	13. 0. 0	30.050	15. 17. 50	29.607				
20. 8. 5	30.447	25. 16. 15	29.994	17. 23. 10	29.976	20. 10. 40	29.658	1. 8. 25	29.918	2. 1. 55	29.810
March		March		24. 6. 25	30.219	25. 17. 0	30.030	3. 8. 0	30.180	6. 16. 50	29.521
				27. 11. 15	30.303			9. 9. 0	30.113	10. 16. 0	29.965
								11. 21. 0	30.098	17. 7. 15	29.162
								18. 9. 30	29.412	19. 20. 15	29.218
								22. 9. 20	29.607	22. 23. 45	29.373
								29. 9. 45	30.090		
1. 8. 0	30.578	4. 16. 30	29.979	July		July				November	
5. 21. 25	30.341	6. 15. 45	30.256							November	
7. 0. 35	30.347	8. 15. 45	29.864	10. 7. 45	29.822	12. 13. 40	29.598				
9. 22. 0	30.072	11. 6. 30	29.789	14. 10. 15	29.961	15. 16. 50	29.762				
12. 9. 40	30.088	15. 16. 35	29.721	17. 6. 45	30.005	20. 15. 35	29.633			1. 3. 55	29.699
17. 10. 25	30.023	19. 15. 20	29.749	22. 22. 30	29.994	26. 17. 40	29.756	4. 21. 0	30.237	6. 14. 55	29.667
21. 21. 15	29.971	25. 5. 40	29.360	29. 6. 50	30.050	31. 17. 45	29.583	10. 7. 30	30.335	13. 21. 35	29.022
28. 23. 0	30.034	31. 0. 35	29.590	31. 19. 12	29.688			19. 20. 45	30.362	24. 15. 35	28.854
31. 10. 0	29.799	31. 18. 15	29.687					27. 0. 0	29.716	28. 14. 40	29.241
April		April		August		August			December		December
3. 9. 15	30.269	5. 18. 15	29.564	2. 21. 5	29.749	6. 6. 15	29.578	1. 10. 55	30.054	2. 14. 45	29.446
6. 23. 15	30.047	7. 12. 15	29.583	7. 12. 30	29.948	8. 21. 35	29.345	5. 9. 25	30.050	8. 6. 30	29.856
8. 9. 30	30.155	9. 3. 10	29.957	9. 23. 15	29.923	11. 3. 45	29.666	14. 15. 45	30.410	19. 6. 12	29.100
11. 10. 0	30.113	12. 17. 20	29.996	12. 8. 15	29.978	14. 2. 45	29.623	20. 10. 30	29.733	21. 16. 40	29.195

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 1943

	January	February	March	April	May	June	July	August	September	October	November	December
HIGHEST	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
LOWEST	30.224	30.534	30.578	30.269	30.570	30.303	30.050	30.060	30.070	30.180	30.362	30.505
RANGE	1.563	1.731	1.218	0.906	1.905	1.026	0.580	0.715	0.629	1.018	1.508	1.405

The highest reading in the year was 30.578 ins. on March 1. The lowest reading in the year was 28.661 ins. on January 14. The range of reading in the year was 1.917 ins.

TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1943

MONTH 1943	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 Lowes	Mean of the Daily Ranges	Monthly Mean	Excess of Mean above the Average of 65 Years			
January	in. 29.562	o 54.9	25.8	29.1	46.4	37.2	9.1	41.9	+3.3	40.2	37.8	85.2
February	30.012	55.7	25.0	30.7	48.3	35.7	12.6	42.4	+2.9	39.9	36.1	78.6
March	29.929	59.8	27.7	32.1	52.7	36.9	15.8	44.4	+2.5	41.2	36.8	74.6
April	29.920	75.5	36.3	39.2	61.8	44.5	17.3	53.0	+5.8	47.9	41.9	66.5
May	29.865	85.4	37.4	48.0	66.1	47.1	19.0	56.2	+3.1	50.7	44.9	66.5
June	29.926	78.4	45.4	33.0	69.5	50.9	18.6	59.4	0.0	54.1	49.1	69.3
July	29.825	89.0	46.9	42.1	73.3	54.7	18.6	63.5	+0.8	57.5	52.6	68.3
August	29.750	82.3	44.4	38.1	73.0	54.1	18.9	63.0	+1.3	57.2	52.4	68.7
September	29.817	78.6	34.7	43.9	66.8	49.7	17.1	57.4	+0.2	53.2	49.0	73.7
October	29.784	66.3	37.1	29.2	60.4	46.5	13.8	52.8	+2.9	50.4	47.9	83.6
November	29.804	58.4	29.3	29.1	48.5	37.5	11.0	43.4	-0.2	41.3	38.4	82.6
December	29.997	50.8	27.7	23.1	43.7	34.6	9.0	39.5	-0.4	38.0	35.6	85.8
Means	29.849	89.0	25.0	64.0	59.2	44.1	15.1	51.4	+1.8	47.6	43.5	75.3

MONTH 1943	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 Usier's Anemometer										
						Number of Hours of Prevalence of each Wind referred to different Points of Azimuth										
January	in. 0.227	o 44.8	7.9	19	in. 4.388	h 33	h 20	h 8	h 75	h 168	h 186	h 70	h 52	lbs. 132	miles 0.48	
February	0.213	44.6	6.9	9	1.748	42	4	...	...	30	231	147	70	148	0.45
March	0.219	44.2	6.1	4	0.284	59	94	107	8	12	108	74	53	229	0.22	
April	0.267	47.4	6.9	12	0.918	35	...	16	10	84	203	141	124	107	0.44	
May	0.299	50.9	5.5	8	2.140	77	82	75	11	59	169	62	57	152	0.38	
June	0.351	54.9	7.2	12	1.487	56	60	16	12	30	244	129	57	116	0.21	
July	0.399	57.5	6.8	11	1.848	68	102	66	12	17	193	83	37	166	0.20	
August	0.396	59.7	6.9	16	1.570	11	5	17	8	60	330	144	49	120	0.29	
September	0.349	58.9	6.5	14	1.732	61	10	44	23	76	187	63	54	202	0.12	
October	0.335	55.8	6.9	14	2.340	12	21	13	51	107	170	22	10	338	0.12	
November	0.233	51.5	6.8	15	1.288	100	11	18	33	40	151	111	118	138	0.27	
December	0.208	46.5	7.3	8	1.588	17	174	60	12	36	137	92	45	171	0.16	
Sums	...	...	...	142	21.331	571	583	440	255	719	2309	1138	726	2019	...
Means	0.291	51.4	6.8	...	...	...	...	...	...	...	...	...	...	0.28	248

The greatest recorded pressure of the wind on the square foot in the year was 32.0 lbs. on January 31.

The greatest recorded daily horizontal movement of the air in the year was 661 miles on January 31.

The least recorded daily horizontal movement of the air in the year was 45 miles on February 20 and October 27.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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	29.579	29.989	29.945	29.924	29.878	29.928	29.843	29.753	29.882	29.787	29.808	30.002	29.855
2	29.572	29.985	29.943	29.920	29.874	29.927	29.840	29.749	29.819	29.786	29.805	29.998	29.851
3	29.566	29.979	29.938	29.917	29.869	29.923	29.834	29.744	29.814	29.781	29.802	29.999	29.847
4	29.561	29.971	29.931	29.914	29.863	29.920	29.832	29.737	29.810	29.776	29.798	30.001	29.843
5	29.554	29.969	29.932	29.911	29.862	29.919	29.831	29.737	29.807	29.776	29.796	29.992	29.841
6	29.552	29.974	29.934	29.914	29.865	29.922	29.832	29.740	29.808	29.777	29.795	29.985	29.841
7	29.552	29.981	29.935	29.922	29.871	29.927	29.836	29.752	29.813	29.780	29.796	29.985	29.846
8	29.554	29.990	29.941	29.929	29.874	29.932	29.840	29.754	29.819	29.788	29.800	29.988	29.851
9	29.560	30.005	29.949	29.931	29.875	29.934	29.842	29.755	29.823	29.797	29.808	29.998	29.856
10	29.568	30.012	29.951	29.934	29.875	29.932	29.839	29.754	29.828	29.800	29.811	30.004	29.859
11	29.574	30.021	29.952	29.933	29.874	29.930	29.837	29.751	29.828	29.801	29.812	30.010	29.860
12	29.576	30.028	29.946	29.929	29.873	29.927	29.833	29.744	29.824	29.798	29.810	30.007	29.858
13	29.567	30.024	29.937	29.926	29.867	29.922	29.828	29.749	29.820	29.790	29.799	29.998	29.852
14	29.557	30.019	29.926	29.922	29.862	29.918	29.824	29.753	29.816	29.781	29.791	29.989	29.846
15	29.551	30.014	29.917	29.916	29.857	29.915	29.818	29.748	29.810	29.776	29.787	29.985	29.841
16	29.553	30.015	29.909	29.907	29.852	29.915	29.812	29.747	29.807	29.772	29.787	29.986	29.839
17	29.558	30.016	29.902	29.906	29.850	29.913	29.803	29.745	29.804	29.771	29.792	29.989	29.837
18	29.562	30.024	29.901	29.903	29.847	29.913	29.798	29.743	29.806	29.774	29.801	29.993	29.839
19	29.566	30.036	29.907	29.905	29.849	29.918	29.798	29.744	29.809	29.780	29.810	29.996	29.843
20	29.566	30.044	29.914	29.914	29.853	29.924	29.803	29.748	29.817	29.784	29.816	30.000	29.849
21	29.565	30.048	29.918	29.924	29.862	29.931	29.811	29.760	29.825	29.785	29.816	30.003	29.854
22	29.562	30.050	29.921	29.927	29.869	29.941	29.821	29.764	29.826	29.790	29.819	30.005	29.858
23	29.558	30.050	29.924	29.928	29.870	29.945	29.829	29.764	29.824	29.784	29.819	30.007	29.858
24	29.551	30.050	29.918	29.928	29.868	29.945	29.829	29.763	29.822	29.781	29.818	30.006	29.857
Means { ^{0^h-23^h}	29.562	30.012	29.929	29.920	29.865	29.926	29.825	29.750	29.817	29.784	29.804	29.997	29.849
{ ^{1^h-24^h}	29.561	30.014	29.928	29.920	29.864	29.927	29.825	29.750	29.817	29.784	29.804	29.997	29.849
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
0 ^h	°	°	°	°	°	°	°	°	°	°	°	°	°
1	40.7	40.5	41.2	49.4	51.1	54.4	58.2	58.4	53.5	50.3	42.0	38.3	48.2
2	40.4	39.9	40.7	48.5	50.3	53.6	57.2	57.7	52.6	49.9	41.5	38.2	47.5
3	40.1	39.5	40.2	47.6	49.5	52.9	56.4	57.0	52.0	49.6	41.2	37.9	47.0
4	39.9	38.9	39.7	46.9	48.7	52.1	55.8	56.6	51.4	49.1	40.9	37.7	46.5
5	39.7	38.4	39.3	46.4	48.1	51.6	55.4	56.0	51.0	48.6	40.8	37.5	46.1
6	39.8	38.1	39.0	46.3	48.1	52.0	55.6	55.8	51.3	48.6	40.9	37.3	46.1
7	40.0	38.7	39.0	46.6	49.8	54.0	57.2	56.5	51.8	49.1	41.2	37.8	46.8
8	40.2	39.2	39.5	48.4	52.5	56.6	59.7	58.8	53.2	49.5	41.4	38.1	48.1
9	40.5	39.9	40.7	51.2	55.5	59.0	62.3	61.6	56.1	50.9	42.0	38.3	49.8
10	41.2	41.2	42.9	53.9	58.0	61.4	64.7	64.6	59.1	53.0	42.9	38.6	51.8
11	42.3	43.0	45.3	55.8	60.0	63.0	66.6	66.0	61.4	55.0	44.4	39.4	53.5
12	43.4	44.9	47.2	57.6	61.6	64.2	68.3	67.5	62.8	56.4	45.9	40.6	55.0
13	44.4	46.3	49.1	58.4	62.7	65.7	69.4	68.7	63.5	57.7	46.7	41.8	56.2
14	45.2	46.9	50.4	59.4	63.9	66.3	70.1	69.8	64.0	58.7	47.4	42.4	57.0
15	45.4	47.2	51.0	59.9	64.1	66.6	70.7	70.4	64.2	58.9	47.2	42.6	57.3
16	44.9	46.8	51.3	59.5	64.0	66.0	70.6	70.7	64.3	58.4	46.7	42.2	57.1
17	43.9	46.6	51.0	59.3	63.0	65.6	70.6	70.1	63.6	57.4	46.0	41.7	56.6
18	43.2	45.8	50.0	58.8	61.8	65.0	70.2	68.8	62.3	55.8	44.9	41.1	55.6
19	42.5	44.8	48.2	57.3	60.4	63.6	69.1	67.3	60.4	54.1	44.3	40.6	54.4
20	41.9	43.8	46.4	55.0	58.4	61.6	66.9	65.0	58.3	53.0	43.6	40.2	52.8
21	41.6	43.2	44.8	53.4	56.6	59.7	64.6	63.1	56.9	52.0	42.9	39.7	51.5
22	41.4	42.1	43.4	51.9	55.0	57.9	62.6	61.5	55.6	51.3	42.4	39.2	50.4
23	41.3	41.1	42.1	50.2	52.4	55.6	59.9	59.2	54.2	50.4	41.8	38.7	48.9
24	41.0	40.3	41.5	49.2	51.4	54.5	58.5	58.2	53.6	50.1	41.5	38.5	48.2
Means { ^{0^h-23^h}	41.9	42.4	44.4	53.0	56.2	59.4	63.5	63.0	57.4	52.8	43.4	39.5	51.4
{ ^{1^h-24^h}	41.9	42.4	44.4	53.0	56.2	59.4	63.5	63.0	57.4	52.8	43.3	39.5	51.4
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
0 ^h	° 39.3	38.7	39.6	46.1	48.2	51.6	55.2	55.5	51.4	49.0	40.5	37.0	46.0
1	39.2	38.2	39.2	45.5	47.7	51.1	54.6	55.2	50.8	48.6	40.1	36.9	45.6
2	39.1	37.8	38.9	44.9	47.2	50.7	54.2	54.7	50.4	48.4	39.9	36.8	45.3
3	38.9	37.4	38.4	44.4	46.6	50.3	53.9	54.6	50.2	48.2	39.7	36.6	44.9
4	38.5	37.0	38.1	44.3	46.3	49.9	53.6	54.3	50.0	47.8	39.8	36.6	44.7
5	38.5	36.8	37.6	44.1	46.0	50.1	53.4	54.1	49.9	47.7	39.7	36.6	44.5
6	38.7	37.1	37.5	44.2	47.3	51.4	54.3	54.6	50.0	47.9	39.8	36.8	45.0
7	38.8	37.4	37.8	45.5	48.9	52.8	55.5	56.1	51.1	48.2	39.9	37.0	45.7
8	39.1	37.9	38.7	47.2	50.6	53.9	56.8	57.5	53.0	49.7	40.3	37.1	46.8
9	39.7	39.1	40.3	48.7	51.8	55.1	58.1	58.7	54.6	51.1	41.2	37.4	48.0
10	40.5	40.3	42.0	49.6	52.7	55.8	58.8	58.9	55.5	52.4	42.4	37.9	48.9
11	41.1	41.6	43.1	50.6	53.4	56.4	59.3	59.2	55.8	52.7	43.2	38.7	49.6
12	41.9	42.4	43.9	50.9	53.7	57.1	59.8	59.4	56.0	53.1	43.5	39.4	50.1
13	42.4	42.8	44.8	51.2	54.5	57.4	60.0	59.7	56.0	53.6	43.9	39.8	50.5
14	42.6	43.0	45.0	51.3	54.5	57.4	60.4	59.8	55.9	53.8	43.7	39.9	50.6
15	42.3	42.9	45.3	50.9	54.3	57.1	60.5	59.8	56.0	53.5	43.3	39.7	50.5
16	41.6	42.7	45.3	50.9	54.0	57.2	60.7	59.6	55.9	52.9	42.8	39.3	50.2
17	41.1	42.2	44.7	50.8	53.4	56.9	60.8	59.2	55.4	52.2	42.1	38.9	49.8
18	40.6	41.6	43.5	50.1	52.8	56.4	60.4	58.7	54.5	51.3	41.6	38.9	49.2
19	40.3	41.1	42.4	49.0	52.1	55.2	59.7	58.0	53.8	50.6	41.3	38.5	48.5
20	40.1	40.7	41.7	48.4	51.3	54.5	59.0	57.5	53.1	50.0	41.0	38.3	48.0
21	40.1	39.9	41.0	47.6	50.6	53.7	58.0	57.0	52.6	49.6	40.7	37.9	47.4
22	40.2	39.5	40.5	47.1	50.0	53.0	57.2	56.2	52.3	49.2	40.5	37.7	46.9
23	40.0	39.1	40.0	46.6	49.1	52.3	56.3	55.4	51.9	49.0	40.2	37.4	46.4
24	39.6	38.5	39.9	45.8	48.5	51.6	55.6	55.2	51.5	48.8	40.0	37.1	46.0
Means { 0 ^h -23 ^h	40.2	39.9	41.2	47.9	50.7	54.1	57.5	57.2	53.2	50.4	41.3	38.0	47.6
	40.2	39.9	41.2	47.9	50.7	54.1	57.5	57.2	53.2	50.4	41.3	38.0	47.6
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Four, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
0 ^h	° 37.4	36.1	37.4	42.1	45.1	48.9	52.6	53.0	49.4	47.7	38.5	35.0	43.6
1	37.5	35.8	37.2	41.8	44.9	48.7	52.4	53.1	49.1	47.2	38.2	34.9	43.4
2	37.6	35.3	37.1	41.7	44.7	48.6	52.4	52.8	48.7	47.2	38.2	35.0	43.3
3	37.4	35.3	36.6	41.4	44.3	48.5	52.3	53.0	49.0	47.3	38.1	34.8	43.2
4	36.8	34.9	36.3	41.7	44.3	48.2	52.0	52.8	48.9	47.0	38.5	35.1	43.0
5	36.7	34.8	35.6	41.4	43.6	48.2	51.5	52.6	48.5	46.8	38.1	35.5	42.8
6	36.9	34.7	35.4	41.3	44.6	48.9	51.7	53.0	48.2	46.7	37.9	35.1	42.9
7	36.9	34.7	35.3	42.0	45.1	49.1	51.9	53.9	49.1	46.8	37.9	35.3	43.2
8	37.2	34.9	35.8	42.6	45.5	49.1	52.1	54.2	50.1	48.5	37.9	35.3	43.6
9	37.7	36.0	36.5	42.9	45.6	49.4	52.8	54.1	50.6	49.3	38.8	35.6	44.1
10	38.0	36.4	37.4	42.8	45.3	49.4	52.5	53.2	50.3	50.0	39.8	35.8	44.2
11	37.9	36.9	37.7	43.0	45.3	49.6	52.1	52.6	49.5	49.1	39.7	36.0	44.1
12	38.5	37.1	37.1	42.8	44.7	49.6	52.1	51.9	49.4	48.8	39.5	35.8	43.9
13	38.6	37.4	37.4	42.4	45.4	49.8	51.9	51.5	48.9	48.8	39.5	35.9	44.0
14	38.8	37.5	37.1	42.0	45.2	49.5	52.3	51.2	48.5	49.0	39.3	35.9	43.9
15	38.7	37.8	37.5	41.4	44.8	49.4	52.6	50.9	48.6	48.9	39.0	36.0	43.8
16	38.5	37.5	37.9	41.7	45.1	49.9	53.0	51.0	49.1	48.7	38.6	35.7	43.9
17	38.1	37.3	37.8	42.1	45.1	49.8	53.6	51.3	49.1	48.7	38.2	35.6	43.9
18	37.9	37.1	37.2	42.1	45.1	50.2	53.7	51.7	49.1	48.6	37.9	36.5	43.9
19	38.1	37.3	37.0	42.4	45.8	49.4	54.1	52.2	49.7	48.3	38.1	36.1	44.0
20	38.1	37.1	37.3	42.8	45.9	49.8	54.6	52.9	49.5	48.0	38.3	36.3	44.2
21	38.4	36.7	37.6	42.7	46.1	49.9	54.4	53.4	49.8	47.9	38.3	36.0	44.3
22	38.6	36.4	37.1	42.6	46.3	49.5	54.1	52.8	50.0	47.7	38.6	35.8	44.1
23	38.3	36.2	37.0	42.4	45.6	49.1	53.3	52.2	49.7	47.5	38.0	35.5	43.7
24	37.7	35.9	37.7	41.7	45.4	48.8	53.2	52.6	49.5	47.2	38.0	35.0	43.6
Means { 0 ^h -23 ^h	37.9	36.3	36.9	42.2	45.1	49.3	52.7	52.6	49.3	48.1	38.5	35.6	43.7
	37.9	36.3	36.9	42.2	45.2	49.3	52.8	52.5	49.3	48.1	38.5	35.6	43.7

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

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 1943

MONTH 1943	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	42.3	260.3	0.163	18	
February	-	-	-	-	2.1	5.9	6.3	8.5	9.9	7.4	2.0	0.2	-	-	-	-	-	-	68.6	278.2	0.246	26	
March	-	-	0.2	3.4	9.1	9.5	11.5	14.8	15.9	14.3	17.4	13.5	5.3	0.4	-	-	-	-	115.3	367.0	0.314	36	
April	-	0.5	8.1	13.3	13.5	13.9	16.7	14.7	15.5	14.1	13.2	11.9	9.1	7.3	1.1	-	-	-	152.9	414.7	0.369	48	
May	0.7	10.4	16.9	18.5	20.6	21.3	21.4	21.4	21.3	19.4	17.8	16.0	14.9	12.7	9.0	0.6	-	-	242.9	483.1	0.503	57	
June	3.4	10.8	12.5	14.1	16.0	15.6	14.6	16.2	16.0	15.2	11.9	13.3	11.8	10.9	10.2	3.3	-	-	195.8	496.1	0.395	62	
July	1.3	9.4	11.5	12.3	12.8	15.2	16.9	16.4	16.4	14.3	14.3	15.5	15.6	15.0	11.0	1.7	-	-	201.7	500.3	0.403	60	
August	-	5.2	10.0	14.7	18.9	14.9	15.4	14.8	14.9	17.6	17.9	16.1	14.0	12.6	6.6	-	-	-	193.6	453.0	0.427	52	
September	-	-	2.4	11.4	13.4	15.5	14.5	15.0	15.4	13.6	14.5	12.3	9.5	2.7	-	-	-	-	140.2	381.0	0.368	42	
October	-	-	0.2	3.5	7.9	9.0	10.3	13.2	15.2	15.0	13.4	7.3	1.6	-	-	-	-	-	96.6	332.6	0.290	30	
November	-	-	-	0.4	1.9	6.0	8.2	7.8	7.9	9.0	5.6	0.4	-	-	-	-	-	-	47.2	268.0	0.176	20	
December	-	-	-	-	0.2	1.6	4.1	7.3	7.1	6.0	3.7	0.1	-	-	-	-	-	-	30.1	245.7	0.123	16	
For the Year	5.4	36.3	61.8	91.9	121.8	138.5	151.8	161.5	164.9	157.5	138.8	110.1	81.8	61.6	37.9	5.6	-	-	1527.2	4480.0	0.341	..	

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	Minim- um	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Minim- um	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		
JANUARY																							
1	49.6	39.2	43.6	48.1	49.6	43.6	43.1	47.0	48.2	41.2	1	55.4	40.7	46.2	52.9	54.6	47.2	43.7	47.3	48.1	44.7		
2	43.8	34.8	35.4	40.9	41.6	37.4	33.3	37.3	39.1	35.1	2	51.0	44.2	47.0	49.3	50.3	46.5	44.9	46.5	46.8	44.0		
3	38.8	32.0	33.7	37.9	38.0	32.0	30.5	34.2	34.6	30.5	3	46.5	41.2	44.1	44.7	42.6	41.3	42.5	40.8	39.1	38.5		
4	34.4	28.2	30.9	34.4	32.8	29.7	28.2	30.1	30.4	29.1	4	47.0	36.5	40.4	43.9	45.5	36.5	37.4	39.0	40.9	35.2		
5	36.6	29.7	33.0	36.2	35.4	32.7	31.8	33.6	33.2	31.5	5	52.0	33.1	35.7	42.6	51.3	42.0	34.9	40.2	44.5	39.5		
6	40.2	32.7	35.9	37.3	39.9	40.0	35.4	36.9	39.5	39.6	6	51.7	33.6	42.5	47.8	51.2	45.6	40.5	42.8	45.6	43.7		
7	40.3	34.6	38.4	37.8	37.2	34.6	38.1	37.6	36.8	34.0	7	49.8	33.9	37.0	46.8	48.7	36.6	36.6	41.7	42.3	35.4		
8	37.3	27.6	30.0	34.1	36.1	27.6	32.0	33.7	37.0	27.0	8	49.9	29.0	40.3	47.6	48.7	41.0	35.9	41.2	41.0	37.3		
9	32.7	25.8	29.6	31.6	31.6	27.6	29.8	29.9	29.4	29.4	9	49.4	34.8	41.2	46.6	47.2	34.8	37.4	39.6	38.8	32.8		
10	42.0	30.4	37.2	42.0	41.6	35.7	41.2	40.5	41.2	41.2	10	55.0	29.0	40.0	49.3	53.7	49.0	35.0	41.7	45.7	45.6		
11	51.5	40.3	43.3	50.6	48.5	45.5	42.8	47.0	44.0	42.8	11	53.7	45.1	48.9	53.1	49.7	45.1	45.0	48.4	46.7	40.4		
12	47.2	42.4	46.1	45.7	46.7	45.4	44.0	44.5	45.8	43.5	12	50.2	33.5	38.9	47.6	49.1	39.8	35.3	40.3	42.2	38.4		
13	49.4	39.9	41.6	46.8	47.6	43.6	39.7	42.5	44.1	42.0	13	50.4	35.4	41.9	49.6	49.2	41.2	39.4	42.1	41.4	37.8		
14	44.2	38.0	42.2	41.6	42.9	38.0	40.3	39.2	39.6	35.2	14	54.8	35.1	40.6	51.4	54.7	38.4	38.0	44.7	46.7	36.5		
15	46.0	36.0	41.8	43.6	45.6	39.2	47.0	40.5	41.6	37.5	15	51.4	31.0	34.3	47.9	50.0	36.7	33.7	43.3	45.7	35.5		
16	47.4	33.1	42.4	46.2	47.2	44.5	41.8	44.8	45.4	42.5	16	59.8	29.1	40.0	52.2	58.6	43.8	35.6	45.7	47.7	42.0		
17	45.1	39.4	40.2	43.7	44.9	40.0	38.2	40.7	41.7	38.6	17	54.7	33.1	39.4	43.9	53.1	42.7	39.2	42.9	47.4	40.7		
18	46.9	34.2	39.4	44.0	46.0	43.2	37.8	43.0	44.6	42.5	18	57.0	35.3	41.9	55.5	55.7	42.5	39.5	45.4	46.7	40.3		
19	50.2	42.9	44.6	48.2	49.1	46.8	44.3	47.2	48.1	45.6	19	44.8	36.3	42.1	43.4	44.0	41.4	38.5	39.8	38.9	39.4		
20	52.2	46.4	48.6	51.4	51.5	48.6	46.7	48.3	48.2	47.7	20	46.3	39.6	41.6	43.7	46.2	41.5	39.4	40.2	41.4	39.5		
21	53.4	46.3	47.5	51.8	50.6	47.0	45.3	48.2	47.4	46.3	21	43.9	27.7	34.7	40.5	43.4	42.4	33.7	39.0	41.5	40.9		
22	54.9	47.0	48.5	54.7	53.2	50.5	47.2	50.2	49.7	49.3	22	53.0	34.8	35.1	46.9	52.6	39.2	34.7	41.7	46.0	38.4		
23	51.0	38.2	44.5	45.8	48.0	38.2	42.5	43.5	43.7	36.2	23	56.4	36.4	38.4	48.6	56.2	43.8	38.2	45.3	48.3	41.4		
24	48.1	29.4	31.6	44.2	46.0	42.0	31.4	41.7	43.0	41.0	24	57.0	43.5	50.8	54.8	54.2	48.0	46.9	48.6	47.7	44.8		
25	44.8	41.2	41.6	41.6	43.6	44.8	39.7	39.2	41.0	44.4	25	59.3	45.6	49.6	57.5	56.4	50.8	49.1	52.6	52.3	49.4		
26	51.1	40.5	43.9	49.6	49.2	45.4	42.5	46.0	45.9	43.1	26	53.5	45.2	48.3	48.4	53.0	45.2	47.3	45.8	46.8	42.5		
27	49.3	41.6	44.5	47.8	48.6	46.2	43.1	45.2	46.0	44.1	27	56.0	42.3	49.1	51.0	54.4	45.6	47.1	48.7	51.4	42.8		
28	52.2	46.2	50.2	52.0	50.0	50.1	49.0	50.0	48.8	48.0	28	55.0	38.9	46.5	51.4	54.3	42.6	42.1	44.2	45.3	39.8		
29	54.8	46.3	48.3	52.3	51.7	46.8	46.1	47.9	47.0	45.6	29	53.8	35.8	49.2	52.1	49.5	47.5	45.2	47.0	48.3	45.8		
30	50.6	38.6	50.0	45.9	44.8	40.4	47.2	41.7	40.3	38.0	30	59.1	47.5	52.0	57.6	59.1	52.5	48.2	50.4	51.6	46.8		
31	52.5	37.5	49.4	52.4	46.5	47.8	47.7	49.1	45.8	31	55.6	48.1	51.1	53.7	51.8	55.6	43.6	45.5	48.9	52.6			
Means	46.4	37.4	41.2	44.4	44.9	41.4	39.7	41.9	42.3	39.9	Means	52.7	37.3	42.9	49.1	51.3	43.4	40.3	43.9	45.3	41.0		
FEBRUARY																							
1	50.5	41.5	44.5	49.6	47.5	41.6	41.3	46.1	44.7	40.0	1	57.5	52.4	57.1	53.1	56.9	52.4	51.6	51.0	50.4	48.2		
2	48.3	38.0	44.4	47.7	46.6	38.0	41.0	43.0	42.1	36.4	2	57.2	47.0	49.4	51.6	55.7	51.0	47.3	48.6	51.2	48.2		
3	46.0	37.4	41.1	45.5	45.5	39.2	38.9	41.0	40.1	37.0	3	63.6	47.2	53.1	58.6	63.2	51.5	48.7	51.9	54.5	49.0		
4	45.0	33.8	35.8	41.7	44.5	40.5	34.5	39.2	41.1	39.0	4	64.3	41.5	56.2	59.2	60.8	49.2	51.2	52.7	53.6	47.0		
5	47.9	34.0	42.9	47.5	47.4	47.9	40.9	44.2	45.2	46.2	5	70.0	38.8	54.9	64.8	69.2	53.8	48.6	54.8	54.7	47.4		
6	49.4	40.2	48.6	47.9	47.2	40.8	47.4	44.7	42.7	38.3	6	53.8	40.3	46.7	50.2	51.5	44.6	39.6	41.7	42.0	39.1		
7	43.9	33.9	38.6	43.3	40.8	34.5	37.3	38.4	36.8	32.5	7	57.0	41.4	51.7	52.0	51.4	41.4	46.7	48.3	44.8	36.6		
8	42.4	25.0	33.2	42.0	42.0	41.5	31.6	37.9	37.7	38.2	8	50.6	37.4	42.1	46.3	50.6	49.1	36.0	38.3	41.0	44.3		
9	43.2	38.1	42.1	41.6	41.6	41.9	41.2	40.0	40.3	39.4	9	52.9	48.8	50.6	52.0	51.8	51.3	46.1	47.5	47.6	47.0		
10	46.2	39.3	40.7	45.9	41.6	46.2	38.5	42.1	41.1	44.7	10	53.4	48.2	50.2	51.6	52.8	50.9	46.4	46.9	47.1	45.9		
11	54.8	45.0	47.1	51.6	53.1	48.8	45.1	49.1	49.7	46.4	11	62.1	46.3</										

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.				Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers 4 ft. above the Ground.			
	Maxi- mum	Minim- um	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Minim- um	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
MAY																					
1	53.4	42.7	48.1	52.2	49.5	48.0	43.6	45.9	45.1	44.0	1	73.7	52.9	63.6	70.8	71.9	60.6	55.8	58.7	60.7	55.8
2	55.8	44.9	48.0	51.6	53.8	48.1	46.6	47.7	47.0	44.3	2	76.6	51.3	62.1	72.7	76.5	65.3	56.1	61.3	60.3	58.3
3	59.9	44.2	52.7	56.4	59.3	47.2	48.1	48.5	48.3	43.0	3	79.4	54.3	61.7	71.3	79.1	63.5	55.2	57.6	59.1	58.2
4	61.0	41.9	54.2	59.6	60.2	49.1	47.1	48.5	48.7	43.1	4	79.2	56.2	68.8	74.4	75.8	68.3	60.8	61.7	62.5	59.6
5	64.0	40.6	50.2	59.7	63.3	53.4	47.3	53.3	53.3	48.2	5	70.0	59.5	63.0	63.7	66.7	63.6	56.2	56.2	58.5	58.3
6	58.1	44.5	50.6	57.5	53.2	51.2	47.2	49.0	48.4	45.0	6	69.3	53.1	63.6	69.1	62.6	58.0	56.1	57.2	57.4	51.6
7	59.4	37.8	51.2	55.6	58.7	47.0	44.2	44.8	47.4	44.0	7	69.7	49.8	58.3	64.2	69.7	58.4	51.3	53.7	54.7	52.0
8	54.0	44.7	46.4	50.0	52.2	45.4	45.0	45.8	46.4	41.6	8	66.1	48.6	58.2	63.2	59.2	56.7	51.3	52.9	52.7	50.7
9	55.8	37.4	43.7	50.7	54.7	47.6	39.3	41.9	43.2	42.8	9	65.2	46.9	63.0	60.3	58.7	59.4	55.4	55.3	57.8	53.8
10	52.6	45.3	49.4	51.0	51.6	52.4	47.7	49.3	50.1	50.6	10	62.2	49.5	58.8	57.7	55.8	61.8	52.8	54.7	54.0	59.7
11	57.5	37.9	50.7	55.7	55.8	53.3	44.5	48.0	50.0	51.3	11	69.4	56.4	63.5	66.3	67.5	62.2	61.1	62.5	63.0	60.4
12	66.3	52.6	57.3	59.2	62.6	57.8	54.6	55.9	57.2	55.6	12	73.7	59.7	63.9	71.2	67.4	60.7	61.6	58.8	55.7	53.3
13	78.0	52.4	68.6	73.6	77.0	62.2	61.7	60.9	63.9	59.4	13	69.3	51.8	62.2	64.8	67.0	60.8	54.5	54.3	56.2	55.4
14	85.4	56.5	75.6	81.6	83.8	69.4	66.2	69.2	65.0	59.4	14	66.9	50.6	61.6	62.0	64.9	58.8	54.3	53.7	56.1	54.4
15	69.4	50.2	60.6	65.6	66.7	50.2	51.1	54.7	54.8	46.0	15	73.1	55.5	68.1	69.3	67.6	60.0	58.8	62.2	61.5	58.0
16	64.5	43.1	55.7	60.4	60.9	48.2	49.2	48.6	46.8	46.8	16	75.8	57.8	66.1	71.0	74.2	64.2	57.2	60.1	62.4	61.7
17	70.5	43.0	61.9	66.6	70.2	56.2	52.1	53.9	57.5	49.5	17	73.0	56.4	70.2	72.0	72.2	57.8	58.8	58.4	58.6	53.8
18	64.6	46.2	61.2	63.7	63.6	53.0	53.7	54.7	53.8	50.2	18	68.9	55.3	60.3	65.3	66.8	58.4	56.0	57.7	58.4	54.3
19	66.3	51.0	61.8	65.1	65.2	54.5	55.9	56.7	53.5	50.7	19	69.0	55.4	64.6	66.3	67.7	61.8	59.4	59.3	59.4	57.0
20	76.0	47.8	63.7	73.0	75.2	64.6	55.7	59.7	61.7	59.0	20	71.4	55.1	64.0	68.2	69.8	62.6	57.7	60.0	61.5	58.6
21	73.9	52.5	64.9	72.3	70.9	61.4	56.5	59.7	60.3	57.2	21	66.0	57.3	61.2	64.6	63.6	61.0	60.2	63.1	62.6	58.6
22	72.4	50.9	65.2	66.9	65.8	57.6	55.8	57.9	59.0	52.6	22	68.8	54.8	57.1	61.9	66.9	58.8	54.7	57.5	60.1	55.4
23	69.0	48.9	59.2	64.1	68.6	54.4	52.1	53.1	54.7	50.0	23	60.9	53.4	56.3	58.5	58.8	57.3	53.0	54.2	54.8	54.8
24	59.5	48.7	51.5	54.8	59.5	51.0	50.4	53.7	55.4	48.8	24	67.0	55.2	60.1	64.3	66.0	60.7	56.7	58.9	59.7	58.0
25	67.3	48.7	59.9	61.5	65.2	55.0	51.3	53.2	54.5	51.3	25	78.4	50.7	66.5	74.1	76.4	63.5	60.5	63.1	64.7	60.0
26	68.9	44.9	61.8	67.6	63.4	61.0	54.3	57.9	57.5	58.2	26	80.6	53.3	69.1	76.3	78.9	67.7	62.3	64.1	65.2	62.3
27	74.2	58.4	65.2	69.6	70.1	62.8	58.4	58.7	59.4	56.4	27	83.8	59.3	69.1	78.4	82.5	71.2	61.6	65.7	64.8	65.4
28	71.5	53.2	63.1	68.8	69.2	61.1	54.8	57.5	58.1	57.1	28	84.4	61.3	66.8	78.2	83.7	71.0	63.1	67.2	67.2	65.0
29	77.1	49.1	67.6	73.1	76.7	57.5	58.1	60.6	64.7	53.5	29	84.7	59.6	73.4	80.2	81.1	70.2	64.7	66.7	67.4	64.4
30	74.5	53.7	63.3	68.8	72.0	63.2	59.2	59.6	60.4	57.0	30	87.7	59.1	79.6	84.9	84.3	68.2	66.9	66.7	68.8	62.8
31	69.6	51.7	64.7	66.3	66.6	57.2	55.7	56.5	55.6	51.5	31	89.0	61.5	79.6	86.5	86.2	66.7	67.6	70.0	70.7	66.0
Means	66.1	47.3	58.0	62.7	64.0	55.0	51.8	53.7	54.3	50.6	Means	73.3	54.9	64.7	69.4	70.6	62.6	58.1	59.8	60.5	58.0
JUNE																					
1	63.1	49.6	60.5	55.6	60.1	55.0	52.7	52.9	54.5	51.4	1	75.8	61.7	71.8	75.5	72.5	61.7	66.0	65.7	62.5	55.7
2	59.0	49.7	58.4	57.3	50.0	54.7	52.3	53.5	48.2	51.1	2	71.0	58.9	68.5	68.8	70.0	61.0	59.2	59.8	59.9	57.4
3	63.0	51.3	55.6	56.6	59.6	56.0	51.6	51.9	53.7	51.1	3	75.0	56.9	64.3	70.9	71.8	65.3	59.7	60.7	59.5	59.6
4	66.3	46.2	60.0	65.3	62.0	53.4	54.1	55.4	53.0	51.6	4	74.1	54.7	69.3	69.0	71.8	61.8	60.3	61.0	60.5	55.0
5	66.1	53.4	60.9	63.4	61.7	58.1	54.8	56.3	56.4	52.1	5	72.6	57.8	66.5	67.6	71.4	57.8	62.3	61.3	59.7	56.0
6	69.0	51.6	59.6	65.5	65.0	53.5	53.3	55.5	55.8	51.2	6	67.2	56.1	63.1	65.9	62.4	62.3	58.9	59.2	57.4	56.7
7	73.3	45.4	66.2	72.7	70.0	55.0	57.6	59.5	57.4	52.1	7	67.0	55.2	60.8	64.6	66.4	58.4	55.7	55.2	56.4	55.7
8	64.1	50.6	59.0	62.5	61.4	60.4	57.2	59.5	60.6	59.2	8	71.9	53.9	62.4	67.3	68.7	65.5	56.9	60.3	62.2	62.1
9	73.0	57.4	64.1	70.0	71.8	61.2	60.5	62.2	61.6	58.7	9	71.1	61.3	64.6	65.5	69.8	61.3	56.9	55.4	58.1	56.9
10	73.0	53.4	61.2	69.0	72.8	60.6	58.1	61.5	63.5	57.7	10	77.0	53.4	60.1	65.2	76.1	65.3	58.9	61.0	65.1	59.8
11	78.4	53.4	71.6	76.6	77.4	66.0	61.7	64.6	65.9	60.0	11	69.0	55.8	62.7	67.1	63.1</td					

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	69.7	56.5	64.2	66.5	65.6	60.8	58.4	60.1	60.3	58.8	1	57.5	52.6	55.7	57.4	57.4	56.6	55.1	55.9	56.4	55.7
2	69.0	53.9	57.9	64.4	66.3	58.6	55.1	55.4	56.0	54.2	2	58.2	49.2	56.9	56.4	55.6	49.2	56.3	54.1	54.3	48.6
3	66.0	46.4	60.3	65.2	63.9	57.5	54.4	55.3	54.5	53.4	3	58.4	47.5	53.8	56.1	56.4	47.6	52.1	53.4	53.7	47.0
4	72.4	49.6	63.6	69.4	71.4	57.5	56.5	57.1	58.2	52.5	4	54.0	44.4	48.4	52.8	51.7	49.4	47.9	50.2	48.2	46.2
5	70.1	56.5	66.2	69.0	62.7	58.5	57.2	58.4	59.5	55.9	5	51.1	44.0	49.3	50.6	49.5	44.0	44.7	45.3	45.5	42.8
6	72.0	50.4	63.1	68.0	67.0	56.8	54.8	55.3	55.5	54.0	6	51.0	41.5	50.8	49.8	48.6	42.2	50.4	45.5	43.8	39.0
7	68.2	47.4	63.0	61.2	60.0	55.5	55.0	57.2	56.3	53.2	7	44.3	36.2	39.2	43.6	43.2	36.2	35.1	38.3	38.4	34.0
8	71.3	49.4	59.4	66.7	70.8	54.7	55.4	57.1	57.7	51.9	8	51.9	29.8	42.0	49.6	51.1	50.0	38.4	45.6	48.0	49.0
9	69.3	46.5	62.6	69.3	67.3	60.0	57.2	59.3	56.1	57.5	9	50.8	43.8	45.8	48.9	49.1	45.3	44.6	46.9	46.7	44.1
10	72.3	59.5	64.1	66.9	70.7	62.3	61.3	61.1	62.7	59.8	10	56.6	35.3	41.0	54.5	54.0	50.8	48.0	48.3	48.7	47.2
11	78.6	61.3	66.0	72.3	76.7	62.4	64.0	65.3	63.9	60.8	11	52.5	41.6	44.2	48.5	48.2	41.6	41.7	43.5	43.1	39.8
12	71.0	59.7	64.4	70.9	68.0	63.0	61.7	65.5	64.3	62.3	12	54.2	39.7	52.2	54.2	52.6	47.7	49.1	48.8	46.1	44.4
13	76.8	60.6	66.3	69.0	76.9	63.2	65.0	66.4	67.1	59.7	13	50.0	38.7	46.9	49.1	47.5	39.0	46.3	46.1	43.1	36.9
14	73.3	55.6	67.0	67.1	71.9	62.6	63.1	62.4	63.6	58.2	14	41.0	33.5	36.8	40.1	38.8	37.0	34.5	38.4	37.2	35.4
15	70.0	56.6	61.2	68.4	64.9	57.3	56.1	57.1	56.3	53.0	15	46.2	36.0	38.6	43.6	44.6	39.8	37.1	40.6	41.0	37.6
16	68.1	57.2	63.5	66.2	67.7	58.5	58.2	59.7	60.5	56.3	16	39.8	33.7	36.6	39.3	38.6	36.6	34.3	35.7	35.1	34.2
17	69.2	54.0	64.1	66.0	65.9	57.3	60.6	59.9	58.7	53.9	17	40.8	33.7	35.7	39.2	39.8	37.7	34.2	36.5	35.8	36.2
18	64.8	44.9	54.9	59.9	64.4	53.4	50.7	53.2	55.8	50.4	18	44.2	33.7	35.9	42.2	43.0	38.2	34.6	38.2	39.0	36.8
19	67.0	46.6	53.7	62.0	61.0	50.6	51.7	54.0	55.0	48.8	19	44.3	33.7	35.5	41.8	43.3	35.6	34.7	39.1	34.7	34.7
20	65.8	47.8	57.5	62.1	62.6	52.2	56.2	57.8	54.7	47.7	20	36.5	29.3	33.6	35.5	34.6	33.0	33.4	34.9	34.5	33.0
21	55.9	43.4	52.4	55.0	55.0	48.4	47.2	47.5	48.2	45.4	21	41.5	32.6	34.5	38.6	38.9	41.5	43.3	37.7	40.9	
22	58.0	41.4	50.2	55.6	57.0	42.0	44.9	45.9	46.5	40.0	22	46.0	41.5	43.3	44.8	45.7	41.8	43.1	44.0	43.6	40.2
23	68.2	34.7	54.0	62.6	66.7	52.2	46.0	51.3	53.9	49.0	23	48.0	33.5	37.6	44.0	44.6	48.0	36.4	40.9	41.7	47.0
24	70.5	45.0	59.2	67.1	69.0	54.6	52.8	57.0	56.6	51.0	24	50.3	40.0	45.4	48.0	46.6	40.6	42.4	42.8	42.1	38.2
25	58.0	47.7	51.6	55.6	54.0	49.3	47.6	48.5	47.0	45.0	25	46.0	37.6	39.7	44.6	44.5	38.8	36.4	38.1	39.1	36.6
26	56.1	39.3	49.3	54.6	54.4	47.3	45.0	46.6	45.2	44.6	26	38.8	29.5	32.7	38.3	37.9	32.0	31.8	36.6	36.5	31.4
27	55.3	38.4	45.5	52.7	55.3	46.0	41.7	44.5	45.7	42.4	27	48.4	30.8	36.4	43.2	47.0	48.2	35.7	42.2	46.4	47.6
28	56.6	46.0	55.7	55.9	50.0	53.0	53.5	51.6	48.0	49.6	28	57.0	44.0	53.9	56.6	56.2	44.0	52.1	54.3	54.7	40.8
29	57.8	49.8	54.4	57.5	57.3	54.0	51.3	51.6	51.3	52.0	29	46.0	39.5	41.4	45.7	45.1	39.5	39.2	40.4	39.4	37.0
30	63.5	53.0	57.4	59.2	63.1	60.0	55.7	58.2	60.6	58.0	30	45.8	39.5	42.1	45.0	45.7	40.8	39.3	41.5	40.7	38.1
Means	66.8	50.0	59.1	63.5	64.3	55.6	54.6	56.0	56.0	52.6	Means	48.4	38.2	42.9	46.7	46.7	42.4	41.2	43.5	43.3	40.7
OCTOBER																					
1	64.9	53.7	62.4	62.7	63.0	59.7	58.4	59.2	58.0	56.7	1	45.4	36.0	38.4	44.2	45.2	42.0	37.3	41.9	43.2	41.6
2	64.4	52.2	57.6	60.0	60.4	52.2	52.6	51.2	50.4	47.0	2	47.6	37.7	47.6	45.3	44.7	37.7	47.0	41.3	40.9	36.5
3	61.7	37.1	52.0	59.4	61.0	51.2	47.4	50.1	51.0	46.4	3	43.8	32.0	33.8	40.6	41.2	41.2	33.7	39.6	40.2	39.5
4	62.7	47.5	55.7	59.6	60.1	57.0	49.9	52.2	53.8	54.5	4	43.2	34.0	36.6	42.1	41.8	34.0	34.4	37.8	36.3	32.2
5	60.5	54.6	57.5	60.6	59.6	57.4	54.0	55.6	54.9	54.9	5	43.5	31.9	33.6	42.8	43.1	39.6	32.7	39.7	40.4	38.0
6	61.3	52.0	59.1	60.2	59.5	52.0	55.4	56.7	56.0	50.2	6	41.6	34.2	37.7	49.5	41.4	38.8	36.3	38.4	38.8	37.4
7	58.3	48.7	50.7	54.6	56.8	48.7	49.0	49.4	48.9	47.0	7	42.4	37.7	38.6	41.7	41.4	40.0	38.2	40.7	40.7	39.5
8	62.7	42.5	52.8	60.9	60.2	46.7	47.8	52.3	52.2	44.8	8	42.1	37.2	39.5	40.6	41.4	41.0	38.7	39.9	40.4	40.2
9	63.3	39.7	50.2	61.6	61.6	54.0	49.2	55.1	55.4	52.7	9	41.6	36.4	39.4	41.1	40.3	36.4	38.3	39.3	39.2	35.8
10	66.3	52.8	57.0	63.7	64.0	54.2	55.8	58.7	58.8	53.7	10	40.4	33.8	37.2	40.3	37.6	34.5	36.7	37.6	34.1	32.3
11	62.1	51.5	53.9	57.1	62.0	51.5	53.7	55.0	56.8	50.0	11	36.8	32.9	35.3	36.5	36.8	36.0	34.1	34.6	33.7	33.4
12	61.1	48.6	51.8	55.4	60.4	56.4	51.2	53.7	56.6	54.9	12	37.2	35.0	36.5	37.2	36.2					

GREENWICH METEOROLOGICAL OBSERVATIONS, 1943.

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

1943	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	44.2 39.1	52.8 41.6	49.1 40.1	57.0 51.5	58.0 42.6	71.3 49.5	73.0 53.1	91.6 63.0	73.8 56.4	63.9 53.3	58.0 52.2	46.0 35.2
3	49.9 34.2	49.7 40.1	55.5 43.3	56.7 47.0	55.0 44.5	65.0 50.5	76.7 51.3	77.1 58.7	70.6 53.5	65.1 53.7	57.9 54.6	47.4 37.2
4	42.8 31.6	48.3 36.9	51.4 43.2	57.8 46.8	57.0 43.4	60.4 50.0	79.4 53.8	72.3 56.6	70.2 45.2	64.4 37.2	58.7 46.9	47.3 31.2
5	38.7 27.3	46.8 33.3	45.3 37.6	65.0 41.7	61.2 41.3	65.0 45.3	82.0 55.4	77.1 54.3	67.4 48.0	62.0 47.3	58.3 43.0	45.0 33.2
6	34.3 29.4	45.0 33.1	48.0 32.2	64.5 37.8	63.7 39.6	67.8 52.5	81.3 58.5	75.8 59.8	73.7 55.8	64.4 54.5	54.6 47.2	43.3 30.2
7	37.0 30.7	49.6 42.5	52.1 32.9	70.1 39.7	66.2 43.0	67.6 51.5	72.5 52.8	73.5 55.5	70.6 50.2	61.1 55.2	52.0 42.0	43.5 32.4
8	39.9 35.6	48.3 33.2	52.4 32.6	54.0 41.4	60.1 37.3	70.8 44.6	70.6 49.5	68.3 55.2	72.1 48.1	61.4 50.2	51.2 37.3	42.0 37.3
9	38.2 27.2	44.9 24.4	50.6 27.8	58.0 36.5	61.8 44.8	74.4 50.6	72.0 47.2	67.9 53.8	69.1 48.4	60.2 41.4	44.5 29.3	43.0 37.0
10	37.2 24.5	42.5 33.6	50.2 34.3	52.1 42.5	54.7 37.2	66.7 56.8	68.9 46.7	72.4 61.8	72.8 45.3	62.5 49.3	52.1 42.4	42.3 38.7
11	37.0 29.1	43.4 38.6	50.4 28.8	53.0 48.1	57.2 42.8	74.0 52.3	67.3 49.2	73.3 53.1	71.0 58.7	63.8 49.4	49.9 36.0	42.2 34.0
12	43.5 36.7	47.4 39.9	55.1 40.1	54.0 45.8	53.9 36.6	75.1 51.7	63.9 55.8	77.7 57.8	72.7 60.9	66.6 52.8	55.6 41.9	40.8 31.7
13	51.5 42.5	54.8 47.2	53.9 32.3	63.9 50.4	59.9 52.2	80.0 56.6	70.6 59.7	70.9 43.8	79.5 59.5	62.2 48.1	52.1 39.3	37.4 34.1
14	47.1 39.4	53.7 40.2	51.5 34.4	62.1 42.9	70.5 51.6	72.0 47.2	75.6 51.5	72.7 56.0	72.0 60.4	61.1 51.7	54.5 45.2	37.1 34.4
15	48.2 38.1	49.2 42.3	51.7 34.3	71.4 43.7	80.1 55.5	69.1 49.1	70.7 50.2	75.2 56.9	77.9 54.9	63.6 53.5	50.5 33.0	41.1 26.6
16	43.5 35.2	55.0 45.8	55.9 29.7	70.9 47.7	86.4 51.3	68.4 46.8	69.0 55.2	73.8 48.9	74.0 56.5	59.0 45.0	41.1 36.2	37.4 30.0
17	46.3 34.0	48.9 35.4	51.8 28.4	77.3 43.3	68.6 41.5	66.9 45.3	74.9 57.8	72.6 48.5	69.7 56.7	58.5 41.2	46.3 33.1	42.1 33.2
18	47.6 39.4	46.2 28.6	60.0 32.2	76.7 49.5	66.1 41.5	67.0 44.3	77.0 55.2	83.1 56.0	69.3 53.7	63.6 48.8	39.7 33.3	35.0 28.8
19	45.4 33.5	46.1 34.4	54.8 33.9	76.8 48.3	74.1 45.0	71.0 50.5	75.9 54.6	80.3 59.9	70.5 44.7	58.2 41.3	41.1 33.5	46.9 33.1
20	47.4 38.2	55.8 31.8	57.9 35.2	75.3 48.1	66.8 50.4	64.6 56.9	71.6 50.5	82.8 52.3	65.5 45.3	61.1 50.1	44.5 33.8	51.2 41.7
21	51.0 44.4	54.1 33.0	45.4 39.3	62.9 36.1	69.0 46.4	73.6 51.2	70.8 55.1	79.3 54.7	66.6 47.7	60.4 45.0	44.4 31.3	45.3 37.2
22	52.5 46.0	46.1 32.1	47.4 28.1	65.8 37.6	77.8 52.2	77.0 50.8	74.1 56.9	83.9 61.1	66.8 43.1	62.0 52.2	37.0 29.4	49.1 40.2
23	52.9 46.4	45.3 34.6	44.1 34.7	61.4 52.3	75.2 50.6	75.0 46.2	65.8 54.7	70.5 51.8	56.4 39.3	62.4 48.7	43.3 34.2	46.6 39.2
24	54.8 43.4	38.2 35.0	54.1 35.3	57.8 42.1	73.9 48.8	74.1 57.1	71.6 53.3	72.7 52.6	59.4 34.5	61.3 48.4	46.5 33.2	45.2 32.9
25	48.2 29.3	40.2 31.9	57.1 38.3	61.3 46.1	70.5 48.6	73.0 50.2	61.9 55.0	75.6 46.5	68.4 44.7	61.1 40.7	50.6 36.8	46.3 30.3
26	47.6 30.8	53.7 33.5	58.6 45.5	60.2 48.6	61.6 48.6	78.9 54.7	69.6 50.3	75.7 53.6	69.8 47.3	60.5 40.3	48.9 37.4	42.9 32.1
27	45.2 40.2	53.2 35.5	60.1 48.0	64.6 45.3	68.5 43.7	75.1 51.2	81.0 52.7	72.9 53.5	59.3 37.7	59.6 39.0	45.6 28.6	46.5 41.4
28	51.1 41.3	49.2 30.6	54.1 41.6	60.3 43.2	69.8 58.2	74.1 49.1	82.8 58.0	69.2 48.9	57.4 37.5	56.6 42.8	38.5 30.5	47.4 44.1
29	50.3 43.8	51.1 30.4	57.1 38.3	59.8 44.2	75.4 52.3	71.0 47.3	86.0 60.6	70.4 51.2	56.6 45.2	56.5 44.0	53.8 36.5	47.3 31.0
30	52.3 47.2			55.5 35.5	58.7 34.9	73.0 48.3	78.0 53.6	86.6 58.6	67.1 59.0	56.4 49.2	55.6 46.3	57.3 39.4
31	54.1 46.0			53.9 47.4	61.8 50.3	79.7 53.2	74.8 53.2	86.6 58.0	73.0 59.1	58.8 52.8	53.2 46.4	46.2 39.2
Means	46.1 36.8	48.6 35.7	53.1 36.6	63.0 44.4	67.5 46.6	71.4 50.6	74.8 54.2	74.7 54.6	67.9 49.4	60.8 47.2	49.2 37.9	43.7 34.6

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1943

Gauges partly sunk in the Ground in the Christie Enclosure	Monthly Amount of Rain collected in each Gauge												Height of Receiving Surface			
	Number of Gauge	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Sums	Above the Ground	Above Mean Sea Level
		in.	ft. in.	ft. in.												
	6	4.388	1.748	0.284	0.918	2.140	1.487	1.848	1.570	1.732	2.340	1.288	1.588	21.331	0 5	149 6
	8	4.379	1.790	0.277	0.904	2.107	1.440	1.838	1.553	1.715	2.354	1.245	1.590	21.192	1 0	150 1
Number of Rainy Days (0.005 in. or over)		19	9	4	12	8	12	11	16	14	14	15	8	142	..	..

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	11.7	12.4	7.9	11.2	9.8	9.9	8.7	9.1	7.3	5.9	10.0	9.2	9.4
2	12.5	12.7	8.2	10.7	9.1	9.2	8.2	8.7	7.4	6.3	10.0	9.3	9.4
3	12.3	12.9	7.5	10.4	8.7	8.2	7.8	8.4	6.6	6.2	9.9	9.1	9.0
4	12.8	12.3	7.9	11.1	8.8	8.7	8.0	8.3	7.0	6.0	10.0	9.3	9.2
5	13.0	12.7	7.6	10.8	8.9	8.6	8.5	8.5	7.6	6.0	10.4	9.1	9.3
6	12.6	12.3	6.9	10.6	8.7	8.2	8.5	8.8	7.2	6.0	10.1	8.8	9.1
7	12.0	11.7	7.3	10.9	9.8	9.4	8.7	8.9	7.0	6.0	10.4	8.5	9.2
8	12.2	11.3	7.5	10.8	10.5	10.3	8.8	9.7	7.2	6.3	10.5	8.3	9.5
9	12.6	11.9	7.5	11.9	11.9	10.7	9.7	11.1	8.4	6.6	10.8	8.2	10.1
10	12.5	11.6	8.3	12.4	12.7	10.9	9.4	11.5	8.4	7.1	10.5	9.2	10.4
11	13.2	11.9	9.3	12.3	13.4	11.0	10.1	13.1	9.2	7.8	11.8	9.2	11.0
12	13.7	13.2	10.2	13.0	13.4	11.9	10.8	13.5	9.9	8.6	12.3	9.9	11.7
13	13.4	13.6	10.7	13.5	13.5	12.1	10.7	14.2	9.9	9.0	13.2	11.3	12.1
14	13.2	13.8	10.9	14.7	13.7	12.4	10.8	14.3	10.2	9.2	13.2	10.7	12.3
15	13.1	13.5	10.7	15.2	13.7	13.0	11.3	14.3	9.3	8.9	12.9	10.6	12.2
16	12.3	12.7	10.6	14.3	13.5	12.2	10.9	14.2	9.3	8.5	12.3	9.7	11.7
17	11.7	12.6	10.6	13.6	13.4	12.0	11.2	14.1	9.5	8.5	12.2	9.9	11.6
18	11.1	11.8	10.3	14.1	13.0	12.1	11.3	13.2	8.8	7.6	11.5	10.0	11.2
19	10.8	11.3	10.0	13.4	12.1	11.1	11.0	12.6	7.8	7.8	11.1	10.0	10.7
20	11.0	11.0	9.3	12.2	11.2	10.9	10.8	11.4	7.7	7.7	11.1	9.9	10.3
21	11.0	11.6	8.8	11.9	10.9	10.0	10.1	10.2	8.2	7.7	11.1	9.5	10.1
22	11.6	11.3	8.6	11.2	10.7	9.3	9.3	10.1	8.3	7.3	10.9	9.0	9.8
23	11.3	11.4	8.7	11.2	10.8	9.2	9.5	9.9	8.3	6.7	10.9	8.6	9.7
24	12.5	10.9	8.7	11.1	10.1	9.7	9.0	9.0	7.7	6.2	10.3	8.9	9.5
Means	12.3	12.2	8.9	12.2	11.3	10.5	9.7	11.1	8.3	7.2	11.1	9.4	10.3
Greatest Hourly Measures	47	42	39	42	36	31	24	26	24	26	27	33	..

* 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.

