RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS

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

1942

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

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CONTENTS

CONTENTS

MAGNETIC – *continued.*

METEOROLOGICAL

THE ROYAL OBSERVATORY, GREENWICH,

AND

ABINGER MAGNETIC STATION, SURREY.

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1942.

INTRODUCTION

STAFF

During the year 1942 the staff serving in the Magnetic and Meteorological Department consisted of W. M. Witchell, Superintendent, E. A. Chamberlain, G. F. Wells, P. L. Rickerby, D. Oliver and N. S. C. Rhodes. Mr. Chamberlain, resident observer and assistant-in-charge, with his assistant Mr. Rickerby, were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

THE MAGNETIC STATION - *Site* (Lat. 51° 11′ 5″ N; Long. 0° 23′ 12″ W). Established in 1924, the station is situated on the northern slope of Leith Hill, Surrey, 800 feet above sea level. It is approximately 26 miles from the former site at Greenwich in a direction a little south of south-west. The nearest railway track lies at a distance of about 2½ miles.

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

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

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

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

The temperature of the magnetograph chamber is controlled by a thermostat placed at the centre of the room at the same level as the magnetic instruments. Daily readings of a thermometer attached to one of the variometers show that the departures from a mean temperature do not exceed 0°.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 1¼ inches was cemented upon the pier occupying the south-east corner. The other three piers are situated at positions 2 feet west and 2 feet 6 inches south of the north-east corner; 5 feet 6 inches west and 5 feet south of the same corner and 2 feet east and 3 feet north of the south-west corner. Also, in 1938 a heavy wooden table 8 feet by 3 feet was installed near the centre of the room to carry new recording mechanism. The legs of this table pass freely through the floor of the chamber and are cemented into the concrete base of the main building.

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

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

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

A small Helmholtz-Gaugain coil, having a field of 7.43 gamma per milliampere and made to envelop the variometer, is used both to orientate the magnet correctly with respect to the Earth's field and to determine the scale-value of the record. The adopted scale-value during 1942 was 4.50 gamma per millimetre.

The La Cour Declination Variometer. The general features of this instrument correspond closely to those of the variometer just described. The scale-value adopted during 1942 was 0′.92 per millimetre. Expressed as magnetic intensity the scale-value would by 4.96 gamma per millimetre at the present time.

The La Cour Vertical Intensity Variometer. This instrument is fully described in *Publikationer fra det Danske Meteorologiske Institut No. 8.* The recording magnet, including knife-edges and mirror, is fashioned from a single piece of cobalt steet, with the purpose of elimination 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 supplemented by thin time lines extending the whole width of each record, these lines being produced by adjustable long narrow mirrors which reflect light from an auxiliary time signal lamp. In the case of the "quick-run" and "wide-range" recorders, only the thin lines are printed.

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

OBSERVING INSTRUMENTS - *Declinometer.* A hollow cylindrical magnet with scale and collimating lens is used in conjunction with a small telescope mounted independently on the same pier. The magnet is suspended by tungsten wire of diameter 0.02 mm. Frequent reversals are made to eliminate the collimation error of the magnet from the results, and the position of torsional zero of the suspension wire is also frequently checked. 90° of torsion deflects the magnet about $3''$ of arc. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to $1''$ of arc. An azimuth mark is fixed on the top of a concrete pillar 10 feet high, erected at the northern extremity of the Observatory grounds at a distance of approximately 300 feet from the observing pier. Determinations of the azimuth of this mark are made at intervals by means of observations of Polaris. During each observation both direct and reflected views of the star are taken. The effect of error of level of the telescope is thus entirely eliminated. Reflection is obtained from the surface of mercury contained in a shallow copper dish.

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

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

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

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

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

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

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

Theory of the observation:-

If a horizontal magnetic field whose intensity is slightly greater than that of the Earth is imposed at an angle of nearly 180° with the Earth's field, a precise angle can be found at which the resultant of the two fields becomes directed at right angles to the Earth's field. The intensity F of the imposed field, and its angle α with the Earth's field being known, the horizontal intensity of the Earth's field can 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. 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 1942 is based were verified in February 1939. To convert the measure of current from international units to c.g.s. units the factor adopted prior to 1938 January 1 was .99997; but from this date onward the value adopted has been .99988. The change introduces a discontinuity into the deduced values of H of -1.7γ.

A Kew-Pattern Unifilar Magnetometer (Casella No. 181) is also used to determine absolute horizontal intensity. Deflection observations are made at three distances, namely 22.5, 30 and 40 cms. Twelve observations of the moment of inertia of the collimator magnet were made during the year 1942. The mean observed value of log. K from these determinations was 2.42359. 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 16 normal determinations made during the year are +10.28 and -1823 respectively.

The values used in the reduction of the 1942 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).

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 1942 for the measurement of the current were verified at the National Physical Laboratory in February 1939. 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 to one second of arc. The levels on the base can likewise be read to one second. A detailed description of the inductor will be found in the volume for 1915. Since 1929 January 1 the observations of inclination have not been used for determination of vertical intensity.

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

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

Base-lines. Values of the base-lines are adopted from smooth curves drawn through points plotted upon charts, each point representing the mean of several independently observed values. Ten observations of declination, eight of horizontal intensity and six of vertical intensity are made, on an average, each week-day. Prior to 1929 the base-line values for vertical intensity traces were computed from absolute observations of inclination I, combined with similtaneous values of horizontal intensity H, taken from the magnetograms, in accordance with the relation $Z = H \tan I$. From 1929 January 1 the values have been obtained directly from observations of vertical intensity with the coil-magnetometer. The change introduces a discontinuity of 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.

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

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

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

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

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

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

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

Tables XIII to XVA contain the daily values of the base-lines of the magnetograms deduced 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, 1942.

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

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

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

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

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

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

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

The Photographic Barometer. A siphon barometer is employed which, at its open end, operates a plunger resting on the surface of the mercury. On account of the optical magnification associated with a moving mirror at some distance from the recording drum, the motion of the plunger must be mechanically reduced in being transferred to the arm which carries the mirror. In the actual arrangement two levers are used. One is connected to the stem of the plunger resting on the free surface of the mercury and is 12 inches long from plunger to pivot. A pin with a rounded conical point is screwed into this lever at a distance of 1 inch from the pivot. On this pin rests the plane under-surface of a shorter lever, which is 4 inches long from its pivot to the pin and is set at right angles to the first lever. Both levers are approximately horizontal in their mean position. The moving mirror of the instrument is mounted horizontally, in a suitable frame, just above the pivots of, and attached to the short lever. The first lever lies east and west, so that the axis about which the mirror turns is in the same direction. The recording drum is horizontal and the motion of the beam of light is transformed, so as to be horizontal, by a fixed right-angled prism supported above the mirror. A lens of suitable focus is mounted in a vertical plane in front of the prism and brings the beam of light from the straight-filament electric lamp to a focus on the drum. A base-line mirror, similar to the moving mirror, is mounted in a vertical plane below the lower half of this lens. Provision is made for all the necessary adjustments of the directions of the two beams of light. The weight of the plunger and lever mechanism is relieved by a balance-weight on the far side of the pivot, so that the plunger rests on the mercury surface without appreciably depressing it.

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

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

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

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

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

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

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

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

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

Radiation Thermometers. These thermometers are placed in an open position in the Christie Enclosure. The thermometer for solar radiation is a mercurial maximum thermometer with its bulb blackened and enclosed in a glass sphere from which the air has been exhausted. The thermometer employed was Negretti and Zambra No. C.G. 10220. The thermometer for radiation to the sky is a spirit minimum thermometer, Negretti and Zambra No. C.G. 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.

The velocity recorded by the instrument is three times the actual velocity v of the cups.

After certain structural alterations were carried out between 1941 October 18 and 30, 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 1942 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 in 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 (3¼ 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.

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 54-77). 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 81-82) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pp. D180-81).

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, 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 - 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 54 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
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 (*)

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

ADDITIONAL SYMBOLS

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

ROYAL OBSERVATORY, GREENWICH.
ABINGER MAGNETIC STATION.

Results of Magnetic Observations

1942

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 *	29.3	29.5	29.3	29.3	29.2	29.6	29.1	29.1	28.9	28.7	30.1	31.1	31.7	31.2	31.0	30.3	30.1	30.0	29.7	29.2	28.6	28.7	29.0	29.2	
2	29.7	30.0	30.0	30.4	31.1	30.2	30.0	29.9	29.7	29.8	30.5	30.5	31.6	35.1	35.6	36.1	39.5	38.1	32.6	27.1	25.2	25.6	24.7	26.1	
3 **	28.4	31.1	30.5	30.0	29.1	28.7	29.7	30.1	30.7	30.6	31.4	31.0	31.1	32.2	33.0	33.4	31.7	31.7	30.9	29.6	28.5	27.1	26.1	25.6	
4 **	26.9	27.6	28.4	26.8	24.7	27.7	29.7	29.9	28.2	28.7	30.1	30.7	33.1	33.2	30.6	30.3	32.6	30.3	29.2	27.1	25.6	19.1	18.6	24.1	
5 **	28.1	27.7	28.2	31.1	30.0	30.1	30.5	30.6	31.6	33.2	32.6	30.7	32.1	32.6	31.4	30.1	30.1	30.3	26.9	24.6	27.9	28.2	26.7	28.6	
6	28.6	28.5	29.1	29.6	30.1	29.7	29.1	29.1	29.1	29.6	30.0	29.8	31.1	31.4	31.6	29.9	31.4	30.0	21.7	28.0	28.4	25.3	23.8	25.9	
7	26.2	27.0	26.3	29.6	28.1	29.0	28.7	29.0	28.9	29.1	29.7	30.1	31.1	31.2	30.6	29.1	29.1	29.7	29.1	27.2	27.3	28.6	28.4	28.3	
8	28.8	29.1	28.9	29.1	29.3	29.5	29.2	29.0	28.6	28.8	29.1	30.2	31.5	31.6	31.5	30.1	30.7	30.1	30.0	29.6	29.1	28.7	28.3	28.7	
9	28.1	28.4	29.1	30.1	28.6	28.5	28.8	29.1	28.4	28.8	29.1	30.1	31.5	31.6	30.7	30.1	30.6	30.1	30.2	29.9	29.7	29.0	28.2	25.9	
10	23.4	26.3	28.1	28.7	29.1	29.6	29.4	29.5	29.2	29.9	30.5	31.2	32.8	31.8	30.5	30.1	28.2	28.7	30.1	29.2	28.2	26.1	25.4	29.0	
11	29.9	31.5	28.8	28.2	29.1	29.1	29.1	29.0	29.1	30.1	31.4	33.3	33.3	32.7	30.5	30.1	30.0	30.1	29.7	27.3	26.1	26.4	28.1	28.7	
12	28.2	29.7	28.5	29.1	28.3	28.5	28.6	28.2	28.3	29.1	30.7	31.7	32.7	31.9	30.7	30.8	30.4	29.9	29.6	29.5	22.9	27.0	29.3	29.1	
13	29.8	29.8	29.5	29.5	29.2	29.5	29.1	29.2	28.5	28.2	29.2	31.1	33.0	33.2	31.7	30.2	29.7	29.7	28.4	29.0	28.2	28.7	29.0	29.2	
14	29.5	29.9	29.7	29.4	29.5	29.7	29.7	29.1	28.2	28.3	28.5	30.4	32.2	32.1	31.1	30.4	30.5	30.6	30.2	30.0	29.6	28.7	26.1	26.5	
15	28.1	28.2	28.3	28.1	28.0	28.1	28.1	27.8	27.8	28.9	30.8	32.9	34.5	34.0	35.0	36.0	32.1	30.4	30.0	29.6	29.0	28.1	28.0	29.2	
16	28.0	27.4	26.1	26.9	27.8	28.3	28.4	28.5	29.0	30.0	31.0	32.9	35.0	35.0	34.0	35.9	35.9	34.9	30.0	26.2	22.5	27.1	28.4	27.7	
17 **	28.4	25.6	27.1	28.4	29.6	29.0	31.4	32.5	35.5	33.1	36.1	34.0	33.9	33.5	31.5	30.4	30.4	30.0	29.1	28.4	28.3	28.0	28.4	28.6	
18 **	28.8	27.4	28.0	22.7	26.5	27.5	28.5	29.1	29.6	30.1	29.0	30.4	31.6	31.1	30.1	29.6	30.1	30.2	30.4	30.1	28.2	23.5	18.1	23.6	
19	28.2	30.6	30.4	27.6	31.0	34.8	31.8	29.1	29.6	30.1	29.1	30.4	31.4	31.1	29.6	29.0	29.6	29.5	29.4	28.9	28.0	27.9	27.0	26.0	
20	29.0	30.4	29.0	29.1	29.0	29.0	28.8	28.0	28.4	28.9	29.8	31.6	32.8	32.4	31.0	30.0	29.7	29.1	29.4	28.7	28.3	27.5	28.7	28.5	
21 *	29.0	29.2	29.1	29.1	29.0	29.0	28.7	28.2	29.0	29.8	30.1	30.5	30.6	30.4	29.6	29.3	30.0	29.3	29.3	29.0	28.0	26.5	27.7	28.4	
22	28.6	28.9	28.9	29.9	28.3	27.5	27.3	27.9	28.4	29.2	30.0	30.9	33.3	33.4	33.9	33.1	31.5	30.4	29.4	26.9	25.6	23.9	24.3	25.7	
23	24.8	26.5	28.5	28.8	29.3	29.4	29.2	28.8	29.3	29.6	30.9	31.8	32.2	32.4	32.3	32.8	31.8	30.8	29.9	28.8	28.3	28.2	27.9	26.9	
24 *	27.1	27.8	28.5	28.8	28.8	28.8	28.8	28.1	28.3	28.4	29.4	29.9	30.3	31.1	30.9	30.4	30.1	30.3	30.0	29.8	29.2	28.1	24.6	25.9	
25	27.1	28.3	28.4	28.7	28.7	28.7	28.4	28.0	27.6	27.8	30.2	30.8	31.8	32.6	31.5	29.9	29.8	29.4	29.4	29.4	27.8	28.5	28.4	27.9	
26 *	27.4	27.5	27.4	27.1	26.5	27.3	27.9	27.9	26.9	26.9	28.9	31.5	33.1	32.6	32.3	30.9	30.9	30.2	29.5	29.5	29.0	28.6	28.0	27.9	
27	28.1	28.8	28.6	28.9	28.5	28.7	28.4	27.7	27.5	28.1	29.4	31.0	33.3	32.6	31.7	31.3	31.6	31.3	29.9	29.3	28.7	28.2	27.3	25.4	
28	25.9	26.9	25.3	26.9	25.9	26.2	28.3	29.0	27.4	28.1	30.5	33.9	35.1	35.0	34.0	31.9	29.8	28.8	28.6	28.6	25.9	27.0	27.9	27.9	
29	28.0	28.1	28.5	28.6	27.6	28.0	28.3	27.8	26.9	26.9	28.2	30.0	31.4	32.2	31.9	30.5	29.9	30.4	30.9	30.2	27.9	26.4	26.4	25.2	
30	26.6	25.9	25.5	26.0	26.4	26.9	27.4	28.0	28.0	28.7	29.6	31.9	34.3	34.6	34.8	33.0	34.1	33.3	30.9	28.6	28.7	28.4	27.4	27.2	
31 *	27.9	28.8	28.9	28.9	28.5	29.4	28.9	28.1	27.5	28.5	29.0	30.0	31.3	32.0	31.1	30.4	30.7	30.4	29.7	29.0	28.4	28.1	28.1	28.5	
Mean	27.9	28.5	28.4	28.6	28.5	28.9	29.0	28.9	28.8	29.2	30.2	31.2	32.4	32.5	31.8	31.1	31.1	30.6	29.5	28.7	27.6	27.1	26.7	27.3	
Mean *	28.1	28.6	28.6	28.6	28.4	28.8	28.7	28.3	28.1	28.5	29.5	30.6	31.4	31.5	31.0	30.3	30.4	30.0	29.6	29.3	28.6	28.0	27.5	28.0	
Mean **	28.1	27.9	28.4	27.8	28.0	28.6	30.0	30.4	31.1	31.1	31.8	31.4	32.4	32.5	31.3	30.8	31.0	30.5	29.3	28.0	27.7	25.2	23.6	26.1	
February													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	28.9	29.2	29.1	29.4	29.6	29.1	28.9	28.3	27.6	27.3	28.2	29.5	31.4	32.0	31.5	30.9	31.0	30.5	29.9	29.2	28.9	28.4	27.9	27.5	
2	28.0	28.9	29.5	28.9	28.9	28.8	29.5	29.9	29.4	30.7	30.1	29.2	31.7	32.7	32.9	29.4	27.6	29.7	28.9	27.9	27.9	28.2	28.3	27.3	
3	28.4	29.0	30.0	30.0	28.9	28.5	28.5	28.0	27.9	28.1	28.3	29.4	30.5	31.0	30.8	30.0	29.5	28.5	28.4	28.5	27.7	27.6	27.9	28.4	
4	28.7	29.1	29.5	29.2	28.8	28.6	28.0	27.6	27.0	27.3	28.8	30.1	32.0	32.5	32.4	31.1	31.0	30.4	30.0	29.5	29.4	28.8	28.7	28.4	
5 **	27.0	28.0	28.7	28.0	27.5	30.2	29.0	30.6	32.0	30.8	30.6	33.0	35.9	35.5	33.8	31.1	30.8	27.1	15.7	29.0	29.0	28.2	28.5	28.0	
6 **	28.1	26.9	18.4	24.7	24.3	27.0	27.1	27.6	28.1	30.5	31.5	33.0	34.4	33.6	32.6	27.0	21.0	28.5	25.0	23.3	18.3	18.3	21.2	29.9	
7	29.6	30.4	29.6	27.4	28.3	28.5	29.1	28.0	27.7	28.3	29.5	28.6	29.4	30.0	28.0	27.0	27.6	28.6	28.6	28.2	28.0	27.7	27.4	27.7	
8 *	28.1	28.1	29.0	29.4	29.0	28.2	27.8	27.8	28.2	29.1	29.6	30.9	31.2	31.0	30.0	28.8	28.9	29.1	29.3	29.0	28.6	28.4	27.8	26.0	
9 *	27.7	28.2	28.3	28.3	28.1	28.1	28.0	28.0	28.3	29.4	30.4	31.9	31.4	31.2	30.4	29.4	29.6	29.1	29.1	29.0	28.5	28.4	28.4	28.8	
10	28.6	28.6	28.7	28.6	28.4	28.4	27.9	28.1	29.2	30.1	31.0	31.2	32.1	31.8	32.0	30.8	30.0	25.5	29.9	29.6	28.3	28.4	28.5	26.6	
11	26.2	26.9	26.5	27.3	26.7	26.6	28.0	27.8	29.0	29.7	30.6	31.9	33.4	32.7	31.4	30.3	31.4	30.6	30.4	29.5	26.5	23.6	25.5	27.6	
12 *	28.9	28.3	28.9	29.4	28.4	27.8	27.2	27.3	27.6	28.3	28.9	30.3	30.9	30.9	30.2	29.0	29.2	29.4	29.0	28.9	28.4	28.4	28.5	28.7	
13	28.4	28.4	32.3	30.5	27.9	28.2	27.6	27.0	27.4	28.2	29.7	30.9	32.0	31.5	31.5	29.9	29.3	28.9	28.8	28.5	28.5	28.4	28.5	28.6	
14	29.0	29.1	29.0	29.0	28.9	28.6	28.3	27.9	27.7	29.2	31.0	32.4	31.4	31.1	30.9	30.0	29.2	29.2	28.7	27.9	27.8	26.3	23.9	23.9	
15	22.5	25.3	27.3	26.8	26.2	27.0	29.3	26.4	27.7	27.2	28.9	31.5	32.9	32.2	30.8	29.8	28.9	28.2	26.1	25.8	27.4	27.4	27.2	27.0	
16	26.9	29.3	28.5	27.8	27.8	28.3	27.8	27.8	27.8	29.5	31.1	30.4	30.4	30.0	30.3	28.5	28.8	29.2	28.7	28.8	28.1	26.0	22.4	27.7	
17	27.9	28.2	27.4	23.1	24.2	25.3	27.2	27.5	28.7	29.8	30.4	32.0	32.8	32.1	30.9	28.8	27.8	28.7	28.7	28.4	27.5	27.1	27.8	28.3	
18 *	28.3	28.3	30.2	28.2	27.8	27.3	26.1	26.4	27.8	28.7	30.0	31.5	31.7	31.3	30.3	29.2	28.8	29.0	28.8	28.3	28.1	27.9	27.8	27.8	
19 *	27.8	28.3	28.3	28.4	28.4	28.4	27.8	27.7	27.4	27.8	29.5	31.1	31.9	32.2	30.4	29.3	29.3	29.7	29.8	29.4	28.8	28.4	27.3	26.9	
20	27.4	27.9	28.0	27.7	27.8	27.2	27.0	26.2	26.3	27.4	29.8	33.3	34.8	33.3	34.2	32.4	31.2	28.8	29.8	28.8	28.6	27.8	27.3	26.8	
21	23.8	26.1	23.9	22.5	20.7	23.7	26.3	26.2	27.3	27.8	28.8	29.8	31.4	33.8	33.4	30.5	29.0	28.4	27.8	28.4	28.1	27.8	26.3	26.2	
22	27.8	26.7	25.6	25.8	24.7	25.1	25.3	25.7	26.7	27.6	29.1	30.7	32.8	31.8	32.1	31.3	31.3	31.7	33.0	31.2	29.2	27.3	26.7	26.4	
23 **	22.0	22.7	24.1	24.7	24.3	24.8	25.6	26.5	27.1	27.9	28.4	29.2	30.4	35.1	40.1	41.6	42.3	32.3	32.6	32.3	20.7	20.7	16.9	23.7	
24 **	24.6	33.1	24.0	22.3	24.1	25.3	26.3	26.7	29.7	29.8	29.7	32.3	32.1	31.1	30.6	29.9	29.2	27.7	29.2	28.7	28.3	27.8	26.3	27.0	
25	29.3	29.0	23.9	23.6	24.4	24.7	25.7	26.5	26.2	26.4	26.8	28.1	29.2	29.3	29.2	28.8	28.8	28.0	28.7	28.8	19.0	26.2	25.4	18.2	
26	25.5	27.1	26.8	26.7	26.7	27.2	27.3	27.7	27.0	26.3	26.8	28.7	29.7	30.5	30.2	29.6	28.8	28.7	28.2	28.0	28.0	27.5	24.9	25.3	
27	25.7	26.3	26.5	26.7	25.1	24.7	25.6	26.2	26.1	26.7	28.3	30.1	31.6	31.7	31.1	31.7	31.9	33.3	31.7	30.3	26.7	24.1	24.4	22.9	
28 **	24.3	24.4	25.5	25.5	20.8	22.4	24.1	24.2	25.4	26.8	29.7	31.1	35.6	39.1	37.8	34.3	35.6	27.3	26.3	25.5	26.1	27.3	25.7	27.7	
Mean	27.1	27.9	27.4	27.1	26.7	27.1	27.4	27.3	27.8	28.5	29.5	30.8	32.0	32.2	31.8	30.4	29.9	29.1	28.6	28.6	27.2	26.9	26.3	26.8	
Mean *	28.2	28.2	28.9	28.7	28.3	28.0	27.4	27.4	27.9	28.7	29.7	31.1	31.4	31.3	30.3	29.1	29.2	29.3	29.2	28.9	28.5	28.3	28.0	27.6	
Mean **	25.2	27.0	24.1	25.0	24.2	25.9	26.4	27.1	28.5	29.2	30.0	31.7	33.7	34.9	35.0	32.8	31.8	28.6	25.8	27.8	24.6	24.5	23.7	27.3	

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
March	10° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 **	29.3	29.7	27.8	27.5	26.8	26.3	25.8	40.7	33.2	1.5	24.7	13.7	23.9	28.3	33.7	28.7	31.1	33.2	28.0	14.0	23.7	30.5	26.4	33.8	
2 **	33.2	16.7	15.9	23.2	26.1	28.3	27.1	24.7	23.4	23.3	25.3	25.7	25.1	25.3	26.1	25.3	23.7	24.7	23.9	25.6	27.7	28.2	29.2	29.8	
3 **	30.2	32.2	33.8	32.2	34.2	28.8	30.4	33.4	35.2	28.1	28.2	31.3	30.2	28.7	24.0	20.2	18.8	18.8	26.6	27.3	26.8	26.5	26.8	25.0	
4	27.5	26.7	26.0	26.3	26.4	25.2	26.1	27.2	29.1	29.1	30.2	32.0	32.0	32.4	32.0	31.3	30.4	21.3	26.9	28.0	25.8	25.8	25.8	25.8	
5 **	26.4	26.9	26.9	26.8	28.1	33.4	34.3	32.8	30.4	29.4	30.8	32.3	33.3	32.5	32.4	32.4	31.1	18.8	18.3	26.8	23.4	18.8	18.6	25.9	
6	26.8	30.8	28.2	30.9	31.4	27.2	28.7	30.1	29.2	29.2	31.0	30.8	32.4	32.4	30.9	26.5	27.8	27.1	27.5	27.3	27.2	27.1	26.8	26.2	
7	26.1	25.8	25.8	24.2	24.2	24.2	25.8	27.2	27.4	27.9	28.9	30.0	30.8	32.0	33.5	30.3	25.8	25.4	26.8	27.5	28.8	28.6	26.3	25.8	
8 **	24.9	19.3	23.8	27.9	23.4	23.5	26.9	27.4	26.3	25.2	26.8	28.3	29.9	30.8	31.6	31.2	29.5	27.3	26.6	28.1	23.1	22.1	23.4	24.1	
9	26.3	26.4	15.3	17.7	17.3	24.5	24.8	24.4	25.2	27.1	29.2	30.9	32.3	32.8	32.4	32.3	30.8	25.8	25.8	22.9	24.2	23.8	24.8	21.2	
10	24.7	26.1	25.9	25.2	24.7	25.8	26.8	26.3	25.9	26.2	28.7	31.9	31.8	32.8	32.8	31.8	31.3	30.1	28.8	29.8	29.3	28.4	27.7	26.5	
11	25.5	29.3	24.8	22.9	23.2	28.2	25.8	26.3	26.0	27.2	27.8	29.8	30.7	30.8	30.8	29.5	28.4	27.7	27.3	26.8	27.2	27.4	27.4	28.3	
12 *	27.4	27.9	27.2	26.0	25.9	26.2	26.2	26.0	25.8	26.4	28.1	30.1	31.5	31.8	31.3	30.2	29.2	28.8	28.3	28.1	28.2	28.3	27.8	24.8	
13	23.3	22.7	21.8	26.5	27.0	24.9	25.4	25.4	25.6	28.9	31.3	34.5	36.5	38.8	35.5	34.9	32.4	29.7	29.1	27.5	27.6	24.5	22.3	26.0	
14	26.8	28.4	27.4	25.9	26.9	26.9	27.5	32.9	38.9	30.5	29.3	32.8	32.2	31.1	32.9	28.5	27.8	27.3	26.4	26.3	26.8	26.4	27.1	29.7	
15	23.9	27.3	26.4	26.4	26.2	26.2	25.8	25.4	24.4	25.4	28.0	31.1	33.9	34.2	30.3	30.0	28.9	27.3	25.6	27.5	27.9	27.8	26.9	27.3	
16 *	28.9	27.5	27.0	27.3	27.0	27.2	27.0	27.0	25.1	24.7	27.5	30.8	32.3	32.2	31.3	29.3	28.4	27.6	27.9	24.9	25.5	26.6	27.0	27.5	
17	27.5	30.0	27.3	26.6	27.1	26.3	26.9	26.5	25.9	26.7	28.9	32.0	32.9	31.7	29.9	28.9	28.4	28.3	28.0	28.5	28.0	25.8	26.3	27.0	
18	26.8	27.2	26.9	26.9	26.5	26.4	26.5	25.9	26.6	29.6	31.1	31.9	32.9	34.5	33.3	33.9	33.7	30.5	28.5	25.9	23.9	22.4	24.4	25.2	
19	24.9	25.9	25.1	25.1	24.4	25.1	26.6	24.9	24.0	25.4	27.4	31.9	34.7	33.9	34.9	34.9	35.0	34.1	30.3	25.3	25.7	25.9	24.9	15.9	
20	18.1	22.4	23.7	24.9	20.7	24.4	25.1	24.3	24.3	25.9	27.9	30.6	32.1	33.0	32.5	30.9	29.3	28.5	27.4	26.9	26.8	27.4	27.4	27.4	
21	27.3	26.8	28.9	27.0	23.5	25.9	28.5	28.9	31.9	30.0	31.9	34.8	36.3	35.1	32.9	31.5	28.9	20.0	27.3	25.3	24.1	23.5	23.0	21.3	
22	21.8	27.1	27.3	25.8	24.6	27.8	24.6	24.0	22.3	23.3	27.1	29.9	33.5	34.9	33.9	32.8	31.0	28.5	23.5	24.9	26.7	26.3	25.2	26.9	
23	26.2	25.5	27.3	27.5	26.9	26.4	26.3	24.6	24.1	25.5	27.8	31.3	33.8	33.9	33.3	33.3	31.0	30.9	30.9	29.9	23.1	26.2	23.8	25.3	
24	25.6	25.6	25.4	25.0	27.3	26.2	25.9	24.6	23.5	24.3	26.9	29.9	31.7	32.3	33.1	30.3	29.1	28.5	27.5	27.3	27.8	27.9	27.3	26.4	
25 *	27.9	26.4	25.8	25.9	25.8	26.4	26.3	24.6	23.5	23.9	27.0	30.6	33.0	33.0	32.4	30.9	28.5	27.5	27.4	27.2	27.4	27.6	27.4	27.4	
26	27.3	27.0	26.9	26.4	26.2	26.8	25.9	24.2	22.0	22.8	28.2	30.5	36.9	39.2	38.5	36.4	35.9	31.9	30.9	29.9	28.9	28.4	27.8	27.5	
27 *	26.5	26.7	26.5	30.6	26.7	25.9	24.9	23.2	21.9	23.1	26.5	29.9	32.8	33.9	32.8	30.7	28.9	28.3	28.3	26.8	24.7	24.4	25.9	28.0	
28 *	28.3	27.9	26.4	26.3	26.5	26.9	26.4	24.5	23.4	23.0	25.0	28.3	32.4	32.4	32.2	30.8	29.9	28.9	28.3	28.2	28.5	28.1	27.9	27.4	
29	27.3	27.0	26.4	26.9	28.7	25.7	24.9	24.8	23.5	24.1	26.8	30.4	33.8	35.5	36.3	31.9	29.9	28.4	28.0	27.8	25.0	25.8	26.8	26.7	
30	26.5	27.1	26.9	27.3	26.3	26.5	26.5	25.0	23.0	23.3	24.7	28.0	31.4	34.9	33.9	31.8	31.7	24.9	24.9	25.4	27.0	26.3	25.3	27.0	
31	27.3	27.0	26.8	26.7	26.9	27.6	25.6	24.5	23.5	23.9	25.5	29.3	33.9	35.2	33.6	31.0	29.2	27.9	27.4	26.7	24.1	25.4	26.9	27.4	
Mean	26.5	26.6	25.9	26.3	26.0	26.5	26.6	26.8	26.3	25.3	28.0	30.2	32.3	32.9	32.4	30.7	29.5	27.4	27.2	26.6	26.3	26.2	26.0	26.3	
Mean *	27.8	27.3	26.6	27.2	26.4	26.5	26.2	25.1	23.9	24.2	26.8	29.9	32.4	32.7	32.0	30.4	29.0	28.2	28.0	27.0	26.9	27.0	27.2	27.0	
Mean **	28.8	25.0	25.6	27.5	27.7	28.1	28.9	31.8	29.7	21.5	27.2	26.3	28.5	29.1	29.6	27.6	26.8	24.6	24.7	24.4	24.9	25.2	24.9	27.7	
April	10° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	26.3	26.5	25.6	24.9	26.7	26.8	24.6	23.3	22.7	23.4	25.7	29.2	32.7	34.4	30.5	29.9	29.4	27.5	26.9	26.9	24.6	26.5	27.0	27.4	
2	27.0	28.0	27.1	27.3	27.0	26.3	25.9	25.7	27.4	29.4	30.9	32.9	33.9	38.8	36.4	35.7	30.2	31.1	26.9	21.0	23.1	18.7	22.2	25.2	
3 **	25.5	25.4	27.0	26.4	33.3	32.5	31.8	32.1	28.6	27.9	28.4	30.7	31.9	35.0	31.4	29.6	28.4	27.1	26.1	27.0	26.5	22.5	17.4	23.6	
4 **	24.3	24.2	22.3	21.8	24.3	22.8	28.8	34.9	25.3	25.7	28.0	31.3	37.9	39.3	39.7	38.4	32.3	24.7	14.6	14.8	24.7	21.2	21.6	26.3	
5	25.3	26.2	25.8	27.1	27.8	25.3	23.7	22.7	21.9	23.0	24.8	27.3	30.3	31.6	31.3	30.3	28.3	25.7	25.9	25.4	25.7	25.9	26.3	25.7	
6	24.3	24.3	24.3	26.2	26.8	25.9	25.8	24.2	22.9	23.4	25.8	28.4	31.1	32.7	32.3	30.8	28.8	27.3	26.3	26.3	25.6	25.0	24.8	24.6	
7 *	24.7	25.0	24.7	24.7	24.7	25.4	25.3	24.2	22.7	22.2	23.8	26.9	30.3	32.3	31.6	30.3	28.8	27.8	27.4	27.3	27.1	26.5	24.7	23.3	
8	23.3	26.0	22.6	13.9	18.8	23.3	23.4	26.3	30.1	27.4	25.5	28.1	31.7	35.2	35.5	34.3	31.3	26.3	19.5	21.3	24.0	25.6	26.3	25.7	
9	25.5	24.3	24.9	24.3	24.8	25.3	24.8	24.8	23.9	23.9	25.8	27.6	30.5	32.1	31.4	28.3	27.8	28.3	27.7	27.2	25.7	23.3	24.7	26.2	
10	26.2	25.8	25.3	25.2	25.0	24.4	23.2	22.3	22.3	23.3	25.4	28.3	31.3	32.7	32.0	30.6	29.3	28.3	27.8	27.6	27.4	27.3	24.3	19.0	
11 **	19.1	16.8	19.0	14.5	16.9	23.0	20.5	21.4	26.4	30.8	30.5	31.8	36.2	34.4	33.9	31.2	28.5	27.6	25.4	26.6	26.2	23.9	26.3	26.0	
12	25.9	26.3	25.5	25.4	25.0	24.4	22.8	20.5	20.0	21.8	25.6	29.4	32.5	33.4	33.2	31.8	28.8	27.1	26.0	24.9	24.5	25.8	26.6	26.7	
13	27.4	26.4	25.4	25.1	25.1	24.9	24.2	21.9	20.4	21.9	25.5	29.9	33.2	38.0	37.6	33.9	30.0	27.6	22.1	24.7	19.9	21.4	20.8	19.4	
14	17.4	22.0	23.9	22.9	23.1	25.9	23.4	19.5	19.4	20.7	24.4	28.1	31.3	32.5	31.8	30.7	29.1	28.3	26.8	26.4	26.3	26.2	25.9	26.0	
15	25.9	25.6	25.4	24.9	24.7	24.5	23.4	22.4	21.5	21.9	24.2	28.3	30.9	32.3	31.9	30.5	28.8	27.4	26.3	25.4	25.4	25.8	26.3	26.0	
16	26.3	25.8	25.9	26.4	22.3	22.8	22.7	21.0	23.5	26.0	26.0	29.5	33.6	34.4	32.4	30.3	29.2	27.9	25.5	25.5	24.8	19.3	18.0	16.9	
17 **	14.5	4.4	17.2	19.3	15.8	18.4	22.3	24.5	23.2	25.5	29.2	31.4	31.9	35.4	37.5	33.0	32.2	31.0	30.4	28.4	26.4	25.5	23.0	21.4	
18 **	24.0	22.9	25.4	26.4	25.4	25.4	25.9	26.5	24.1	23.0	26.8	32.4	35.0	35.4	34.0	33.9	30.3	28.8	20.1	26.5	24.9	25.1	28.8	25.9	
19	22.8	21.4	24.1	23.6	24.2	23.5	23.7	22.1	21.2	21.8	24.6	28.5	32.6	33.4	32.1	30.7	29.2	27.8	26.4	23.0	23.4	24.9	25.7	25.9	
20	25.9	24.2	28.0	25.4	25.5	24.8	23.4	22.1	20.9	21.3	24.5	29.4	33.4	35.4	33.0	32.5	29.1	26.4	26.5	25.0	25.2	25.4	25.0	25.1	
21 *	25.5	26.0	26.7	25.4	24.4	23.9	22.8	21.9	21.6	22.4	24.5	27.5	30.4	31.9	31.4	30.0	28.3	27.4	26.9	25.7	25.4	25.4	25.8	25.8	
22 *	25.4	25.7	26.5	24.9	24.4	24.0	23.4	22.4	21.1	21.9	25.0	27.4	30.0	32.5	32.8	31.4	29.6	28.0	27.1	27.3	26.8	26.8	26.4	26.0	
23	25.7	25.5	25.4	24.5	24.1	23.3	22.5	20.6	19.8	21.5	26.4	29.9	35.4	33.4	34.8	34.4	30.7	23.0	20.4	20.6	25.0	26.3	27.1	23.9	
24	30.0	29.2	29.4	25.5	25.3	24.4	23.4	21.9	22.1	24.0	26.8	29.0	31.0	32.2	30.8	28.7	27.0	25.8	25.5	25.2	26.0	26.7	25.8	26.0	
25 *	25.9	25.4	24.6	24.1	23.4	22.3	20.8	20.4	20.9	22.4	24.3	27.6	30.3	30.8	29.8	28.1	26.4	25.6	25.4	26.4	26.7	26.5	26.4	25.9	
26 *	25.5	25.4	24.5	24.0	23.1	21.4	20.5	20.8	21.3	22.2	25.1	27.7	29.9	30.7	29.4	27.8	27.1	26.5	26.5	26.4	26.8	26.5	26.5	25.8	
27	25.9	25.5	24.7	24.1	23.5	22.5	22.0	21.8	22.2	23.9	27.0	29.8	30.4	29.9	30.4	29.5	29.6	30.1	27.3	21.8	24.0	24.0	26.4	26.4	
28	15.4	18.1	22.8	22.4	21.9	19.4	19.2	19.8	21.7	24.8	28.2	30.4	32.0	32.4	29.6	27.3	27.3	26.6	26.4	26.4	26.4	26.1	23.7	24.4	
29	25.3	26.1	25.9	25.4	23.7	22.7	22.2	22.4	22.4	23.0	26.0	29.0	30.7	30.8	29.5	28.4	27.3	26.6	26.5	26.5	26.4	26.4	24.5	23.5	
30	23.4	24.3	24.0	23.8	23.4	22.6	22.4	22.4	22.4	22.8	25.4	29.8	34.5	34.9	34.9	31.6	29.8	28.6	25.0	25.8	26.3	26.9	26.8	25.6	
Mean	24.3	24.1	24.8	24.0	24.1	24.1	23.6	23.2	22.8	23.8	26.1	29.3	32.2	33.6	32.8	31.1	29.1	27.4	25.4	25.1	25.4	24.9	24.8	24.7	
Mean *	25.4	25.5	25.4	24.6	24.0	23.4	22.6	21.9	21.5	22.2	24.5	27.4	30.2	31.6	31.0	29.5	28.0	27.1	26.7	26.6	26.6	26.3	26.0	25.4	
Mean **	21.5	18.7	22.2	21.7	23.1	24.4	25.9	27.9	25.5	26.6	28.6	31.5	34.6	35.9	35.3	33.2	30.3	27.8	23.3	24.7	25.7	23.6	23.4	24.6	

* International Quiet Day. ** International Disturbed Day.

MAGNETIC OBSERVATIONS, ABINGER 1942.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	10° + Tabular Quantities																								
1	24.9	23.8	22.4	20.5	20.0	20.2	20.8	21.4	23.4	22.8	25.7	29.5	31.5	31.9	31.5	30.0	28.8	27.8	26.7	26.4	25.9	25.4	25.3	25.0	
2	25.0	24.5	24.4	24.5	24.1	22.4	23.7	24.0	23.6	24.8	27.9	32.6	33.9	35.0	34.2	32.4	33.2	30.8	28.4	27.0	24.9	24.4	23.7	22.0	
3	23.4	21.9	22.9	23.2	23.4	23.4	22.6	20.9	20.7	21.9	24.4	26.7	28.2	29.0	29.1	28.8	28.4	27.9	27.4	26.4	25.7	25.1	24.7	22.2	
4 **	23.4	23.6	24.2	23.3	23.0	23.1	22.0	21.0	21.4	21.9	24.7	27.7	29.8	31.6	33.4	34.8	33.5	32.1	26.4	26.4	20.7	16.0	14.2	14.8	
5 **	13.0	15.4	12.0	13.6	14.8	17.4	20.9	22.6	24.0	25.8	28.7	30.2	30.4	31.1	29.8	28.9	28.4	27.3	26.1	25.0	25.1	23.8	21.7	21.7	
6	18.8	18.8	19.4	19.8	21.8	23.2	22.4	21.4	21.7	23.3	25.8	28.0	29.4	30.2	30.5	30.4	29.2	27.5	26.8	26.7	26.4	26.4	26.0	25.7	
7	25.3	24.9	24.8	24.0	23.4	23.4	23.4	23.4	22.5	23.1	25.5	27.4	28.4	28.4	28.4	28.2	27.8	27.4	27.4	26.8	26.8	26.4	26.4	25.6	
8	24.8	24.6	24.1	24.9	25.0	24.0	23.1	22.7	22.5	23.4	25.5	28.5	31.5	32.7	32.3	31.4	30.4	29.9	27.8	27.1	27.1	26.9	26.0	25.4	
9 *	24.9	24.7	24.4	24.0	23.4	23.0	22.9	21.7	20.7	21.5	24.0	26.6	29.0	29.9	29.4	28.5	27.7	27.2	26.7	26.4	25.9	25.8	25.5	25.7	
10	25.8	26.0	25.4	24.4	22.9	22.4	22.4	22.5	24.1	25.4	27.5	29.9	31.1	31.6	30.6	29.4	28.4	27.4	26.8	26.4	26.4	26.8	26.5	26.4	
11	23.4	23.8	24.4	24.4	23.4	22.0	22.4	22.5	23.9	25.4	27.5	29.4	30.8	30.4	29.8	29.4	28.4	27.4	26.4	25.8	25.4	25.4	25.9	26.0	
12 *	25.8	25.5	25.4	24.9	24.4	22.1	21.4	20.8	20.9	21.4	24.9	28.4	30.1	30.1	29.4	28.0	27.2	25.9	25.1	25.5	25.8	26.0	25.4	25.4	
13 *	24.3	24.4	24.7	23.6	23.0	22.1	21.9	21.6	22.3	23.2	25.9	28.8	30.8	31.3	30.4	29.3	27.5	26.3	25.3	25.6	25.3	25.9	26.2	26.3	
14 **	24.9	24.3	23.9	22.5	20.0	21.9	25.7	25.3	24.3	25.3	24.7	27.3	29.7	31.0	31.6	30.9	29.3	28.1	27.3	26.7	25.7	24.8	24.7	24.5	
15	24.3	24.1	24.0	24.3	25.9	24.3	22.9	21.9	21.9	22.9	26.7	30.2	32.3	33.3	33.3	31.3	29.4	28.2	27.1	25.5	21.7	22.8	23.9	22.6	
16	23.8	24.0	24.1	23.3	23.3	22.4	21.3	20.3	20.7	22.1	25.0	27.9	29.8	29.8	29.3	29.3	29.3	28.7	27.7	23.0	22.8	24.5	24.4	24.6	
17	24.2	26.2	24.5	25.2	23.8	22.2	21.2	20.2	20.3	22.2	24.6	28.3	31.2	31.8	31.8	30.9	30.2	29.2	26.6	24.4	24.2	24.8	25.2	24.3	
18	24.2	25.2	23.3	23.2	21.9	21.8	21.2	20.8	21.3	22.7	26.1	28.2	31.0	32.1	31.8	31.3	30.4	29.2	27.6	26.8	25.7	23.7	24.8	23.9	
19	24.6	24.2	24.2	23.2	23.7	22.5	22.1	22.2	21.9	22.2	24.3	27.8	30.6	31.6	31.2	30.6	28.8	27.2	26.0	24.9	25.2	25.2	24.6	24.4	
20	24.6	24.4	24.2	23.7	22.7	20.8	19.3	18.7	18.8	18.7	21.5	24.2	26.7	29.1	31.4	33.3	32.9	31.2	28.3	26.8	26.8	25.1	23.7	22.2	
21	23.9	26.0	29.2	24.2	22.7	22.2	21.9	21.8	21.0	21.8	24.4	28.1	30.2	31.1	31.6	30.2	29.2	28.3	27.8	27.2	25.9	25.9	23.6	24.2	
22	24.7	25.2	25.1	23.5	23.2	22.2	20.1	22.8	25.2	21.9	23.9	26.8	28.4	29.8	30.7	29.9	29.2	30.0	26.2	21.6	18.2	22.6	24.5	23.8	
23	25.5	24.3	24.2	23.7	24.2	22.7	22.1	20.8	20.7	21.8	22.6	24.2	26.5	27.8	28.8	28.8	28.2	27.7	27.2	26.3	26.1	23.7	22.8	23.9	
24	24.6	24.2	24.4	23.5	23.5	20.4	19.6	18.7	19.2	20.1	22.2	25.2	28.6	29.8	30.2	29.4	27.7	26.2	25.2	25.0	23.8	24.6	24.2	25.0	
25	23.1	24.4	24.2	23.7	22.9	21.6	21.2	21.5	22.2	24.4	27.6	28.6	29.6	30.1	29.2	28.4	27.4	26.7	26.2	26.2	26.2	26.3	26.3	26.2	
26 *	25.5	24.8	24.3	23.7	23.1	22.0	21.1	20.2	20.7	22.2	26.1	29.4	31.2	30.6	28.7	27.6	26.8	26.6	26.7	26.7	26.5	26.3	26.2	25.6	
27 **	25.8	25.5	24.7	24.2	23.2	20.7	19.7	19.7	20.2	22.0	27.6	32.3	34.3	35.8	34.6	34.7	33.3	27.9	25.3	21.3	22.2	21.9	19.6	23.3	
28 **	22.8	23.4	22.1	21.8	22.3	26.2	26.2	26.2	24.5	24.5	28.1	29.9	31.8	31.8	30.7	28.4	27.7	27.2	26.6	25.7	23.3	25.5	24.7	23.6	
29	24.7	23.8	24.2	23.2	23.0	22.6	21.2	20.7	21.9	23.6	25.9	28.8	29.8	29.2	28.5	27.3	26.2	25.7	24.6	24.9	25.3	25.2	25.2	25.1	
30	24.8	24.2	24.2	20.8	20.2	19.4	19.0	19.1	19.6	22.2	24.8	27.8	29.2	29.3	29.1	27.6	26.2	25.2	24.7	25.0	21.9	23.3	24.1	23.8	
31 *	23.7	23.4	23.8	23.7	22.7	21.2	20.7	20.6	21.2	23.2	25.8	29.1	31.2	32.3	31.6	30.4	28.5	27.8	26.7	26.2	25.5	24.5	25.1	25.2	
Mean	24.0	24.0	23.8	23.1	22.7	22.1	21.8	21.5	21.8	22.8	25.5	28.3	30.2	31.0	30.7	30.0	29.0	27.9	26.6	25.7	24.8	24.7	24.4	24.1	
Mean *	24.8	24.6	24.5	24.0	23.3	22.1	21.6	21.0	21.2	22.3	25.3	28.5	30.5	30.8	29.9	28.8	27.5	26.8	26.1	26.1	25.8	25.7	25.7	25.6	
Mean **	22.0	22.4	21.4	21.1	20.7	21.9	22.9	23.0	22.9	23.9	26.8	29.5	31.2	32.3	32.0	31.5	30.4	28.5	26.3	25.0	23.4	22.4	21.0	21.6	
June	10° + Tabular Quantities																								
1	26.4	24.8	24.1	22.7	21.3	19.5	19.6	20.0	20.0	21.9	25.8	29.7	31.7	32.2	31.5	30.8	29.8	28.4	27.5	27.2	25.2	25.2	25.3	24.9	
2 *	24.3	24.7	24.3	23.8	22.9	21.0	20.8	20.7	21.1	23.2	26.2	28.6	29.8	31.6	31.8	31.3	30.3	29.3	28.0	26.8	26.3	26.1	25.3	24.8	
3	25.1	25.0	23.9	23.7	22.4	20.8	20.8	21.3	22.7	24.7	26.8	28.5	30.6	32.4	33.2	34.0	31.5	28.1	27.7	27.3	26.3	24.3	22.3	24.3	
4	24.3	24.4	23.5	23.4	23.2	22.3	22.0	21.2	21.0	21.9	24.4	26.4	28.4	29.9	29.8	28.5	27.7	28.2	27.7	25.8	26.3	26.4	25.7	24.3	
5	23.8	22.3	22.3	22.3	20.8	19.3	20.2	21.0	22.3	23.4	25.3	27.3	28.8	30.4	31.4	30.8	30.1	28.9	28.1	27.8	27.1	26.9	26.6	25.8	
6	25.6	24.3	23.3	23.7	23.0	22.6	22.4	21.3	21.8	24.7	27.1	29.4	30.0	30.6	30.6	29.3	27.6	27.0	27.2	27.1	26.6	26.1	25.6	25.0	
7 *	24.6	23.6	23.0	23.2	22.6	22.0	22.9	22.1	21.2	21.5	23.6	26.7	28.2	28.5	28.2	27.7	26.9	26.6	26.1	25.7	25.6	25.6	25.6	25.1	
8	24.5	24.6	26.6	23.6	22.2	20.6	20.7	20.9	21.6	24.0	27.1	29.2	30.4	30.1	29.1	28.2	27.3	26.1	25.7	25.8	25.6	26.0	25.6	25.2	
9 *	25.1	24.7	24.2	23.4	22.5	20.7	20.6	21.6	23.6	25.3	27.4	29.9	31.0	30.6	29.6	28.6	27.6	27.6	27.6	27.3	26.8	26.2	25.6	25.6	
10 *	24.6	24.6	24.5	24.4	23.1	22.0	20.6	20.2	21.0	23.5	27.3	30.6	32.8	32.6	31.9	30.2	27.9	26.6	25.6	26.1	26.2	26.6	26.7	26.1	
11 **	25.1	24.6	24.6	23.1	20.8	18.9	17.3	18.6	16.6	19.7	25.0	29.5	33.5	35.5	36.2	34.7	33.6	31.6	27.4	22.6	18.8	23.2	21.9	19.5	
12	21.0	22.5	19.6	20.6	21.7	21.9	21.2	21.6	20.8	24.0	27.6	28.4	30.1	32.5	32.7	31.3	27.6	26.6	26.6	26.6	26.0	25.1	25.4	24.2	
13 **	24.9	27.5	25.3	19.8	21.0	21.1	21.1	21.3	22.6	23.7	27.1	29.1	30.4	30.6	30.6	29.6	27.2	26.5	27.6	25.1	20.3	24.0	25.6	22.2	
14	19.2	21.7	20.6	20.8	21.1	22.2	22.2	21.4	20.7	23.2	26.4	29.9	32.3	30.8	30.0	30.0	27.0	26.6	25.8	23.0	24.5	24.6	23.6	24.6	
15	25.0	25.6	25.1	24.6	21.6	19.6	18.5	18.6	18.6	20.0	23.3	26.3	28.5	29.0	29.5	29.6	27.7	26.6	24.9	24.3	24.6	24.6	24.3	24.4	
16	25.6	25.0	23.6	22.6	22.1	20.9	20.1	19.0	20.1	21.7	25.6	28.3	30.0	31.3	31.1	30.1	28.6	27.9	27.4	23.6	24.1	25.4	25.4	24.6	
17	25.3	24.8	24.6	24.0	22.6	21.0	19.7	20.5	22.6	25.2	27.8	28.9	31.1	30.9	29.6	28.6	28.2	27.2	27.0	26.5	25.6	26.2	25.7	25.9	
18	26.8	24.9	20.6	20.6	20.1	20.6	20.6	20.3	20.7	23.1	25.2	27.2	28.7	30.1	30.0	29.6	28.3	28.2	27.2	26.6	26.2	25.9	25.6	25.0	
19 **	25.6	24.0	22.4	21.9	20.6	18.8	18.2	19.1	19.7	20.6	22.9	26.6	30.4	32.0	33.5	33.7	30.6	25.6	26.6	26.4	26.0	22.6	22.7	23.6	
20	23.7	23.1	24.6	24.6	24.6	21.9	20.0	19.5	21.6	22.6	24.0	26.3	28.7	29.1	28.9	29.0	27.6	27.0	26.7	26.2	24.7	24.6	24.6	24.7	
21	24.2	24.6	22.2	22.2	23.3	24.8	22.2	20.8	20.6	21.6	23.3	25.2	27.6	29.1	29.2	28.9	28.6	27.9	27.0	26.1	25.9	25.7	25.8	24.9	
22 *	24.2	23.4	23.0	23.0	21.6	20.6	20.1	20.6	20.6	20.7	22.9	25.2	26.6	28.1	28.5	28.6	28.2	28.3	27.7	27.1	25.9	25.6	25.6	24.2	
23	23.9	23.1	22.5	21.6	20.6	19.3	19.6	20.0	19.0	20.5	22.4	24.1	26.2	27.7	28.4	29.6	30.7	31.6	30.1	28.0	26.1	25.5	25.0	24.7	
24	24.2	20.6	19.3	17.6	20.0	19.7	20.1	20.7	23.3	23.8	26.1	28.8	30.2	31.3	31.8	30.2	29.1	27.7	26.8	26.7	26.4	25.8	25.2	23.2	
25	20.0	18.1	18.1	19.0	17.7	17.5	19.2	19.3	20.1	22.3	25.4	27.3	29.0	30.4	29.9	28.9	27.4	27.1	26.4	25.7	24.7	25.3	24.7	24.3	
26	24.2	24.1	24.1	23.1	22.8	20.8	19.7	19.7	20.4	21.6	24.8	28.9	31.7	33.3	32.3	30.1	28.3	26.7	25.7	25.7	24.3	22.5	24.1	24.7	
27	24.2	23.0	21.8	21.7	22.3	20.7	19.1	19.5	21.7	23.4	24.8	26.7	28.7	29.7	29.7	28.3	26.7	26.7	26.3	26.4	25.9	25.6	24.7	24.7	
28	24.5	24.5	24.6	24.2	23.5	22.0	20.9	21.3	23.1	24.0	25.8	29.2	31.8	33.2	34.2	32.7	31.8	28.7	28.1	27.0	26.8	25.7	24.7	22.9	
29 **	25.0	19.7	18.0	19.2	18.7	19.3	18.8	20.4	21.3	23.3	26.6	30.6	32.7	34.1	32.9	32.6	31.7	31.0	27.3	27.3	26.5	26.1	25.1	23.1	
30 **	24.3	21.7	19.7	18.7	24.4	25.8	22.9	20.8	19.2	21.7	25.1	27.6	29.4	30.8	32.2	31.1	28.7	28.8	26.7	24.7	25.7	25.3	23.1	22.7	
Mean	24.3	23.7	22.8	22.2	21.8	20.9	20.4	20.4	21.0	22.7	25.4	28.0	30.0	30.9	30.9	30.2	28.8	27.8	27.0	26.1	25.4	25.3	24.9	24.3	
Mean *	24.6	24.2	23.8	23.6	22.5	21.3	21.0	21.0	21.5	22.8	25.5	28.2	29.7	30.3	30.0	29.3	28.2	27.7	27.0	26.6	26.2	26.0	25.8	25.2	
Mean **	25.0	23.5	22.0	20.5	21.1	20.8	19.7	20.0	19.9	21.8	25.3	28.7	31.3	32.6	33.1	32.3	30.4	28.7	27.1	25.2	23.5	24.2	23.7	22.2	

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
July													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	22.8	21.7	22.8	23.1	23.8	24.3	27.4	28.2	24.2	22.7	24.0	26.8	27.6	30.2	31.2	30.0	28.3	28.2	26.7	25.0	25.1	24.1	24.7	23.9	
2 *	23.3	23.7	23.2	23.0	23.7	22.3	21.7	20.9	21.6	21.2	22.6	25.4	28.1	29.1	28.8	28.7	27.8	28.0	27.7	25.8	23.2	23.7	23.3	24.1	
3 *	23.7	23.6	24.7	22.9	22.3	21.4	21.8	22.6	22.1	22.0	23.9	25.7	26.8	29.7	30.9	29.9	28.5	27.0	26.1	25.7	25.6	25.0	24.6	24.7	
4 *	24.6	24.4	24.6	23.2	22.9	21.8	21.5	21.7	21.0	22.3	24.2	26.0	27.1	27.7	27.9	27.4	26.7	25.3	24.8	24.7	24.8	25.2	24.4	24.2	
5 *	23.8	23.8	23.5	23.2	22.2	21.0	21.0	21.1	22.1	24.5	26.5	28.9	30.2	31.4	30.3	29.2	28.7	28.2	27.6	26.8	26.6	24.7	25.6	25.6	
6	24.8	22.6	22.2	21.7	20.8	20.3	20.5	20.7	21.9	22.6	23.6	25.5	27.6	29.6	30.0	29.5	28.3	27.0	26.6	27.1	26.6	26.1	26.2	22.6	
7	20.0	21.4	21.8	21.6	21.1	20.0	19.6	20.6	20.9	21.8	24.4	26.8	29.0	30.2	30.0	28.7	27.6	27.6	27.8	27.6	27.2	26.5	24.6	22.2	
8 **	22.7	20.9	18.3	19.2	18.0	16.5	21.5	22.3	23.5	24.5	28.2	28.3	31.8	33.7	33.4	30.6	29.5	27.6	26.6	24.7	22.8	22.0	23.1	24.8	
9	24.3	23.6	22.6	22.5	20.3	19.7	19.7	21.0	21.3	21.6	22.4	24.7	27.6	29.4	29.8	27.9	27.3	24.7	25.8	26.7	26.2	24.7	22.8	21.8	
10	20.8	22.4	22.7	22.6	24.7	22.8	22.1	20.8	21.3	23.3	25.5	27.8	29.9	29.9	29.8	28.7	27.7	27.1	25.7	24.7	24.7	23.1	24.2	25.4	
11 **	24.3	18.3	17.3	22.7	21.7	25.7	29.7	32.7	26.1	28.3	27.1	28.8	33.1	35.1	33.6	32.4	31.8	30.4	29.7	24.8	23.6	22.7	25.4	24.9	
12	24.3	22.7	22.3	21.8	22.3	20.3	20.2	20.6	19.7	22.1	26.7	29.6	29.3	30.2	30.2	28.7	27.6	26.7	25.7	25.7	25.2	25.6	24.7	22.8	
13	24.3	20.3	21.1	22.1	21.3	20.6	22.2	22.7	23.7	24.1	26.7	28.5	28.7	28.7	28.1	27.7	26.1	25.2	25.2	24.8	24.7	23.6	23.7	23.0	
14	24.3	24.7	25.4	24.3	22.7	22.8	21.8	20.2	21.7	23.5	24.7	28.0	29.6	29.7	30.4	28.7	26.7	26.6	26.1	25.7	22.0	23.4	24.2	23.7	
15 **	21.2	22.3	22.5	24.7	23.8	23.7	21.4	21.1	21.4	23.2	24.2	27.0	28.6	28.9	28.1	27.5	28.7	21.4	25.1	24.8	21.4	18.0	22.6	25.3	
16	23.0	18.0	22.1	22.7	22.7	22.2	20.3	19.5	20.6	21.9	26.6	28.7	30.9	31.3	30.8	30.1	29.4	27.1	24.8	24.1	23.6	21.0	21.9	21.2	
17	22.5	23.6	21.6	20.6	22.6	25.2	21.6	21.1	20.6	22.6	25.2	25.6	25.9	26.6	27.6	28.1	27.2	25.3	25.1	25.4	24.8	24.7	24.3	24.2	
18	23.0	23.6	23.5	22.2	21.1	20.1	19.1	20.2	21.3	22.4	24.7	26.5	28.0	29.6	29.7	29.6	28.4	26.8	25.3	25.6	25.6	25.6	25.0	24.6	
19 *	24.2	23.3	23.5	22.6	21.3	19.7	19.0	19.5	19.6	20.6	22.8	25.8	28.3	29.6	30.6	29.1	28.5	27.8	26.8	26.1	25.9	25.6	24.7	23.4	
20 **	21.6	22.7	22.6	21.5	20.2	17.0	14.6	18.6	20.2	21.6	24.9	29.3	30.7	31.6	32.3	29.4	27.6	27.2	26.2	26.2	23.3	22.1	22.4	22.1	
21	26.9	24.1	17.5	19.6	18.5	21.6	19.2	19.6	20.5	21.7	23.6	25.0	27.0	29.1	30.6	30.0	28.2	27.2	26.6	25.1	22.9	23.7	22.2	23.6	
22	22.9	23.6	22.7	21.6	20.6	20.1	19.8	20.5	20.7	21.4	23.4	25.7	27.8	28.1	28.3	27.7	26.6	25.8	25.6	25.6	25.2	24.2	23.8	22.4	
23	24.3	21.0	21.5	22.0	21.0	20.1	21.0	22.0	21.3	21.6	23.7	25.5	27.8	29.6	29.6	30.8	30.2	28.6	23.9	26.3	24.7	24.7	23.9	23.6	
24	23.2	22.6	21.6	23.6	25.6	22.6	21.7	20.6	20.2	20.0	21.2	24.6	27.7	29.3	29.6	29.5	26.6	26.4	26.3	20.6	21.6	20.8	20.4	19.6	
25	20.3	21.0	23.6	26.3	26.5	23.7	22.6	24.1	22.6	22.0	23.7	28.1	30.0	31.6	29.1	30.3	28.6	27.2	26.1	20.6	19.6	22.5	23.3	22.5	
26	19.6	21.9	22.5	22.6	21.6	21.6	20.6	20.6	20.6	21.7	24.7	27.6	30.6	30.4	30.5	29.1	27.8	27.6	27.6	27.2	26.6	22.1	16.6	16.0	
27 **	15.1	13.7	20.2	23.9	24.6	24.0	20.9	20.7	20.6	22.1	25.7	29.6	29.0	29.1	29.9	29.7	28.6	26.1	21.6	25.2	23.2	23.8	26.2	23.7	
28	21.1	21.5	22.8	22.3	21.1	24.0	22.9	20.6	20.8	22.6	26.1	28.1	29.5	29.6	29.2	28.3	27.6	26.6	25.1	23.9	20.4	22.1	23.0	22.6	
29	27.9	24.6	23.6	23.1	21.6	22.4	22.2	20.6	20.2	21.6	23.3	26.3	28.0	30.1	29.0	27.6	25.8	24.8	24.6	24.4	24.1	23.9	23.7	23.6	
30	24.5	21.4	22.6	25.1	21.7	19.7	19.6	20.2	21.6	22.3	24.1	26.9	30.0	31.3	30.6	29.5	27.8	26.6	23.6	24.2	23.6	23.1	22.5	20.4	
31	21.4	26.6	22.0	21.1	21.1	21.6	20.5	19.6	19.3	19.6	21.5	24.6	27.7	29.2	29.1	28.0	27.0	26.0	25.6	25.2	24.2	24.8	24.6	24.6	
Mean	22.9	22.2	22.2	22.6	22.0	21.6	21.2	21.5	21.4	22.4	24.5	27.0	28.8	30.0	30.0	29.1	28.0	26.7	25.9	25.2	24.2	23.6	23.6	23.1	
Mean *	23.9	23.8	23.9	23.0	22.5	21.2	21.0	21.2	21.3	22.1	24.0	26.4	28.1	29.5	29.7	28.9	28.0	27.3	26.6	25.8	25.2	24.8	24.5	24.4	
Mean **	21.0	19.6	20.2	22.4	21.7	21.4	21.6	23.1	22.4	23.9	26.0	28.6	30.6	31.7	31.5	29.9	29.2	26.5	25.8	25.1	22.9	21.7	23.9	24.2	
August													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	22.7	21.7	20.8	20.2	21.2	21.0	21.6	21.6	21.6	21.6	22.9	25.8	27.1	28.1	27.6	27.0	26.6	25.7	25.3	24.6	23.0	22.9	22.7	23.2	
2	23.6	23.2	22.6	22.3	21.2	20.6	19.6	18.0	18.9	20.6	23.4	26.1	28.6	30.2	31.0	29.6	28.2	27.2	26.0	25.6	23.6	24.6	23.5	24.0	
3	21.7	20.0	19.4	20.7	20.7	21.0	21.8	20.0	20.1	21.7	23.1	25.7	28.7	30.4	30.1	28.5	25.6	25.5	25.2	24.0	24.0	23.3	24.5	23.5	
4 *	22.0	21.6	22.1	23.0	23.2	21.6	21.6	21.1	21.0	22.1	23.7	25.6	27.0	27.7	28.1	27.9	26.6	26.0	25.3	23.8	23.9	24.4	23.4	22.6	
5	22.1	23.6	22.5	21.8	21.6	21.7	20.8	20.0	20.0	20.6	22.4	25.6	28.9	29.5	28.6	27.7	26.2	25.6	24.7	24.5	24.2	22.3	21.6	21.3	
6	22.2	22.2	21.7	21.5	21.5	20.7	21.1	20.4	20.2	22.4	25.0	28.0	30.6	31.5	31.0	31.2	29.6	27.2	26.6	24.8	21.2	22.6	22.6	19.6	
7	20.4	22.9	20.1	20.9	21.0	18.9	19.5	21.2	22.4	24.9	26.5	29.4	30.4	31.2	30.9	29.5	27.5	24.5	22.1	23.8	22.4	17.7	21.7	22.5	
8 *	22.6	22.5	23.7	22.4	22.4	21.6	21.4	21.3	21.9	23.4	25.9	28.0	29.2	29.5	28.5	27.0	25.6	24.8	24.5	23.6	24.0	23.9	22.5	23.1	
9	23.4	23.1	22.9	22.9	22.5	21.0	20.1	19.5	20.5	22.1	24.6	28.5	30.5	30.2	28.9	28.5	27.6	24.5	21.9	22.9	23.5	24.4	24.9	25.0	
10 **	24.4	23.5	23.5	21.5	20.0	19.1	19.4	22.7	21.6	22.5	25.9	27.5	30.4	31.3	31.5	32.6	29.4	26.7	22.3	12.6	20.5	19.9	19.9	24.1	
11	22.5	22.5	21.9	23.1	23.9	21.6	19.9	19.5	20.6	22.5	25.6	28.0	29.0	29.2	27.9	26.5	24.9	23.5	23.5	23.7	24.0	24.2	23.7	23.5	
12	22.9	23.9	23.9	24.6	24.0	21.6	21.6	21.6	23.5	26.1	27.9	30.5	31.0	30.0	27.9	26.2	24.5	23.5	24.5	24.4	24.5	24.4	22.1	20.5	
13 *	20.5	24.1	23.0	21.4	20.3	20.3	20.0	20.0	20.5	22.0	23.9	26.1	27.4	27.3	26.4	25.4	24.4	23.4	23.4	23.7	24.0	23.4	23.4	22.3	
14	22.5	22.9	21.7	21.7	21.5	20.9	20.4	20.4	21.9	24.4	26.9	29.2	30.6	29.6	28.3	26.6	24.9	23.4	22.9	23.4	23.6	23.4	23.4	23.7	
15	23.8	23.7	23.4	22.9	21.7	20.6	20.3	20.3	20.8	23.1	26.2	29.4	31.0	29.4	27.6	27.5	26.5	25.9	25.9	26.1	26.4	23.0	21.4	20.9	
16 **	19.5	19.5	13.9	20.3	22.3	19.6	20.4	17.9	17.6	19.5	23.4	26.3	29.4	32.1	32.3	31.3	30.4	28.8	28.4	28.4	9.4	17.9	19.7	17.5	
17	19.0	18.4	19.1	21.4	20.5	19.4	19.4	19.5	21.4	22.1	24.5	27.5	27.4	28.9	29.5	29.6	26.4	23.9	23.9	22.1	21.4	23.2	18.9	21.7	
18 **	21.8	21.4	22.4	22.5	20.9	20.0	21.1	23.6	21.8	23.0	25.7	27.9	29.9	30.9	32.4	29.3	28.8	26.4	25.3	23.5	20.1	23.0	24.9	25.4	
19 **	24.6	21.4	23.4	24.5	22.4	20.0	18.8	19.9	20.0	20.1	24.0	27.6	29.4	30.1	30.0	29.3	24.1	24.3	18.5	22.2	23.1	20.5	19.9	22.2	
20	19.4	23.4	22.4	20.4	19.9	19.3	18.4	18.4	18.8	22.7	26.4	30.3	33.0	31.5	29.9	27.9	26.9	26.3	24.9	22.0	23.4	24.3	22.9	24.4	
21	22.7	22.0	23.1	23.5	21.4	21.1	19.7	20.6	20.4	21.4	24.3	27.8	29.9	29.9	26.8	26.4	25.9	23.4	23.4	22.4	21.5	22.9	23.5	24.9	
22	24.9	21.8	20.4	20.9	22.4	25.4	21.5	18.9	20.1	21.4	23.4	26.8	27.9	27.8	26.4	25.5	24.8	24.1	24.4	24.2	24.0	21.5	17.5	21.1	
23 **	24.1	28.2	21.7	25.4	23.4	20.4	19.2	17.9	19.6	21.3	25.5	27.2	32.3	30.8	33.2	26.6	23.8	24.8	23.5	14.4	22.4	23.0	13.3	18.9	
24	21.8	22.4	26.3	21.4	20.8	20.7	19.4	19.8	20.4	22.4	25.3	28.5	31.0	30.7	28.8	27.4	22.5	22.1	21.0	17.1	15.9	19.4	22.4	22.5	
25	22.3	23.4	22.4	24.4	21.9	23.3	20.2	18.9	18.5	21.3	25.0	27.8	29.9	28.4	27.4	27.0	25.1	22.5	21.9	21.4	20.5	21.6	22.9	21.5	
26	22.5	22.9	23.7	21.9	20.7	19.3	19.7	18.4	19.5	21.4	23.8	27.3	30.4	31.0	29.4	26.9	24.4	23.4	23.9	17.9	21.4	20.9	20.0	19.9	
27	23.9	23.4	20.9	20.9	21.5	21.2	20.7	20.2	19.3	19.5	22.1	26.1	29.4	31.0	28.9	26.9	25.4	22.4	21.5	22.9	23.5	22.8	22.5	22.5	
28 *	22.5	22.1	21.8	21.7	21.5	21.3	20.4	20.4	19.8	21.4	23.4	26.5	27.8	27.0	26.0	25.5	24.9	24.4	24.0	23.3	22.7	22.4	21.8	22.3	
29 *	22.4	22.3	22.1	22.0	21.5	21.4	21.1	21.0	21.3	21.6	22.8	25.0	27.5	29.0	29.0	27.9	26.7	24.6	23.5	24.4	23.3	22.6	22.4	22.3	
30	22.4	22.1	22.2	22.4	22.4	21.4	20.4	19.9	20.5	22.0	24.9	28.4	30.6	32.4	32.2	31.4	29.9	29.4	27.4	24.4	24.4	22.4	22.0	22.0	
31	24.0	21.0	20.4	20.3	20.4	20.4	21.0	20.9	19.6	20.4	24.0	28.1	30.6	32.1	31.0	29.5	28.5	26.3	25.8	24.9	24.0	23.0	21.7	21.5	
Mean	22.4	22.5	21.9	22.1	21.6	20.9	20.3	20.1	20.5	22.0	24.6	27.5	29.6	30.0	29.3	28.1	26.3	25.0	24.0	22.8	22.4	22.4	21.9	22.3	
Mean *	22.0	22.5	22.5	22.1	21.8	21.2	20.9	20.8	20.9	22.1	23.9	26.2	27.8	28.1	27.6	26.7	25.6	24.6	24.1	23.8	23.6	23.3	22.7	22.5	
Mean **	22.9	22.8	21.0	22.8	21.8	19.8	19.8	20.4	20.1	21.3	24.9	27.3	30.3	31.0	31.9	29.8	27.3	26.2	23.6	20.2	19.1	20.9	19.5	21.6	

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
September	10° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1		21.9	22.3	22.5	22.1	22.0	21.0	20.0	18.9	19.0	20.5	22.9	28.1	32.0	32.3	33.5	33.8	31.4	27.4	22.4	21.3	22.0	22.3	22.4	22.4
2		22.9	23.8	26.5	22.9	20.5	19.4	22.8	27.4	23.0	21.4	24.4	27.0	28.3	28.9	28.3	27.3	26.8	25.8	25.2	24.9	24.2	24.8	23.8	17.9
3		19.5	20.5	21.3	21.4	19.9	20.4	19.5	18.8	18.9	20.4	24.3	28.6	31.4	30.2	28.5	26.4	24.4	23.4	23.0	23.2	23.4	22.9	22.8	22.5
4		22.1	21.8	21.4	21.5	21.0	20.5	19.4	18.7	19.3	21.0	24.4	27.1	29.8	30.9	30.8	29.8	26.9	22.7	20.4	18.2	21.1	22.4	22.7	23.0
5		23.3	23.0	21.8	23.3	22.9	20.6	20.4	19.4	20.3	22.8	25.8	27.5	28.8	29.5	29.0	27.8	27.0	24.1	23.4	22.6	19.0	21.4	22.4	22.7
6	**	22.6	24.8	20.0	19.8	20.3	20.4	22.6	24.0	25.1	26.7	25.1	26.4	28.6	31.4	32.4	28.8	25.2	23.2	20.4	24.0	23.7	23.4	20.5	18.5
7		20.7	21.0	20.8	21.0	22.4	21.0	21.1	20.9	20.9	23.4	24.5	27.2	28.1	27.4	26.5	26.0	21.0	21.4	24.3	24.4	23.6	22.1	18.8	20.1
8		19.4	22.1	22.4	23.6	22.4	22.9	22.7	23.4	22.4	22.3	23.4	26.4	26.4	25.8	25.4	24.8	24.4	23.4	23.7	23.4	23.0	22.4	22.4	22.4
9		22.3	22.4	22.4	22.4	22.1	20.8	20.3	19.8	19.4	19.9	21.6	24.3	25.9	26.5	26.9	25.9	24.4	23.9	21.9	22.0	22.4	22.4	22.4	22.0
10		22.2	22.6	22.8	25.5	21.8	21.3	19.4	19.4	19.4	21.2	23.9	26.6	28.6	29.5	28.8	27.0	26.4	24.7	23.5	22.9	22.5	21.8	20.8	20.4
11	**	21.4	21.0	20.5	20.3	20.6	22.1	21.6	20.5	20.5	21.9	24.1	28.4	31.0	32.3	33.5	31.9	29.6	29.6	25.7	20.4	18.5	19.6	18.4	21.6
12	**	12.8	14.6	19.9	19.9	20.9	21.1	23.1	29.3	26.5	24.1	23.5	26.3	28.1	26.5	27.0	27.6	19.8	21.5	24.4	23.4	18.0	17.0	17.5	19.5
13		22.6	23.4	20.7	18.9	20.5	20.6	20.3	19.9	20.4	21.2	20.9	23.2	26.1	27.8	29.5	29.2	26.0	24.5	19.5	14.5	14.3	20.5	19.1	18.2
14		15.6	19.6	21.9	21.5	22.5	20.8	20.5	19.7	21.1	20.6	23.5	25.0	27.4	26.9	28.0	26.8	21.9	16.9	23.0	19.7	17.7	16.5	20.4	21.2
15		24.0	21.6	19.5	23.0	24.5	23.5	21.7	19.5	20.1	20.2	21.4	23.1	25.3	27.9	25.1	25.5	25.7	22.5	18.5	24.0	22.5	21.7	21.7	21.5
16		20.2	24.5	23.5	21.4	20.0	22.7	22.1	19.5	18.8	20.2	21.1	25.1	28.9	28.3	27.5	26.1	24.8	23.4	23.0	22.6	21.6	17.4	15.8	19.5
17	**	18.4	22.5	22.6	21.4	20.5	20.4	18.3	17.4	17.5	20.1	21.3	23.1	28.5	29.8	29.9	26.9	26.6	17.6	13.5	18.5	19.6	18.6	20.5	19.3
18		20.6	24.4	24.5	22.5	21.6	21.1	21.5	20.5	20.5	21.4	22.6	25.1	26.1	27.2	28.9	26.5	24.5	24.1	10.8	18.5	22.1	20.5	25.9	21.0
19		19.1	23.5	22.2	23.6	21.1	20.1	21.5	19.9	21.0	23.5	24.6	27.5	30.1	30.1	28.1	26.6	26.9	18.1	20.1	22.4	22.5	20.5	20.5	21.5
20		21.9	24.3	19.9	20.5	22.5	22.3	20.6	20.6	20.0	20.6	23.5	27.8	28.5	27.0	28.4	25.5	24.5	23.1	20.6	17.9	17.1	17.9	21.0	22.1
21	**	22.0	19.5	26.0	23.5	22.6	27.7	21.1	19.1	21.3	23.2	26.2	28.1	30.0	24.7	27.1	26.1	23.4	19.4	17.5	19.9	21.6	22.6	24.0	22.6
22		22.1	21.4	21.9	22.5	23.9	24.0	20.6	19.3	20.2	22.9	24.6	27.8	27.5	27.6	27.2	25.9	24.3	20.5	21.5	23.0	21.6	20.5	17.4	22.0
23		20.8	19.0	19.0	21.5	21.0	20.6	20.2	20.1	20.3	21.8	24.6	26.9	27.6	26.9	25.6	24.8	24.5	24.1	23.5	23.0	22.7	22.4	22.1	22.6
24		19.2	16.2	19.2	21.5	21.4	20.9	20.5	19.7	19.9	20.8	24.6	28.0	29.7	28.5	28.0	25.6	24.1	24.0	23.4	22.6	21.6	22.1	20.4	20.7
25	*	21.2	21.6	23.2	22.8	21.1	22.1	20.1	18.7	18.6	19.6	21.6	24.6	26.2	27.5	27.1	26.5	25.6	23.9	24.1	23.5	22.6	21.6	19.6	20.0
26	*	21.1	21.8	22.3	22.1	21.9	22.1	21.5	20.0	19.2	19.6	22.6	27.1	30.4	31.7	31.8	29.9	27.9	24.6	23.4	23.2	22.7	21.4	21.7	20.0
27		21.1	21.9	21.3	20.6	20.7	19.8	19.1	19.7	19.7	20.3	23.3	26.8	30.3	30.4	29.0	28.1	25.7	24.4	23.7	23.1	22.6	20.8	18.0	17.5
28	*	20.2	21.5	22.2	21.3	21.8	21.5	20.8	20.2	20.0	20.8	23.0	26.8	29.3	28.9	27.9	26.1	25.2	24.2	23.8	23.2	22.7	19.9	19.6	19.5
29	*	20.3	21.3	21.8	21.9	21.9	21.8	21.0	19.2	18.1	18.3	20.2	23.9	27.7	29.4	29.5	28.5	27.3	26.2	23.6	22.9	22.4	21.9	21.8	21.6
30	*	21.8	21.9	22.1	22.2	22.2	21.9	21.9	19.8	18.4	19.3	20.8	25.2	27.4	28.3	28.2	26.8	25.6	24.2	23.4	21.8	22.4	22.3	22.0	21.9
Mean		20.8	21.7	21.9	21.9	21.6	21.5	20.9	20.4	20.3	21.3	23.3	26.3	28.5	28.7	28.6	27.3	25.4	23.2	21.8	21.8	21.4	21.1	20.9	20.9
Mean	*	20.9	21.6	22.3	22.1	21.8	21.9	21.1	19.6	18.9	19.5	21.6	25.5	28.2	29.2	28.9	27.6	26.3	24.6	23.7	22.9	22.6	21.4	20.9	20.6
Mean	**	19.4	20.5	21.8	21.0	21.0	22.3	21.3	22.1	22.2	23.2	24.0	26.5	29.2	28.9	30.0	28.3	24.9	22.3	20.3	21.2	20.3	20.2	20.2	20.3
October	10° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	*	21.9	21.9	21.9	22.0	22.2	22.3	21.2	20.2	19.8	20.7	22.6	24.8	26.2	26.2	26.2	25.4	24.8	24.5	23.8	23.5	22.6	21.3	21.4	19.6
2	**	18.3	19.2	20.4	20.4	21.2	21.2	21.0	20.4	20.3	21.9	23.7	27.6	33.8	36.4	34.8	28.8	25.3	15.8	20.8	17.8	17.4	17.3	19.2	21.4
3	**	26.9	23.1	24.8	19.4	25.8	23.7	27.2	26.8	25.7	24.0	24.6	25.3	26.3	26.8	26.3	17.8	20.1	15.6	14.0	17.2	16.8	19.4	21.7	23.5
4		19.1	22.8	22.8	19.9	21.7	24.8	25.2	21.8	20.6	23.3	23.8	25.2	26.5	23.8	24.8	22.5	17.7	18.2	21.3	18.8	19.5	20.9	21.9	18.3
5		20.2	22.7	21.9	24.8	22.1	22.3	20.7	22.3	21.5	22.1	25.3	27.7	28.7	26.9	21.5	25.2	22.5	20.5	22.9	22.6	18.8	20.0	21.2	22.3
6		22.9	21.9	21.6	21.4	21.8	22.3	22.1	21.7	20.8	21.8	23.9	25.5	26.4	25.8	24.9	23.7	22.9	22.9	22.4	22.4	21.0	19.9	21.0	20.4
7		20.1	20.0	22.3	20.0	19.5	20.3	23.1	22.9	21.0	21.0	22.4	24.8	26.8	28.7	27.4	22.3	24.4	24.0	23.3	20.4	19.7	19.5	17.4	17.4
8		21.3	21.9	22.5	24.2	22.4	21.9	21.4	20.4	20.3	21.4	23.5	26.9	28.4	27.7	26.8	26.0	24.5	23.7	19.0	19.2	20.5	20.0	21.1	20.7
9	*	21.2	24.0	20.5	21.0	21.1	22.1	22.0	20.4	19.7	20.8	23.4	26.8	27.7	28.5	28.0	27.4	26.5	25.5	24.0	22.2	21.9	21.5	21.4	21.9
10		22.0	22.1	21.9	21.9	21.8	22.0	21.6	20.4	19.7	19.9	21.4	24.6	26.4	27.4	27.4	26.0	25.3	24.4	23.6	22.6	22.6	19.4	18.8	19.6
11		21.1	21.4	21.9	22.1	22.2	21.9	21.5	20.2	19.0	18.9	20.9	25.1	27.4	28.5	28.6	28.5	26.4	26.5	24.6	25.5	20.1	15.7	19.6	22.1
12	**	21.7	21.7	24.1	22.5	22.9	21.7	20.1	19.5	18.5	21.7	22.5	25.5	28.9	27.5	29.7	28.7	26.1	19.5	19.6	22.7	22.2	20.9	18.7	16.9
13		15.5	20.3	22.0	20.9	21.0	21.6	21.5	20.1	19.5	19.0	20.9	25.2	27.2	28.5	29.6	25.1	24.5	6.6	22.7	23.9	21.2	18.1	19.6	18.5
14		19.4	22.5	25.0	22.5	22.6	22.6	23.2	21.5	21.1	21.4	23.3	26.1	27.8	25.5	26.5	16.7	24.6	25.1	19.5	12.1	11.5	11.1	17.2	22.5
15		23.4	22.5	25.1	21.5	25.6	25.6	24.5	20.5	20.1	19.6	23.3	26.7	27.6	28.7	27.9	25.5	23.5	20.6	8.0	16.0	19.0	20.5	22.5	16.9
16		16.3	23.5	19.6	19.5	21.0	20.7	21.5	21.5	20.5	21.9	24.4	25.9	27.5	23.9	25.5	23.2	22.1	23.3	18.3	20.3	20.5	20.5	20.5	21.1
17		24.1	22.4	21.4	20.8	22.1	23.4	21.8	21.3	19.9	21.2	23.5	26.4	27.8	27.4	25.9	24.8	22.4	22.1	23.4	21.7	16.1	18.3	21.0	21.2
18		22.4	22.3	22.9	21.9	21.5	20.5	20.9	20.4	21.0	21.2	23.2	25.0	26.4	26.0	25.7	24.4	20.0	15.7	15.0	19.9	21.4	19.1	19.9	22.1
19		23.4	29.1	17.0	18.4	22.0	21.0	22.4	22.4	22.0	22.0	25.4	29.0	28.4	25.7	28.3	19.4	22.7	15.4	17.8	22.4	20.9	19.9	21.0	21.3
20		22.4	23.8	21.4	22.6	21.0	20.5	21.0	20.5	20.2	20.6	23.9	25.9	24.5	25.8	17.7	14.4	20.7	20.4	19.9	20.8	21.7	21.6	21.8	22.0
21		21.9	21.9	21.5	21.5	21.4	21.5	21.0	20.1	19.5	20.8	23.1	25.5	27.0	26.3	24.6	25.4	19.5	23.3	23.0	21.8	21.4	20.7	20.8	21.4
22	*	22.7	21.9	21.4	21.5	21.4	21.0	20.6	19.4	19.3	21.4	24.4	25.9	26.8	24.9	24.2	23.8	23.4	23.1	21.9	21.6	21.0	20.5	20.7	21.0
23	*	21.0	21.1	21.6	22.3	21.9	21.5	21.2	20.6	20.5	21.9	25.1	27.6	29.1	27.9	25.5	24.2	24.1	24.1	23.6	22.5	21.9	21.3	21.0	20.5
24	*	21.6	21.5	21.5	21.4	21.0	21.2	21.4	19.9	19.1	20.0	23.2	25.7	26.8	26.4	25.5	23.6	23.2	23.1	22.7	22.4	22.0	20.8	20.5	20.9
25		21.4	21.6	23.1	23.1	22.6	24.3	25.4	24.5	21.4	19.6	21.2	24.5	26.1	26.5	26.6	26.1	24.1	23.1	22.5	21.6	21.2	20.7	19.9	19.5
26		20.1	21.2	22.6	20.6	20.2	21.8	21.3	21.0	19.1	18.8	20.6	23.6	25.0	25.2	24.6	24.2	23.6	23.2	22.6	22.4	17.6	17.7	19.8	20.8
27		23.2	24.2	21.2	21.2	20.9	21.8	21.6	20.6	19.1	19.1	21.1	24.1	25.7	25.6	25.1	23.3	22.3	23.1	23.6	22.7	22.4	19.6	20.0	21.3
28	**	21.5	21.6	21.4	22.0	21.6	21.9	21.1	20.2	19.0	19.3	22.3	26.2	29.6	31.8	34.1	29.1	20.1	28.6	28.0	12.6	10.7	-0.2	6.2	11.3
29	**	11.3	19.4	21.1	22.6	23.6	25.6	25.6	38.5	28.6	22.3	23.4	26.3	27.7	25.6	25.0	22.3	19.0	15.3	15.6	4.9	8.6	14.0	15.9	16.6
30		16.2	23.0	28.1	25.5	22.8	24.6	24.0	22.2	20.6	19.9	22.8	25.1	26.6	22.8	24.3	19.7	16.6	12.9	16.0	16.6	18.0	19.0	20.5	18.6
31		15.8	20.1	22.4	22.6	21.3	22.3	20.6	20.0	19.1	19.5	23.1	24.1	25.6	27.6	18.1	21.0	20.6	18.0	12.3	19.0	18.1	21.6	21.5	20.6
Mean		20.7	22.1	22.2	21.7	21.9	22.3	22.2	21.7	20.5	20.9	23.1	25.8	27.3	27.0	26.2	23.8	22.7	20.9	20.5	20.0	19.3	18.7	19.8	20.1
Mean	*	21.7	22.1	21.4	21.6	21.5	21.6	21.3	20.1	19.7	21.0	23.7	26.2	27.3	26.8	25.9	24.9	24.4	24.1	23.2	22.4	21.9	21.1	21.0	20.8
Mean	**	19.9	21.0	22.4	21.4	23.0	22.8	23.0	25.1	22.4	21.8	23.3	26.2	29.3	29.6	30.0	25.3	22.1	19.0	19.6	15.0	15.1	14.3	16.3	17.9

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION AT ABINGER

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	23.2	21.9	23.0	21.9	22.0	22.7	22.7	22.1	21.7	21.7	22.8	23.0	24.3	24.7	23.3	22.8	19.8	20.6	20.9	21.2	20.6	18.6	19.5	19.8	
2	21.7	19.2	22.7	21.8	21.6	22.2	21.3	21.2	20.7	20.8	22.7	26.0	27.3	27.9	28.5	20.0	21.3	23.6	18.6	20.1	20.2	19.2	20.1	19.6	
3	20.3	20.2	21.4	21.6	20.7	21.0	21.6	21.5	21.3	21.8	22.9	24.7	25.5	26.4	25.1	25.0	22.8	20.0	21.1	20.1	17.0	17.8	18.5	18.7	
4	20.7	22.0	21.4	21.2	21.8	21.6	21.6	21.6	22.7	22.1	23.4	26.2	27.3	26.3	25.0	23.7	22.7	22.7	22.2	21.1	20.0	21.2	20.1	19.7	
5	20.7	20.5	20.4	20.1	20.1	20.7	20.7	20.0	19.5	20.2	22.1	25.1	26.0	25.7	25.0	23.7	23.6	22.7	23.2	22.7	22.1	20.8	19.0	16.7	
6	18.8	20.4	21.8	20.3	20.8	20.8	20.4	20.3	20.3	21.3	22.8	25.0	26.2	25.8	25.3	24.4	23.6	22.9	22.4	21.9	21.8	20.4	18.8	21.2	
7	21.8	24.0	23.4	21.8	20.6	21.8	22.3	20.8	20.8	21.3	22.7	25.3	26.0	26.1	28.2	25.2	24.3	23.3	22.8	22.8	21.2	20.3	20.3	19.8	
8	19.8	19.8	20.1	21.4	20.3	20.8	20.8	20.4	20.3	21.0	24.0	24.9	27.4	25.8	24.8	25.3	25.1	24.4	23.2	22.5	13.8	18.5	20.8	20.2	
9 *	20.3	19.8	20.6	20.9	20.8	20.8	20.7	20.4	20.2	20.5	22.8	23.8	23.8	23.4	23.4	23.2	23.3	21.8	23.2	21.8	21.2	19.9	20.2	20.8	
10	21.2	20.9	20.8	21.2	21.3	21.8	21.6	20.8	19.8	19.8	21.3	23.8	24.9	25.8	25.5	24.8	25.9	24.8	22.8	22.2	21.2	19.3	19.5	18.8	
11	15.8	18.9	19.8	19.3	19.8	21.3	20.8	20.5	19.8	20.2	21.2	23.4	24.8	22.5	23.8	23.8	23.8	23.4	21.5	14.6	19.2	19.3	18.5	19.9	
12	20.4	19.7	20.6	22.8	22.6	22.5	22.0	22.3	20.9	20.8	21.2	22.5	23.8	23.9	21.3	21.7	23.0	22.4	19.8	19.1	19.3	18.9	19.4	20.3	
13	19.2	17.9	19.4	21.0	21.2	21.4	21.2	21.3	19.9	20.5	21.4	22.8	24.1	26.4	27.4	25.2	24.8	23.8	21.9	20.4	18.2	17.9	19.2	19.5	
14	20.1	20.8	20.5	20.9	20.9	21.1	21.9	21.5	19.5	20.0	23.3	23.4	23.8	24.8	24.3	23.7	23.2	21.9	15.9	20.7	21.0	19.9	17.7	20.8	
15	23.4	22.2	21.9	22.8	21.8	21.3	20.8	20.8	20.3	20.5	22.3	23.9	24.6	24.6	23.8	22.2	21.9	21.9	20.9	18.8	18.1	19.2	18.7	19.5	
16 *	20.5	20.9	20.9	21.2	20.7	21.4	21.2	20.9	20.5	20.8	22.1	23.4	23.9	23.4	22.4	22.0	21.9	21.5	21.4	20.3	19.7	20.0	20.8	21.2	
17 *	21.2	21.7	21.8	21.5	21.9	21.0	21.0	21.2	21.5	22.6	23.6	24.8	24.9	24.2	24.1	24.0	24.5	22.5	21.6	20.9	20.0	20.3	20.2	18.6	
18	16.4	18.0	19.7	20.0	20.2	20.4	20.9	21.9	22.8	23.1	23.1	23.6	23.9	23.1	23.3	22.1	22.5	22.1	21.9	19.9	16.9	20.4	20.5	20.6	
19 *	21.1	21.6	21.6	21.6	21.4	21.2	21.4	21.8	21.3	21.2	22.6	24.0	24.0	23.6	23.4	23.2	23.1	21.5	22.2	20.5	19.6	20.9	21.0	20.6	
20	21.3	20.5	22.3	21.9	23.3	22.1	21.1	21.1	21.7	22.1	23.1	24.0	26.5	25.4	25.1	25.2	24.9	24.5	14.0	19.3	20.0	19.4	17.4	15.5	
21	18.7	20.6	21.0	21.0	19.8	20.6	22.5	21.4	21.5	21.1	22.4	23.5	23.5	24.0	23.6	22.9	22.5	22.3	21.7	21.0	17.0	16.4	18.8	19.4	
22 *	21.0	21.6	21.4	21.4	21.0	20.8	20.3	20.4	20.5	20.6	21.3	22.5	23.4	23.6	22.7	21.9	22.0	20.4	19.5	20.5	20.0	19.6	20.3	20.6	
23 **	21.2	21.8	21.7	21.9	21.5	22.2	22.4	22.0	22.1	21.9	22.5	24.1	25.1	27.1	25.9	20.5	21.8	21.7	20.6	20.2	17.0	13.1	9.1	6.5	
24 **	6.1	13.5	12.3	19.7	30.3	27.3	25.7	29.8	26.5	24.1	22.9	23.3	23.5	19.9	22.1	20.4	20.5	17.0	11.7	10.3	16.0	18.5	19.5	18.2	
25 **	18.5	20.1	18.1	19.9	24.5	23.2	22.1	20.7	21.2	20.5	21.6	22.6	24.8	23.7	22.5	16.8	19.4	21.6	19.1	14.7	17.7	17.1	16.1	19.0	
26 **	19.1	21.9	25.5	28.6	20.5	19.9	20.1	20.6	21.2	21.9	20.8	22.7	25.6	18.3	20.1	21.9	19.1	12.8	21.1	17.5	12.1	18.1	15.7	17.5	
27	19.3	20.4	22.5	23.1	22.5	22.7	21.8	23.6	23.1	22.7	24.7	25.1	24.6	23.6	20.7	21.1	21.6	20.5	20.4	17.1	13.6	15.7	16.5	15.1	
28 **	17.5	18.3	18.6	19.2	18.2	19.6	21.3	21.4	21.9	21.2	22.8	23.9	23.8	23.8	22.6	22.3	14.0	11.6	12.3	16.2	19.3	19.0	10.1	9.7	
29	15.5	16.2	19.8	21.6	21.8	21.5	21.1	21.6	21.9	21.3	21.0	24.1	26.0	24.1	24.1	19.3	17.1	17.1	18.1	20.5	19.7	19.4	18.6	16.5	
30	19.1	20.7	21.1	21.6	22.1	21.1	21.1	21.2	21.5	21.7	21.7	23.1	24.8	24.5	23.4	22.6	21.5	20.4	19.1	18.3	19.1	20.1	19.6	20.5	
Mean	19.5	20.2	20.9	21.4	21.5	21.6	21.5	21.5	21.2	21.3	22.4	24.0	24.9	24.4	24.0	22.7	22.2	21.3	20.2	19.6	18.8	19.0	18.5	18.5	
Mean *	20.8	21.1	21.3	21.3	21.2	21.0	20.9	20.9	20.8	21.1	22.5	23.7	24.0	23.6	23.2	22.9	23.0	21.5	21.6	20.8	20.1	20.1	20.5	20.4	
Mean **	16.5	19.1	19.2	21.9	23.0	22.4	22.3	22.9	22.6	21.9	22.1	23.3	24.6	22.6	22.6	20.4	19.0	16.9	17.0	15.8	16.4	17.2	14.1	14.2	
December													10° + Tabular Quantities												
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	21.7	20.7	20.9	21.5	21.6	21.4	21.0	20.6	20.2	20.1	20.9	22.6	23.5	23.7	23.6	22.2	22.6	22.1	22.1	16.9	20.8	19.7	17.1	18.4	
2	17.8	19.9	20.0	19.5	19.9	20.2	20.4	20.6	20.4	20.5	21.0	22.0	22.9	23.1	22.8	22.0	22.0	21.5	21.1	20.7	20.6	20.4	20.4	19.8	
3	17.4	19.0	20.1	20.2	20.2	20.5	20.5	20.4	20.3	20.1	21.2	22.9	23.4	23.3	22.9	21.9	21.7	21.8	21.5	21.0	20.5	20.3	20.4	19.7	
4	16.1	17.5	19.6	18.5	19.1	19.1	19.6	20.4	20.2	20.6	21.1	23.1	24.6	25.3	26.3	26.4	23.1	22.0	21.0	20.5	20.5	19.5	19.2	18.7	
5	20.4	21.6	21.1	19.4	19.2	19.5	19.8	19.6	20.0	19.9	22.0	23.5	24.2	23.6	22.7	22.0	20.8	20.7	20.6	20.0	19.9	20.0	20.5	20.6	
6	21.2	21.6	21.9	21.8	21.5	21.0	20.4	20.0	19.6	19.9	21.7	23.4	23.9	23.3	22.1	21.9	21.7	21.5	21.8	21.0	19.6	18.9	17.7	16.8	
7	20.0	21.6	22.2	22.6	22.0	21.3	20.4	20.3	20.4	20.4	22.4	25.5	27.2	27.7	25.1	24.0	25.0	23.8	21.1	17.6	17.0	12.1	14.5	15.0	
8	17.5	20.5	22.3	22.2	21.7	21.5	21.0	20.6	20.0	19.6	21.6	23.7	25.4	25.6	27.7	28.5	29.4	27.0	19.4	17.5	3.8	11.0	15.9	17.1	
9 **	18.6	20.5	23.2	22.5	20.6	21.5	20.4	20.1	20.0	20.0	22.6	22.5	24.4	25.3	25.1	21.1	25.0	22.1	21.3	20.4	14.2	11.5	14.0	15.6	
10 **	8.3	14.4	17.0	20.3	21.6	20.4	19.9	20.4	21.8	19.5	21.1	22.4	24.2	23.3	23.0	23.6	22.7	22.0	21.0	20.6	17.9	16.0	16.6	18.4	
11	19.6	21.0	20.8	21.0	21.6	19.4	20.1	20.0	20.0	19.7	20.7	21.5	22.6	23.4	21.4	22.3	22.2	21.6	21.0	18.5	19.4	18.3	17.8	16.1	
12	16.7	18.0	21.1	21.0	21.4	21.4	21.1	21.4	22.0	20.4	20.9	20.8	21.4	23.0	22.0	21.0	21.3	21.3	20.9	20.0	20.0	18.9	17.1	15.4	
13	20.4	20.0	20.6	21.0	21.0	20.8	20.5	20.1	20.0	19.8	20.5	21.9	22.7	22.6	22.5	22.4	22.5	22.3	21.4	21.0	19.9	19.0	19.0	18.3	
14	20.0	21.0	20.5	20.7	20.3	20.9	21.3	21.1	21.1	20.3	21.0	23.4	23.6	24.6	25.0	24.1	24.0	19.8	21.6	20.0	20.2	20.0	18.4	18.6	
15	21.2	20.4	20.6	21.5	20.9	20.9	21.0	21.0	20.2	19.6	20.2	21.8	22.9	23.2	23.0	22.4	22.4	22.4	20.7	19.6	18.8	19.7	19.4	16.5	
16	16.6	18.6	19.9	20.4	20.4	21.8	21.4	21.5	20.9	20.8	21.6	21.2	22.1	22.6	22.1	22.6	21.3	21.0	21.4	20.4	20.4	17.6	18.5	19.4	
17 *	20.3	20.6	21.0	21.0	20.4	20.9	20.7	20.7	20.6	20.6	20.8	21.4	22.3	23.2	22.6	21.9	21.9	21.3	21.3	20.8	20.1	19.4	19.2	20.0	
18 *	20.9	21.0	21.6	21.3	20.3	20.6	20.1	20.1	20.0	20.5	21.4	22.5	23.0	23.0	22.1	22.0	21.9	21.4	21.0	20.9	20.8	20.5	20.6	20.9	
19 *	21.1	21.4	21.9	21.8	22.0	21.0	21.0	21.0	21.1	20.1	20.9	21.8	22.9	23.5	23.0	22.1	21.9	21.3	21.0	20.9	20.6	20.4	20.2	20.3	
20	20.9	20.0	24.5	20.7	21.1	20.9	20.8	20.4	19.9	20.3	21.4	22.4	22.8	23.7	23.2	23.4	23.2	21.7	19.0	21.2	19.3	19.3	18.6	15.0	
21 **	15.0	20.1	19.8	23.5	23.3	27.6	23.4	22.6	22.0	22.2	24.4	25.7	26.1	27.8	25.6	22.9	19.4	20.4	15.9	17.8	17.2	15.6	14.9	17.0	
22	18.4	18.4	24.9	23.0	20.4	21.2	21.4	23.1	22.0	21.0	22.4	22.4	22.2	23.2	22.9	22.0	22.0	21.1	20.6	18.4	18.6	19.5	19.6	20.0	
23 **	20.3	20.6	21.0	20.6	22.6	19.4	20.1	21.3	23.6	22.2	22.5	23.0	26.6	25.4	26.2	15.3	21.1	11.5	17.0	18.3	17.0	16.0	18.5	19.7	
24	21.1	21.4	20.5	20.7	21.0	21.6	22.5	22.9	23.6	22.9	21.6	23.7	22.1	23.0	20.6	22.6	21.6	17.0	17.9	19.3	18.4	17.9	16.4	17.0	
25	19.2	18.6	21.0	19.0	20.3	20.0	20.0	19.9	20.1	20.7	22.4	22.2	22.6	22.2	22.4	21.5	20.4	19.4	20.2	19.8	18.5	18.0	16.0	16.7	
26 **	16.1	17.2	19.4	20.6	23.0	21.1	21.2	20.6	21.2	22.9	24.4	24.0	24.0	23.8	22.4	22.6	23.4	21.0	14.5	18.7	17.4	16.6	13.5	15.0	
27	18.0	19.6	20.3	21.0	22.0	22.1	20.6	20.5	20.4	20.1	20.6	21.6	22.1	22.6	21.4	21.2	21.0	20.7	20.5	20.4	19.6	17.0	17.0	19.0	
28	19.4	20.3	20.6	22.1	21.0	20.6	21.0	20.9	20.4	20.5	20.9	21.8	22.8	23.6	23.0	21.6	21.0	20.5	20.6	19.7	20.0	19.5	19.5	19.8	
29	20.0	20.4	20.8	21.0	20.3	20.5	20.4	20.4	19.9	19.9	21.2	22.3	23.5	22.6	22.5	21.1	20.1	19.6	20.7	20.6	19.6	18.4	18.1	19.0	
30 *	19.8	20.4	20.8	21.0	20.6	20.8	20.4	20.0	19.7	19.9	20.6	22.0	22.4	22.4	22.1	21.4	21.1	21.0	20.6	20.3	20.1	19.3	19.3	19.6	
31 *	20.1	19.6	19.4	20.4	20.4	20.5	20.4	20.1	19.3	18.8	19.5	21.0	22.1	22.5	21.7	21.1	21.3	21.0	20.8	20.5	20.1	20.0	20.1	20.4	
Mean	18.8	19.9	20.9	21.0	21.0	21.0	20.7	20.7	20.7	20.4	21.5	22.6	23.4	23.7	23.2	22.3	22.2	21.0	20.3	19.8	18.7	18.1	18.0	18.2	
Mean *	20.4	20.6	20.9	21.1	20.7	20.8	20.5	20.4	20.1	20.0	20.6	21.7	22.5	22.9	22.3	21.7	21.6	21.2	20.9	20.7	20.3	19.9	19.9	20.2	
Mean **	15.7	18.6	20.1	21.5	22.2	22.0	21.0	21.0	21.7	21.4	23.0	23.5	25.1	25.1	24.5	21.1	22.3	19.4	17.9	19.2	16.7	15.1	15.5	17.1	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January	18000 γ + Tabular Quantities (in γ)																								
1 *	548	549	550	550	555	559	560	559	559	556	554	550	552	554	558	559	561	565	560	559	555	553	555	553	
2	554	556	558	561	569	574	580	574	570	561	560	554	554	551	549	542	530	525	536	522	517	515	520	529	
3 **	538	549	545	542	549	551	559	553	545	539	534	530	540	540	534	520	544	541	536	524	520	518	526	529	
4 **	534	536	538	548	582	562	562	563	554	547	541	538	540	538	519	530	531	531	531	509	514	501	500	530	
5 **	533	530	544	531	549	549	549	540	534	521	513	533	546	542	542	530	527	523	540	534	536	537	537	565	
6	540	537	540	545	551	554	547	547	543	538	530	540	544	544	545	538	539	533	550	544	540	544	570	555	
7	550	534	537	544	551	541	555	557	555	550	540	534	533	544	548	547	550	548	546	553	553	547	545	544	
8	550	550	551	552	555	556	554	554	554	546	538	536	539	543	545	544	546	549	552	552	552	552	551	560	
9	557	556	552	562	566	564	563	559	559	548	540	540	542	548	553	555	550	550	552	555	556	554	551	549	
10	563	550	549	555	559	560	558	561	559	552	547	545	551	551	544	545	535	534	546	551	550	550	560	546	
11	547	555	550	551	554	560	555	558	546	544	540	545	536	546	549	550	545	541	536	544	552	553	550	550	
12	552	550	553	551	556	560	560	561	552	542	540	543	549	554	555	550	546	541	547	544	544	550	554	550	
13	551	550	550	550	553	560	560	560	554	544	540	532	534	546	549	555	553	550	549	550	553	558	556	558	
14	559	560	560	562	561	568	569	570	566	559	550	550	554	557	561	562	565	566	566	562	564	553	568	562	
15	553	549	550	550	550	551	564	566	560	550	550	550	552	550	546	534	544	550	550	551	548	546	544	546	
16	542	547	550	550	551	558	560	560	558	550	544	540	540	539	540	532	530	519	518	515	516	538	545	540	
17 **	538	557	546	554	556	569	561	545	528	517	506	520	536	541	540	534	540	549	551	553	552	551	554	554	
18 **	550	544	520	544	537	544	553	554	543	550	541	546	546	548	542	547	550	557	555	555	539	538	541	521	
19	533	541	542	546	560	570	561	552	546	541	532	530	540	541	543	545	548	550	550	546	544	541	541	555	
20	542	551	544	548	551	553	552	548	543	538	534	531	541	547	551	550	548	547	547	549	550	549	554	548	
21 *	551	551	552	554	556	558	557	555	555	554	553	550	548	554	555	554	555	557	546	550	545	544	545	550	
22	550	551	551	554	563	566	564	565	560	548	543	537	536	521	525	523	528	527	522	522	527	531	534	542	
23	544	539	543	552	551	555	562	561	561	552	545	537	537	540	536	538	543	548	555	554	552	551	547	547	
24 *	545	545	547	551	555	557	559	560	562	558	546	544	546	554	560	561	561	561	562	564	564	560	556	547	
25	545	549	552	553	558	560	562	562	562	555	547	545	548	560	563	564	563	557	557	548	545	554	550	547	
26 *	546	550	545	543	549	552	556	556	552	542	534	533	541	551	559	560	560	559	558	557	553	550	550	551	
27	552	552	553	554	558	561	561	560	555	542	545	549	553	560	562	561	557	551	555	556	550	551	545	542	
28	543	549	551	560	560	559	551	566	560	550	530	540	543	537	541	541	546	553	557	555	547	542	548	549	
29	550	550	549	550	552	553	556	557	555	546	539	540	542	549	557	561	560	552	551	537	527	533	542	542	
30	542	543	546	549	551	560	561	561	557	550	545	549	549	553	560	561	566	561	562	562	560	554	553	553	
31 *	555	554	553	556	557	561	563	567	570	561	557	555	556	557	557	561	562	563	563	562	564	563	560	560	
Mean	547	548	547	551	556	558	559	558	554	547	541	541	544	547	548	547	548	547	549	546	545	545	547	548	
Mean **	549	550	549	551	554	557	559	559	560	554	549	546	549	554	558	559	560	561	558	558	556	554	553	552	
Mean **	539	543	539	544	555	555	557	551	541	535	527	533	542	542	535	532	538	540	543	535	532	529	532	540	
February	18000 γ + Tabular Quantities (in γ)																								
1	561	563	563	562	565	567	571	573	572	568	562	563	570	569	567	566	568	571	567	565	560	556	561	557	
2	557	559	561	566	573	576	568	568	550	540	537	542	545	538	530	535	536	541	551	555	553	551	551	553	
3	550	556	551	555	560	559	551	557	552	545	541	540	542	546	549	553	555	556	557	556	553	554	554	552	
4	553	555	557	558	561	561	561	561	554	545	541	540	544	551	556	555	560	557	560	558	563	564	567	565	
5 **	560	561	562	563	555	560	577	568	563	557	539	520	536	537	530	524	521	521	546	528	542	538	542	545	
6 **	546	548	550	547	551	547	550	544	535	532	518	486	510	513	524	508	501	507	498	505	543	521	509	541	
7	532	551	547	535	537	542	542	548	543	544	528	535	548	547	547	544	542	547	550	551	551	548	543	547	
8 *	547	544	545	551	555	556	558	561	561	557	549	541	542	548	551	551	551	553	555	557	556	552	553	550	
9 *	544	545	548	549	553	557	560	557	555	549	549	553	551	555	555	549	550	555	557	559	558	560	560	557	
10	559	557	557	556	557	559	560	561	565	566	562	556	545	536	557	556	550	548	551	536	543	545	545	560	
11	541	541	545	547	551	551	549	558	557	555	552	551	551	553	557	551	541	531	532	515	529	524	525	540	
12 *	544	542	545	545	550	552	554	553	551	545	541	544	544	551	556	558	558	558	558	561	561	561	560	558	
13	557	551	547	562	566	568	572	568	563	554	546	545	550	548	555	561	564	565	565	564	561	558	558	558	
14	560	560	561	565	567	569	571	572	561	557	555	559	558	564	561	545	553	556	560	561	554	554	545	556	
15	535	541	546	546	548	552	561	579	573	561	554	551	532	541	551	555	555	547	512	533	549	551	551	560	
16	552	566	558	561	561	560	563	559	549	555	558	553	560	552	545	541	552	556	559	556	553	548	551	548	
17	552	554	565	557	550	555	555	557	557	555	550	555	557	559	562	558	553	552	556	557	551	554	555	555	
18 *	554	552	555	554	555	557	560	559	547	542	543	546	548	552	558	558	559	558	558	558	557	556	556	556	
19 *	556	558	558	561	562	562	561	559	555	549	550	557	562	568	565	564	566	562	567	572	570	564	561	557	
20	558	557	560	563	562	570	561	555	542	531	536	541	549	553	561	552	548	552	551	558	551	552	551	557	
21	555	550	548	548	541	549	557	555	551	541	537	539	543	532	539	549	551	552	552	557	556	551	548	547	
22	551	553	554	554	553	552	559	557	555	552	555	556	555	553	557	555	556	551	549	545	540	533	544	546	
23 **	558	545	537	545	557	556	553	556	553	552	549	543	548	557	544	502	508	515	522	496	477	505	511	495	
24 **	500	515	507	510	513	529	535	532	505	521	547	548	541	541	542	537	532	532	542	544	550	542	543	545	
25	555	552	531	524	530	536	539	542	542	544	537	541	545	554	553	543	547	535	550	545	569	546	538	561	
26	538	537	541	544	547	554	551	548	545	544	541	542	542	546	546	547	551	551	551	543	544	547	559	554	
27	547	542	541	543	551	551	552	553	552	550	551	550	550	549	550	562	558	557	540	550	538	528	537	561	
28 **	551	535	535	546	547	547	550	546	538	556	552	547	510	551	550	518	515	507	540	545	545	542	531	537	
Mean	549	550	549	551	553	556	557	557	552	549	546	544	546	549	551	546	546	546	548	548	549	547	547	551	
Mean *	549	548	550	552	555	557	559	558	554	548	546	548	549	555	557	556	557	557	559	561	560	559	558	556	
Mean **	543	541	538	542	545	548	553	549	539	544	541	529	529	540	538	518	515	516	530	524	531	530	527	533	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March											18000 γ + Tabular Quantities (in γ)														
1 **	542	537	535	537	537	539	540	483	293	469	591	546	571	566	578	533	543	537	539	511	550	547	541	495	
2 **	501	496	508	496	479	494	497	500	494	501	513	515	512	534	543	534	558	538	545	540	529	533	539	540	
3 **	532	539	528	518	523	529	525	488	477	461	476	508	507	511	518	511	523	523	515	528	535	527	539	525	
4	524	530	520	518	524	525	521	511	514	504	516	519	525	526	536	538	537	537	546	543	562	558	543	552	
5 **	541	536	538	541	551	539	556	554	543	534	531	531	518	529	540	564	548	477	494	498	508	476	520	517	
6	514	526	526	523	542	521	528	525	523	498	502	511	524	521	521	540	541	539	542	545	543	546	554	550	
7	548	543	547	552	553	553	561	561	552	551	548	526	535	542	542	547	547	557	567	569	571	555	551	555	
8 **	550	556	529	543	519	532	531	543	539	539	531	530	531	534	530	525	539	522	530	542	579	535	521	529	
9	544	575	529	510	505	512	526	531	533	543	536	527	535	541	545	550	538	508	531	529	527	537	581	536	
10	530	536	537	539	543	534	545	551	547	542	537	535	542	556	556	547	557	537	549	572	565	567	559	558	
11	550	571	544	554	535	559	570	564	551	547	544	540	540	542	546	545	546	548	551	552	554	555	559	563	
12 *	557	556	553	553	557	562	566	565	560	551	551	554	554	555	560	563	565	563	564	565	566	566	561	568	
13	577	577	547	556	569	555	558	558	553	524	529	525	527	504	533	540	544	543	530	544	551	555	595	548	
14	550	560	562	547	552	560	559	524	541	550	547	526	506	523	529	522	542	546	550	554	555	553	560	576	
15	550	548	550	553	556	554	553	552	549	541	535	544	553	534	538	559	556	550	533	554	556	556	556	559	
16 *	563	558	558	556	559	562	562	560	554	549	542	543	546	547	551	552	556	554	556	557	556	559	554	554	
17	555	561	560	551	561	569	562	552	548	542	539	547	552	551	550	552	559	558	559	560	572	557	551	556	
18	552	553	554	554	556	559	561	564	563	555	557	553	553	553	542	550	516	526	539	561	558	556	577	566	
19	551	553	555	559	556	557	555	559	555	559	552	563	564	555	562	560	550	517	536	526	529	541	549	529	
20	520	540	528	548	556	542	549	535	524	525	523	530	543	546	553	552	550	549	550	554	555	559	559	559	
21	563	563	567	581	576	577	555	535	529	523	535	536	540	536	539	537	531	550	534	543	561	548	538	546	
22	535	540	530	547	544	544	538	530	535	529	514	515	525	536	544	554	549	552	563	566	562	554	549	554	
23	556	544	548	551	553	559	560	559	550	541	534	537	546	552	558	557	543	550	549	558	584	561	551	550	
24	548	545	547	550	559	565	561	560	553	540	534	534	539	535	540	536	549	559	564	563	562	562	559	558	
25 *	559	560	554	556	560	562	567	569	560	548	540	540	541	539	549	555	550	559	563	564	563	563	561	561	
26	561	562	562	565	566	569	573	585	573	541	511	527	561	539	512	538	555	551	565	571	564	562	559	561	
27 *	557	560	558	571	569	556	555	551	541	530	522	523	533	540	544	550	554	555	557	559	560	561	552	554	
28 *	556	558	556	558	556	559	558	556	551	540	535	534	534	531	544	552	560	561	564	570	571	570	570	567	
29	570	574	574	571	567	580	576	573	574	555	542	545	540	540	520	530	549	561	561	561	560	560	564	567	
30	561	562	563	558	559	567	570	571	568	551	540	540	542	552	532	535	549	543	544	545	550	556	556	558	
31	558	556	556	559	561	561	562	566	559	542	538	536	538	535	546	556	561	562	568	566	560	551	556	566	
Mean	548	551	546	548	548	550	552	546	536	533	534	534	538	539	542	545	547	543	547	551	555	551	554	551	
Mean *	558	558	556	559	560	560	562	560	553	544	538	539	542	542	550	554	557	558	561	563	563	564	560	561	
Mean **	533	533	528	527	522	527	530	514	469	501	528	526	528	535	542	533	542	519	525	524	540	524	532	521	
April											18000 γ + Tabular Quantities (in γ)														
1	570	573	571	570	566	583	590	589	575	563	557	561	564	573	551	559	561	560	562	560	564	565	567	568	
2	567	571	569	569	572	580	577	575	562	548	547	526	524	521	509	516	526	514	510	535	536	554	549	565	
3 **	565	551	551	559	557	594	556	545	527	537	531	529	535	540	520	543	554	553	553	570	562	546	586	557	
4 **	562	566	553	543	550	575	540	540	566	539	500	457	501	529	541	536	527	509	483	494	540	536	522	535	
5	539	529	530	529	537	547	542	542	535	515	503	505	508	510	526	527	533	541	543	545	547	550	561	551	
6	544	549	540	545	551	554	554	550	541	530	520	519	529	539	548	552	559	560	557	556	554	562	555	555	
7 *	554	550	549	552	554	556	561	559	550	536	527	524	526	540	544	555	562	562	558	561	560	560	558	560	
8	560	583	610	546	564	562	577	564	550	552	545	540	541	544	550	541	565	534	547	547	554	551	555	558	
9	559	551	545	547	549	550	556	553	550	544	541	528	549	541	550	550	561	572	571	568	562	574	569	564	
10	560	559	559	559	558	560	560	555	550	543	536	533	535	539	545	558	564	573	574	576	576	574	562	555	
11 **	540	550	546	573	548	548	542	525	494	494	492	487	481	491	500	497	521	531	536	541	546	547	546	548	
12	547	549	549	548	549	552	549	547	543	532	527	520	524	527	537	541	542	545	553	557	553	558	556	561	
13	571	556	554	554	556	555	552	550	542	535	525	523	540	571	544	551	536	534	555	550	564	561	568	574	
14	507	563	546	534	533	540	540	527	523	517	510	516	525	536	546	560	558	562	560	558	559	556	553	554	
15	553	553	551	551	550	548	545	540	534	530	526	530	532	544	550	554	556	559	564	564	560	554	559	560	
16	560	560	557	562	567	552	551	541	529	521	521	517	524	529	545	556	560	564	563	561	561	566	547	529	
17 **	529	535	514	543	544	531	505	516	513	499	480	509	516	531	526	535	548	542	544	554	556	556	555	560	
18 **	554	543	547	546	554	554	545	533	532	520	505	511	506	528	542	537	538	551	589	553	543	558	576	558	
19	561	542	542	555	543	551	558	543	532	517	504	526	526	527	544	545	557	567	556	560	562	551	555	558	
20	556	552	556	552	549	553	552	550	541	534	533	532	524	533	541	563	555	559	566	561	561	561	560	560	
21 *	555	554	551	554	555	554	556	552	542	535	528	532	545	555	561	559	556	568	573	564	563	560	561	560	
22 *	559	562	563	562	561	561	562	559	551	548	546	546	549	556	563	566	571	568	570	571	571	571	568	566	
23	566	568	570	570	577	584	581	586	591	575	550	540	548	499	551	543	541	566	574	561	562	558	562	575	
24	552	561	557	553	557	562	564	554	546	533	526	527	541	541	533	550	558	565	566	561	564	561	561	557	
25 *	552	550	550	549	551	551	548	545	541	537	531	530	533	545	553	558	560	563	567	569	569	566	565	562	
26 *	561	559	553	551	557	557	557	557	555	545	539	535	538	541	551	555	561	565	567	571	571	570	570	568	
27	568	568	565	562	561	561	561	561	559	552	558	557	551	558	565	567	573	575	563	537	549	562	565	580	
28	553	546	542	547	534	539	541	532	525	517	517	529	544	551	545	555	559	565	565	561	565	562	571	558	
29	548	552	550	550	551	551	551	544	541	536	534	537	545	553	558	561	562	560	562	563	564	566	570	562	
30	564	561	560	560	565	567	567	568	565	560	559	560	558	541	562	555	548	558	552	555	565	567	572	574	
Mean	555	556	553	553	554	558	555	550	544	535	527	526	532	538	543	548	552	555	557	556	559	559	561	560	
Mean *	556	555	553	554	556	556	557	554	548	540	534	533	538	547	554	559	562	565	567	567	567	565	564	563	
Mean **	550	549	542	553	551	560	538	532	526	518	502	499	508	524	526	530	538	537	541	542	549	549	557	552	

* International Quiet Day. ** International Disturbed Day.

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

U. T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	18000 γ + Tabular Quantities (in γ)																								
1	567	562	579	566	570	583	565	542	545	533	525	525	528	541	548	552	562	567	564	563	562	559	560	561	
2	561	560	558	558	561	552	542	532	533	530	511	512	525	539	542	550	561	559	558	561	558	555	558	556	
3	554	559	553	555	556	548	539	541	539	532	535	532	541	551	553	557	561	565	568	571	569	565	577	574	
4 **	564	560	559	566	564	564	564	559	559	557	553	551	556	565	580	595	577	574	587	578	547	536	515	525	
5 **	537	596	561	551	557	562	548	539	528	518	517	528	531	536	539	550	564	565	567	566	564	574	569	557	
6	558	556	557	556	558	561	565	561	554	545	541	541	536	545	551	555	562	561	571	575	571	568	568	564	
7	561	560	558	561	558	560	564	571	561	556	559	553	553	552	557	567	572	578	579	576	580	577	573	576	
8	570	570	563	562	569	574	575	572	566	562	559	552	551	555	565	568	573	580	585	584	590	591	585	580	
9 *	574	572	574	573	574	575	572	575	574	569	561	558	553	553	556	561	569	574	578	574	572	572	576	573	
10	576	570	573	570	568	570	570	566	567	572	572	575	571	564	561	567	572	577	578	581	587	597	602	599	
11	591	589	582	580	581	580	570	562	561	570	570	575	571	567	571	571	571	575	571	571	573	573	572	572	
12 *	571	570	568	568	570	571	572	570	565	557	555	560	562	562	569	573	584	576	566	568	572	571	569	569	
13 *	565	561	562	561	565	565	563	561	555	546	543	547	545	550	553	557	567	572	575	575	576	580	582	590	
14 **	591	592	597	602	597	575	553	580	555	542	552	551	541	538	533	544	559	575	574	573	566	562	562	564	
15	564	565	569	570	573	568	565	552	547	545	544	545	543	549	562	573	572	579	582	571	567	559	561	557	
16	556	557	559	558	561	563	561	555	553	555	553	554	550	556	560	575	577	589	588	579	570	570	564	567	
17	562	572	568	566	565	562	556	551	548	550	551	553	556	557	567	581	581	578	574	578	571	566	568	565	
18	571	577	572	572	570	565	562	554	555	555	550	550	553	557	564	578	578	584	582	581	576	572	575	567	
19	565	565	566	562	567	566	563	557	551	552	551	548	546	549	556	572	583	587	580	579	578	575	571	570	
20	570	570	570	570	570	564	564	561	566	566	564	561	554	556	568	581	597	588	576	588	589	587	586	573	
21	571	568	572	570	572	571	574	567	559	548	542	537	543	554	560	556	572	581	585	581	572	574	569	566	
22	564	566	570	566	569	570	563	535	543	556	557	550	549	551	553	565	574	585	576	563	552	548	554	562	
23	565	563	559	559	560	564	563	559	553	543	540	548	545	549	549	559	569	590	589	582	583	569	567	569	
24	569	569	569	568	575	571	568	560	555	542	538	539	545	553	558	569	564	579	580	573	575	573	569	573	
25	579	565	566	567	567	561	558	557	561	561	559	561	561	559	558	561	570	578	579	579	578	575	572	569	
26 *	569	567	569	570	569	565	559	550	548	549	555	560	560	558	560	566	568	574	579	580	579	575	576	577	
27 **	577	576	574	577	579	578	573	570	572	574	574	559	565	593	576	595	596	572	577	610	578	574	570	575	
28 **	564	563	557	558	553	537	526	525	521	525	529	538	548	539	557	557	567	564	568	564	571	565	569	574	
29	558	556	551	555	554	548	549	544	538	538	544	544	538	546	555	562	579	578	577	568	568	565	565	566	
30	568	570	579	563	562	557	549	544	539	539	550	551	548	555	561	561	562	570	572	568	569	569	567	563	
31 *	564	559	564	564	565	562	551	544	538	540	544	551	559	566	568	569	576	579	574	574	575	574	574	570	
Mean	567	568	567	566	567	565	560	555	552	549	548	549	549	554	558	566	572	576	576	575	572	570	569	568	
Mean *	569	566	567	567	569	568	563	560	556	552	552	555	556	558	561	565	573	575	574	574	575	574	575	576	
Mean **	567	577	570	571	570	563	553	555	547	543	545	545	548	554	557	568	573	570	575	578	565	562	557	559	
June	18000 γ + Tabular Quantities (in γ)																								
1	577	569	569	568	573	572	568	562	558	556	554	554	560	564	573	578	580	578	580	587	588	584	582	579	
2 *	578	578	578	578	579	576	569	559	558	554	552	557	559	558	563	574	583	586	589	586	582	578	578	577	
3	576	577	578	578	582	582	579	568	555	554	559	568	559	568	558	577	569	590	589	588	577	578	568	561	
4	562	568	561	567	565	561	553	548	549	549	550	558	566	574	572	579	588	587	586	579	579	579	576	574	
5	578	569	564	578	579	579	577	557	544	540	542	544	548	559	569	579	578	579	588	594	592	587	584	580	
6	579	576	568	564	569	569	566	566	568	566	549	547	543	546	558	567	570	578	578	579	578	579	579	580	
7 *	578	578	572	567	562	569	574	569	568	573	568	562	557	551	557	567	568	574	578	579	580	579	578	574	
8	573	573	577	578	576	571	569	565	558	557	560	564	563	551	564	579	587	585	583	581	578	577	574	574	
9 *	574	574	572	574	574	571	565	563	558	552	559	560	558	562	568	575	578	578	581	580	581	579	579	579	
10 *	578	577	577	578	573	566	558	554	556	562	565	565	566	568	575	587	583	579	582	588	590	588	588	589	
11 **	600	594	594	594	588	583	574	572	582	573	563	552	556	558	564	563	593	582	587	570	566	558	565	569	
12	560	558	547	548	542	539	544	542	526	528	525	551	552	556	554	565	559	568	570	570	575	569	573	570	
13 **	566	568	575	564	562	557	551	538	531	530	540	565	574	570	568	578	582	574	591	591	565	561	582	572	
14	568	566	568	557	546	548	538	550	538	529	529	543	545	538	556	562	570	578	565	578	568	568	562	567	
15	568	568	568	568	563	558	544	542	539	539	540	538	539	545	553	560	568	573	576	572	572	572	568	566	
16	570	569	566	568	568	567	563	558	552	541	542	541	548	558	560	578	576	582	589	572	574	572	577	575	
17	579	579	578	579	572	578	569	559	545	539	534	541	537	553	553	572	568	570	582	588	586	580	579	578	
18	583	589	568	580	578	572	562	555	547	533	537	544	552	567	571	574	578	581	581	581	579	575	575	575	
19 **	577	582	572	574	577	578	569	563	559	554	553	559	572	565	556	600	627	622	571	559	565	557	565	562	
20	567	566	572	572	578	575	562	549	538	537	537	531	527	529	549	553	562	578	569	568	574	566	564	564	
21	568	569	571	571	565	563	568	560	551	545	542	548	554	557	562	568	570	576	578	576	574	572	569	568	
22 *	568	568	567	572	576	578	574	565	558	549	547	548	549	559	567	573	576	575	579	579	579	582	584	582	
23	578	578	578	581	585	582	579	574	579	574	568	561	559	562	568	579	585	591	576	574	578	577	577	570	
24	579	583	578	569	564	559	565	568	564	557	556	557	554	553	558	555	573	573	581	581	583	582	583	597	
25	585	579	575	578	574	571	559	555	555	552	548	540	544	556	567	569	563	574	578	582	582	573	568	567	
26	568	572	572	569	569	571	564	559	557	557	562	563	566	570	570	572	574	576	578	578	579	577	574	571	
27	568	564	562	567	566	568	562	558	553	557	554	559	568	568	573	572	574	584	587	586	580	578	577	578	
28	578	579	578	577	575	577	567	549	540	553	561	564	564	568	582	565	568	588	584	581	583	581	579	568	
29 **	581	579	568	568	563	562	555	552	550	540	539	544	549	564	578	589	598	598	584	572	584	584	580	570	
30 **	588	578	573	559	557	579	568	558	534	525	532	540	545	562	562	564	574	575	574	577	570	569	576	581	
Mean	575	574	572	572	570	569	564	558	552	549	549	552	554	559	564	572	577	581	580	579	578	575	575	574	
Mean *	575	575	573	574	573	572	568	562	560	558	558	558	558	560	566	575	578	578	582	582	582	581	581	580	
Mean **	582	580	576	572	569	572	563	557	551	544	545	552	559	564	566	579	595	590	581	574	570	566	574	571	

* International Quiet Day. ** International Disturbed Day.

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	574	562	567	568	578	561	543	551	540	528	511	514	536	544	552	566	577	588	583	576	578	569	563	561	
2 *	561	564	563	567	568	565	561	553	548	546	545	546	547	549	563	568	564	569	577	580	578	580	568	567	
3 *	568	567	569	572	574	570	562	553	548	545	539	545	548	558	572	571	574	577	578	578	579	574	573	572	
4 *	569	568	568	568	569	569	568	563	558	554	552	549	548	552	562	572	577	579	579	582	579	574	574	572	
5 *	572	574	577	580	580	584	578	569	560	560	567	568	558	557	549	572	581	584	594	598	595	587	584	579	
6	578	570	572	577	578	575	575	564	558	558	560	560	558	564	574	590	589	578	582	589	588	584	577	578	
7	570	568	568	568	568	566	558	555	553	549	548	553	558	559	570	568	566	579	588	594	592	589	580	576	
8 **	568	589	588	574	584	565	568	570	537	526	524	537	559	528	540	553	560	568	578	568	581	564	568	575	
9	567	574	547	558	553	555	553	549	540	537	538	548	553	562	559	564	576	588	570	568	575	570	566	563	
10	561	557	557	552	553	550	547	545	543	546	557	561	556	552	556	565	564	573	576	573	580	566	572	593	
11 **	591	584	553	572	580	558	526	559	517	535	537	527	525	528	533	532	528	538	561	565	571	564	559	566	
12	565	559	559	554	556	550	536	533	538	535	515	530	556	563	556	552	554	556	562	576	563	567	561	563	
13	583	563	558	561	567	556	540	535	536	539	539	538	544	551	551	562	550	566	567	569	567	563	563	559	
14	558	564	567	567	568	563	561	561	554	544	547	547	554	548	558	548	557	577	583	585	574	580	575	570	
15 **	567	569	567	571	560	568	561	553	529	526	550	553	550	537	540	567	589	600	590	591	570	567	562	572	
16	574	567	561	559	552	560	552	550	534	523	535	541	547	547	552	563	566	567	564	574	573	577	571	564	
17	565	563	567	568	567	556	558	548	539	546	547	535	544	543	552	558	564	567	585	576	572	567	568	567	
18	566	565	561	561	564	563	559	547	540	544	544	540	551	553	557	564	567	573	577	579	576	571	569	571	
19 *	569	569	563	566	567	567	558	556	552	540	533	532	539	552	555	568	577	581	580	581	578	579	578	578	
20 **	574	569	571	574	577	583	570	587	583	561	541	542	534	561	549	558	571	577	582	587	577	576	556	569	
21	570	559	565	561	561	561	557	547	533	530	533	540	548	557	563	562	561	571	577	577	575	569	567	570	
22	561	563	562	563	567	565	561	553	548	546	535	542	541	558	563	567	574	576	575	575	577	574	580	576	
23	577	567	563	567	564	566	560	554	557	555	557	558	567	572	566	580	575	590	589	579	567	567	575	577	
24	569	578	572	567	580	577	562	562	561	555	556	560	558	559	561	567	561	578	587	588	568	566	561	559	
25	557	564	560	575	583	577	558	560	547	539	539	532	537	531	531	546	547	570	577	561	565	566	577	591	
26	561	557	557	555	553	552	552	557	557	556	556	562	558	554	562	567	570	579	588	595	593	570	572	569	
27 **	561	572	557	558	551	562	550	541	537	523	528	551	530	556	567	574	563	563	585	576	579	570	581	578	
28	570	553	552	556	551	533	546	547	544	547	546	553	550	556	560	564	572	559	567	583	589	572	570	563	
29	571	566	567	558	562	553	547	542	529	525	532	540	546	553	554	559	563	558	564	571	569	565	567	572	
30	584	562	558	561	565	563	554	540	521	522	535	550	564	550	569	575	574	569	577	568	579	573	576	572	
31	564	566	564	568	567	567	567	560	547	531	528	532	528	542	555	566	577	581	573	572	573	576	572	576	
Mean	569	567	564	565	567	563	556	554	545	541	541	545	548	551	556	564	567	574	578	579	577	572	570	572	
Mean *	568	568	568	571	572	571	565	559	553	549	547	548	548	554	560	570	575	578	582	584	582	579	575	574	
Mean **	572	577	567	570	570	567	555	562	541	534	536	542	540	542	546	557	562	569	579	577	575	568	565	572	
August	18000 γ + Tabular Quantities (in γ)																								
1	570	566	562	564	566	573	569	559	547	538	540	546	551	557	558	561	567	568	571	576	573	580	574	566	
2	569	566	566	566	563	565	562	561	558	555	552	554	557	561	558	545	560	570	575	577	587	577	576	577	
3	576	575	566	562	562	560	561	559	559	556	552	549	551	550	555	559	560	571	575	580	582	586	581	577	
4 *	567	562	563	565	570	566	565	561	566	564	556	550	556	555	550	554	565	570	576	576	576	572	569	566	
5	566	575	567	566	566	566	565	563	559	551	546	537	546	557	566	570	570	571	572	579	585	578	582	582	
6	570	573	571	572	572	574	568	563	566	566	565	571	576	574	576	574	534	568	581	574	571	576	566	566	
7	565	572	573	560	560	562	550	529	549	537	526	545	547	552	553	552	551	557	569	575	573	599	571	562	
8 *	561	559	558	561	557	556	552	550	548	545	551	565	566	563	555	552	556	563	566	568	568	566	568	565	
9	565	565	565	562	563	562	562	565	565	566	566	554	546	538	542	552	551	554	561	576	579	576	579	588	
10 **	587	579	582	576	575	559	551	550	548	549	547	540	551	545	571	592	527	576	560	566	561	569	577	587	
11	576	565	562	561	563	565	549	544	529	531	534	525	545	539	550	555	557	561	565	570	569	569	566	566	
12	565	567	559	565	569	557	556	535	529	538	542	554	549	548	554	557	564	573	572	577	571	571	565	562	
13 *	555	563	560	565	568	565	555	549	545	547	552	556	555	556	559	565	569	570	569	569	571	567	574	576	
14	575	569	561	559	561	561	555	553	543	533	540	549	565	565	564	565	566	569	570	570	570	570	568	565	
15	565	566	566	565	564	561	555	549	543	540	554	555	562	559	564	565	570	583	596	589	567	570	575	573	
16 **	600	589	575	555	555	565	560	545	542	543	535	535	538	554	559	574	571	586	574	580	601	553	551	570	
17	553	555	546	544	550	545	547	543	525	527	536	529	549	561	559	566	555	568	564	570	564	585	561	561	
18 **	556	555	556	561	561	559	543	539	539	504	506	515	524	538	527	555	565	565	563	559	555	565	568	574	
19 **	565	567	560	550	554	556	549	540	519	527	531	545	536	556	557	555	541	561	565	569	573	591	614	569	
20	575	564	565	543	556	553	549	545	534	544	529	549	555	545	555	559	564	566	569	557	566	574	570	564	
21	560	560	558	559	557	560	544	547	543	547	554	546	554	553	565	556	559	559	564	565	574	569	571	567	
22	575	561	553	559	555	556	557	555	546	543	545	554	560	559	555	560	556	565	571	573	575	579	591	568	
23 **	552	569	551	555	549	543	545	537	535	531	545	555	581	535	558	556	574	534	550	566	543	550	557	545	
24	541	545	536	544	534	538	540	535	530	532	538	544	551	552	552	554	543	562	562	578	559	572	567	568	
25	554	554	552	563	545	536	524	524	524	530	540	550	550	553	549	556	559	565	571	566	568	570	559	559	
26	559	559	563	557	565	549	554	547	542	545	550	555	558	549	552	558	556	564	574	578	584	566	568	569	
27	565	560	556	554	560	559	540	527	534	524	527	518	539	543	547	553	558	564	574	564	564	563	560	560	
28 *	564	559	557	556	558	555	552	548	536	530	533	540	546	551	552	555	557	564	564	564	565	564	564	558	
29 *	560	563	560	561	564	561	554	550	548	546	544	548	551	555	561	564	571	574	573	566	564	574	564	564	
30	564	564	564	563	562	563	563	556	554	552	553	553	561	578	574	580	590	601	579	578	578	575	580	579	
31	589	580	575	577	578	580	576	573	567	559	549	543	540	554	547	547	548	548	550	563	564	561	566	564	
Mean	567	565	562	560	561	559	554	548	544	542	543	546	552	553	556	560	559	567	569	571	571	572	571	568	
Mean *	561	561	560	562	563	561	556	552	549	546	547	552	555	556	555	558	564	568	570	569	569	569	568	566	
Mean **	572	572	565	559	559	556	550	542	537	531	533	538	546	546	554	566	556	564	562	568	567	566	573	569	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September											18000 γ + Tabular Quantities (in γ)														
1		565	558	560	560	564	563	561	554	546	538	536	550	555	548	554	554	548	540	541	553	556	558	561	563
2		561	563	569	563	565	564	531	551	547	548	537	538	539	544	549	558	573	573	580	579	570	577	568	559
3		551	555	562	567	564	560	559	547	538	534	526	539	545	547	554	557	562	564	568	569	569	569	565	564
4		564	564	560	565	567	568	568	563	556	539	534	538	544	555	568	569	559	561	562	562	564	564	565	566
5		564	565	562	560	580	577	571	560	551	534	532	531	538	540	548	550	547	559	567	564	563	559	558	565
6	**	565	578	570	566	567	561	562	565	544	550	560	548	550	529	504	518	551	560	559	553	556	559	598	557
7		550	554	555	558	550	551	548	547	547	545	538	552	555	555	558	560	548	557	559	561	560	564	574	563
8		558	560	562	556	555	560	558	560	555	547	551	552	554	560	563	562	554	548	558	559	562	561	563	564
9		563	564	566	566	565	562	554	554	544	537	538	540	559	560	565	564	562	554	555	560	562	568	569	567
10		566	573	565	572	565	567	564	550	542	534	533	543	553	551	549	552	553	555	556	560	564	563	569	566
11	**	570	578	571	569	569	568	571	568	560	547	538	550	558	559	564	582	583	584	571	573	554	548	591	601
12	**	554	525	534	558	534	548	526	504	473	462	462	493	511	524	547	550	543	558	556	550	575	582	554	543
13		559	554	550	543	538	542	548	535	528	511	526	535	545	550	561	558	548	558	557	555	553	538	570	565
14		544	548	545	538	536	541	538	530	527	535	535	534	539	535	544	541	553	561	558	590	574	534	565	544
15		551	571	545	548	536	534	543	553	544	543	523	530	545	545	539	554	544	550	567	555	568	560	565	563
16		550	564	573	557	566	552	555	547	541	525	518	534	539	549	560	560	569	548	555	560	571	597	563	559
17	**	550	547	548	559	558	557	546	535	534	524	471	483	516	518	529	528	543	553	568	550	547	590	579	559
18		538	541	547	544	536	538	544	537	539	539	532	540	547	554	545	533	552	545	577	548	570	570	579	567
19		560	547	544	549	553	552	551	547	547	530	528	554	560	541	548	544	547	564	557	556	554	585	568	554
20		564	559	554	554	551	556	560	558	552	544	540	542	515	555	557	550	544	540	550	580	568	559	562	582
21	**	563	557	545	557	534	539	545	540	519	485	520	536	535	546	557	549	534	558	567	561	554	568	570	564
22		560	559	553	548	544	527	543	549	542	530	524	528	526	538	559	559	561	535	554	550	559	577	567	574
23		557	558	551	549	553	552	547	539	535	539	549	555	560	564	562	561	560	560	563	563	563	560	560	571
24		578	553	545	553	553	550	549	550	548	540	540	544	554	556	556	551	553	558	562	559	556	559	560	557
25	*	554	554	555	557	557	556	562	561	556	544	540	539	540	551	554	557	557	555	559	560	560	565	570	575
26	*	563	562	559	561	562	565	567	563	557	544	538	539	543	549	550	542	544	538	563	567	564	566	573	560
27		561	564	566	566	564	564	563	560	553	541	538	534	538	540	540	548	558	565	568	570	564	560	580	558
28	*	558	563	564	563	564	564	563	559	551	544	539	535	532	544	558	563	563	560	567	568	568	562	563	566
29	*	567	561	562	561	565	569	569	566	555	543	535	535	540	547	550	558	568	564	561	567	568	567	567	565
30	*	564	565	565	565	567	570	569	565	558	544	535	546	549	555	560	565	568	570	560	554	561	563	563	566
Mean		559	559	557	558	556	556	555	551	543	534	531	537	543	547	552	553	555	557	562	562	563	565	569	564
Mean	*	561	561	561	561	563	565	566	563	555	544	537	539	541	549	554	557	560	557	562	563	564	565	567	566
Mean	**	560	557	554	562	552	555	550	542	526	514	510	522	534	535	540	545	551	563	564	557	557	569	578	565
October											18000 γ + Tabular Quantities (in γ)														
1	*	561	561	561	563	565	568	565	558	549	544	542	546	552	554	563	563	568	568	569	570	570	573	568	575
2	**	568	560	560	572	581	593	594	589	568	532	547	556	531	504	517	528	521	520	504	519	596	531	531	545
3	**	557	540	539	536	568	539	539	522	529	529	519	512	521	500	523	523	523	537	554	546	523	534	573	567
4		550	537	543	543	533	542	554	533	533	539	529	532	517	525	530	519	522	552	533	536	537	547	561	567
5		536	539	543	544	550	545	540	548	532	528	515	509	525	523	536	529	534	552	555	556	551	553	557	556
6		557	552	550	549	549	551	550	548	536	536	532	535	543	549	550	551	554	556	559	559	552	566	558	557
7		565	563	549	550	558	562	548	563	558	543	536	533	534	523	527	533	548	546	543	544	545	548	564	562
8		552	554	552	552	557	561	563	562	552	540	537	537	537	538	552	553	555	552	529	531	546	556	559	560
9	*	558	559	559	558	557	553	569	567	556	546	547	551	557	559	558	560	564	569	567	566	568	568	566	567
10		568	567	568	570	576	577	576	582	570	563	552	560	561	569	574	576	575	574	572	569	569	557	557	560
11		559	557	557	559	560	559	561	556	552	542	544	547	550	562	564	563	563	576	578	589	543	548	560	563
12	**	563	567	552	555	563	559	559	558	553	541	487	519	513	541	547	533	540	554	560	552	553	554	584	591
13		551	552	553	538	547	546	547	547	541	526	529	536	541	533	537	534	544	554	540	547	555	584	592	553
14		544	538	547	551	548	551	557	554	543	535	530	529	513	526	537	539	550	557	548	583	570	529	523	536
15		543	543	542	547	538	548	570	553	540	528	534	536	535	539	529	535	547	543	556	555	536	567	578	550
16		544	540	544	541	547	549	553	556	544	539	533	535	525	532	544	539	533	550	580	546	579	558	553	560
17		553	549	552	553	556	556	561	560	544	537	539	547	551	552	553	547	549	560	560	559	552	573	555	550
18		550	553	553	553	547	551	553	547	544	539	541	534	542	543	543	538	534	543	530	539	555	557	554	567
19		558	540	556	541	543	547	530	546	544	539	521	523	509	517	528	533	523	563	558	548	552	549	554	553
20		553	555	549	552	554	553	557	554	548	538	533	534	528	540	508	527	504	536	556	559	552	553	552	553
21		553	551	553	552	554	558	559	559	548	545	540	539	538	530	548	542	533	544	552	553	554	549	551	552
22	*	554	554	549	548	553	557	555	549	538	531	532	534	534	541	548	552	557	559	559	556	555	555	559	558
23	*	559	555	554	557	562	564	558	551	542	532	539	540	547	548	556	557	560	555	559	561	562	561	562	563
24	*	563	561	561	562	563	562	560	558	550	542	543	546	552	555	557	556	564	567	566	569	565	564	561	563
25		563	563	562	572	583	584	583	573	583	567	557	554	547	549	548	547	554	554	554	554	553	554	552	554
26		554	555	563	558	557	564	565	566	561	552	545	544	546	547	548.	553	556	561	563	563	571	584	554	560
27		577	577	563	557	563	563	566	570	561	545	538	543	549	554	559	553	556	560	565	565	561	571	565	562
28	**	563	564	564	565	569	571	573	571	563	544	531	544	544	536	523	514	500	487	428	458	475	473	486	490
29	**	541	515	521	524	521	523	495	462	513	501	455	416	460	490	502	522	480	488	531	563	524	532	547	535
30		518	525	524	539	543	530	529	543	512	489	484	499	490	500	499	494	514	505	540	541	549	589	569	557
31		537	534	534	545	537	544	541	534	532	522	506	475	498	501	530	530	515	522	566	541	543	548	552	544
Mean		554	551	551	552	555	556	556	553	546	537	530	530	532	535	540	540	540	547	549	552	552	554	557	556
Mean	*	559	558	557	558	560	561	561	557	547	539	541	543	548	551	556	558	563	564	564	564	564	564	563	565
Mean	**	558	549	547	550	560	557	552	540	545	529	508	509	514	514	522	524	513	517	515	528	534	525	544	546

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November	18000 γ + Tabular Quantities (in γ)																								
1	547	547	548	548	544	554	554	545	530	539	527	521	530	526	535	538	539	548	548	551	548	550	551	553	
2	555	555	545	545	547	559	557	557	549	532	518	517	518	520	522	513	532	522	518	550	561	546	549	555	
3	547	539	541	547	556	559	554	557	554	546	536	529	526	519	529	529	530	525	534	537	562	545	549	545	
4	544	547	547	551	553	563	571	544	549	548	539	517	537	536	542	547	553	557	557	558	563	555	553	566	
5	555	554	552	554	560	562	564	563	553	545	539	540	539	541	541	549	558	562	576	573	573	563	553	549	
6	535	543	553	555	553	559	560	559	553	539	539	543	544	545	547	551	551	557	561	562	562	554	555	561	
7	559	558	559	559	563	560	570	570	562	547	541	542	534	532	542	547	556	562	563	562	553	555	559	560	
8	562	562	561	563	568	570	568	572	560	541	544	549	547	536	559	564	561	563	560	560	535	548	552	552	
9 *	565	550	544	547	552	553	554	553	544	536	537	543	546	553	554	557	553	562	560	557	562	555	558	556	
10	562	561	559	559	559	562	568	569	566	563	564	565	566	554	529	557	555	550	555	555	550	577	554	557	
11	549	559	563	557	564	559	558	559	555	554	552	554	539	560	562	557	559	561	549	564	554	554	560	563	
12	558	559	555	546	558	564	555	559	558	554	544	545	549	552	547	558	559	560	555	560	553	551	561	573	
13	564	550	547	554	561	568	572	573	560	555	550	548	558	554	532	530	548	549	543	549	548	547	553	554	
14	555	546	544	545	550	554	558	562	544	541	538	539	540	545	547	553	562	556	564	553	567	552	547	568	
15	559	557	545	552	556	558	561	564	560	552	547	548	550	554	549	544	547	551	559	577	557	557	557	573	
16 *	572	550	549	555	559	560	565	566	563	554	550	554	555	557	558	559	563	564	560	556	559	560	561	562	
17 *	562	556	556	558	564	564	564	566	562	558	550	550	538	548	540	536	537	542	544	543	544	552	551	544	
18	548	540	549	552	557	560	563	563	549	550	560	556	556	557	554	544	563	564	564	548	545	555	558	556	
19 *	557	558	560	562	565	566	567	575	577	571	565	552	559	561	564	564	564	563	567	562	567	568	570	565	
20	563	559	561	571	568	580	583	586	583	582	569	554	558	556	551	551	549	538	511	536	545	549	542	544	
21	545	547	548	551	555	552	549	559	562	556	553	543	554	553	555	550	556	553	556	551	555	551	554	553	
22 *	554	554	553	555	555	555	555	556	554	553	552	550	553	555	555	556	558	559	561	556	561	569	557	561	
23 **	564	563	566	573	574	575	577	576	575	569	565	557	545	537	536	506	520	539	551	549	536	555	543	535	
24 **	501	568	539	549	589	545	514	492	474	465	487	519	498	494	518	523	534	521	509	516	525	525	534	532	
25 **	548	540	557	541	543	547	543	539	526	519	500	502	519	509	520	500	537	533	535	555	540	565	543	537	
26 **	538	543	559	552	559	542	542	544	530	511	502	521	522	511	514	525	524	541	542	536	564	529	557	557	
27	534	539	540	548	550	549	551	556	545	509	530	524	526	536	534	544	546	547	550	534	526	546	542	547	
28 **	535	537	533	540	543	555	563	549	542	537	519	514	511	529	518	532	519	516	515	516	534	536	541	531	
29	537	529	536	536	541	541	546	545	546	532	525	534	519	526	532	522	538	522	529	541	546	544	536	551	
30	543	542	545	551	559	565	561	556	549	544	544	545	542	533	531	539	539	538	535	531	541	546	548	549	
Mean	551	550	550	553	558	559	559	558	551	543	540	539	539	540	541	542	547	548	548	550	551	552	552	554	
Mean *	562	554	552	555	559	560	561	563	560	554	551	550	550	555	554	554	555	558	558	555	559	561	559	558	
Mean **	537	550	551	551	562	553	548	540	529	520	515	523	519	516	521	517	527	530	530	534	540	542	544	538	
December	18000 γ + Tabular Quantities (in γ)																								
1	554	549	549	552	556	557	561	559	552	546	545	543	538	540	545	554	560	561	551	543	551	554	566	545	
2	560	543	547	551	555	556	556	557	558	551	551	549	549	549	554	555	557	562	558	559	559	559	558	553	
3	553	547	549	550	555	558	561	561	560	556	554	555	550	552	556	555	559	551	555	557	557	559	571	580	
4	549	547	551	554	555	558	555	566	566	564	559	559	561	555	536	529	553	559	556	556	556	555	556	558	
5	551	560	562	554	551	554	556	559	560	555	551	551	556	557	557	553	551	559	559	559	559	559	559	558	
6	557	557	559	563	563	564	565	563	558	555	551	555	557	558	556	562	566	566	560	549	546	551	565	565	
7	558	560	562	565	569	570	569	568	567	559	550	558	554	549	549	545	522	524	524	523	528	527	545	557	
8	544	544	549	554	559	560	567	566	552	551	548	547	549	544	545	530	523	512	522	520	511	534	539	539	
9 **	544	549	545	552	557	558	565	563	562	553	556	554	569	562	530	551	568	539	533	506	514	510	545	534	
10 **	554	550	549	553	528	539	548	544	530	530	531	537	536	538	550	552	549	548	545	540	549	562	545	543	
11	542	545	548	552	554	561	558	553	550	533	532	534	532	522	549	556	556	555	554	552	554	548	551	595	
12	563	538	545	548	554	561	565	565	554	544	537	531	518	528	544	548	561	559	560	558	554	548	543	553	
13	553	552	548	550	551	554	558	558	557	554	549	553	553	555	555	553	547	551	554	553	550	551	550	555	
14	557	557	552	551	558	564	569	573	569	555	546	546	548	550	551	551	547	547	537	547	553	554	551	555	
15	554	553	551	554	559	564	568	568	563	556	552	552	554	562	568	569	570	566	566	568	568	561	556	557	
16	552	546	550	554	558	562	564	569	567	559	555	551	554	556	562	560	554	557	550	554	554	557	563	556	
17 *	554	554	555	557	559	562	569	570	568	566	560	559	558	559	560	562	558	555	558	556	555	556	556	555	
18 *	555	554	556	560	561	563	564	568	571	566	560	564	563	564	568	568	569	568	570	568	567	566	564	561	
19 *	560	559	561	564	566	570	571	570	575	568	563	558	562	565	568	572	572	572	570	569	568	565	566	562	
20	564	558	570	575	570	574	574	571	567	564	557	558	559	564	564	564	564	556	554	554	562	561	557	586	
21 **	554	557	555	564	571	592	584	580	574	552	520	543	497	496	523	534	495	518	523	546	552	551	566	553	
22	546	539	563	570	543	554	554	557	546	545	541	525	540	542	544	548	554	554	549	548	554	554	555	552	
23 **	552	554	554	553	558	564	564	544	533	516	490	491	463	482	481	528	521	498	510	510	532	541	533	539	
24	548	543	537	540	543	546	550	548	544	525	544	538	536	536	505	518	532	536	549	543	549	560	568	538	
25	539	541	558	545	545	548	549	550	545	535	534	536	542	534	530	533	524	522	534	546	542	551	539	539	
26 **	540	542	545	554	573	569	572	549	545	540	538	532	530	534	518	536	535	534	535	535	545	548	527	563	
27	540	544	548	552	560	560	564	559	554	548	541	542	544	545	540	550	552	553	554	550	550	550	546	548	
28	548	549	551	555	562	564	560	559	554	549	548	550	548	545	551	554	555	553	554	555	553	553	553	554	
29	550	552	554	556	558	560	564	564	560	552	549	544	542	542	553	555	551	550	557	556	552	547	547	551	
30 *	550	550	553	555	557	559	560	560	556	550	546	547	552	555	559	560	560	561	561	560	557	552	553	553	
31 *	554	561	554	554	559	563	565	569	564	554	545	545	551	555	558	561	562	562	563	564	564	564	560	559	
Mean	552	550	553	555	557	561	563	562	557	550	545	545	544	545	546	551	550	549	549	549	550	552	553	555	
Mean *	555	556	556	558	560	563	566	567	567	561	555	555	557	560	563	565	564	564	564	563	562	561	560	558	
Mean **	549	550	550	555	557	564	567	556	549	538	527	531	519	522	520	540	534	527	529	527	538	542	543	546	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January													43000 γ + Tabular Quantities (in γ)												
1 *	141	140	140	139	139	139	138	137	137	140	137	137	138	142	143	142	141	140	138	137	137	138	137	137	
2	137	137	137	137	137	135	133	133	132	133	132	131	132	136	139	148	149	156	158	159	165	161	162	157	
3 **	154	149	147	147	146	144	135	131	129	137	137	137	139	144	151	157	156	151	152	155	158	161	157	153	
4 **	150	147	145	140	131	128	133	135	137	137	141	141	141	143	152	163	156	156	153	165	166	162	163	156	
5 **	150	147	141	137	138	142	143	142	140	138	142	145	144	147	151	154	154	158	161	152	150	147	146	140	
6	138	142	142	142	142	139	139	140	139	141	139	141	137	143	147	149	150	153	153	148	147	147	141	133	
7	134	136	139	141	142	141	143	142	138	137	136	135	137	143	148	148	148	148	147	148	145	143	140	140	
8	139	139	139	140	143	142	143	143	143	142	142	138	137	141	143	143	144	144	144	143	142	142	139	138	
9	136	136	137	137	138	138	138	138	139	138	141	138	137	141	144	145	144	144	144	145	144	143	140	139	
10	136	133	135	137	138	138	138	139	138	140	141	138	134	135	139	143	144	148	146	144	144	144	141	138	
11	138	133	134	136	137	138	139	139	138	137	134	132	131	136	138	139	140	142	143	145	147	144	142	141	
12	138	138	135	138	138	138	138	138	138	139	138	139	142	146	147	146	144	143	144	145	148	147	142	141	
13	139	138	138	139	139	139	138	141	142	144	144	144	138	138	140	142	139	142	142	143	144	142	140	139	
14	138	137	134	133	134	133	133	134	134	135	137	133	132	135	138	136	137	137	138	138	138	139	140	138	
15	138	138	139	138	138	136	135	134	132	132	134	136	138	144	146	143	144	144	144	142	142	143	144	143	
16	142	143	143	142	139	138	136	137	134	135	134	134	138	144	147	147	149	157	162	164	166	157	148	148	
17 **	147	141	142	140	139	138	137	137	134	137	140	141	143	148	149	150	148	146	145	143	143	142	142	139	
18 **	138	138	138	137	140	141	142	140	139	138	138	137	137	141	143	143	143	143	142	141	143	145	140	140	
19	138	133	131	137	135	125	127	129	128	132	134	137	138	147	148	148	147	147	145	144	143	142	141	138	
20	137	132	138	140	141	142	142	143	139	139	141	140	140	142	144	143	144	146	144	144	142	141	139	138	
21 *	139	139	141	142	142	142	142	142	138	138	138	138	135	139	140	140	140	143	143	143	143	144	142	141	
22	139	139	138	138	137	137	138	139	134	135	134	134	135	144	148	153	154	154	157	158	158	156	149	144	
23	139	138	138	138	138	139	139	141	138	137	133	135	137	141	143	144	143	147	146	145	144	143	142	141	
24 *	139	138	138	138	140	140	140	141	138	138	137	137	133	133	134	138	138	138	138	138	138	138	137	137	
25	136	135	135	135	134	134	137	138	138	137	138	138	138	139	138	140	138	139	138	140	144	143	140	138	
26 *	140	139	138	139	140	139	140	142	143	141	137	138	139	144	143	141	141	142	142	144	145	143	141	141	
27	139	139	138	138	139	138	138	140	139	140	139	139	139	141	140	139	141	144	144	145	145	145	143	145	
28	143	140	138	135	134	133	135	138	138	135	133	133	132	138	143	145	145	145	143	143	143	145	144	141	
29	140	139	139	139	139	139	139	138	139	136	133	133	132	133	141	146	144	141	141	144	149	153	148	147	
30	145	143	143	141	140	139	138	137	136	133	133	133	131	132	135	139	139	139	139	141	140	142	142	141	
31 *	140	140	139	138	138	137	135	135	133	131	128	127	128	131	138	140	139	137	135	137	138	136	134	136	
Mean	140	139	139	139	139	138	138	138	137	137	137	137	136	140	143	145	145	146	146	146	146	146	143	142	
Mean *	140	139	139	139	140	139	139	139	138	138	135	135	135	138	140	140	140	140	139	140	140	140	138	138	
Mean **	148	144	143	140	139	139	138	137	136	137	140	140	141	145	149	153	151	151	151	151	152	151	150	146	
February													43000 γ + Tabular Quantities (in γ)												
1	136	134	134	134	133	133	133	132	132	131	133	133	133	134	139	139	135	137	134	136	136	136	136	136	
2	135	135	134	132	133	131	130	130	127	130	131	136	134	140	144	150	153	152	146	144	141	140	138	140	
3	139	139	139	139	137	137	137	137	135	135	136	137	136	141	142	141	140	142	141	140	140	138	135	135	
4	135	135	136	137	139	138	137	135	135	134	131	134	136	142	144	141	140	141	140	141	140	137	134	135	
5 **	137	138	138	137	137	136	131	129	126	130	133	138	141	145	149	155	160	165	166	156	150	149	144	141	
6 **	139	138	131	132	128	133	136	138	136	132	134	137	149	149	152	160	173	169	173	179	158	147	142	137	
7	129	131	125	133	141	144	145	149	145	147	142	145	145	149	150	149	147	145	145	145	145	143	141	139	
8 *	137	138	139	139	139	139	140	139	136	137	136	135	135	136	139	141	139	140	140	140	142	140	139	137	
9 *	139	139	139	138	139	139	139	139	137	139	139	135	133	135	139	140	139	140	140	140	140	141	139	137	
10	138	136	135	135	136	139	137	135	132	132	133	133	133	136	137	135	139	148	145	146	147	148	145	142	
11	141	141	141	139	140	139	138	137	131	134	135	138	138	139	141	143	142	147	152	157	158	155	153	149	
12 *	146	145	143	142	142	142	142	143	143	143	144	145	145	144	144	140	137	138	137	139	139	139	139	138	
13	137	137	137	133	135	135	135	134	132	131	132	132	133	134	133	134	132	132	132	133	133	135	135	135	
14	135	135	135	133	135	134	133	130	129	128	133	134	135	138	142	144	140	137	136	137	137	138	138	135	
15	130	132	134	136	136	135	134	129	126	123	121	120	125	130	137	140	139	141	145	154	146	141	139	140	
16	138	133	134	135	137	134	132	131	129	128	126	126	130	133	139	141	139	138	139	137	138	139	141	138	
17	138	139	134	129	131	133	133	134	130	130	131	135	136	136	139	140	139	139	139	139	139	139	137	136	
18 *	136	136	137	136	139	138	136	135	133	135	134	133	133	134	135	136	136	137	138	138	136	136	134	134	
19 *	134	135	135	136	138	138	138	139	138	137	133	132	134	138	139	139	136	135	137	136	134	135	133	135	
20	135	134	135	135	136	137	136	139	137	132	129	127	129	133	139	143	143	145	143	145	145	145	143	140	
21	133	135	135	135	136	139	137	133	130	130	131	128	127	129	129	138	139	139	141	142	140	140	139	139	
22	136	130	130	133	132	133	134	133	130	129	126	125	126	127	131	137	139	140	141	147	152	154	151	147	
23 **	144	136	137	138	135	134	134	135	133	130	130	129	130	135	149	167	209	230	213	213	198	179	151	149	
24 **	153	134	123	134	143	146	145	143	139	138	132	129	132	138	143	146	148	150	148	148	148	149	150	146	
25	138	129	128	134	139	140	139	141	141	142	140	138	137	141	141	143	147	145	145	147	149	142	143	143	
26	134	137	139	139	139	138	138	139	139	139	138	138	136	137	136	137	138	139	140	143	146	146	142	138	
27	137	138	139	139	140	138	138	138	138	132	128	128	129	133	137	142	139	145	148	155	151	161	162	157	
28 **	140	141	145	142	141	143	141	140	139	132	123	123	97	123	155	177	195	191	169	160	153	150	148	149	
Mean	137	136	135	136	137	137	137	136	134	134	133	133	133	137	141	144	147	148	147	148	146	144	142	140	
Mean *	138	139	139	138	139	139	139	139	137	138	137	136	136	137	139	139	137	138	138	139	138	138	137	136	
Mean **	143	137	135	137	137	138	137	137	135	132	130	131	130	138	150	161	177	181	174	171	161	155	147	144	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March	43000 γ + Tabular Quantities (in γ)																								
1 **	141	142	143	144	143	143	143	142	131	188	174	153	166	178	200	189	181	170	176	177	177	175	164	133	
2 **	89	55	69	91	120	135	143	149	148	149	151	149	152	163	170	173	178	170	166	160	154	152	150	149	
3 **	148	146	135	133	137	135	143	147	148	148	156	163	165	179	189	209	225	209	181	169	163	158	153	146	
4	152	148	142	145	145	147	149	149	144	140	141	143	146	152	158	160	164	170	165	159	156	145	144	143	
5 **	141	145	147	149	150	146	135	133	131	134	132	137	139	146	149	153	160	199	229	210	159	154	157	151	
6	154	145	131	122	121	129	139	143	144	147	144	149	157	159	166	172	166	161	155	154	152	151	150	147	
7	148	148	146	144	146	146	143	143	142	139	132	128	128	129	135	149	154	156	150	149	145	150	150	148	
8 **	146	131	121	100	121	134	138	138	139	140	140	139	139	144	150	158	169	176	179	168	161	148	150	141	
9	137	98	87	80	98	128	140	144	144	141	133	126	132	139	148	156	160	169	170	170	166	162	141	125	
10	138	142	141	142	143	144	146	149	148	146	144	140	141	145	147	155	159	158	157	153	150	149	147	147	
11	147	137	132	132	138	136	131	137	139	139	134	135	135	139	143	145	146	148	148	149	149	149	146	145	
12 *	141	141	140	140	143	141	140	145	142	142	137	136	134	133	136	143	145	144	144	145	145	146	145	145	
13	140	123	127	127	117	125	132	139	137	136	134	132	136	141	155	152	155	155	160	161	159	156	140	140	
14	144	142	136	138	140	140	140	140	136	133	130	126	135	144	150	159	163	157	154	152	150	150	145	132	
15	133	140	143	144	143	142	144	145	143	136	134	129	130	138	150	152	148	152	152	150	147	145	144	146	
16 *	144	144	144	144	145	144	144	144	142	137	129	127	132	140	142	146	149	149	148	149	148	146	143	144	
17	145	144	138	141	143	141	140	142	140	134	129	126	130	135	140	146	148	148	147	146	145	139	140	141	
18	144	144	144	144	145	144	142	142	138	134	125	125	129	134	140	152	159	170	167	163	156	154	144	135	
19	140	142	144	144	145	143	141	142	136	131	124	122	127	135	141	150	165	174	174	173	168	160	149	140	
20	133	122	126	124	130	133	138	141	139	135	133	133	133	133	141	150	150	150	150	150	150	148	145	144	
21	144	143	142	132	132	132	134	136	139	131	134	134	138	142	150	160	166	180	171	170	157	148	149	148	
22	144	134	130	135	135	132	136	143	141	137	131	130	126	130	141	151	153	154	152	150	148	148	147	146	
23	140	141	141	140	141	143	145	145	137	134	130	124	121	131	138	149	158	156	155	154	152	143	145	143	
24	141	141	141	141	142	136	136	139	134	128	122	119	118	124	134	143	145	147	148	146	144	143	142	142	
25 *	140	139	139	139	140	141	142	144	139	136	129	126	123	125	133	142	143	145	143	143	143	142	141	140	
26	140	140	139	139	139	139	142	140	131	124	121	122	129	133	133	138	147	156	153	149	147	147	145	144	
27 *	143	142	142	138	132	133	139	143	138	131	123	121	124	128	135	144	144	143	143	146	144	145	143	143	
28 *	140	139	140	140	141	139	140	143	141	137	129	125	126	130	137	143	142	141	140	142	139	139	139	139	
29	139	139	138	138	136	129	134	138	135	131	128	119	121	133	145	152	150	149	146	146	144	146	145	141	
30	141	142	141	140	140	142	141	141	139	135	128	118	113	118	130	141	151	162	163	157	151	148	145	145	
31	143	143	144	143	142	140	141	140	137	136	130	120	111	120	130	140	141	143	141	142	144	145	141	141	
Mean	141	136	135	134	137	138	140	142	139	138	134	131	133	139	147	154	158	160	159	156	152	149	146	142	
Mean *	142	141	141	140	140	140	141	144	140	137	129	127	128	131	137	144	145	144	144	145	144	144	142	142	
Mean **	133	124	123	123	134	139	140	142	139	152	151	148	152	162	172	176	183	185	186	177	163	157	155	144	
April	43000 γ + Tabular Quantities (in γ)																								
1	140	140	140	136	138	135	134	132	129	126	120	114	113	115	122	135	138	141	141	140	139	139	138	136	
2	137	137	137	138	139	135	136	134	126	126	124	126	134	144	154	169	186	187	188	180	161	151	142	142	
3 **	126	135	139	139	131	106	110	116	118	122	122	127	130	140	146	159	154	150	148	146	144	146	143	132	
4 **	135	132	128	133	141	142	135	126	121	117	112	120	128	136	146	169	211	225	219	203	150	159	155	153	
5	146	147	149	150	149	150	151	149	144	139	140	135	132	139	153	153	157	162	159	155	153	151	147	141	
6	141	143	143	145	144	145	150	147	146	142	135	127	126	131	137	142	148	151	151	151	151	147	145	143	
7 *	142	142	143	146	147	147	148	146	143	140	135	129	127	133	140	144	146	148	148	147	146	146	146	146	
8	144	142	120	114	129	131	134	133	138	141	136	125	119	121	130	138	152	165	175	168	159	153	150	146	
9	145	141	142	145	144	144	146	144	142	139	132	130	132	131	141	146	152	150	148	147	148	145	141	140	
10	141	141	141	142	142	143	144	142	140	133	130	122	121	127	134	139	142	142	142	141	142	141	142	147	
11 **	145	134	124	112	108	112	121	127	131	133	133	133	137	149	172	178	176	173	166	162	158	156	154	152	
12	152	152	151	150	150	151	152	152	151	143	137	133	132	137	147	150	153	154	153	152	151	151	148	148	
13	141	142	145	147	147	146	148	151	150	140	134	128	132	143	153	168	178	175	172	159	158	146	132	110	
14	87	56	53	96	128	138	139	143	142	136	135	126	124	131	141	147	147	148	148	147	146	145	146	147	
15	147	147	147	148	148	148	149	147	143	140	132	126	128	132	140	144	147	150	152	151	151	148	147	145	
16	148	147	144	143	140	143	142	139	137	133	131	123	121	128	138	144	151	157	167	166	162	150	139	142	
17 **	135	117	103	90	113	133	133	130	133	131	129	137	139	143	151	172	183	184	179	173	167	162	158	149	
18 **	149	145	144	142	143	139	137	134	127	121	119	121	128	147	169	182	179	175	172	157	156	152	143	127	
19	129	133	135	132	134	140	144	145	145	138	128	125	123	130	143	148	156	160	163	166	158	153	149	148	
20	143	143	140	142	145	147	150	148	145	137	130	123	124	132	141	150	160	165	160	158	155	150	148	146	
21 *	145	146	147	148	148	149	148	146	143	137	128	123	120	127	138	145	150	153	153	153	152	151	147	145	
22 *	147	146	145	144	144	143	145	145	143	133	120	110	109	113	120	129	138	140	142	141	142	141	141	142	
23	142	142	140	139	139	138	137	133	123	112	105	105	104	110	127	139	158	176	178	167	158	152	147	134	
24	129	114	116	129	140	140	142	137	136	129	127	129	132	138	145	150	154	158	158	154	150	148	148	147	
25 *	146	146	147	150	150	150	146	143	140	133	127	120	120	127	136	142	144	146	147	146	144	144	144	144	
26 *	144	144	144	144	144	144	143	141	141	135	128	121	119	125	136	138	143	144	143	144	143	143	144	143	
27	143	143	143	144	144	144	142	134	132	129	124	124	128	129	135	145	153	163	173	176	168	156	151	145	
28	119	106	100	125	132	141	145	144	145	141	134	127	129	139	148	152	152	150	148	147	146	145	145	143	
29	144	146	145	145	145	146	144	141	140	137	130	129	134	137	140	145	148	148	147	145	145	144	145	144	
30	144	144	145	146	144	143	141	135	131	124	115	114	123	128	140	148	154	160	166	160	154	148	147	145	
Mean	139	136	135	137	140	140	141	139	138	133	128	124	126	132	142	150	157	160	160	157	152	149	146	142	
Mean *	145	145	145	146	147	147	146	144	142	136	128	121	119	125	134	140	144	146	147	146	145	145	144	144	
Mean **	138	133	128	123	127	126	127	127	126	125	123	128	132	143	157	172	181	181	177	168	155	155	151	143	

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
May										43000 γ + Tabular Quantities (in γ)															
1	146	146	142	137	135	131	123	122	124	125	121	123	125	132	143	150	154	154	150	147	145	145	144	144
2	144	145	144	147	145	144	142	138	135	128	124	123	130	144	153	165	173	172	168	161	158	154	148	145
3	141	141	140	140	143	144	149	143	135	131	126	123	125	131	139	143	147	147	147	148	146	145	143	139
4 **	139	141	143	142	141	140	139	134	133	129	118	114	118	126	136	146	153	160	167	165	163	153	149	151
5 **	147	110	110	118	124	124	128	129	133	131	130	128	133	138	143	144	147	152	154	156	152	148	139	139
6	137	136	136	136	138	138	140	142	138	135	132	130	130	135	141	143	148	149	151	149	146	143	143	143
7	142	142	142	143	143	143	142	143	138	133	126	119	121	124	133	139	143	145	145	145	143	142	142	141
8	140	140	139	142	141	141	142	140	134	130	125	121	122	129	135	138	143	145	146	143	142	139	139	140
9 *	139	139	139	140	141	141	139	135	133	132	126	119	113	121	132	136	139	139	142	141	140	141	140	139
10	139	139	137	133	133	134	134	133	124	120	119	114	114	115	124	131	138	142	142	139	138	135	135	134
11	133	132	133	134	133	135	134	130	129	126	115	113	121	125	132	133	136	140	139	141	141	139	138	137
12 *	138	137	137	140	141	141	138	134	130	122	112	107	113	117	128	137	147	149	151	149	145	143	143	140
13 *	138	140	140	143	144	146	144	144	141	133	124	115	123	132	135	135	142	143	141	138	137	136	136	137
14 **	136	135	134	136	133	135	135	132	129	126	122	121	121	131	142	151	153	155	154	149	146	144	143	143
15	144	144	144	144	140	136	135	135	134	134	131	123	124	129	137	142	147	151	151	149	152	147	145	143
16	143	143	143	145	144	143	141	137	134	124	115	109	112	119	124	133	139	144	152	152	151	145	143	143
17	143	140	139	139	142	143	143	137	133	128	123	123	124	130	134	137	144	145	151	153	148	145	144	142
18	141	136	133	137	137	138	135	129	123	119	114	110	111	114	124	136	142	145	145	143	143	143	135	135
19	135	136	137	138	139	139	140	137	130	125	121	114	118	123	131	138	145	150	149	147	145	143	141	140
20	139	139	139	141	143	143	143	135	127	119	110	102	109	114	121	124	132	135	141	143	142	139	135	133
21	134	135	126	125	132	133	134	134	133	129	123	117	121	128	138	142	149	152	151	147	144	142	140	138
22	137	137	137	139	141	139	139	138	138	133	126	119	119	126	133	139	148	159	170	173	161	154	151	146
23	139	133	138	143	145	148	149	144	141	132	122	118	121	126	134	142	147	150	152	150	148	145	144	144
24	143	141	139	139	142	142	143	139	137	132	128	124	125	131	134	141	145	149	152	148	148	145	144	138
25	131	133	137	141	140	143	139	135	131	128	118	116	119	123	132	135	139	141	141	143	143	143	142	140
26 *	139	139	139	143	143	142	138	135	131	124	117	113	114	121	132	138	143	143	146	143	141	139	139	139
27 **	141	140	140	141	143	143	135	132	125	116	109	107	111	124	134	146	157	164	164	162	148	141	135	128
28 **	130	135	139	143	142	135	127	129	132	128	122	120	124	132	145	151	157	156	155	153	152	143	143	138
29	137	139	141	144	143	144	142	136	132	127	126	119	119	125	134	141	148	148	146	142	142	142	142	142
30	142	138	131	133	137	137	135	130	127	121	116	112	113	123	133	142	143	143	144	142	142	140	138	140
31 *	140	141	142	143	144	143	137	133	136	133	128	123	125	134	142	144	150	150	148	144	142	142	141	141
Mean	139	138	137	139	140	140	138	135	132	128	122	117	120	127	135	141	146	149	150	149	146	143	141	140
Mean *	139	139	139	142	143	143	139	136	134	129	121	115	118	125	134	138	144	145	146	143	141	140	140	139
Mean **	139	132	133	136	137	135	133	131	130	126	120	118	121	130	140	148	153	157	159	157	152	146	142	140
June										43000 γ + Tabular Quantities (in γ)														
1	138	136	138	142	143	143	142	138	135	126	116	112	113	118	124	131	138	140	142	142	141	138	138	136
2 *	137	137	137	141	141	142	138	133	132	125	119	114	121	128	133	131	133	143	147	146	142	140	137	135
3	134	135	136	141	144	143	138	132	126	118	112	112	113	121	129	141	149	160	159	156	151	147	140	141
4	139	133	136	142	142	142	142	136	137	134	122	114	121	126	130	134	140	143	148	147	144	141	140	140
5	136	132	133	137	139	139	137	136	131	124	124	122	122	123	132	139	142	142	145	141	137	137	136	136
6	135	133	134	141	141	143	143	139	133	122	115	113	119	126	133	138	142	141	143	143	141	139	139	137
7 *	135	134	134	136	136	135	135	133	134	129	131	128	129	133	139	141	143	142	140	141	140	138	139	137
8	136	136	133	134	137	136	133	130	133	132	125	126	126	126	133	135	137	138	140	139	138	137	138	138
9 *	138	137	137	139	138	137	133	130	129	127	121	112	113	118	125	132	136	136	136	136	136	136	136	136
10 *	137	137	137	138	140	139	139	135	130	127	125	123	127	133	134	134	141	143	140	137	134	134	134	135
11 **	135	135	135	134	133	133	133	128	123	119	108	105	103	113	129	139	161	170	177	174	163	149	143	140
12	133	124	129	137	138	141	139	133	134	129	124	126	128	135	143	147	159	164	160	153	147	143	142	139
13 **	141	138	130	132	134	134	139	139	133	127	124	119	117	123	133	143	155	156	156	155	149	145	137	125
14	127	130	126	129	132	135	134	133	133	129	124	115	116	123	133	139	149	153	149	150	144	143	142	140
15	142	140	136	137	136	142	142	134	133	128	123	125	130	132	136	136	142	144	146	148	146	144	143	141
16	141	138	137	140	141	142	143	142	143	135	129	124	125	133	134	136	142	145	144	144	146	143	141	140
17	140	139	140	144	144	144	142	135	134	130	127	126	126	135	137	146	154	154	154	152	147	143	141	140
18	139	128	127	134	136	140	139	137	133	133	131	127	128	130	134	141	145	143	144	144	141	139	139	139
19 **	139	136	137	141	143	143	140	136	129	125	123	115	120	134	144	157	171	180	181	174	165	155	148	144
20	144	144	143	142	136	135	135	133	133	129	132	133	133	135	144	150	154	158	155	154	154	150	147	145
21	144	142	138	138	138	140	142	143	140	135	133	133	134	138	144	147	150	150	149	147	145	144	144	143
22 *	142	142	143	144	144	142	144	142	139	135	134	130	130	132	135	140	143	143	144	144	143	143	143	141
23	139	138	139	140	139	137	135	133	127	122	120	117	112	114	124	129	135	144	152	153	152	147	144	143
24	138	124	119	122	125	127	127	127	129	125	126	123	126	128	133	137	145	145	146	144	141	140	140	137
25	128	125	121	120	122	122	118	119	122	126	126	126	129	133	135	134	136	143	147	150	148	144	143	143
26	142	142	141	142	142	135	134	133	133	132	128	120	122	129	139	141	144	149	152	144	143	139	139	139
27	139	141	142	143	143	137	132	125	124	123	123	123	120	119	129	136	143	143	142	138	137	137	139	139
28	140	139	138	138	139	138	139	139	133	125	123	113	119	130	142	149	159	163	162	157	150	146	146	140
29 **	138	129	127	131	134	136	130	128	124	123	125	125	123	131	135	142	143	145	156	156	152	147	143	143
30 **	139	129	128	128	129	122	121	123	124	123	115	112	114	124	134	145	155	155	154	153	144	143	141	135
Mean	138	135	134	137	138	137	136	133	131	127	124	120	122	127	134	140	146	149	150	149	145	142	141	139
Mean *	138	137	138	140	140	139	138	135	133	129	126	121	124	129	133	136	139	141	141	141	139	138	138	137
Mean **	138	133	131	133	135	134	133	131	127	123	119	115	115	125	135	145	157	161	165	162	155	148	142	137

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
July										43000 γ + Tabular Quantities (in γ)															
1		133	133	134	141	141	139	142	137	136	129	126	124	127	130	139	147	153	154	156	154	149	144	142	140
2	*	139	139	139	143	143	143	144	142	138	125	115	114	123	124	130	136	143	143	147	149	149	141	138	138
3	*	137	138	139	141	139	140	142	142	141	134	129	124	123	125	133	138	142	146	149	145	143	137	140	138
4	*	138	138	138	142	143	143	141	141	137	133	120	112	113	117	123	129	135	142	143	143	141	140	139	137
5	*	138	138	137	138	139	143	138	135	136	131	123	122	120	123	125	133	140	143	145	144	143	142	141	139
6		137	135	137	141	142	143	139	134	133	129	124	118	114	117	122	130	142	144	145	143	143	139	139	137
7		134	134	135	139	139	140	137	139	137	127	123	117	123	123	132	133	137	140	138	139	138	139	141	139
8	**	139	136	125	128	132	129	127	124	123	113	109	113	121	127	139	143	144	152	157	162	153	146	145	137
9		130	129	123	133	140	143	140	137	135	132	131	128	124	126	131	140	149	158	157	152	148	147	144	143
10		139	141	142	143	141	141	143	144	142	133	123	117	124	125	130	135	142	145	143	144	143	143	143	143
11	**	133	118	129	139	138	135	123	114	103	109	112	116	133	149	183	208	202	183	173	171	163	152	154	153
12		151	149	148	147	141	137	137	137	130	126	121	120	126	133	137	143	147	151	149	151	149	148	147	146
13		143	135	143	144	143	142	143	143	143	138	132	128	131	133	138	147	150	155	157	155	152	148	146	145
14		144	144	143	143	144	147	145	142	136	133	133	127	127	131	140	147	154	156	155	153	153	149	144	133
15	**	136	141	143	144	140	141	138	130	127	130	134	124	118	124	133	147	159	173	165	164	159	155	149	143
16		128	128	133	137	143	146	143	140	133	133	134	130	131	129	138	146	152	156	157	158	154	147	137	138
17		137	130	136	142	144	142	137	134	132	129	125	124	130	134	142	145	148	154	158	154	153	146	145	144
18		143	142	143	146	149	150	147	144	141	136	130	128	133	138	144	148	154	156	155	152	148	144	144	144
19	*	144	144	144	144	148	151	148	145	141	134	128	120	123	128	137	144	149	152	150	148	144	144	144	142
20	**	142	141	143	145	146	146	143	142	134	125	120	120	124	134	140	150	155	157	156	154	155	149	146	143
21		124	103	118	128	134	136	140	140	137	133	135	134	137	136	140	145	150	154	152	153	154	152	149	144
22		143	143	143	144	144	145	145	144	145	144	136	130	130	138	145	146	149	150	146	146	146	145	144	140
23		138	133	137	141	142	144	144	142	138	134	128	124	124	131	135	134	134	143	153	153	154	150	147	144
24		144	140	138	138	134	130	135	140	140	134	133	128	126	128	134	139	144	146	150	153	152	150	149	145
25		144	134	134	133	124	126	129	134	134	133	131	128	134	139	151	152	151	153	156	163	159	153	148	134
26		136	143	143	144	144	145	144	140	135	132	132	127	124	129	136	139	142	144	142	143	143	144	146	138
27	**	131	133	137	139	131	134	130	134	136	128	124	122	126	134	140	150	155	154	158	154	153	147	141	124
28		127	134	140	139	138	129	134	134	132	119	122	125	133	139	142	146	153	151	150	153	146	142	141	144
29		139	130	136	140	143	145	145	149	147	146	144	138	135	138	144	148	151	151	150	149	146	144	144	144
30		135	135	140	141	140	144	145	144	142	139	138	137	138	137	142	144	149	153	156	151	149	145	144	141
31		140	134	135	143	144	147	144	140	134	128	123	121	125	133	143	150	152	152	152	148	147	144	143	142
Mean		138	135	137	140	140	141	140	138	135	131	127	124	126	131	138	145	149	152	152	152	149	146	144	141
Mean	*	139	139	139	142	142	144	143	141	139	131	123	118	120	123	130	136	142	145	147	146	144	141	140	139
Mean	**	136	134	135	139	137	137	132	129	125	121	120	119	124	134	147	160	163	164	162	161	157	150	147	140
August										43000 γ + Tabular Quantities (in γ)															
1		140	138	138	140	142	141	144	143	142	138	133	126	129	134	143	145	145	145	146	149	148	145	143	142
2		142	142	143	143	145	146	147	145	142	133	129	123	122	133	138	136	143	144	146	146	144	144	144	140
3		136	134	134	135	139	141	140	138	141	137	134	130	130	134	140	144	146	151	152	151	149	145	141	138
4	*	138	140	141	144	142	141	141	139	135	133	128	123	123	126	134	137	143	143	145	146	146	144	144	144
5		144	140	136	140	143	146	146	143	141	136	131	123	119	117	130	139	144	147	145	144	146	144	144	139
6		139	140	139	141	144	142	140	138	135	130	126	122	123	128	138	147	148	152	154	154	154	149	146	144
7		141	132	129	135	138	140	137	134	130	123	122	120	123	127	135	136	144	149	153	150	149	143	137	138
8	*	141	142	143	144	144	143	142	142	138	130	124	120	123	125	130	134	139	143	144	144	144	144	144	144
9		144	144	144	144	144	144	144	142	135	126	117	110	105	114	126	140	144	152	154	151	145	143	143	143
10	**	143	143	142	140	143	144	144	145	144	136	126	123	127	132	137	150	150	163	174	177	165	154	148	143
11		136	141	144	144	145	144	143	143	142	137	127	121	125	132	142	149	153	154	151	149	144	145	144	144
12		144	144	143	143	143	142	141	140	135	130	125	129	134	144	148	153	156	156	152	151	150	148	147	146
13	*	145	144	141	144	146	147	146	145	143	143	135	128	129	138	143	145	148	147	144	144	144	144	144	140
14		138	137	139	144	147	147	146	145	142	136	131	128	131	138	144	150	153	154	148	144	143	143	142	144
15		144	145	145	144	149	150	150	149	144	144	133	118	115	125	136	142	146	149	148	151	152	154	148	146
16	**	139	133	125	125	123	120	126	131	134	135	132	131	131	136	141	149	153	159	160	159	159	144	146	145
17		134	135	137	142	143	144	148	147	144	144	134	127	133	137	144	153	163	174	171	167	159	145	139	140
18	**	139	144	146	144	148	148	149	146	147	141	141	138	142	158	160	167	163	161	160	160	163	156	152	145
19	**	133	135	138	137	144	146	148	147	144	144	142	138	140	148	146	154	163	171	172	164	156	150	131	124
20		124	126	120	129	134	139	141	142	140	140	129	128	127	135	136	144	150	150	154	161	158	153	150	146
21		145	145	144	143	143	145	147	148	145	142	135	135	134	144	154	156	155	154	151	150	150	149	147	142
22		135	136	140	144	145	144	144	144	136	133	126	124	126	127	133	142	143	146	147	146	147	147	140	136
23	**	129	116	117	120	123	127	135	137	134	128	128	129	134	137	150	176	200	193	184	176	158	154	145	142
24		144	144	140	140	144	145	148	146	144	144	140	138	134	142	152	160	165	170	168	164	158	144	142	135
25		140	145	145	144	134	134	134	141	138	134	125	124	130	140	147	154	152	155	155	153	153	149	142	147
26		148	148	147	144	149	145	145	145	143	141	137	134	137	143	149	154	160	160	158	157	148	143	143	140
27		137	133	140	144	149	149	149	150	148	142	139	138	144	144	154	160	160	160	158	154	154	153	150	150
28	*	149	149	150	151	153	153	153	151	147	145	140	133	133	135	141	148	150	153	152	151	150	150	148	147
29	*	148	150	150	150	151	151	150	148	141	136	137	132	128	133	138	144	145	151	152	150	148	147	144	145
30		146	145	145	146	148	150	152	149	144	139	133	129	127	133	137	141	145	145	139	144	147	145	145	145
31		143	138	140	141	142	140	144	145	144	137	133	131	140	153	164	169	170	171	168	161	159	157	150	149
Mean		140	140	140	141	143	143	144	143	141	137	131	128	129	135	142	149	153	156	155	154	151	148	144	142
Mean	*	144	145	145	147	147	147	146	145	141	137	133	127	127	131	137	142	145	147	147	147	146	146	145	144
Mean	**	137	134	134	133	136	137	140	141	141	137	134	132	135	142	147	159	166	169	170	167	160	152	144	140

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	24^h
September								43000 γ + Tabular Quantities (in γ)																	
1		147	146	148	148	150	150	150	149	146	136	129	127	128	137	148	159	172	180	182	177	168	161	156	150
2		150	150	145	144	148	149	147	141	139	140	132	130	134	144	147	152	154	155	154	152	154	154	138	142
3		145	148	148	147	147	148	151	149	148	143	136	134	135	140	143	149	150	152	149	149	149	149	147	147
4		147	147	145	145	148	149	149	149	146	147	144	138	134	140	141	143	144	150	152	154	151	148	148	146
5		147	146	144	144	140	141	144	148	145	143	139	138	140	144	150	155	152	153	154	154	156	154	152	150
6	**	148	144	138	138	140	141	144	144	142	139	130	131	137	144	154	168	174	168	167	158	155	154	144	131
7		141	144	145	146	147	148	150	148	141	137	135	139	143	145	148	151	156	164	155	152	152	152	148	146
8		148	147	144	140	143	142	142	144	145	146	142	135	137	140	143	148	153	154	151	149	150	150	149	149
9		150	149	148	146	146	146	148	147	142	143	141	142	148	150	151	154	154	154	150	149	149	149	148	148
10		149	147	146	144	140	144	143	140	135	137	134	134	137	143	145	150	153	156	154	152	151	151	148	147
11	**	148	146	145	145	147	147	146	146	141	136	130	130	133	141	139	142	144	154	159	164	164	159	146	115
12	**	101	107	127	130	118	132	131	126	125	140	146	151	154	161	164	168	178	174	160	159	160	145	139	144
13		135	131	135	141	146	149	153	155	154	151	149	145	146	147	152	158	165	168	168	165	163	161	157	138
14		135	135	135	135	145	146	151	149	149	149	145	143	145	146	149	160	172	181	175	161	145	145	140	132
15		130	133	135	141	135	139	145	150	149	150	147	151	151	154	159	173	179	179	176	164	160	154	150	148
16		151	148	139	136	138	136	144	148	148	146	146	143	146	154	153	157	161	166	165	161	158	151	140	139
17	**	135	141	144	147	149	151	151	154	150	148	145	152	155	159	161	175	181	185	178	166	164	156	131	129
18		135	139	141	142	146	152	155	155	155	153	149	146	145	145	151	158	170	169	177	165	161	148	140	132
19		134	135	135	131	135	138	140	142	146	146	142	140	140	144	150	151	161	168	163	160	159	155	145	148
20		147	142	143	145	145	144	146	146	145	146	145	144	143	152	155	159	163	165	162	159	150	149	151	136
21	**	135	138	132	130	134	139	139	149	145	148	152	149	151	169	164	160	170	176	168	158	157	150	149	145
22		147	146	147	147	139	138	142	146	142	138	141	146	151	155	157	156	159	161	159	158	158	154	148	139
23		138	145	148	150	151	150	151	150	144	138	133	134	138	146	150	154	151	151	151	151	151	151	151	151
24		144	144	149	150	150	150	151	150	146	144	141	137	142	147	148	150	153	152	149	150	151	151	149	149
25	*	149	149	150	148	148	149	151	151	143	137	134	133	136	143	143	147	150	154	152	150	151	151	149	147
26	*	146	147	149	149	151	150	151	152	145	139	132	127	128	135	143	152	161	165	161	156	154	152	146	145
27		149	149	149	148	148	146	147	148	146	145	143	141	141	144	148	155	155	155	152	153	153	155	149	149
28	*	150	149	148	148	149	148	151	151	146	144	141	138	140	144	147	154	155	155	153	151	151	152	151	148
29	*	148	146	148	148	150	150	151	154	147	141	134	128	128	134	141	149	155	156	156	155	153	151	149	148
30	*	148	148	148	148	150	150	150	151	147	140	135	134	134	135	140	148	150	153	154	155	155	154	151	149
Mean		143	143	143	143	144	145	147	148	145	143	140	139	141	146	149	155	160	162	160	157	155	152	147	143
Mean	*	148	148	149	148	150	149	151	152	146	140	135	132	133	138	143	150	154	157	155	153	153	152	149	147
Mean	**	133	135	137	138	138	142	142	144	141	142	141	143	146	155	156	163	169	171	166	161	160	153	142	133
October								43000 γ + Tabular Quantities (in γ)																	
1	*	149	149	149	149	151	151	155	156	154	149	145	143	145	147	148	151	154	153	152	152	151	151	150	146
2	**	145	145	146	145	147	145	145	144	140	139	137	135	136	148	160	206	205	207	200	193	167	152	155	151
3	**	145	119	119	119	105	121	133	139	140	143	144	148	158	162	171	193	199	193	175	164	165	157	151	137
4		133	136	139	145	145	146	145	150	154	151	151	155	157	171	176	187	196	186	172	171	168	164	151	137
5		140	141	143	137	146	146	150	152	150	153	154	156	160	166	180	172	168	170	162	160	159	161	157	155
6		149	150	152	152	154	153	156	156	153	151	149	149	150	153	156	159	160	159	157	157	160	158	153	153
7		150	138	133	138	145	146	151	155	152	149	147	147	150	157	162	172	171	166	165	166	167	166	160	152
8		152	153	153	151	152	152	154	155	154	150	147	146	151	157	159	161	165	166	167	172	170	167	160	159
9	*	157	152	150	152	155	156	156	156	155	152	147	147	149	154	155	157	157	156	156	156	156	156	154	153
10		154	153	153	153	153	150	150	150	145	144	140	139	142	146	150	155	154	150	150	151	150	155	155	155
11		154	154	154	154	154	153	155	155	152	145	142	138	137	143	148	156	157	156	154	153	160	167	163	159
12	**	156	149	144	137	143	147	150	151	148	145	137	146	154	163	161	168	175	176	166	165	160	162	157	143
13		140	144	135	140	150	154	156	156	150	148	146	141	145	150	159	167	176	187	172	166	162	156	140	136
14		143	146	147	148	153	155	156	154	151	150	147	146	151	161	169	191	176	168	166	166	152	141	148	148
15		150	150	152	152	151	146	148	150	152	152	148	146	146	152	159	166	172	172	171	166	163	161	140	137
16		146	139	138	147	155	154	157	158	155	148	146	149	153	166	163	167	170	170	167	162	159	156	156	156
17		150	148	150	153	153	148	149	154	152	147	146	145	146	150	157	162	162	162	160	160	162	157	153	155
18		155	156	151	151	150	152	156	158	156	152	149	148	153	159	165	171	172	179	178	176	166	161	158	159
19		142	129	132	141	147	149	152	156	154	149	146	153	160	176	182	201	187	183	171	167	165	166	162	161
20		161	152	154	154	152	152	155	158	156	153	151	153	159	166	175	190	190	182	171	166	162	162	160	160
21		160	159	159	158	160	158	159	161	159	156	152	152	153	157	162	167	172	170	164	161	161	162	160	160
22	*	159	156	156	156	158	157	159	160	158	156	157	156	160	161	162	162	159	159	159	159	159	159	158	160
23	*	158	158	158	157	158	156	157	159	157	154	149	150	152	157	159	160	159	159	159	158	157	158	156	158
24	*	157	156	156	155	156	156	156	156	152	148	145	145	147	151	155	158	157	156	153	155	155	155	155	155
25		154	155	153	150	146	144	140	140	138	134	134	131	137	143	151	157	155	157	157	156	156	156	156	156
26		156	156	151	149	152	150	149	151	148	143	140	142	146	150	155	157	156	158	156	156	154	150	147	150
27		146	139	138	145	150	151	151	152	151	148	145	144	144	152	155	157	157	159	157	157	156	156	152	153
28	**	154	154	152	153	155	154	153	153	151	148	146	143	147	158	169	210	243	250	280	250	221	163	156	133
29	**	133	144	151	146	153	151	156	156	151	158	158	178	197	193	191	193	197	213	197	182	163	151	133	137
30		135	140	137	137	149	147	156	162	161	165	164	166	169	186	195	211	208	198	189	178	171	159	145	145
31		145	145	147	148	156	157	158	167	171	165	163	165	171	179	195	191	187	185	181	171	170	167	155	161
Mean		149	147	147	147	150	150	152	154	152	150	147	148	152	159	165	173	175	174	170	167	163	158	153	151
Mean	*	156	154	154	154	156	155	157	157	155	152	149	148	151	154	156	158	157	157	156	156	156	156	155	154
Mean	**	147	142	142	140	141	144	147	149	146	147	144	150	158	165	170	194	204	208	204	191	175	157	150	140

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November													43000 γ + Tabular Quantities (in γ)												
1	158	157	157	159	159	158	158	161	164	159	157	157	161	168	170	177	173	172	168	168	167	166	164	163	
2	158	153	155	155	157	157	157	160	162	161	157	158	160	167	175	185	188	182	185	181	166	165	166	158	
3	157	157	159	160	161	160	159	163	161	159	159	160	159	169	173	175	178	181	177	176	171	167	166	165	
4	163	163	163	162	164	161	160	161	163	161	161	161	162	165	167	167	169	168	167	166	165	164	163	160	
5	157	155	156	157	159	158	159	164	161	158	157	156	156	161	163	165	163	163	161	161	161	160	164	163	
6	163	163	159	154	159	158	160	162	162	160	160	160	160	164	166	168	164	161	160	161	161	162	163	161	
7	159	157	155	156	157	156	156	154	155	153	156	156	157	165	168	171	167	165	161	163	164	166	165	164	
8	164	161	158	157	155	153	153	151	149	149	149	155	156	161	167	165	161	161	159	161	167	168	163	162	
9 *	158	156	157	159	162	161	161	159	157	157	155	156	158	166	166	164	163	165	161	162	161	159	158	159	
10	157	157	157	157	158	157	157	155	154	152	149	148	151	158	161	166	164	166	166	165	163	160	150	153	
11	155	155	151	151	155	156	156	157	156	155	154	153	156	151	159	163	161	161	161	167	161	160	157	151	
12	149	149	153	154	157	157	157	157	157	156	150	149	152	157	159	164	161	161	161	161	159	158	157	148	
13	145	146	149	153	157	157	157	157	155	152	151	150	149	154	160	171	168	167	170	171	171	165	163	157	
14	153	154	155	158	160	161	158	160	157	159	155	156	157	161	164	167	167	167	171	167	163	155	157	156	
15	148	140	146	149	152	155	157	158	158	156	152	153	157	162	164	166	166	167	165	162	157	158	157	156	
16 *	143	145	150	153	157	156	157	157	156	153	149	149	153	157	158	160	160	160	158	158	159	157	154	154	
17 *	151	151	151	152	154	154	155	156	155	151	152	151	156	160	160	163	166	166	167	167	166	166	162	158	
18	153	152	152	154	156	156	154	155	150	151	152	150	152	156	160	162	160	158	157	158	164	160	158	157	
19 *	156	156	155	154	155	153	152	151	147	145	145	145	147	151	152	154	155	155	154	154	156	155	153	153	
20	153	152	152	150	151	147	146	145	145	142	144	146	150	155	156	157	160	166	174	176	169	166	166	165	
21	163	161	159	158	158	157	155	151	150	150	147	149	153	157	158	160	160	160	159	160	162	162	159	158	
22 *	156	156	156	155	155	155	154	152	148	147	148	151	153	156	159	161	159	160	158	157	155	153	153	152	
23 **	152	153	152	151	153	151	150	148	146	145	142	142	145	156	162	170	180	177	169	167	166	164	137	118	
24 **	115	100	121	118	109	111	129	141	145	155	167	171	175	187	181	176	176	174	177	177	160	161	164	164	
25 **	157	155	144	146	145	147	152	156	157	158	155	163	166	171	179	186	186	178	176	173	169	165	150	155	
26 **	157	156	151	131	137	147	153	156	155	154	155	156	162	175	179	178	180	181	174	171	165	162	158	148	
27	151	154	155	155	156	157	157	159	151	151	155	157	161	165	167	171	166	166	166	167	170	169	163	161	
28 **	159	159	161	161	162	163	164	160	161	159	152	157	164	175	184	188	192	189	184	184	177	171	168	159	
29	153	150	152	156	158	162	164	164	163	160	158	160	160	167	167	172	177	176	177	172	168	166	165	165	
30	160	161	160	160	162	160	160	158	156	156	152	152	157	163	169	171	171	172	172	173	171	168	164	161	
Mean	154	153	153	153	155	155	156	156	155	154	153	154	157	163	166	169	169	168	167	167	164	163	160	157	
Mean *	153	153	154	155	157	156	156	155	153	151	150	150	153	158	159	160	161	161	160	160	159	158	156	155	
Mean **	148	145	146	141	141	144	150	152	153	154	154	158	162	173	177	180	183	180	176	174	167	165	155	149	
December													43000 γ + Tabular Quantities (in γ)												
1	156	156	158	159	162	161	162	161	160	160	155	156	157	162	165	164	163	164	164	167	166	165	160	157	
2	155	156	157	158	159	159	159	157	157	157	157	154	155	158	160	160	162	162	160	162	160	162	160	160	
3	159	158	158	157	160	160	160	159	157	156	152	151	152	156	160	160	162	162	162	162	162	162	162	150	
4	150	155	156	156	157	157	157	156	151	150	147	147	149	153	158	166	167	167	164	165	163	162	161	158	
5	157	157	150	149	155	157	158	157	155	154	153	151	154	157	160	162	162	162	159	159	159	159	158	157	
6	157	157	157	156	155	155	156	155	155	151	149	151	152	157	162	162	159	159	158	158	162	162	159	154	
7	154	155	156	153	155	154	154	154	153	153	153	154	157	160	163	167	172	177	179	182	179	178	170	156	
8	156	159	160	161	162	162	161	161	157	153	151	155	159	164	167	169	177	187	192	192	197	185	171	169	
9 **	168	165	164	160	160	162	162	161	158	157	157	158	160	163	168	173	169	177	192	204	204	198	170	138	
10 **	133	144	144	142	143	154	158	161	158	158	159	158	158	165	168	169	169	169	170	169	169	164	158	161	
11	161	162	162	163	160	158	159	161	159	158	162	160	163	166	169	169	168	168	168	168	167	164	164	154	
12	145	148	155	158	160	160	160	159	157	156	154	155	163	167	169	171	169	169	167	167	164	164	163	161	
13	160	158	159	160	161	162	164	164	161	159	154	154	155	159	162	164	165	168	168	167	167	166	164	163	
14	159	155	155	158	160	160	160	161	156	156	155	155	157	159	160	164	166	171	174	174	172	169	165	165	
15	161	158	159	159	161	162	162	162	161	161	158	157	155	157	158	159	159	160	160	163	162	161	161	159	
16	158	157	158	159	160	159	159	159	156	154	154	156	158	159	161	162	162	166	166	169	167	167	165	161	
17 *	159	159	158	158	159	159	158	158	156	158	158	155	153	159	159	161	160	161	161	161	161	161	160	159	
18 *	159	158	158	156	159	158	157	157	154	150	150	153	155	156	159	159	155	156	156	155	155	155	155	155	
19 *	156	156	155	154	156	156	154	155	154	153	154	154	153	154	154	157	156	156	154	155	156	156	156	156	
20	154	153	152	148	149	150	150	150	152	151	152	153	154	154	156	159	156	160	162	160	160	160	160	159	
21 **	152	155	156	154	153	148	144	144	145	147	151	152	156	172	175	179	179	183	181	174	168	164	162	155	
22	154	152	150	142	145	152	154	156	154	154	156	156	162	167	169	170	167	165	165	167	167	163	161	160	
23 **	160	160	160	159	160	159	156	156	159	163	168	170	182	194	197	207	192	194	196	188	180	174	168	166	
24	162	159	161	163	165	165	164	160	159	162	164	162	163	170	176	181	179	177	174	170	169	164	156	155	
25	159	160	152	151	156	160	163	163	161	159	160	160	159	162	169	170	171	174	174	170	169	169	160	161	
26 **	158	156	154	157	150	147	150	153	152	154	155	156	158	161	172	177	174	174	180	174	174	163	160	154	
27	154	159	161	160	159	158	158	159	158	156	159	159	160	164	164	166	163	166	165	164	165	164	164	163	
28	162	161	161	161	161	161	162	163	161	161	161	161	161	164	166	166	167	167	169	166	165	165	162	162	
29	160	160	161	160	162	161	163	162	161	159	160	158	158	161	163	164	165	167	166	166	166	166	165	164	
30 *	162	161	161	161	162	162	162	163	162	162	161	156	155	157	158	161	161	162	162	162	162	163	161	160	
31 *	160	157	157	157	160	160	161	161	161	161	159	155	154	157	159	161	161	161	161	161	161	161	157	158	
Mean	157	157	157	156	158	158	158	158	157	156	156	156	158	162	165	167	166	168	169	168	168	166	162	158	
Mean *	159	158	158	157	159	159	158	159	157	157	156	155	154	157	158	160	159	159	159	159	159	159	158	158	
Mean **	154	156	156	154	153	154	154	155	154	156	158	159	163	171	176	181	177	179	184	182	179	173	164	155	

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
January	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	29.7	12 45	31.9	27.6	20 50	4.3	556	17 20	567	546	11 37	21	139	13 35	146	136	10 50	10
2	30.8	16 52	41.2	20.6	20 5	20.6	548	6 10	584	495	20 2	89	143	20 20	169	129	10 50	40
3 **	30.1	15 5	35.4	24.1	23 35	11.3	538	5 55	578	510	21 10	68	147	21 20	164	128	8 30	36
4 **	28.1	12 50	35.7	15.7	21 50	20.0	537	4 16	592	482	22 12	110	148	19 45	169	125	5 3	44
5 **	29.7	3 55	34.2	21.6	19 10	12.6	537	18 40	586	498	10 20	88	146	18 35	170	135	23 53	35
6	28.8	16 50	33.3	17.1	18 30	16.2	544	22 20	579	514	18 8	65	143	17 38	160	130	23 48	30
7	28.8	12 54	32.5	24.8	0 10	7.7	546	20 45	558	516	12 5	42	142	15 18	152	132	12 0	20
8	29.6	14 5	32.1	28.2	8 40	3.9	549	23 10	573	535	11 25	38	141	17 50	146	135	12 50	11
9	29.4	12 53	31.9	22.0	24 0	9.9	553	3 43	569	537	11 30	32	140	17 30	148	135	12 45	13
10	29.0	12 30	34.1	21.5	0 23	12.6	551	22 12	572	521	17 12	51	140	17 40	150	131	12 40	19
11	29.7	11 38	34.5	24.9	20 10	9.6	548	5 50	562	525	12 35	37	138	19 42	148	130	1 48	18
12	29.3	12 35	33.4	17.6	20 33	15.8	550	20 46	565	525	20 23	40	141	20 48	152	134	2 30	18
13	29.7	12 45	33.7	27.4	8 43 / 18 40	6.3	551	23 4	561	527	11 35	34	141	10 20	145	134	13 5	11
14	29.6	13 0	32.9	23.2	22 48	9.7	561	22 50	574	546	10 50	28	136	22 10	144	130	12 2	14
15	30.0	15 30	37.1	27.3	22 5	9.8	550	6 42	573	530	16 5	43	139	17 30	148	127	9 5	21
16	29.9	15 50	37.5	20.8	20 18	16.7	541	7 0	563	500	20 7	63	145	20 20	167	132	11 5	35
17 **	30.5	10 32	37.2	23.3	1 36	13.9	544	5 7	573	493	9 58	80	142	15 2	152	131	8 35	21
18 **	28.1	12 26	32.5	11.3	22 2	21.2	544	21 33	569	504	2 40	65	140	21 25	154	135	9 10 / 11 36	19
19	29.6	5 11	40.1	25.2	23 45	14.9	546	5 45	581	520	0 10	61	138	15 10	149	120	5 30	29
20	29.5	12 50	33.3	26.2	0 0	7.1	547	22 25	561	526	11 0	35	141	17 50	148	131	1 40	17
21 *	29.1	10 58	40.1	25.5	21 30	14.6	552	17 30	560	538	21 16	22	141	17 35	148	134	12 5	14
22	29.1	14 8	34.8	23.5	21 20	11.3	541	5 45	571	517	13 25	54	144	20 52	159	132	11 0	27
23	29.6	15 30	33.2	24.1	0 5	9.1	548	6 12	565	528	14 40	37	140	17 32	148	132	10 50	16
24 *	28.9	14 5	31.2	23.9	22 30	7.3	555	20 21	567	540	11 35	27	138	7 20	142	129	13 5	13
25	29.1	13 33	33.1	27.0	23 57	6.1	554	16 5	571	533	19 50	38	138	21 0	147	132	5 2	15
26 *	29.0	13 3	33.6	26.2	8 55	7.4	550	16 10	562	529	11 35	33	141	21 5	146	133	10 50	13
27	29.3	12 30	34.3	24.7	23 15	9.6	554	14 50	566	539	9 16	27	141	18 25	147	133	8 50	14
28	29.0	13 30	36.0	24.7	2 30	11.3	549	7 40	575	526	10 35	49	139	16 20	148	130	10 1	18
29	28.8	14 30	32.6	24.2	23 0	8.4	548	15 50	563	518	20 45	45	141	21 10	154	128	13 0	26
30	29.4	14 5	35.6	25.1	2 3	10.5	555	15 10	574	541	10 3	33	138	0 20	146	126	13 2	20
31 *	29.3	13 10	32.3	27.2	8 40	5.1	560	8 28	572	552	2 10	20	135	15 20	142	125	12 12	17
Mean	29.4	-	34.6	23.4	-	11.2	549	-	571	523	-	47.6	141	-	152	131	-	21.1
Mean *	29.2	-	33.8	26.1	-	7.7	555	-	566	541	-	24.6	139	-	145	131	-	13.4
Mean **	29.3	-	35.0	19.2	-	15.8	540	-	580	497	-	82.2	145	-	162	131	-	31.0
February	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	29.3	12 50	33.5	27.0	23 16	6.5	565	12 52	585	553	21 20	32	135	15 30	140	130	12 10	10
2	29.3	12 41	36.5	24.1	16 10	12.4	552	5 10	579	510	14 40	69	138	16 22	157	126	8 50	31
3	28.9	3 5	32.1	27.1	18 5	5.0	552	4 40	563	535	11 40	28	138	17 32	144	134	12 46	10
4	29.5	13 5	33.5	26.6	8 50	6.9	556	22 58	575	536	11 0	39	137	15 20	147	130	10 35	17
5 **	29.5	12 40	37.4	6.4	18 25	31.0	546	18 38	586	502	18 6	84	143	18 30	176	126	8 20	50
6 **	26.7	12 33	36.7	11.8	19 50	24.9	526	19 59	575	467	11 50	108	146	19 25	183	125	4 18	58
7	28.5	1 58	35.5	26.1	3 18	9.4	544	1 53	570	523	10 50	47	142	14 25	152	123	2 18	29
8 *	28.9	12 8	31.5	25.6	23 15	5.9	552	8 2	565	538	11 38	27	138	15 35	143	133	13 5	10
9 *	29.1	12 8	32.7	26.8	0 0	5.9	554	22 4	565	542	0 3	23	139	15 20	143	130	12 55	13
10	29.3	13 38	32.8	22.8	17 15	10.0	554	9 5	570	526	13 2	44	138	17 30	150	130	13 0	20
11	28.8	12 43	34.7	21.6	21 20	13.1	544	8 5	562	506	19 41	56	143	20 10	160	128	8 20	32
12 *	28.9	12 52	31.1	26.9	7 15	4.2	552	19 40	565	538	10 45	27	142	11 30	147	135	18 10	12
13	29.2	2 48	34.3	26.9	7 23	7.4	559	6 50	575	541	11 0	34	134	2 5	138	129	11 0	9
14	28.8	11 13	33.4	21.3	22 15	12.1	559	7 10	574	537	22 40	37	135	15 20	148	126	9 50	22
15	27.9	12 9	34.1	21.4	0 36	12.7	549	8 5	585	493	18 40	92	135	19 15	156	118	10 50	38
16	28.4	1 8	32.3	17.9	22 3	14.4	555	1 6	586	533	15 1	53	135	22 25	143	125	11 0	18
17	28.4	12 10	32.9	22.5	3 20	10.4	555	3 10	574	547	10 20	27	136	15 20	143	127	3 20	16
18 *	28.7	11 35	32.3	25.8	7 0	6.5	554	6 50	564	541	10 0	23	136	17 55	140	131	8 25	9
19 *	28.9	13 20	33.3	26.1	22 55	7.2	561	19 31	578	548	10 5	30	136	15 20	141	131	10 50	10
20	29.2	12 22	35.3	25.6	23 38	9.7	553	23 50	577	527	9 45	50	138	21 15	147	125	11 40	22
21	27.4	13 42	38.8	19.7	4 0	19.1	548	5 50	562	508	13 50	54	135	19 45	143	124	14 5	19
22	28.6	18 30	33.7	24.0	5 59	9.7	551	11 50	561	530	21 39	31	136	21 0	155	124	11 10	31
23 **	28.2	16 20	44.5	2.1	20 50	42.4	533	13 32	588	449	20 50	139	156	17 10	251	127	11 40	124
24 **	28.2	1 30	38.9	19.9	2 45	19.0	531	22 53	571	489	1 58	82	142	0 15	154	116	1 50	38
25	26.4	0 55	31.6	12.2	23 33	19.4	544	20 38	608	521	2 40	87	141	20 34	157	125	2 16	32
26	27.6	13 20	30.6	23.4	0 16	7.2	546	22 50	563	534	0 14	29	139	20 20	147	134	0 12	13
27	27.9	17 28	34.0	20.6	23 30	13.4	548	23 57	583	515	20 46	68	141	21 42	164	126	11 0	38
28 **	28.0	14 32	40.6	19.8	4 25	20.8	539	0 0	582	473	17 15	109	147	16 35	203	89	12 30	114
Mean	28.5	-	34.6	21.5	-	13.1	549	-	575	520	-	54.6	139	-	156	126	-	30.2
Mean *	28.9	-	32.2	26.2	-	5.9	555	-	567	541	-	26.0	138	-	143	132	-	10.8
Mean **	28.1	-	39.6	12.0	-	27.6	535	-	580	476	-	104.4	147	-	193	117	-	76.8

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Mimimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
March	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ+	U.T. h m	18000 γ+	18000 γ+	U.T. h m	γ	43000 γ+	U.T. h m	43000 γ+	43000 γ+	U.T. h m	γ
1 **	26.8	7 51	74.8	-11.3	9 30	86.1	528	9 59	706	194	8 50	512	161	9 59	223	105	8.17	118
2 **	25.3	0 24	40.6	10.0	2 25	30.6	518	16 40	579	458	1 44	121	141	16 40	183	47	1 45	136
3 **	28.2	8 2	38.2	8.3	17 7	29.9	515	17 14	587	439	9 40	148	162	16 39	236	130	3 0	106
4	27.9	13 55	33.4	18.4	17 24	15.0	530	20 48	583	499	9 10	84	150	17 35	179	139	9 5	40
5 **	28.0	19 50	38.4	5.7	17 46	32.7	529	15 25	603	434	17 30	169	154	18 25	243	129	8 32	114
6	28.9	12 55	34.4	25.0	15 10	9.4	529	22 47	563	487	9 26	76	148	15 30	176	117	3 55	59
7	27.5	14 51	34.2	22.6	23 54	11.6	551	20 38	594	513	11 20	81	144	17 5	159	125	13 0	34
8 **	26.3	3 0	35.3	12.4	20 3	22.9	536	20 17	615	505	2 49	110	145	18 53	184	92	3 30	92
9	25.8	12 32	33.9	8.5	2 38	25.4	535	1 23	617	495	3 55	122	137	17 52	174	75	3 32	99
10	28.3	14 11	33.7	21.6	0 0	12.1	548	19 22	592	516	11 33	76	147	16 55	163	133	0 0	30
11	27.5	1 3	32.3	20.7	3 50	11.6	551	1 25	581	528	4 52	53	141	1 1	152	127	2 0	25
12 *	28.0	13 18	32.1	23.1	23 55	9.0	560	23 25	575	545	9 40	30	141	16 25	147	130	12 55	17
13	28.4	13 15	40.7	18.0	21 55	22.7	548	22 23	633	489	13 38	144	141	19 2	161	114	4 37	47
14	29.0	8 25	41.2	25.1	3 11	16.1	546	23 15	602	492	12 41	110	143	15 50	165	124	11 40	41
15	27.7	13 20	35.4	23.1	0 40	12.3	550	23 4	562	512	13 35	50	143	17 30	154	124	12 1	30
16 *	27.8	13 15	32.8	23.8	19 20	9.0	555	0 20	566	539	10 58	27	143	16 25	150	125	10 57	25
17	28.1	1 53	33.0	24.7	21 30	8.3	555	20 35	590	536	9 41	54	140	20 30	152	124	11 40	28
18	28.4	13 31	36.4	17.0	21 4	19.4	553	22 54	593	500	16 32	93	145	17 20	172	116	10 52	56
19	27.8	16 17	36.6	12.2	23 50	24.4	550	12 10	570	498	19 53	72	146	19 20	176	120	11 5	56
20	26.7	13 20	33.2	12.4	0 2	20.8	544	21 42	561	495	0 13	66	139	18 25	153	118	1 8	35
21	28.1	12 35	37.0	16.0	17 10	21.0	548	3 50	587	512	17 3	75	146	17 20	184	126	3 57	58
22	27.2	13 43	35.4	20.1	0 23	15.3	542	23 59	579	501	10 31	78	141	17 20	156	122	12 40	34
23	28.1	13 40	36.1	19.8	20 28	16.3	552	20 33	602	529	11 5	73	142	16 30	161	118	12 40	43
24	27.5	14 8	35.4	22.8	8 38	12.6	551	18 30	569	520	11 39	49	137	18 28	149	116	12 45	33
25 *	27.7	12 59	36.0	23.0	8 10	13.0	556	7 18	572	529	13 12	43	138	17 50	147	120	13 1	27
26	29.4	13 49	41.5	20.1	8 48	21.4	556	16 15	599	471	16 48	128	139	17 22	162	119	10 5	43
27 *	27.4	13 30	35.1	21.3	8 25	13.8	551	3 39	584	516	11 14	68	138	19 20	149	119	10 50	30
28 *	27.8	12 54	33.2	22.7	9 15	10.5	555	20 5	574	524	13 1	50	138	15 38	146	121	11 56	25
29	28.0	14 32	37.7	22.4	8 15	15.3	559	5 28	583	501	14 40	82	138	15 35	153	118	11 40	35
30	27.3	13 50	36.4	20.0	17 35	16.4	553	7 10	579	507	17 30	72	141	17 50	172	109	12 48	63
31	27.6	12 57	36.8	20.1	20 43	16.7	555	23 40	592	523	11 30	69	137	17 30	149	108	12 33	41
Mean	27.7	-	37.1	17.7	-	19.4	545	-	590	494	-	96.3	143	-	168	116	-	52.3
Mean *	27.7	-	33.8	22.8	-	11.1	555	-	574	531	-	43.6	140	-	148	123	-	24.8
Mean **	26.9	-	45.5	5.0	-	40.4	525	-	618	406	-	212.0	153	-	214	101	-	113.2
April	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ+	U.T. h m	18000 γ+	18000 γ+	U.T. h m	γ	43000 γ+	U.T. h m	43000 γ+	43000 γ+	U.T. h m	γ
1	27.1	13 43	35.2	21.6	8 33	13.6	568	7 10	595	538	14 23	57	133	17 20	146	108	12 58	38
2	28.3	13 9	39.6	16.4	21 31	23.2	547	23 59	609	490	14 5	119	147	18 25	190	121	8 50	69
3 **	28.2	4 48	40.2	8.8	22 18	31.4	551	22 24	616	505	14 35	111	135	15 20	162	103	5 30	59
4 **	27.1	20 18	42.2	-1.3	19 59	43.5	531	20 5	652	431	11 17	221	150	17 30	237	107	10 56	130
5	26.4	13 10	32.3	21.1	8 18	11.2	533	22 0	566	496	13 26	70	148	17 32	167	128	12 5	39
6	26.6	13 35	33.0	22.4	9 12	10.6	547	21 12	576	516	11 8	60	143	17 22	154	122	12 0	32
7 *	26.3	13 58	32.7	21.8	9 18	10.9	551	21 7	566	519	12 18	47	143	7 0	149	125	12 0	24
8	26.1	14 50	37.4	12.5	3 33	24.9	556	2 15	624	505	17 15	119	140	18 25	176	106	2 58	70
9	26.4	13 10	33.1	22.2	21 22	10.9	554	21 25	585	519	11 35	66	142	16 25	155	126	11 5	29
10	26.4	13 30	33.2	17.4	23 45	15.8	557	21 15	581	530	11 50	51	138	23 25	153	118	12 30	35
11 **	25.7	12 31	37.7	11.0	3 40	26.7	526	3 7	590	458	13 25	132	144	15 30	182	103	4 30	79
12	26.4	15 10	33.8	19.4	8 20	14.4	544	24 0	570	512	11 5	58	148	16 59	157	130	11 50	27
13	26.1	13 30	39.2	15.4	20 45	23.8	551	22 37	618	507	11 15	111	148	16 14	182	100	24 0	82
14	25.5	13 8	33.1	13.7	0 34	19.4	541	15 38	604	475	0 50	129	129	15 35	159	44	2 14	115
15	26.2	13 40	32.7	21.0	9 4	11.7	549	18 45	569	525	9 49	44	144	18 20	154	124	12 0	30
16	25.7	13 12	35.6	15.9	24. 0	19.7	548	21 16	587	512	12 12	75	143	18 35	169	116	12 5	53
17 **	25.1	14 42	37.8	2.1	1 58	35.7	531	23 2	589	467	10 24	122	144	16 45	188	80	3 18	108
18 **	27.4	13 4	37.3	16.5	18 42	20.8	543	18 29	615	489	10 35	126	146	15 20	187	117	10 36	70
19	25.7	13 19	34.7	19.6	19 50	15.1	545	0 9	574	494	10 29	80	143	19 15	169	120	12 8	49
20	26.6	13 23	36.4	20.2	8 50	16.2	550	17 50	573	516	12 36	57	145	17 25	167	120	12 2	47
21 *	26.1	13 25	32.2	21.1	7 57	11.1	554	18 50	576	524	10 24	52	143	18 20	155	117	12 3	38
22 *	26.5	14 40	33.2	20.9	8 37	12.3	561	16 3	576	544	11 0	32	136	6 4	148	105	11 50	43
23	26.0	12 44	37.5	16.6	19 15	20.9	562	17 7	596	486	13 24	110	138	18 30	183	99	13 1	84
24	26.7	0 36	36.2	20.5	7 45	15.7	552	17 52	575	521	10 27	54	140	18 0	160	112	1 40	48
25 *	25.4	13 34	31.1	20.2	7 6	10.9	552	19 0	571	526	12 0	45	141	5 35	151	114	12 0	37
26 *	25.5	13 5	31.0	20.3	7 2	10.7	556	20 8	574	534	11 9	40	139	19 32	145	117	12 7	28
27	25.9	15 0	31.3	19.6	19 45	11.7	562	23 59	612	529	19 41	83	145	18 59	178	122	10 58	56
28	24.7	13 5	32.9	12.6	1 32	20.3	547	0 0	611	512	10 14	99	138	16 30	155	84	2 6	71
29	25.9	13 5	31.2	21.8	22 59	9.4	553	22 19	575	530	10 30	45	142	16 50	150	128	11 42	22
30	26.6	14 39	36.6	21.2	6 24	15.4	561	22 58	585	534	13 20	51	142	18 40	170	108	11 10	62
Mean	26.3	-	35.0	17.1	-	17.9	549	-	590	508	-	82.2	142	-	167	111	-	55.8
Mean *	26.0	-	32.0	20.9	-	11.2	555	-	573	529	-	43.2	140	-	150	116	-	34.0
Mean **	26.7	-	39.0	7.4	-	31.6	536	-	612	470	-	142.4	144	-	191	102	-	89.2

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Mimimum		Range	Mean Daily Value	Maximum		Minimum		Range
May	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	25.5	13 59	32.8	18.3	6 50	14.5	555	5 28	589	517	11 51	72	138	16 30	158	120	10 45	38
2	27.1	13 50	35.5	20.9	23 40	14.6	547	19 31	571	503	10 30	68	147	16 20	176	118	11 17	58
3	24.9	13 50	30.0	20.0	8 12	10.0	554	23 9	581	528	9 50	53	140	6 40	151	122	12 10	29
4 **	24.7	15 32	36.6	12.6	22 3	24.0	561	15 31	614	507	22 30	107	142	18 38	171	112	12 0	59
5 **	23.2	13 32	31.7	6.6	1 42	25.1	551	1 8	646	513	10 5	133	136	19 25	157	91	1 32	66
6	25.0	15 10	31.3	18.1	0 51	13.2	558	19 7	581	531	12 21	50	140	18 30	154	128	12 2	26
7	25.8	13 55	29.1	22.3	8 26	6.8	565	18 12	583	548	11 42	35	138	17 25	149	116	11 40	33
8	26.7	13 5	32.9	22.1	8 20	10.8	571	20 31	598	548	12 30	50	137	18 16	149	118	12 5	31
9 *	25.4	13 51	30.1	20.0	8 12	10.1	569	18 20	580	548	13 20	32	135	18 20	145	110	12 10	35
10	26.5	13 40	32.0	21.9	6 24	10.1	575	23 40	616	553	15 0	63	131	18 15	144	106	11 40	38
11	26.0	12 30	31.1	21.1	6. 7	10.0	574	0 14	619	557	8 30	62	132	17 25	143	111	11 32	32
12 *	25.4	12 30	30.5	20.5	7 25	10.0	568	16 27	588	554	10 20	34	135	17 55	153	106	11 12	47
13 *	25.7	13 25	31.4	21.0	6 50	10.4	563	23 40	592	540	10 15	52	137	5 20	147	115	11 45	32
14 **	26.0	14 10	32.2	18.7	5 28	13.5	566	3 38	620	527	14 39	93	138	17 25	160	116	12 0	44
15	26.0	13 55	33.6	19.9	20 33	13.7	562	18 42	587	538	12 50	49	140	20 35	153	120	11 50	33
16	25.1	12 25	30.1	19.8	7 45	10.3	564	17 30	590	543	12 40	47	137	19 50	154	105	12 0	49
17	25.7	14 8	32.4	19.8	7 10	12.6	564	16 15	584	544	8 45	40	139	19 15	158	120	11 40	38
18	25.8	13 55	32.4	20.1	7 59	12.3	568	17 35	589	542	10 35	47	132	18 18	148	108	11 50	40
19	25.6	13 30	31.8	21.6	8 38	10.2	565	17 18	594	544	12 40	50	136	17 25	153	113	12 2	40
20	25.0	16 16	33.8	18.1	7 5	15.7	572	17 35	610	547	17 45	63	131	19 58	145	102	11 35	43
21	25.9	14 40	32.2	20.5	8 35	11.7	565	19 5	591	533	11 33	58	135	17 26	154	116	11 40	38
22	25.0	17 32	30.9	17.1	20 22	13.8	560	17 10	595	514	7 58	81	142	19 15	176	117	12 0	59
23	24.8	14 57	29.6	19.4	7 41	10.2	562	17 52	602	536	10 28	66	140	18 30	154	115	11 45	39
24	24.4	13 32	30.7	18.0	7 44	12.7	564	17 58	591	533	11 10	58	140	18 15	154	122	11 45	32
25	25.6	13 15	30.2	20.7	6 50	9.5	567	0 9	595	547	14 29	48	135	5 45 / 20 20	143	113	10 53	30
26 *	25.5	13 5	31.5	19.4	7 40	12.1	566	20 3	583	543	8 55	40	135	18 15	149	110	11 32	39
27 **	25.8	13 55	36.4	14.1	19 1	22.3	578	19 10	645	539	11 13	106	137	19 5	175	102	10 55	73
28 **	26.0	12 52	33.1	21.2	3 40	11.9	552	23 10	590	511	7 51	79	139	16 25	159	119	11 5	40
29	25.0	12 30	30.2	19.9	7 10	10.3	556	16 49	586	532	8 40	54	138	17 30	152	114	12 0	38
30	24.0	13 50	29.7	18.6	6 50	11.1	560	2 6	586	532	8 55	54	133	17 10	146	109	18 55	37
31 *	25.6	13 35	32.5	20.2	7 34	12.3	563	17 20	585	535	8 35	50	139	16 50	152	122	11 46	30
Mean	25.4	-	31.9	19.1	-	12.8	563	-	596	535	-	61.1	137	-	154	113	-	40.8
Mean *	25.5	-	31.2	20.2	-	11.0	566	-	586	544	-	41.6	136	-	149	113	-	36.6
Mean **	25.1	-	34.0	14.6	-	19.4	562	-	623	519	-	103.6	138	-	164	108	-	56.4
June	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	25.6	12 57	32.5	18.2	5 47	14.3	571	18 45	594	549	10.55	45	134	18 38	144	109	12 0	35
2 *	26.0	14 26	32.0	20.1	5 53	11.9	572	18 5	591	548	10 25	43	135	18 2	149	112	11 43	37
3	26.2	15 42	34.8	20.1	5 54	14.7	572	17 42	600	534	13 0	66	137	17 14	162	109	11 58	53
4	25.3	13 53	30.3	20.4	8 5	9.9	568	17 8	594	545	7 15	49	136	18 5	149	114	11 31	35
5	25.5	16. 2	32.1	18.6	5 35	13.5	570	16 4	608	536	9 28	72	134	18 3	149	120	11 55	29
6	25.9	13 40	31.3	20.7	7 46	10.6	568	23 30	585	539	12 2	46	135	18 20	145	111	11 15	34
7 *	24.9	13 52	29.1	21.1	9 10	8.0	570	20 10	584	546	13 37	38	136	16 40	145	127	9 40	18
8	25.4	12 43	31.0	20.3	5 38	10.7	572	17 0	590	541	13 18	49	134	18 17	144	123	10 30	21
9 *	26.0	13 0	31.5	19.4	6 33	12.1	571	20 53	584	550	9 10	34	131	16 36	140	110	11 50	30
10 *	26.1	12 30	33.3	19.8	7 38	13.5	575	19 50	595	553	7 30	42	135	17 20	145	122	11 40	23
11 **	25.1	13 7	37.4	14.5	8 20	22.9	575	16 15	626	518	15 10	108	137	18 40	181	98	12 25	83
12	25.2	13 55	34.0	18.3	1 59	15.7	554	17 50	588	515	10 22	73	139	16 53	169	122	1 32	47
13 **	25.2	14 7	31.7	18.2	20 35	13.5	565	15 59	609	526	10 10	83	137	17 0	163	114	12 5	49
14	24.7	12 40	33.1	18.5	0 34	14.6	556	19 32	592	519	10 30	73	135	17 15	156	112	11 42	44
15	24.4	15 10	30.0	17.9	6 42	12.1	558	18 20	581	535	8 40	46	138	19 10	149	120	10 33	29
16	25.2	14 0	32.1	18.6	7 18	13.5	565	18 1	604	536	11 1	68	139	17 51	150	121	11 40	29
17	25.8	12 40	31.6	19.3	6 20	12.3	567	19 5	600	528	12 51	72	141	18 0	157	124	12 0	33
18	25.1	13 55	31.3	18.9	4 3	12.4	568	1 5	603	525	9 21	78	136	16 25	148	123	11 55	25
19 **	24.8	15 45	34.1	17.2	6 35	16.9	572	16 30	645	535	14 39	110	145	17 28	185	110	11 41	75
20	24.9	13 1	29.7	19.0	7 0	10.7	558	17 20	595	518	12 43	77	142	17 20	161	127	10 7	34
21	25.1	14 7	29.9	20.2	8 58	9.7	564	17 58	582	537	10 15	45	142	17 25	152	131	11 10	21
22 *	24.6	13 50	28.7	19.9	6 25	8.8	569	22 40	586	543	11 20	43	140	19 18	146	129	12 0	17
23	24.6	17 50	32.3	18.5	8 12	13.8	576	17 28	600	552	13 37	48	135	18 58	155	109	13 4	46
24	24.9	14 13	32.6	16.6	3 30	16.0	570	23 33	606	547	13 41	59	132	18 10	147	116	2 50	31
25	23.7	13 40	30.5	16.2	5 22	14.3	566	20 2	590	539	10 57	51	132	20 2	152	116	6 32	36
26	25.2	13 40	33.5	19.3	7 50	14.2	570	16 4	586	550	8 47	36	138	18 30	154	116	11 55	38
27	24.7	13 55	30.3	18.5	6 12	11.8	569	20 1	588	550	8 26	38	134	17 4	145	117	13 15	28
28	26.5	14 46	35.5	20.2	6 11	15.3	571	14 45	609	532	8 10	77	140	18 0	166	108	11 52	58
29 **	25.5	13 40	35.2	15.8	2 50	19.4	569	17 25	615	536	9 55	79	136	18 45	160	119	12 6	41
30 **	25.0	14 55	32.8	17.8	3 20	15.0	563	22 57	604	517	9 18	87	133	16 35	158	109	11 40	49
Mean	25.2	-	32.1	18.7	-	13.4	568	-	598	537	-	61.2	137	-	154	117	-	37.6
Mean *	25.5	-	30.9	20.1	-	10.9	571	-	588	548	-	40.0	135	-	145	120	-	25.0
Mean **	25.1	-	34.2	16.7	-	17.5	569	-	620	526	-	93.4	138	-	169	110	-	59.4

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
July	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	25.7	13 55	31.7	20.9	1 25	10.8	558	17 57	600	503	10 52	97	140	18 5	158	120	12 0	38
2 *	24.6	13 23	29.7	20.5	7 40	9.2	562	20 58	600	541	12 0	59	137	20 30	150	112	11 0	38
3 *	25.1	14 40	31.5	20.5	6 3	11.0	565	20 42	584	537	10 20	47	138	18 5	150	121	11 53	29
4 *	24.5	14 15	28.4	20.6	8 40	7.8	567	19 15	585	545	12 52	40	135	19 15	145	108	11 38	37
5 *	25.7	13 25	32.0	19.8	6 34	12.2	575	19 55	603	544	14 15	59	136	19 20	147	117	11 46	30
6	24.8	14 16	30.6	19.2	5 55	11.4	574	16 6	604	552	12 46	52	134	17 0	149	113	12 48	36
7	24.5	13 40	30.8	19.3	5 56	11.5	568	19 52	603	545	9 56	58	134	17 28	144	115	11 45	29
8 **	24.8	12 51	35.8	14.6	5 21	21.2	561	20 0	623	503	10 41	120	134	20 0	170	102	10 21	68
9	24.1	14 25	30.5	18.7	6 5	11.8	560	17 42	595	525	2 40	70	138	18 5	160	120	2 31	40
10	24.9	13 50	30.8	19.2	0 35	11.6	561	23 39	621	540	8 10	81	138	23 38	149	114	11 44	35
11 **	27.1	13 52	39.3	12.9	1 46	26.4	550	20 42	617	499	8 33	118	146	15 20	214	100	8 35	114
12	24.8	11 29	31.3	18.8	8 20	12.5	552	18 25	598	490	10 17	108	140	18 25	160	108	11 40	52
13	24.5	11 52	29.2	18.7	1 33	10.5	555	0 34	596	526	8 20	70	143	18 30	162	127	11 32	35
14	25.0	14 2	31.6	19.5	7 35	12.1	563	21 20 } 22 40 }	590	532	15 15	58	143	16 52	160	123	12 3	37
15 **	24.0	16 42	29.8	12.2	21 5	17.6	563	17 51	647	516	9 12	131	142	17 40	183	117	12 35	66
16	24.4	13 5	32.2	16.5	1 20	15.7	557	21 40	589	516	9 1	73	140	19 5	162	123	1 17	39
17	24.3	15 25	28.7	19.5	7 23	9.2	559	18 2	590	526	11 22	64	140	18 0	160	121	11 9	39
18	24.6	14 41	30.3	19.0	6 23	11.3	561	19 10	585	531	11 17	54	144	17 24	159	124	11 12	35
19 *	24.5	14 7	31.2	18.4	6 30	12.8	563	19 40	585	527	11 40	58	142	17 15	153	116	11 40	37
20 **	24.0	14 9	34.9	14.3	6 30	20.6	568	21 3	602	518	11 58	84	142	17 15	159	116	11 55	43
21	23.9	0 58	33.9	15.8	2 10	18.1	559	0 12	592	524	9 5	68	139	20 2	155	98	1 30	57
22	23.9	13 50	29.6	19.5	6 40	10.1	563	22 20	589	527	10 50	62	143	16 25	152	125	12 0	27
23	24.5	15 59	32.0	19.5	5 58	12.5	569	18 45	607	549	7 15	58	139	18 40	156	122	11 55	34
24	23.6	15 27	30.3	19.0	23 42	11.3	567	19 25	602	552	16 48	50	140	19 20	156	124	11 50	32
25	24.8	13 51	32.3	13.7	19 46	18.6	558	23 0	623	513	15 0	110	141	19 55	171	120	4 40	51
26	24.1	12 29	31.1	14.5	22 31	16.6	565	19 1	602	546	13 12	56	139	22 0	151	121	12 35	30
27 **	24.1	11 53	31.8	12.2	1 20	19.6	559	18 34	597	510	9 52	87	138	18 25	163	116	12 2	47
28	24.2	13 40	30.5	19.0	20 55	11.5	558	19 45	603	527	5 22	76	138	16 36	156	116	9 30	40
29	24.5	13 51	30.4	17.8	7 44	12.6	556	0 35	584	521	9 0	63	144	17 28	154	128	1 10	26
30	24.3	13 20	31.5	18.6	7 15	12.9	561	0 10	596	515	9 30	81	143	18 35	160	131	0 51	29
31	24.0	13 56	30.1	18.4	7 48	11.7	561	17 5	585	519	12 15	66	140	18 30	153	117	11 50	36
Mean	24.6	-	31.4	17.8	-	13.6	562	-	600	526	-	73.5	140	-	159	118	-	41.4
Mean *	24.9	-	30.6	20.0	-	10.6	566	-	591	539	-	52.6	138	-	149	115	-	34.2
Mean **	24.8	-	34.3	13.2	-	21.1	560	-	617	509	-	108.0	140	-	178	110	-	67.6
August	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	23.6	12 55	28.4	19.3	3 3	9.1	563	21 28	591	535	9 55	56	141	19 25	151	122	11 58	29
2	24.3	14 50	31.4	17.4	7 40	14.0	565	20 22	596	528	15 20	68	140	6 35	149	118	11 45	31
3	23.7	13 10	30.6	19.0	2 36	11.6	565	21 48	592	546	13 40	46	140	18 10	153	127	12 0	26
4 *	24.0	14 30	28.5	20.4	8 18	8.1	564	19 15	583	548	15 30	35	138	20 5	148	120	11 55	28
5	23.7	12 50	30.5	19.6	7 36	10.9	566	22 55	596	535	11 53	61	139	17 53	151	115	13 10	36
6	24.4	14 38	33.0	16.6	23 50	16.4	569	14 38	596	517	16 15	79	141	18 17	158	118	12 1	40
7	23.8	13 48	31.9	12.1	21 1	19.8	558	21 10	613	515	10 29	98	136	18 20	156	117	11 35	39
8 *	24.3	12 50	29.8	20.1	7 35	9.7	559	20 32	571	542	9 52	29	138	4 20 } 19 30 }	146	117	11 35	29
9	24.3	12 10	31.0	19.1	7 30	11.9	563	23 3	592	534	13 37	58	137	18 20	157	103	12 45	54
10 **	23.9	15 57	33.7	9.1	19 6	24.6	564	15 31	615	510	16 4	105	146	19 5	187	121	11 5	66
11	24.0	13 0	30.2	18.9	7 30	11.3	555	0 1	583	514	11 20	69	142	17 30	155	119	11 40	36
12	24.8	12 20	31.5	20.0	23 4	11.5	558	19 9	590	523	8 15	67	144	17 25	159	125	10 30	34
13 *	23.2	12 55	27.8	19.4	7 10	8.4	562	23 18	586	542	8 30	44	142	16 28	150	127	12 0	23
14	24.1	12 35	31.1	19.6	7 5	11.5	561	0 55	578	529	9 15	49	142	17 20	155	127	12 0	28
15	24.5	12 30	31.1	18.2	23 6	12.9	565	20 3	609	538	9 55	71	143	20 50	157	111	12 0	46
16 **	22.7	13 58	32.9	-0.1	20 22	33.0	563	20 30	637	525	10 45	112	139	18 38	168	116	4 30	52
17	22.9	16 4	31.2	15.6	0 59	15.6	553	21 10	616	511	11 53	105	146	17 10	178	125	11 45	53
18 **	24.7	14 30	34.9	18.5	20 16	16.4	548	18 59	584	487	9 42	97	151	15 12	171	132	10 57	39
19 **	23.3	14 42	31.2	10.1	18 33	21.1	556	21 58	631	499	8 45	132	146	18 45	177	121	23 24	56
20	24.1	13 10	34.0	16.6	6 57	17.4	556	0 18	587	514	10 39	73	140	19 9	165	117	2 37	48
21	23.7	13 5	30.9	19.4	6 25	11.5	558	22 50	583	536	14 1	47	146	14 25	160	130	10 45	30
22	23.2	12 42	28.6	16.1	22 2	12.5	561	22 12	623	533	9 24	90	139	22 3	149	121	11 35	28
23 **	23.4	15 5	34.9	7.3	19 11	27.6	551	16 20	610	500	17 29	110	145	16 10	210	107	1 55	103
24	22.9	13 12	31.3	11.9	20 57	19.4	549	19 5	616	522	9 20	94	148	17 0	174	132	12 40	42
25	23.3	12 25	30.9	17.6	8 12	13.3	551	21 32	585	515	6 5	70	142	18 25	158	120	10 40	38
26	22.9	13 2	32.6	13.6	19 43	19.0	559	19 52	608	528	9 2	80	147	17 20	164	133	10 42	31
27	23.3	13 25	31.4	17.9	8 56	13.5	551	17 59	579	505	11 40	74	148	16 28	163	129	1 18	34
28 *	23.1	12 40	28.5	19.4	8 15	9.1	554	20 50	568	524	8 54	44	147	17 20	155	129	11 56	26
29 *	23.7	13 20	29.7	20.6	21 0	9.1	560	21 15	581	540	10 27	41	145	18 20	153	126	13 0	27
30	24.9	13 40	33.0	19.6	7 30	13.4	569	16 59	612	543	18 28	69	142	6 25	154	124	12 10	30
31	24.1	14 3	33.7	18.9	8 40	14.8	562	0 32	596	533	12 36	63	150	17 25	173	129	11 31	44
Mean	23.8	-	31.3	16.5	-	14.8	559	-	597	525	-	72.1	143	-	161	122	-	39.5
Mean *	23.7	-	28.9	20.0	-	8.9	560	-	578	539	-	38.6	142	-	150	124	-	26.6
Mean **	23.6	-	33.5	9.0	-	24.5	556	-	615	504	-	111.2	145	-	183	119	-	63.2

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
September	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	24.4	15 14	35.0	18.3	7 30	16.7	554	22 45	569	528	11 2	41	152	17 34	185	122	11 52	63
2	24.5	7 10	29.1	16.4	23 24	12.7	559	22 10	597	517	6 40	80	146	21 22	158	127	11 2	31
3	23.2	12 13	31.8	18.2	8 5	13.6	556	21 8	572	519	10 43	53	146	17 40	154	130	10 45	24
4	23.2	13 45	31.8	16.6	19 12	15.2	559	15 2	582	527	9 35	55	146	19 19	156	132	12 35	24
5	23.7	13 10	30.2	18.0	20 15	12.2	556	4 20	586	523	9 45	63	147	20 28	158	135	4 38	23
6 **	24.1	14 10	33.6	14.7	22 58	18.9	555	22 20	615	492	14 20	123	147	15 59	179	125	23 20	54
7	22.9	12 20	28.3	17.4	22 25	10.9	555	22 32	582	528	16 31	54	147	17 14	167	131	10 46	36
8	23.4	12 10	26.9	18.8	0 33	8.1	558	15 41	571	543	9 40	28	145	17 45	156	131	11 45	25
9	22.7	14 55	27.3	18.5	9 24	8.8	558	22 52	572	527	11 28	45	148	16 30	156	138	8 50	18
10	23.5	12 58	30.0	19.0	6 58	11.0	557	3 35	579	528	10 28	51	145	17 21	159	130	10 45	29
11 **	24.0	13 40	34.9	14.3	22 6	20.6	568	23 0	663	536	10 13	127	144	20 0	168	101	24 0	67
12 **	22.2	7 5	32.5	9.6	0 30	22.9	532	20 48	636	431	8 59	205	143	16 50	186	94	1 10	92
13	21.7	14 38	31.4	11.9	19 38	19.5	547	22 35	609	504	9 28	105	151	18 35	176	129	0 50	47
14	21.6	14 52	30.4	13.4	0 30	17.0	545	19 20	630	504	21 20	126	149	16 58	183	125	24 0	58
15	22.7	13 20	28.9	13.5	18 12	15.4	549	20 29	593	506	10 39	87	152	17 41	183	124	0 4	59
16	22.4	12 18	30.7	11.2	23 1	19.5	555	21 50	605	511	10 50	94	149	17 50	170	129	23 50	41
17 **	21.4	13 38	31.7	8.7	17 45	23.0	541	21 51	618	437	10 53	181	154	17 59	198	125	22 42	73
18	22.6	14 40	30.2	8.8	18 25	21.4	548	22 25	609	506	17 56	103	151	18 27	182	127	23 0	55
19	23.1	12 31	32.2	14.3	17 19	17.9	552	21 29 } 22 1 }	598	509	10 44	89	146	17 22	173	128	3 21	45
20	22.4	12 5	31.9	14.8	18 52	17.1	554	23 25	604	499	12 32	105	149	17 16	167	133	23 40	34
21 **	23.3	12 20	32.9	11.4	18 27	21.5	546	18 31	616	464	9 30	152	150	17 0	183	129	3 41	54
22	22.9	13 8	29.4	16.5	22 2	12.9	549	21 12	590	505	12 16	85	149	17 40	166	133	24 0	33
23	22.7	12 1	28.4	17.5	1 45	10.9	555	24 0	587	527	8 38	60	147	15 20	156	130	11 2	26
24	22.6	12 26	30.7	15.6	1 5	15.1	554	0 10	595	534	10 2	61	148	16 45	156	136	11 32	20
25 *	22.6	13 23	28.1	18.3	7 50	9.8	556	22 2	576	535	12 28	41	146	17 48	157	130	10 50	27
26 *	23.8	13 50	32.5	18.5	9 25	14.0	556	22 14	582	523	17 16	59	147	17 45	169	126	11 40	43
27	22.8	13 30	31.8	16.7	23 8	15.1	557	22 18	605	530	11 10	75	149	15 25	157	139	11 10	18
28 *	22.9	12 24	30.5	18.4	23 35	12.1	558	23 2	574	525	12 40	49	149	16 30	157	137	11 55	20
29 *	23.0	13 40	30.6	17.6	8 52	13.0	559	16 50	574	524	11 26	50	147	17 20	160	126	11 45	34
30 *	23.0	14 4	29.6	17.0	8 42	12.6	560	23 5	577	532	10 0	45	147	20 5	157	132	11 35	25
Mean	23.0	-	30.8	15.5	-	15.3	554	-	596	512	-	83.1	148	-	168	128	-	39.9
Mean *	23.1	-	30.3	18.0	-	12.3	558	-	577	528	-	48.8	147	-	160	130	-	29.8
Mean **	23.0	-	33.1	11.7	-	21.4	548	-	630	472	-	157.6	148	-	183	115	-	68.0
October	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	22.8	13 11	27.1	18.4	24 0	8.7	562	23 20	582	539	10 12	43	150	7 6	158	142	10 50	16
2 **	22.7	13 3	39.6	1.9	20 12	37.7	549	20 22	676	468	13 10	208	158	15 50	231	131	12 0	100
3 **	22.6	0 53	35.3	8.6	18 30	26.7	536	0 45	599	481	15 24	118	150	15 42	209	96	4 20	113
4	21.9	12 22	28.6	9.4	16 35	19.2	538	23 4	596	486	12 45	110	158	16 45	209	132	0 39	77
5	22.8	12 8	29.5	15.7	20 32	13.8	540	22 8	563	497	13 58	66	156	14 30	183	132	3 35	51
6	22.6	12 38	26.9	18.7	21 40	8.2	550	21 40	576	528	10 30	48	154	21 18	165	146	0 45	19
7	22.0	13 25	29.5	14.3	22 46	15.2	548	1 4	598	511	15 0	87	154	15 30	176	130	2 30	46
8	22.7	13 2	29.1	14.1	18 58	15.0	549	23 10	564	518	18 40	46	157	19 10	177	145	11 0	32
9 *	23.3	13 40	29.3	19.0	8 8	10.3	560	18 15	576	540	9 22	36	154	15 25	161	145	11 2	16
10	22.6	14 15	29.0	17.4	22 53	11.6	568	14 13	586	545	10 11	41	150	15 21	159	139	11 35	20
11	22.9	15 8	30.0	14.8	21 41	15.2	559	19 41	606	527	20 40	79	153	21 18	169	135	11 10	34
12 **	22.7	12 18	32.3	13.1	23 42	19.2	550	23 10	613	455	10 46	158	154	17 43	180	135	3 45	45
13	21.4	12 51	31.9	0.7	17 23	31.2	547	22 5	608	498	17 2	110	153	17 20	195	131	2 42	64
14	21.3	14 41	30.6	8.4	20 0	22.2	543	19 46	603	495	12 36	108	156	15 29	200	137	21 35	63
15	22.3	13 15	30.5	5.4	18 48	25.1	546	22 10	617	521	8 58	96	154	17 42	178	133	23 0	45
16	21.8	12 33	29.2	10.7	18 15	18.5	547	18 24	610	496	13 9	114	156	18 25	175	133	½ 45½ }	42
17	22.5	13 0	28.5	14.5	20 21	14.0	553	21 10	578	530	9 22	48	153	16 20	165	143	11 55	22
18	21.6	12 39	27.9	9.6	17 3	18.3	546	20 1	591	498	16 50	93	160	17 30	183	145	11 32	38
19	22.4	11 59	32.5	6.2	17 11	26.3	541	17 29	592	491	12 55	101	160	15 28	210	124	1 52	86
20	21.5	11 56	29.9	11.7	15 15	18.2	544	19 30	568	490	14 19	78	162	15 45	194	148	10 26	46
21	22.3	13 15	28.1	17.4	16 30	10.7	548	7 10	563	501	16 2	62	160	16 29	177	149	10 25	28
22 *	22.2	12 18	27.5	18.4	8 2	9.1	549	18 45	562	527	9 42	35	159	15 20	164	153	10 40	11
23 *	23.0	12 58	29.6	20.0	8 10	9.6	554	23 25	568	527	9 20	41	157	15 20	161	146	11 0	15
24 *	22.3	12 30	27.0	18.8	8 52	8.2	559	19 25	572	538	10 12	34	154	15 30	161	142	10 58	19
25	22.9	13 1	30.5	18.4	9 45	12.1	561	5 52	593	531	12 45	62	148	15 30	161	129	11 30	32
26	21.6	12 36	25.9	14.6	21 5	11.3	558	21 11	608	540	11 24	68	151	15 18	161	138	10 2	23
27	22.2	12 6	26.6	18.2	8 45	8.4	560	0 10	590	533	10 20	57	151	17 15	161	136	1 56	25
28 **	20.8	18 10	38.2	-7.5	21 10	45.7	527	6 30	577	404	21 0	173	175	18 33	295	99	23 46	196
29 **	20.8	7 34	42.5	-4.6	0 0	47.1	507	19 30	608	393	11 16	215	166	17 20	219	124	0 0	95
30	21.1	2 46	29.7	3.6	18 0	26.1	524	21 32	603	469	10 20	134	166	15 56	228	134	0 12	94
31	20.6	13 40	29.5	6.0	18 13	23.5	530	18 20	590	467	11 1	123	167	14 31	202	143	1 45	59
Mean	22.1	-	30.4	11.5	-	18.9	547	-	591	501	-	90.1	157	-	186	135	-	50.7
Mean *	22.7	-	28.1	18.9	-	9.2	557	-	572	534	-	37.8	155	-	161	146	-	15.4
Mean **	21.9	-	37.6	2.3	-	35.3	534	-	615	440	-	174.4	161	-	227	117	-	109.8

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
November	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	21.9	12 55	25.9	16.8	16 32	9.1	543	23 13	563	505	11 10	58	163	15 40	184	150	10 9	34
2	22.0	14 30	29.4	13.8	15 50	15.6	539	19 41	585	491	15 28	94	165	16 15	194	151	1 40	43
3	21.5	13 30	28.3	14.4	20 20	13.9	541	20 20	576	508	17 19	68	166	17 40	185	155	0 35	30
4	22.4	11 42	28.6	17.5	20 30	11.1	550	23 15	580	498	11 40	82	164	16 30	172	154	23 40	18
5	21.7	12 55	26.6	14.5	23 46	12.1	555	18 9	589	527	24 0	62	160	15 10	166	154	11 55	12
6	22.0	12 22	26.4	17.6	22 25	8.8	552	20 30	565	527	0 2	38	161	15 20	171	153	3 15	18
7	22.8	14 45	29.3	19.4	24 0	9.9	555	6 58	576	522	12 59	54	160	15 22	174	154	2 10	20
8	21.9	12 24	29.2	9.4	20 45	19.8	557	6 55	577	523	20 36	54	159	21 5	175	145	10 0	30
9 *	21.6	11 36	24.8	18.4	21 59	6.4	552	0 20	577	531	9 37	46	160	13 50	169	154	1 12	15
10	22.1	14 15	27.7	16.2	24 0	11.5	559	21 31	592	521	14 22	71	158	15 20	169	146	22 5	23
11	20.7	12 1	27.2	9.7	19 15	17.5	557	22 56	581	531	12 32	50	157	19 30	169	147	23 56	22
12	21.3	13 2	25.0	16.7	18 45	8.3	556	23 5	590	536	14 30	54	156	15 10	167	144	23 48	23
13	21.5	13 13	28.8	15.8	20 31	13.0	553	7 28	577	508	14 41	69	158	15 20	175	143	0 35	32
14	21.3	13 31	25.2	9.3	18 21	15.9	551	20 34	587	530	8 55	57	160	18 30	175	148	24 0	27
15	21.5	0 42	28.8	17.7	0 20 / 20 18	11.1	556	23 50	596	539	2 37	57	157	17 25	169	139	1 15	30
16 *	21.4	12 11	24.2	18.0	19 51	6.2	559	0 2	595	546	1 45	49	155	20 20	161	141	0 58	20
17 *	22.1	14 5	25.3	18.3	23 20	7.0	551	4 31	573	532	15 29	41	158	18 35	169	150	0 35	19
18	21.1	12 25	24.2	14.5	20 19	9.7	555	18 20	570	531	20 0	39	156	20 50	166	149	8 45	17
19 *	21.9	12 0	24.8	17.3	20 1	7.5	565	7 45	580	548	11 27	32	152	20 20	158	142	10 50	16
20	21.7	12 35	27.8	8.9	18 37	18.9	558	8 2	590	496	18 25	94	156	19 10	183	137	10 1	46
21	21.1	13 12	25.1	15.2	20 27 / 21 28	9.9	553	8 20	566	533	11 25	33	157	20 35	164	146	10 40	18
22 *	21.1	12 50	24.2	17.9	17 55	6.3	556	21 23	582	549	11 20	33	155	15 22	162	144	10 10	18
23 **	20.6	13 48	27.9	3.1	23 48	24.8	554	23 10	585	489	23 39	96	154	16 25	185	109	23 30	76
24 **	20.0	4 24	33.5	1.7	0 28	31.8	520	4 14	610	444	9 40	166	152	13 29	196	87	1 26	109
25 **	20.2	12 29	25.8	8.7	21 20	17.1	533	21 36	624	470	10 50	154	162	15 57	196	139	2 25	57
26 **	20.1	3 12	34.1	4.3	19 55	29.8	536	20 0	593	484	13 9	109	160	14 10 / 16 48	184	126	3 30	58
27	20.9	10 1	26.4	10.3	20 23	16.1	540	21 30	562	493	9 35	69	160	15 28	175	144	9 20	31
28 **	18.7	14 10	27.1	-0.2	17 45	27.3	532	22 57	578	470	17 36	108	169	17 49	199	149	10 35	50
29	20.3	12 22	27.1	10.5	0 55	16.6	536	23 15	558	502	15 55	56	164	16 25	182	147	1 20	35
30	21.2	12 25	25.5	16.8	20 1	8.7	545	5 20	569	520	14 10	49	163	19 25	175	150	11 1	25
Mean	21.3	-	27.1	13.1	-	14.1	549	-	582	513	-	68.1	159	-	176	143	-	32.4
Mean *	21.6	-	24.7	18.0	-	6.7	557	-	581	541	-	40.2	156	-	164	146	-	17.6
Mean **	19.9	-	29.7	3.5	-	26.2	535	-	598	471	-	126.6	159	-	192	122	-	70.0
December	10°+ ′	U.T. h m	10°+ ′	10°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	21.1	14 5	24.2	14.3	19 12	9.9	551	22 30	576	525	19 0	51	161	19 51	170	152	11 2	18
2	20.8	13 25	23.4	17.2	0 35	6.2	554	0 7	573	540	1 12	33	159	17 32	163	152	0 43	11
3	20.9	12 40	23.5	14.0	24 0	9.5	557	22 52	609	544	1 35	65	158	22 52	167	144	23 50	23
4	20.9	15 10	28.6	12.8	0 4	15.8	555	8 0	574	518	14 53	56	157	16 9	171	144	11 10	27
5	20.9	12 10	24.6	18.7	4 42	5.9	556	2 12	570	544	11 36	26	157	16 25	164	148	2 35	16
6	21.0	12 31	24.4	14.5	23 5	9.9	559	22 41	576	542	20 50	34	157	15 40 / 21 20	163	144	10 2	19
7	21.2	13 20	29.1	8.0	21 8	21.1	550	22 53	573	517	16 12 / 19 13	56	162	19 30	183	152	23 15	31
8	20.9	16 41	30.9	-0.7	20 44	31.6	542	6 20	569	501	20 30	68	168	20 50	201	149	10 40	52
9 **	20.5	16 48	27.5	5.4	24 0	22.1	547	16 30	581	484	19 35	97	169	19 50	212	128	23 50	84
10 **	19.9	12 2	26.1	3.3	0 7	22.8	544	0 12	612	510	0 44	102	158	20 32	173	127	0 27	46
11	20.4	13 31	24.5	13.5	23 48	11.0	549	23 15	617	511	13 34	106	163	14 20	172	143	23 45	29
12	20.4	13 46	24.0	14.3	23 46	9.7	549	0 0	577	509	12 30	68	161	15 50	173	142	0 40	31
13	20.8	16 54	23.3	16.1	0 0	7.2	553	23 10	567	541	16 25	26	162	18 15	171	153	12 2	18
14	21.3	13 3	26.3	16.3	23 10	10.0	554	7 32	576	532	18 25	44	162	19 20	177	153	10 45	24
15	20.8	12 55	24.0	15.4	23 47	8.6	561	20 22	574	548	0 19	26	160	19 16	166	154	13 5	12
16	20.6	13 5	23.3	13.5	21 51	9.8	557	7 25	573	542	1 14	31	161	19 20	172	152	10 5	20
17 *	21.0	13 50	23.4	18.8	22 55	4.6	559	7 45	573	547	22 15	26	159	21 5	163	152	12 35	11
18 *	21.2	13 5	24.0	19.4	8 45	4.6	564	8 5	575	550	0 3	25	156	0 28	160	148	10 3	12
19 *	21.4	13 10	23.7	19.5	9 25	4.2	567	9 5	578	557	1 36	21	155	15 20	158	150	13 0	8
20	21.0	2 35	26.6	13.2	23 25	13.4	564	23 30	616	536	17 51	80	155	18 35	167	147	3 15	20
21 **	21.3	5 30	31.9	11.3	22 10	20.6	546	5 39	605	474	12 25	131	160	17 1	187	139	5 52	48
22	21.2	2 18	25.9	15.1	1 36	10.8	549	3 16	583	509	11 29	74	159	15 20	174	139	3 30	35
23 **	20.4	14 3	29.7	7.0	17 45	22.7	525	6 5	571	447	12 30	124	174	15 5	214	153	7 12	61
24	20.7	15 25	25.1	13.4	18 4	11.7	541	22 1	594	491	14 20	103	166	15 15	183	152	22 35	31
25	20.0	2 24	25.7	14.0	22 35	11.7	540	2 22	579	518	17 39	61	163	17 20	177	144	2 40	33
26 **	20.2	4 5	25.7	10.7	18 20	15.0	543	20 52	591	505	18 1	86	161	18 30	184	144	5 30	40
27	20.4	4 13	23.2	15.4	22 15	7.8	550	6 20	567	537	0 5	30	161	15 20	169	149	0 0	20
28	20.9	13 15	24.2	18.9	0 0	5.3	553	5 10	566	543	12 50	23	163	17 50	170	158	9 0	12
29	20.5	12 39	24.1	17.7	22 14	6.4	553	6 42	568	538	13 20	30	162	17 30	171	157	13 0	14
30 *	20.7	13 57	22.7	18.7	21 45	4.0	555	18 45	563	544	10 35	19	161	7 20	165	154	12 0	11
31 *	20.5	13 0	22.5	18.6	1 51	3.9	559	7 30	569	542	11 0	27	159	10 20	162	151	12 0	11
Mean	20.8	-	25.4	12.8	-	11.5	552	-	580	524	-	56.4	161	-	174	148	-	26.7
Mean *	21.0	-	23.3	19.0	-	4.3	561	-	572	548	-	23.6	158	-	162	151	-	10.6
Mean **	20.5	-	28.2	7.5	-	20.6	541	-	592	484	-	108.0	164	-	194	138	-	55.8

* International Quiet Day. ** International Disturbed Day.

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1942* (SEE INTRODUCTION PAGE XII).

Date 1942	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	0001 0011	3	0011 3122	10	3288 7556	44	2322 4321	19	3332 3310	18	2110 1231	11
2	1221 3353	20	2233 4322	21	6523 4432	29	1233 4345	25	0222 3333	18	0111 2221	10
3	3332 3333	23	3221 1111	12	3445 4534	32	4532 4245	29	2321 1113	14	1122 4433	20
4	2432 4344	26	0121 1112	9	3223 3443	24	3455 4673	37	1111 3454	20	2121 1222	13
5	3334 3354	28	1333 3363	25	2432 4665	32	3313 3312	19	5332 2314	23	3122 2411	16
6	1223 1344	20	4424 3555	32	3433 3313	23	2211 2113	13	1311 1321	13	3232 1201	14
7	3323 3221	19	4313 2212	18	3233 3444	26	1111 2102	9	1021 2121	10	1121 3111	11
8	1011 0003	6	1121 1102	9	5433 3454	31	5443 4532	30	1201 1223	12	3111 3210	12
9	1111 1123	11	2112 1101	9	6442 3445	32	3123 3323	20	0021 1111	7	0021 1201	7
10	3222 3323	20	1122 3433	19	3223 3452	24	1111 1214	12	2221 3333	19	0121 1311	10
11	3121 3232	17	2120 2333	16	4421 1013	16	4543 5433	31	4222 2210	15	2334 5543	29
12	2222 2343	20	1211 1110	8	2211 0113	11	1123 3312	16	1101 2211	9	3333 3322	22
13	1111 3221	12	3311 2110	12	4323 4335	27	3133 4355	27	1111 1212	10	3224 3444	26
14	0011 1113	8	0012 2223	12	3354 4424	29	5333 4421	25	2543 3421	24	3333 3332	23
15	1021 3312	13	3332 3343	24	3113 4432	21	0112 2111	9	1222 2232	16	2321 1111	12
16	2211 2342	17	3122 3224	19	2111 2221	12	2331 3235	22	0111 1232	11	2111 2341	15
17	4244 2222	22	3322 2220	16	3332 2233	21	5444 4434	32	2212 1331	15	2232 3321	18
18	4332 2235	24	2222 1100	10	0023 4444	21	3333 5454	30	2112 2223	15	4213 2210	15
19	4421 2213	19	0002 2122	9	2233 3445	26	4233 3332	23	1111 1211	9	3123 4533	24
20	3011 1102	9	1223 2333	19	5433 1230	21	3111 3321	15	0221 2433	17	2322 3321	18
21	0011 0122	7	3321 4112	17	3343 3444	28	1011 2220	9	3211 3332	18	2322 2111	14
22	0221 3232	15	3221 2233	18	4333 3333	25	2111 2101	9	2342 2343	23	0101 1211	7
23	3111 2111	11	4221 5475	30	4212 3344	23	0332 5543	25	3122 1423	18	1022 3332	16
24	1111 2113	11	5344 3324	28	1313 3311	16	5322 3321	21	1222 2332	17	3332 3323	22
25	1011 3231	12	4222 3355	26	2222 3201	14	1121 2011	9	3222 3211	16	3221 2221	15
26	1112 1110	8	2211 1123	13	0133 5633	24	1221 1111	10	1112 3101	10	1221 2312	14
27	0011 1312	9	1211 2444	19	2312 1133	16	1122 3444	21	0224 3454	24	2222 2111	13
28	2333 2232	20	4323 5533	28	2121 2221	13	5333 2213	22	3423 3333	24	1132 4333	20
29	1111 2233	14			1322 4422	20	1111 1103	9	2121 2221	13	4331 3433	24
30	1211 1221	11			1222 4432	20	1112 4333	18	3221 1222	15	3432 3334	25
31	1121 1100	7			1233 3234	21			1211 1211	10		

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

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1942.* (SEE INTRODUCTION PAGE XII).

Date 1942	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	2332 3332	21	2311 2112	13	2113 3432	19	0012 1112	8	2233 3323	21	2011 1243	14
2	1212 2333	17	1111 3332	15	3343 2234	24	3334 5564	33	3323 2453	25	3111 1101	9
3	1111 2110	8	3321 2322	18	2223 2100	12	5543 4554	35	2222 3342	20	3101 1114	12
4	0012 1100	5	1232 2221	15	1123 3431	18	3433 4534	29	1334 2133	20	3232 4312	20
5	0121 3321	13	2212 2233	17	1322 2332	18	3332 4333	24	1221 1134	15	2111 1210	9
6	2122 3423	19	1133 3533	22	3233 5535	29	2223 1123	16	3211 1213	14	0001 1133	9
7	2011 3323	15	4243 3244	26	2223 2413	19	4231 3323	21	3222 3222	18	2212 2344	20
8	4344 5453	32	1112 3011	10	3222 1311	15	3311 2342	19	2233 3344	24	3121 3455	24
9	4213 2333	21	0133 3232	17	0123 2320	13	3221 2221	15	3112 1212	13	3312 4445	26
10	3312 2324	20	2332 4554	28	2322 3112	16	0133 3323	18	2132 4334	22	5433 2234	26
11	4454 4543	33	3323 3101	16	2213 4446	26	1012 2253	16	3232 3243	22	1332 4235	23
12	3234 3442	25	3233 2233	21	4455 4455	36	3335 5544	32	2332 3334	23	4223 3323	22
13	4332 2331	21	3111 2102	11	3333 3445	28	4333 5644	32	3322 4333	23	3001 1212	10
14	2222 3433	21	2212 3100	11	4334 4455	32	4233 4555	31	3233 2353	24	1111 2323	14
15	2333 4555	30	0001 2344	14	3334 4443	28	3443 3355	30	4222 2234	21	2111 1132	12
16	3332 3333	23	4433 3464	31	3333 3435	27	4333 4353	28	4122 2122	16	2221 1323	16
17	3423 2321	20	3233 4434	26	4235 4545	32	3332 2243	22	1223 3122	16	0111 1112	8
18	2112 1211	11	3233 4343	25	3223 4454	27	1223 3553	24	3232 3332	21	1211 1111	9
19	2121 3212	14	3233 4455	29	3334 4434	28	5334 4542	30	1033 1233	16	0112 1011	7
20	1244 4344	26	4324 4342	26	3324 5444	29	3313 5431	23	2323 3353	24	3211 1334	18
21	5322 3333	24	2223 4323	21	4444 5553	34	0011 3422	13	3232 2233	20	4434 4444	31
22	2113 3212	15	3432 3325	25	3433 4434	28	1111 2111	9	1021 1223	12	4433 2131	21
23	3122 3343	21	4333 5555	33	3222 2213	17	1121 3211	12	2112 3435	21	1344 4544	29
24	2322 2332	19	3323 3454	27	4121 3222	17	1111 1111	8	6545 4453	36	3133 4434	25
25	3332 4445	28	2433 3333	24	2121 1222	13	1333 4221	19	4434 3545	32	4212 3334	22
26	2131 3324	19	2323 3343	23	2011 1323	13	2322 2134	19	4534 4554	34	3332 3454	27
27	4434 4443	30	3233 3320	19	1122 3224	17	3132 1312	16	3133 3243	22	2211 1112	11
28	3332 3342	23	1121 1211	10	2021 3212	13	0123 4666	28	2233 4555	29	1211 1111	9
29	3222 2323	19	0121 1022	9	1113 2211	12	6365 4565	40	4123 3433	23	0101 2211	8
30	4223 3332	22	1121 2341	15	0012 1132	10	5343 4555	34	2221 3222	16	1011 0010	4
31	4221 3212	17	3112 3232	17			4334 4354	30			2111 1001	7

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

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

"All" Days

DECLINATION WEST (Unit 0.′01)

Month and Season, 1942	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.	-142	-089	-093	-079	-081	-045	-034	-047	-051	-012	+081	+182	+306	+316	+245	+179	+170	+123	+014	-070	-170	-221	-263	-208
Feb.	-139	-059	-110	-137	-184	-144	-114	-117	-071	-006	+097	+228	+345	+367	+327	+186	+141	+064	+010	+009	-133	-164	-217	-175
March	-122	-113	-183	-137	-166	-120	-107	-086	-142	-237	+033	+248	+460	+522	+473	+303	+185	-034	-052	-110	-140	-149	-174	-142
April	-196	-219	-148	-229	-213	-221	-265	-305	-348	-251	-014	+297	+595	+733	+648	+485	+282	+113	-089	-117	-091	-137	-144	-163
May	-149	-146	-166	-233	-270	-332	-362	-389	-359	-261	+004	+288	+479	+551	+530	+455	+358	+250	+118	+023	-065	-076	-108	-130
June	-092	-158	-243	-299	-339	-429	-483	-479	-424	-254	+021	+278	+475	+572	+571	+499	+358	+261	+179	+085	+014	+006	-033	-092
July	-164	-232	-235	-201	-252	-300	-335	-311	-318	-220	-006	+239	+427	+542	+540	+454	+340	+214	+130	+060	-041	-092	-094	-144
Aug.	-135	-128	-185	-168	-214	-292	-343	-365	-332	-179	+082	+373	+580	+619	+550	+430	+257	+121	+028	-096	-139	-132	-191	-150
Sept.	-219	-131	-110	-109	-135	-146	-210	-253	-264	-164	+031	+333	+550	+570	+561	+431	+242	+026	-113	-114	-158	-192	-209	-211
Oct.	-149	+001	+002	-046	-020	+011	+004	-046	-161	-127	+096	+362	+517	+484	+402	+168	+055	-123	-163	-214	-284	-341	-234	-207
Nov.	-183	-109	-042	+015	+024	+027	+019	+021	-006	+002	+115	+266	+365	+312	+273	+141	+089	-003	-112	-172	-254	-232	-281	-280
Dec.	-192	-089	+019	+027	+026	+022	-002	-003	-009	-031	+071	+182	+268	+299	+243	+153	+147	+027	-045	-098	-202	-269	-276	-257
Year	-157	-123	-125	-133	-152	-164	-186	-198	-207	-145	+051	+273	+447	+491	+447	+324	+219	+087	-008	-068	-139	-167	-185	-180
Winter	-164	-086	-057	-044	-054	-035	-033	-037	-034	-012	+091	+215	+321	+324	+272	+165	+137	+053	-033	-083	-190	-222	-259	-230
Equinox	-172	-116	-110	-130	-134	-119	-145	-173	-229	-195	+037	+310	+531	+577	+521	+347	+191	-005	-104	-139	-169	-205	-190	-181
Summer	-135	-166	-207	-225	-269	-338	-381	-386	-358	-229	+025	+295	+490	+571	+548	+460	+328	+212	+114	+018	-058	-074	-107	-129

INCLINATION (Unit 0.′01)

Jan.	+009	000	+001	-020	-054	-074	-080	-074	-048	+002	+043	+040	+018	+009	+011	+023	+016	+025	+014	+030	+042	+042	+020	+009
Feb.	-002	-010	-009	-018	-029	-046	-059	-062	-029	-012	+006	+016	+008	-002	-003	+035	+041	+048	+029	+038	+020	+034	+025	-005
March	-023	-058	-029	-042	-042	-048	-052	-011	+053	+068	+051	+045	+020	+031	+032	+035	+028	+063	+034	+002	-043	-023	-053	-041
April	-042	-057	-047	-040	-037	-060	-038	-012	+028	+072	+108	+106	+069	+050	+041	+033	+024	+017	+003	-002	-034	-047	-066	-067
May	-019	-029	-024	-012	-019	-004	+024	+048	+063	+066	+056	+041	+044	+034	+026	-008	-033	-051	-048	-048	-034	-027	-028	-027
June	-045	-047	-031	-024	-012	-008	+026	+058	+089	+098	+090	+057	+048	+036	+018	-022	-037	-053	-045	-042	-043	-034	-039	-034
July	-055	-046	-020	-022	-030	-006	+037	+051	+103	+115	+103	+070	+055	+044	+032	-001	-009	-042	-072	-078	-072	-052	-046	-062
Aug.	-056	-050	-025	-012	-009	+003	+039	+075	+095	+099	+075	+045	+008	+018	+019	+012	+030	-013	-032	-050	-054	-073	-075	-062
Sept.	-053	-050	-036	-041	-028	-023	-009	+019	+062	+117	+131	+083	+051	+039	+017	+023	+024	+022	-018	-031	-040	-066	-105	-086
Oct.	-069	-055	-056	-060	-074	-079	-073	-048	-009	+049	+090	+087	+088	+089	+069	+094	+098	+048	+022	-003	-018	-046	-076	-077
Nov.	-027	-029	-028	-042	-072	-080	-078	-069	-027	+021	+046	+051	+057	+073	+074	+077	+039	+035	+030	+015	-001	-012	-018	-039
Dec.	-011	000	-017	-036	-045	-069	-083	-074	-050	-002	+030	+029	+042	+048	+049	+027	+029	+043	+040	+044	+029	+013	-007	-031
Year	-033	-036	-027	-031	-038	-041	-029	-008	+028	+058	+069	+056	+042	+039	+032	+027	+021	+012	-004	-010	-021	-024	-039	-044
Winter	-008	-010	-013	-029	-050	-067	-075	-070	-039	+002	+031	+034	+031	+032	+033	+041	+030	+038	+028	+032	+023	+019	+005	-017
Equinox	-047	-055	-042	-046	-045	-053	-043	-013	+034	+077	+095	+080	+057	+052	+040	+046	+044	+038	+010	-009	-034	-046	-075	-068
Summer	-044	-043	-025	-018	-018	-004	+032	+058	+088	+095	+081	+053	+039	+033	+024	-005	-012	-040	-049	-055	-051	-047	-047	-046

HORIZONTAL INTENSITY (Unit 0.1γ)

Jan.	- 16	- 07	- 11	+ 21	+ 70	+ 96	+106	+ 98	+ 55	- 18	- 80	- 78	- 45	- 15	- 06	- 17	- 08	- 16	00	- 22	- 38	- 41	- 18	- 11
Feb.	- 04	+ 02	- 03	+ 12	+ 34	+ 61	+ 78	+ 80	+ 22	- 06	- 37	- 50	- 38	- 07	+ 12	- 31	- 29	- 32	- 10	- 19	- 02	- 28	- 26	+ 12
March	+ 23	+ 55	+ 06	+ 23	+ 32	+ 49	+ 63	+ 10	- 96	-122	-116	-118	- 73	- 64	- 33	- 07	+ 20	- 23	+ 17	+ 53	+101	+ 59	+ 90	+ 56
April	+ 51	+ 61	+ 39	+ 38	+ 46	+ 83	+ 53	+ 07	- 59	-146	-221	-232	-173	-116	- 60	- 12	+ 30	+ 54	+ 74	+ 67	+ 94	+100	+114	+103
May	+ 37	+ 46	+ 37	+ 26	+ 38	+ 16	- 31	- 79	-114	-140	-150	-146	-140	- 96	- 49	+ 27	+ 89	+126	+128	+120	+ 89	+ 67	+ 59	+ 52
June	+ 73	+ 64	+ 37	+ 37	+ 22	+ 16	- 40	- 99	-155	-186	-189	-155	-134	- 92	- 35	+ 46	+ 96	+133	+127	+114	+102	+ 76	+ 76	+ 61
July	+ 73	+ 49	+ 20	+ 35	+ 48	+ 13	- 55	- 82	-171	-209	-208	-172	-138	-104	- 54	+ 22	+ 55	+116	+160	+166	+149	+102	+ 86	+ 96
Aug.	+ 73	+ 61	+ 22	+ 10	+ 14	- 03	- 54	-109	-150	-174	-161	-132	- 72	- 59	- 30	+ 09	- 01	+ 75	+ 99	+122	+117	+129	+117	+ 90
Sept.	+ 56	+ 53	+ 34	+ 42	+ 26	+ 24	+ 10	- 29	-105	-195	-230	-163	-107	- 65	- 18	- 03	+ 15	+ 30	+ 80	+ 84	+ 91	+116	+151	+107
Oct.	+ 71	+ 42	+ 41	+ 50	+ 81	+ 90	+ 90	+ 61	- 04	-102	-172	-163	-149	-120	- 69	- 67	- 68	+ 04	+ 27	+ 47	+ 53	+ 76	+ 99	+ 90
Nov.	+ 18	+ 16	+ 17	+ 37	+ 87	+ 99	+101	+ 90	+ 23	- 54	- 93	- 96	- 95	- 92	- 82	- 73	- 18	- 13	- 11	+ 11	+ 24	+ 32	+ 28	+ 48
Dec.	- 02	- 17	+ 08	+ 34	+ 52	+ 91	+111	+ 98	+ 57	- 18	- 65	- 64	- 78	- 68	- 57	- 13	- 19	- 32	- 26	- 33	- 13	+ 01	+ 15	+ 36
Year	+ 38	+ 35	+ 21	+ 30	+ 46	+ 53	+ 36	+ 04	- 58	-114	-147	-131	-104	- 75	- 40	- 10	+ 14	+ 35	+ 55	+ 59	+ 64	+ 57	+ 66	+ 62
Winter	- 01	- 02	+ 03	+ 26	+ 61	+ 87	+ 99	+ 92	+ 39	- 23	- 69	- 72	- 64	- 46	- 33	- 34	- 19	- 23	- 12	- 16	- 07	- 09	- 00	+ 21
Equinox	+ 50	+ 53	+ 30	+ 38	+ 46	+ 62	+ 54	+ 12	- 66	-141	-185	-169	-126	- 91	- 45	- 22	- 01	+ 16	+ 50	+ 63	+ 85	+ 88	+114	+ 89
Summer	+ 64	+ 55	+ 29	+ 27	+ 31	+ 11	- 45	- 92	-148	-177	-177	-151	-121	- 88	- 42	+ 26	+ 60	+113	+129	+131	+114	+ 94	+ 85	+ 75

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

"All" Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1942	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.	- 02	+ 02	- 02	+ 28	+ 77	+ 99	+108	+101	+ 59	- 17	- 87	- 95	- 74	- 46	- 30	- 34	- 25	- 28	- 01	- 15	- 21	- 19	+ 08	+ 10
Feb.	+ 10	+ 08	+ 08	+ 25	+ 52	+ 74	+ 88	+ 90	+ 29	- 05	- 46	- 72	- 71	- 43	- 20	- 49	- 42	- 38	- 11	- 20	+ 11	- 11	- 04	+ 29
March	+ 35	+ 65	+ 24	+ 36	+ 48	+ 60	+ 72	+ 18	- 80	- 97	-117	-140	-117	-114	- 79	- 37	+ 02	- 19	+ 22	+ 63	+113	+ 73	+106	+ 69
April	+ 69	+ 82	+ 53	+ 60	+ 66	+103	+ 78	+ 37	- 24	-119	-216	-257	-229	-186	-123	- 60	+ 02	+ 42	+ 81	+ 77	+101	+112	+126	+117
May	+ 51	+ 60	+ 53	+ 49	+ 64	+ 48	+ 05	- 40	- 77	-112	-148	-172	-185	-149	-100	- 18	+ 52	+ 99	+114	+116	+ 94	+ 73	+ 69	+ 64
June	+ 81	+ 78	+ 60	+ 66	+ 55	+ 58	+ 08	- 50	-111	-158	-188	-180	-178	-147	- 91	- 04	+ 59	+105	+107	+104	+ 99	+ 74	+ 78	+ 69
July	+ 88	+ 71	+ 43	+ 54	+ 73	+ 42	- 21	- 50	-137	-184	-204	-193	-178	-156	-106	- 23	+ 21	+ 93	+145	+157	+151	+109	+ 94	+109
Aug.	+ 85	+ 73	+ 40	+ 26	+ 35	+ 26	- 19	- 71	-115	-153	-166	-167	-128	-119	- 84	- 34	- 26	+ 62	+ 95	+129	+129	+140	+134	+103
Sept.	+ 77	+ 65	+ 44	+ 52	+ 39	+ 38	+ 30	- 04	- 77	-176	-229	-193	-159	-120	- 73	- 45	- 09	+ 27	+ 90	+ 94	+105	+133	+169	+126
Oct.	+ 84	+ 41	+ 40	+ 54	+ 82	+ 87	+ 88	+ 65	+ 12	- 88	-179	-196	-197	-166	-107	- 82	- 72	+ 16	+ 43	+ 67	+ 80	+108	+120	+109
Nov.	+ 36	+ 26	+ 21	+ 35	+ 83	+ 95	+ 97	+ 86	+ 23	- 53	-103	-121	-129	-121	-107	- 86	- 26	- 13	+ 00	+ 28	+ 49	+ 54	+ 55	+ 75
Dec.	+ 17	- 08	+ 06	+ 31	+ 49	+ 87	+109	+ 97	+ 57	- 15	- 71	- 81	-103	- 96	- 80	- 28	- 33	- 34	- 21	- 23	+ 07	+ 27	+ 42	+ 61
Year	+ 53	+ 47	+ 33	+ 43	+ 60	+ 68	+ 54	+ 23	- 37	- 98	-146	-156	-146	-122	- 83	- 42	- 08	+ 26	+ 55	+ 65	+ 77	+ 73	+ 83	+ 78
Winter	+ 15	+ 07	+ 08	+ 30	+ 65	+ 89	+101	+ 94	+ 42	- 23	- 77	- 92	- 94	- 77	- 59	- 49	- 32	- 28	- 08	- 08	+ 12	+ 13	+ 25	+ 44
Equinox	+ 66	+ 63	+ 40	+ 51	+ 59	+ 72	+ 67	+ 29	- 42	-120	-185	-197	-176	-147	- 96	- 56	- 19	+ 17	+ 59	+ 75	+100	+107	+130	+105
Summer	+ 76	+ 71	+ 49	+ 49	+ 57	+ 44	- 07	- 53	-110	-152	-177	-178	-167	-143	- 95	- 20	+ 27	+ 90	+115	+127	+118	+ 99	+ 94	+ 86

WEST COMPONENT (Unit 0.1γ)

Jan.	- 78	- 49	- 51	- 38	- 30	- 06	+ 01	- 07	- 17	- 10	+ 28	+ 82	+154	+165	+129	+ 92	+ 89	+ 62	+ 07	- 41	- 97	-125	-143	-112
Feb.	- 74	- 31	- 59	- 71	- 91	- 65	- 46	- 47	- 34	- 04	+ 45	+112	+176	+193	+176	+ 93	+ 70	+ 28	+ 04	+ 01	- 71	- 92	-120	- 91
March	- 61	- 50	- 96	- 69	- 82	- 55	- 45	- 44	- 93	-148	- 04	+110	+231	+265	+245	+159	+102	- 22	- 25	- 49	- 56	- 68	- 76	- 65
April	- 95	-105	- 71	-115	-105	-102	-131	-160	-195	-160	- 48	+115	+284	+368	+333	+255	+155	+ 70	- 34	- 50	- 31	- 55	- 56	- 68
May	- 72	- 69	- 81	-119	-136	-173	-198	-221	-211	-164	- 25	+126	+228	+275	+272	+246	+206	+156	+ 86	+ 34	- 18	- 28	- 47	- 59
June	- 36	- 72	-122	-152	-176	-225	-263	-272	-253	-169	- 23	+119	+228	+287	+296	+273	+207	+163	+118	+ 66	+ 26	+ 17	- 04	- 38
July	- 74	-114	-121	-100	-125	-157	-188	-180	-200	-155	- 41	+ 95	+201	+269	+277	+245	+190	+135	+ 98	+ 62	+ 05	- 30	- 34	- 59
Aug.	- 58	- 57	- 94	- 87	-111	-155	-192	-213	-203	-127	+ 14	+174	+295	+318	+286	+230	+136	+ 78	+ 33	- 29	- 52	- 47	- 80	- 63
Sept.	-106	- 60	- 52	- 50	- 67	- 73	-110	-140	-159	-123	- 26	+147	+272	+291	+294	+228	+131	+ 19	- 45	- 45	- 67	- 81	- 83	- 92
Oct.	- 66	+ 08	+ 09	- 15	+ 04	+ 22	+ 19	- 13	- 86	- 86	+ 20	+162	+247	+235	+201	+ 77	+ 17	- 65	- 82	-105	-141	-167	-106	- 93
Nov.	- 94	- 55	- 19	+ 15	+ 29	+ 32	+ 29	+ 28	+ 01	- 09	+ 44	+124	+176	+149	+130	+ 62	+ 44	- 04	- 61	- 89	-130	-117	-144	-140
Dec.	-102	- 50	+ 12	+ 21	+ 23	+ 28	+ 19	+ 16	+ 06	- 20	+ 26	+ 85	+128	+146	+119	+ 79	+ 75	+ 09	- 29	- 58	-110	-143	-144	-130
Year	- 76	- 59	- 62	- 65	- 72	- 77	- 92	-104	-120	- 98	+ 01	+121	+218	+247	+230	+170	+119	+ 52	+ 06	- 25	- 62	- 78	- 86	- 84
Winter	- 87	- 46	- 27	- 18	- 17	- 03	+ 01	- 03	- 11	- 11	+ 36	+101	+159	+163	+139	+ 82	+ 70	+ 24	- 20	- 47	-102	-119	-138	-118
Equinox	- 82	- 52	- 53	- 62	- 63	- 52	- 67	- 89	-133	-129	- 15	+134	+259	+290	+268	+180	+101	+ 01	- 47	- 62	- 74	- 93	- 80	- 80
Summer	- 60	- 78	-105	-115	-137	-178	-210	-222	-217	-154	- 19	+129	+238	+287	+283	+249	+185	+133	+ 84	+ 33	- 10	- 22	- 41	- 55

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	- 06	- 19	- 21	- 22	- 23	- 30	- 30	- 26	- 39	- 36	- 39	- 41	- 43	- 04	+ 24	+ 42	+ 38	+ 48	+ 47	+ 51	+ 57	+ 49	+ 26	+ 07
Feb.	- 17	- 31	- 38	- 33	- 22	- 19	- 25	- 29	- 50	- 56	- 66	- 62	- 61	- 24	+ 17	+ 50	+ 73	+ 89	+ 77	+ 86	+ 66	+ 52	+ 26	+ 11
March	- 28	- 72	- 88	- 94	- 69	- 53	- 34	- 13	- 40	- 50	- 92	-119	-100	- 40	+ 36	+105	+141	+166	+155	+131	+ 86	+ 60	+ 27	- 10
April	- 26	- 54	- 71	- 50	- 21	- 14	- 06	- 23	- 43	- 89	-141	-174	-162	- 97	+ 03	+ 85	+152	+182	+184	+149	+101	+ 70	+ 39	+ 06
May	+ 21	+ 06	+ 02	+ 18	+ 25	+ 24	+ 10	- 19	- 49	- 97	-156	-198	-173	-107	- 24	+ 35	+ 92	+117	+130	+113	+ 91	+ 62	+ 42	+ 29
June	+ 13	- 14	- 21	+ 04	+ 11	+ 10	- 02	- 30	- 51	- 93	-129	-161	-145	- 91	- 22	+ 32	+ 97	+127	+138	+122	+ 89	+ 59	+ 42	+ 24
July	- 21	- 44	- 24	+ 06	+ 07	+ 11	00	- 14	- 43	- 91	-127	-158	-132	- 90	- 14	+ 49	+ 96	+123	+126	+119	+ 96	+ 60	+ 43	+ 10
Aug.	- 25	- 32	- 33	- 19	00	+ 04	+ 12	+ 07	- 21	- 61	-114	-153	-138	- 76	- 05	+ 62	+101	+127	+122	+111	+ 85	+ 48	+ 15	- 04
Sept.	- 53	- 50	- 46	- 45	- 38	- 25	- 08	- 02	- 32	- 49	- 82	- 92	- 72	- 18	+ 16	+ 73	+119	+145	+123	+ 90	+ 72	+ 43	- 09	- 50
Oct.	- 73	- 93	- 98	- 91	- 65	- 64	- 42	- 24	- 43	- 68	- 91	- 81	- 42	+ 26	+ 80	+168	+181	+178	+139	+102	+ 62	+ 19	- 32	- 56
Nov.	- 51	- 64	- 58	- 60	- 45	- 45	- 36	- 29	- 40	- 51	- 60	- 50	- 24	+ 38	+ 66	+ 96	+ 95	+ 90	+ 80	+ 77	+ 53	+ 34	+ 04	- 24
Dec.	- 41	- 39	- 40	- 45	- 33	- 29	- 26	- 26	- 41	- 47	- 48	- 50	- 33	+ 08	+ 38	+ 62	+ 55	+ 72	+ 78	+ 75	+ 68	+ 48	+ 10	- 25
Year	- 26	- 42	- 45	- 36	- 23	- 19	- 16	- 19	- 41	- 67	- 95	-112	- 94	- 40	+ 18	+ 72	+103	+122	+117	+102	+ 77	+ 50	+ 19	- 07
Winter	- 29	- 39	- 39	- 40	- 31	- 31	- 29	- 28	- 43	- 48	- 53	- 51	- 40	+ 05	+ 36	+ 63	+ 65	+ 75	+ 71	+ 72	+ 61	+ 46	+ 17	- 08
Equinox	- 45	- 67	- 76	- 70	- 48	- 39	- 23	- 16	- 40	- 64	-102	-117	- 94	- 32	+ 34	+108	+148	+168	+150	+118	+ 80	+ 48	+ 06	- 28
Summer	- 03	- 21	- 19	+ 02	+ 11	+ 12	+ 05	- 14	- 41	- 86	-132	-168	-147	- 91	- 16	+ 45	+ 97	+124	+129	+116	+ 90	+ 57	+ 36	+ 15

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, 1942	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.	-104	-062	-054	-054	-078	-036	-050	-090	-106	-072	+032	+142	+222	+228	+180	+108	+118	+086	+046	+012	-054	-118	-170	-120
Feb.	-074	-066	+004	-016	-056	-094	-152	-146	-104	-024	+078	+224	+252	+242	+136	+024	+026	+036	+030	+002	-042	-060	-094	-126
March	+006	-046	-116	-052	-136	-122	-158	-268	-380	-352	-092	+220	+466	+492	+426	+264	+124	+048	+030	-070	-088	-074	-054	-072
April	-057	-047	-057	-135	-197	-257	-341	-403	-445	-375	-143	+145	+421	+567	+503	+355	+207	+109	+069	+065	+059	+037	-001	-061
May	-068	-096	-100	-154	-220	-344	-392	-454	-436	-322	-018	+294	+494	+532	+438	+324	+202	+124	+058	+056	+028	+018	+016	+012
June	-093	-129	-169	-193	-295	-423	-449	-445	-399	-265	-001	+271	+419	+479	+451	+379	+269	+219	+151	+111	+067	+053	+027	-033
July	-096	-112	-098	-190	-240	-364	-388	-372	-360	-276	-088	+148	+322	+462	+482	+398	+316	+238	+172	+094	+034	-004	-036	-048
Aug.	-165	-113	-111	-155	-187	-241	-275	-289	-275	-155	+029	+259	+413	+445	+395	+309	+199	+099	+049	+011	-007	-031	-095	-113
Sept.	-215	-145	-075	-101	-129	-119	-201	-349	-421	-355	-143	+245	+513	+609	+583	+449	+325	+155	+059	-015	-051	-165	-213	-247
Oct.	-105	-065	-135	-109	-121	-111	-145	-263	-305	-177	+101	+343	+459	+405	+315	+215	+167	+133	+047	-029	-085	-165	-173	-195
Nov.	-078	-048	-034	-028	-044	-056	-068	-066	-080	-046	+088	+210	+240	+204	+160	+126	+136	-006	-002	-080	-150	-146	-110	-124
Dec.	-049	-033	+001	+017	-019	-017	-041	-055	-079	-095	-029	+081	+161	+199	+137	+077	+069	+027	+001	-025	-059	-101	-105	-069
Year	-092	-080	-079	-098	-144	-182	-222	-267	-283	-210	-016	+215	+365	+405	+351	+252	+180	+106	+059	+011	-029	-063	-084	-100
Winter	-076	-052	-021	-020	-049	-051	-078	-089	-092	-059	+042	+164	+219	+218	+153	+084	+087	+036	+019	-023	-076	-106	-120	-110
Equinox	-093	-076	-096	-099	-146	-152	-211	-321	-388	-315	-070	+238	+465	+518	+457	+321	+206	+111	+051	-012	-041	-092	-110	-144
Summer	-106	-113	-120	-173	-236	-343	-376	-390	-368	-255	-020	+243	+412	+480	+442	+353	+247	+170	+108	+068	+031	+009	-022	-046

INCLINATION (Unit 0.′01)

Jan.	+041	+033	+036	+027	+004	-017	-029	-030	-037	000	+029	+045	+028	+001	-019	-026	-032	-039	-021	-023	-007	+007	+008	+015
Feb.	+038	+044	+031	+018	+001	-012	-025	-019	+003	+042	+053	+036	+028	-004	-014	-007	-017	-018	-029	-044	-039	-027	-027	-012
March	-016	-018	-001	-023	-032	-034	-040	-022	+015	+068	+086	+074	+057	+061	+028	+017	+001	-008	-026	-037	-043	-047	-022	-030
April	+004	+012	+025	+025	+013	+011	+003	+014	+052	+084	+102	+087	+050	+005	-015	-028	-037	-053	-064	-066	-067	-058	-053	-047
May	-011	+009	-001	+007	000	+007	+025	+040	+061	+070	+053	+012	+014	+022	+025	+010	-023	-036	-030	-037	-046	-046	-054	-059
June	-019	-019	-007	-005	+003	+005	+029	+061	+071	+070	+061	+047	+058	+060	+030	-025	-031	-031	-054	-059	-064	-059	-061	-056
July	-003	-006	-003	-015	-019	-011	+023	+063	+094	+101	+090	+070	+076	+047	+021	-028	-041	-054	-074	-091	-083	-072	-050	-043
Aug.	-005	-001	+009	+001	-009	+009	+040	+063	+071	+076	+058	+011	-009	-005	+016	+011	-018	-042	-051	-045	-049	-048	-046	-035
Sept.	-021	-021	-019	-023	-029	-042	-047	-022	+010	+073	+101	+083	+073	+031	+009	+012	+004	+028	-007	-020	-028	-033	-059	-058
Oct.	-010	-008	-001	-007	-018	-024	-024	+010	+069	+112	+093	+073	+045	+035	+006	+004	-030	-039	-045	-046	-045	-046	-042	-057
Nov.	-045	+011	+022	+004	-014	-020	-030	-047	-033	000	+021	+030	+036	+018	+025	+028	+025	+006	-001	+023	-003	-022	-019	-009
Dec.	+046	+036	+034	+017	+007	-014	-033	-041	-041	-003	+036	+032	+013	+004	-012	-021	-021	-015	-021	-014	-006	+005	+007	+018
Year	-000	+006	+010	+002	-008	-012	-009	+006	+028	+058	+065	+050	+039	+023	+008	-004	-018	-025	-035	-038	-040	-037	-035	-031
Winter	+020	+031	+031	+017	-001	-016	-029	-034	-027	+010	+035	+036	+026	+005	-005	-007	-011	-017	-018	-015	-014	-009	-008	+003
Equinox	-011	-009	+001	-007	-017	-022	-027	-005	+037	+084	+096	+079	+056	+033	+007	+001	-016	-018	-036	-042	-046	-046	-044	-048
Summer	-010	-004	-001	-003	-006	+003	+029	+057	+074	+079	+066	+035	+035	+031	+023	-008	-028	-041	-052	-058	-061	-056	-053	-048

HORIZONTAL INTENSITY (Unit 0.1γ)

Jan.	- 56	- 48	- 52	- 38	- 02	+ 28	+ 44	+ 48	+ 50	- 04	- 58	- 82	- 60	- 06	+ 32	+ 44	+ 52	+ 64	+ 32	+ 38	+ 16	- 06	- 14	- 24
Feb.	- 55	- 63	- 43	- 25	+ 05	+ 23	+ 41	+ 33	- 07	- 61	- 81	- 63	- 51	+ 03	+ 25	+ 15	+ 23	+ 27	+ 45	+ 69	+ 59	+ 41	+ 35	+ 11
March	+ 33	+ 33	+ 07	+ 37	+ 51	+ 51	+ 65	+ 51	- 19	-115	-171	-163	-135	-127	- 55	- 07	+ 19	+ 33	+ 57	+ 79	+ 81	+ 87	+ 45	+ 57
April	+ 14	+ 02	- 16	- 12	+ 08	+ 10	+ 20	- 04	- 70	-146	-206	-214	-166	- 74	- 04	+ 38	+ 72	+104	+122	+124	+120	+106	+ 96	+ 84
May	+ 27	- 01	+ 15	+ 13	+ 27	+ 17	- 25	- 59	- 99	-137	-143	-107	-101	- 81	- 47	- 07	+ 69	+ 91	+ 85	+ 83	+ 89	+ 85	+ 95	+ 99
June	+ 39	+ 37	+ 19	+ 25	+ 15	+ 07	- 33	- 93	-117	-133	-131	-129	-135	-117	- 53	+ 39	+ 63	+ 71	+105	+111	+111	+ 99	+101	+ 89
July	+ 12	+ 18	+ 14	+ 40	+ 50	+ 44	- 12	- 78	-134	-176	-194	-186	-186	-130	- 64	+ 36	+ 80	+114	+150	+172	+152	+122	+ 88	+ 70
Aug.	+ 16	+ 14	- 02	+ 18	+ 36	+ 08	- 42	- 82	-112	-134	-126	- 80	- 50	- 38	- 44	- 18	+ 38	+ 84	+ 98	+ 88	+ 90	+ 88	+ 80	+ 60
Sept.	+ 36	+ 34	+ 34	+ 38	+ 54	+ 72	+ 84	+ 52	- 22	-138	-202	-188	-168	- 84	- 32	- 06	+ 24	- 02	+ 44	+ 56	+ 66	+ 70	+ 96	+ 88
Oct.	+ 21	+ 11	- 01	+ 07	+ 31	+ 39	+ 45	- 03	- 99	-179	-163	-135	- 85	- 55	- 05	+ 07	+ 57	+ 67	+ 71	+ 75	+ 71	+ 73	+ 63	+ 83
Nov.	+ 54	- 30	- 42	- 12	+ 24	+ 30	+ 44	+ 66	+ 34	- 22	- 58	- 68	- 64	- 18	- 24	- 22	- 16	+ 14	+ 18	- 18	+ 20	+ 42	+ 28	+ 10
Dec.	- 62	- 52	- 50	- 28	- 04	+ 26	+ 50	+ 66	+ 60	00	- 60	- 62	- 36	- 12	+ 18	+ 38	+ 34	+ 28	+ 36	+ 26	+ 14	- 02	- 10	- 28
Year	+ 07	- 04	- 10	+ 05	+ 25	+ 30	+ 23	- 00	- 45	-104	-133	-123	-103	- 62	- 21	+ 13	+ 43	+ 58	+ 72	+ 75	+ 74	+ 67	+ 59	+ 50
Winter	- 30	- 48	- 47	- 26	+ 06	+ 27	+ 45	+ 53	+ 34	- 22	- 64	- 69	- 53	- 08	+ 13	+ 19	+ 23	+ 33	+ 33	+ 29	+ 27	+ 19	+ 10	- 08
Equinox	+ 26	+ 20	+ 06	+ 18	+ 37	+ 43	+ 54	+ 24	- 53	-145	-186	-175	-139	- 85	- 24	+ 08	+ 43	+ 51	+ 74	+ 84	+ 85	+ 84	+ 75	+ 78
Summer	+ 24	+ 17	+ 12	+ 24	+ 32	+ 19	- 28	- 78	-116	-145	-149	-126	-118	- 92	- 52	+ 13	+ 63	+ 90	+110	+114	+111	+ 99	+ 91	+ 80

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

International Quiet Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1942	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.	- 45	- 41	- 46	- 32	+ 06	+ 31	+ 48	+ 56	+ ***60***	+ 03	- 60	- ***95***	- 81	- 28	+ 14	+ 33	+ 40	+ 54	+ 27	+ 36	+ 21	+ 06	+ 03	- 12
Feb.	- 47	- 55	- 43	- 23	+ 10	+ 32	+ 55	+ 47	+ 03	- 58	- ***87***	- 84	- 75	- 21	+ 11	+ 12	+ 20	+ 23	+ 41	+ ***68***	+ 62	+ 46	+ 44	+ 23
March	+ 32	+ 37	+ 18	+ 42	+ 64	+ 62	+ 79	+ 76	+ 19	- 78	-159	-***182***	-179	-173	- 96	- 33	+ 07	+ 28	+ 53	+ 85	+ 88	+ ***93***	+ 50	+ 63
April	+ 19	+ 07	- 10	+ 02	+ 27	+ 35	+ 53	+ 36	- 25	-107	-188	-***225***	-205	-128	- 53	+ 03	+ 51	+ 92	+113	+***116***	+112	+101	+ 95	+ 89
May	+ 33	+ 08	+ 25	+ 28	+ 48	+ 51	+ 14	- 13	- 54	-103	-139	-134	-***148***	-132	- 89	- 39	+ 48	+ 77	+ 78	+ 76	+ 85	+ 82	+ 92	+ ***96***
June	+ 47	+ 49	+ 35	+ 44	+ 44	+ 49	+ 12	- 48	- 76	-105	-129	-153	-***174***	-162	- 96	+ 01	+ 36	+ 48	+ 88	+ 98	+***103***	+ 92	+ 97	+ 91
July	+ 21	+ 29	+ 23	+ 58	+ 73	+ 79	+ 26	- 40	- 96	-146	-182	-197	-***215***	-173	-110	- 04	+ 48	+ 89	+131	+***160***	+146	+120	+ 90	+ 74
Aug.	+ 32	+ 25	+ 09	+ 33	+ 54	+ 32	- 14	- 52	- 83	-117	-***127***	-104	- 90	- 81	- 82	- 48	+ 18	+ 73	+ ***92***	+ 85	+ 89	+ 90	+ 88	+ 70
Sept.	+ 57	+ 48	+ 41	+ 47	+ 66	+ 83	+102	+ 85	+ 20	-101	-185	-209	-***216***	-143	- 89	- 50	- 08	- 17	+ 38	+ 57	+ 70	+ 85	+***115***	+111
Oct.	+ 31	+ 17	+ 12	+ 18	+ 42	+ 49	+ 59	+ 23	- 67	-159	-***170***	-166	-129	- 94	- 36	- 14	+ 40	+ 53	+ 65	+ 77	+ 78	+ 88	+ 79	+***101***
Nov.	+ 61	- 25	- 38	- 09	+ 28	+ 35	+ 50	+ ***71***	+ 41	- 17	- 66	- ***87***	- ***87***	- 38	- 39	- 34	- 29	+ 14	+ 18	- 10	+ 34	+ 56	+ 38	+ 22
Dec.	- 56	- 48	- 49	- 29	- 02	+ 27	+ 53	+ ***70***	+ 67	+ 09	- 56	- ***69***	- 51	- 31	+ 04	+ 30	+ 27	+ 25	+ 35	- 28	+ 20	+ 08	+ 01	- 21
Year	+ 15	+ 04	- 02	+ 15	+ 38	+ 47	+ 45	+ 26	- 16	- 82	-129	-***142***	-138	-100	- 55	- 12	+ 25	+ 47	+ 65	+ 73	+ ***76***	+ 72	+ 66	+ 59
Winter	- 22	- 42	- 44	- 23	+ 11	+ 31	+ 52	+ ***61***	+ 43	- 16	- 67	- ***84***	- 74	- 30	- 03	+ 10	+ 15	+ 29	+ 30	+ 31	+ 34	+ 29	+ 22	+ 03
Equinox	+ 35	+ 27	+ 15	+ 27	+ 50	+ 57	+ 73	+ 55	- 13	-111	-176	-***196***	-182	-135	- 69	- 24	+ 23	+ 39	+ 67	+ 84	+ 87	+ ***92***	+ 85	+ 91
Summer	+ 33	+ 28	+ 23	+ 41	+ 55	+ 53	+ 10	- 38	- 77	-118	-144	-147	-***157***	-137	- 94	- 23	+ 38	+ 72	+ 97	+105	+***106***	+ 96	+ 92	+ 83

WEST COMPONENT (Unit 0.1γ)

Jan.	- 65	- 42	- 38	- 36	- 42	- 14	- 19	- 39	- 47	- 39	+ 06	+ 60	+107	+***120***	+101	+ 65	+ 72	+ 57	+ 30	+ 13	- 26	- 64	- ***93***	- 68
Feb.	- 49	- 47	- 06	- 13	- 29	- 46	- ***73***	- 71	- 57	- 24	+ 27	+107	+124	+***129***	+ 77	+ 15	+ 18	+ 24	+ 24	+ 14	- 12	- 24	- 43	- 65
March	+ 09	- 18	- 60	- 21	- 63	- 55	- 72	-133	-205	-***208***	- 80	+ 87	+223	+***238***	+216	+139	+ 69	+ 32	+ 26	- 23	- 32	- 23	- 20	- 28
April	- 28	- 25	- 33	- 74	-103	-135	-177	-214	-***249***	-226	-113	+ 38	+193	+***287***	+266	+195	+123	+ 77	+ 59	+ 57	+ 53	+ 39	+ 17	- 17
May	- 31	- 51	- 50	- 79	-112	-179	-213	-***252***	-249	-196	- 36	+136	+244	+***267***	+224	+171	+120	+ 82	+ 46	+ 45	+ 31	+ 25	+ 26	+ 24
June	- 42	- 62	- 86	- 98	-154	-223	-244	-***253***	-233	-165	- 24	+120	+198	+***233***	+230	+208	+154	+129	+ 99	+ 79	+ 56	+ 46	+ 33	- 01
July	- 49	- 56	- 50	- 94	-118	-185	-208	-212	-***215***	-178	- 82	+ 45	+137	+221	+***244***	+218	+182	+147	+119	+ 81	+ 46	+ 20	- 03	- 13
Aug.	- 85	- 57	- 59	- 79	- 93	-126	-153	-***168***	-166	-107	- 08	+123	+210	+***229***	+201	+161	+112	+ 68	+ 44	+ 22	+ 13	- 00	- 36	- 49
Sept.	-107	- 71	- 34	- 47	- 59	- 50	- 91	-176	-***227***	-213	-113	+ 96	+241	+***308***	+303	+237	+177	+ 82	+ 39	+ 02	- 15	- 75	- 96	-115
Oct.	- 52	- 33	- 72	- 57	- 59	- 52	- 69	-140	-***180***	-127	+ 24	+157	+***228***	+205	+166	+115	+ 99	+ 83	+ 38	- 02	- 32	- 74	- 80	- 88
Nov.	- 32	- 31	- 26	- 17	- 19	- 24	- 28	- 23	- 36	- 28	+ 36	+ 99	+***116***	+105	+ 80	+ 63	+ 69	- 01	+ 02	- 46	- ***76***	- 70	- 53	- 64
Dec.	- 37	- 27	- 09	+ 04	- 11	- 04	- 13	- 17	- 31	- 50	- 26	+ 32	+ 79	+***103***	+ 76	+ 48	+ 43	+ 19	+ 07	- 09	- 29	- 54	- ***58***	- 42
Year	- 47	- 43	- 44	- 51	- 72	- 91	-113	-141	-***158***	-130	- 32	+ 92	+175	+***204***	+182	+136	+103	+ 67	+ 44	+ 19	- 02	- 21	- 34	- 44
Winter	- 46	- 37	- 20	- 16	- 25	- 22	- 33	- 38	- 43	- 35	+ 11	+ 75	+107	+***114***	+ 84	+ 48	+ 51	+ 25	+ 16	- 07	- 36	- 53	- ***62***	- 60
Equinox	- 45	- 37	- 50	- 50	- 71	- 73	-102	-166	-***215***	-194	- 71	+ 95	+221	+***260***	+238	+172	+117	+ 69	+ 41	+ 09	- 07	- 33	- 45	- 62
Summer	- 52	- 57	- 61	- 88	-119	-178	-205	-***221***	-216	-162	- 38	+106	+197	+***238***	+225	+190	+142	+107	+ 77	+ 57	+ 37	+ 23	+ 05	- 10

VERTICAL COMPONENT (Unit 0.1γ)

Jan.	+ 11	+ 05	+ 05	+ 05	+ 11	+ 07	+ 03	+ 07	- 09	- 11	- 33	- 33	- ***41***	- 09	+ 09	+ ***15***	+ 11	+ 13	+ 05	+ 11	+ ***15***	+ 11	- 05	- 03
Feb.	+ 04	+ 06	+ 06	+ 02	+ ***14***	+ 12	+ 10	+ 10	- 06	+ 02	- 08	- ***20***	- ***20***	- 06	+ 12	+ 12	- 06	00	+ 04	+ 06	+ 02	+ 02	- 12	- 18
March	+ 20	+ 14	+ 14	+ 06	+ 06	00	+ 14	+ 42	+ 08	- 30	-102	-***126***	-118	- 84	- 30	+ 40	+ 50	+ 48	+ 40	+ ***54***	+ 42	+ 40	+ 26	+ 26
April	+ 44	+ 44	+ 48	+ 60	+ ***62***	+ ***62***	+ 56	+ 38	+ 16	- 48	-128	-198	-***214***	-154	- 64	- 08	+ 38	+ 58	+ ***62***	+ 58	+ 50	+ 46	+ 40	+ 36
May	+ 25	+ 29	+ 31	+ 55	+ 63	+ 63	+ 29	- 01	- 21	- 75	-149	-***209***	-187	-113	- 25	+ 17	+ 79	+ 85	+ ***93***	+ 67	+ 47	+ 39	+ 35	+ 29
June	+ 24	+ 20	+ 22	+ 42	+ 44	+ 36	+ 24	- 08	- 26	- 68	- 94	-***140***	-114	- 66	- 22	+ 02	+ 38	+ ***60***	+ ***60***	+ 54	+ 38	+ 28	+ 24	+ 14
July	+ 19	+ 21	+ 21	+ 43	+ 51	+ 67	+ 53	+ 37	+ 13	- 59	-143	-***189***	-169	-139	- 77	- 13	+ 45	+ 79	+ ***95***	+ 85	+ 67	+ 35	+ 31	+ 15
Aug.	+ 21	+ 29	+ 29	+ 45	+ 51	+ 49	+ 43	+ 29	- 13	- 47	- 93	-***149***	-***149***	-107	- 49	- 05	+ 29	+ ***53***	+ ***53***	+ 49	+ 43	+ 37	+ 27	+ 19
Sept.	+ 10	+ 06	+ 14	+ 10	+ 24	+ 22	+ 36	+ 46	- 16	- 70	-120	-***152***	-140	- 90	- 44	+ 28	+ 70	+ ***94***	+ 80	+ 62	+ 56	+ 48	+ 20	+ 02
Oct.	+ 14	- 04	- 08	- 08	+ 10	+ 06	+ 20	+ 28	+ 06	- 28	- 60	- ***64***	- 40	- 06	+ 12	+ ***30***	+ 26	+ 20	+ 12	+ 14	+ 10	+ 12	00	- 02
Nov.	- 31	- 31	- 21	- 13	+ 07	- 01	- 01	- 09	- 33	- 53	- ***61***	- 55	- 25	+ 21	+ 31	+ 45	+ 47	+ ***53***	+ 37	+ 37	+ 35	+ 21	+ 01	- 07
Dec.	+ 13	+ 03	- 01	- 07	+ 13	+ 11	+ 05	+ 09	- 05	- 11	- 15	- 33	- ***39***	- 13	- 01	+ ***19***	+ 07	+ 13	+ 09	+ 09	+ 11	+ 13	- 01	- 03
Year	+ 15	+ 12	+ 13	+ 20	+ 30	+ 28	+ 24	+ 19	- 07	- 42	- 84	-***114***	-105	- 64	- 21	+ 15	+ 36	+ ***48***	+ 46	+ 42	+ 35	+ 28	+ 16	+ 09
Winter	- 01	- 04	- 03	- 03	+ 11	+ 07	+ 04	+ 04	- 13	- 18	- 29	- ***35***	- 31	- 02	+ 13	+ ***23***	+ 15	+ 20	+ 14	+ 16	+ 16	+ 12	- 04	- 08
Equinox	+ 22	+ 15	+ 17	+ 17	+ 26	+ 23	+ 32	+ 39	+ 04	- 44	-103	-***135***	-128	- 84	- 32	+ 23	+ 46	+ ***55***	+ 49	+ 47	+ 40	+ 37	+ 22	+ 16
Summer	+ 22	+ 25	+ 26	+ 46	+ 52	+ 54	+ 37	+ 14	- 12	- 62	-120	-***172***	-155	-106	- 43	+ 00	+ 48	+ 69	+ ***75***	+ 64	+ 49	+ 35	+ 29	+ 19

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, 1942	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.	-117	-141	-085	-149	-131	-069	+067	+115	+183	+185	+255	+207	+307	+323	+203	+147	+169	+121	+001	-133	-159	-411	-571	-319
Feb.	-291	-109	-397	-307	-391	-217	-169	-099	+035	+105	+187	+361	+557	+677	+687	+467	+367	+047	-235	-035	-353	-365	-439	-085
March	+189	-195	-127	+061	+081	+115	+199	+489	+279	-541	+025	-065	+157	+221	+265	+065	-007	-235	-223	-255	-197	-169	-203	+081
April	-519	-793	-449	-499	-353	-225	-081	+121	-115	-009	+191	+485	+791	+923	+863	+655	+367	+117	-335	-201	-093	-303	-325	-203
May	-319	-273	-379	-409	-451	-331	-227	-221	-229	-127	+159	+431	+603	+709	+685	+637	+527	+335	+117	-015	-177	-277	-419	-359
June	-013	-161	-311	-457	-401	-433	-545	-507	-523	-331	+023	+357	+617	+749	+797	+723	+525	+359	+201	+011	-165	-087	-143	-289
July	-381	-521	-461	-239	-313	-341	-317	-171	-243	-085	+123	+381	+585	+689	+667	+513	+445	+175	+105	+035	-193	-307	-085	-063
Aug.	-072	-080	-262	-076	-180	-378	-382	-320	-348	-232	+130	+370	+668	+744	+828	+622	+370	+260	000	-338	-450	-274	-406	-198
Sept.	-354	-250	-118	-200	-200	-064	-164	-092	-080	+022	+106	+348	+626	+596	+700	+528	+194	-072	-268	-174	-270	-274	-280	-268
Oct.	-198	-092	+044	-054	+110	+090	+108	+316	+050	-008	+138	+426	+734	+770	+806	+342	+020	-296	-232	-688	-678	-764	-558	-398
Nov.	-343	-079	-067	+195	+309	+253	+241	+299	+267	+201	+221	+341	+465	+265	+273	+047	-095	-297	-295	-413	-349	-275	-581	-573
Dec.	-479	-189	-037	+105	+177	+155	+055	+055	+127	+091	+255	+307	+461	+467	+401	+065	+187	-105	-251	-129	-371	-531	-495	-331
Year	-241	-240	-221	-169	-145	-120	-101	-001	-050	-061	+151	+329	+548	+594	+598	+401	+256	+034	-118	-195	-288	-336	-375	-250
Winter	-308	-130	-147	-039	-009	+031	+049	+093	+153	+146	+230	+304	+448	+433	+391	+182	+157	-059	-195	-178	-308	-396	-522	-327
Equinox	-221	-333	-163	-173	-091	-021	+016	+209	+034	-134	+115	+299	+577	+628	+659	+398	+144	-122	-265	-330	-310	-378	-342	-197
Summer	-196	-259	-353	-295	-336	-371	-368	-305	-336	-194	+109	+385	+618	+723	+744	+624	+467	+282	+106	-077	-246	-236	-263	-227

INCLINATION (Unit 0.′01)

Jan.	+018	-023	+003	-039	-116	-119	-133	-097	-031	+013	+073	+031	-022	-013	+043	+077	+030	+016	-001	+052	+073	+093	+070	+004
Feb.	-065	-065	-055	-077	-092	-109	-147	-123	-060	-098	-087	-003	-008	-057	-011	+158	+221	+225	+116	+148	+068	+061	+054	+011
March	-111	-135	-102	-097	-031	-050	-067	+046	+338	+162	-027	-018	-019	-038	-057	+013	-028	+131	+100	+079	-072	+024	-039	+001
April	-108	-117	-086	-170	-143	-211	-056	-019	+016	+071	+175	+208	+160	+083	+109	+127	+098	+104	+064	+030	-055	-050	-118	-106
May	-035	-125	-070	-070	-064	-021	+041	+025	+073	+087	+058	+049	+039	+025	+034	-019	-032	-004	-030	-060	+014	+016	+039	+020
June	-088	-088	-068	-032	-011	-031	+023	+064	+087	+124	+105	+050	+001	-002	+015	-045	-118	-075	-005	+039	+042	+051	-018	-013
July	-092	-129	-061	-068	-077	-056	+012	-045	+087	+120	+104	+061	+092	+103	+117	+079	+052	+007	-065	-056	-056	-026	-014	-080
Aug.	-131	-136	-091	-056	-043	-025	+031	+083	+119	+147	+125	+084	+039	+063	+017	-028	+064	+015	+030	-016	-026	-044	-118	-101
Sept.	-122	-094	-065	-119	-056	-058	-027	+029	+130	+218	+237	+162	+092	+110	+080	+063	+047	-027	-053	-022	-024	-127	-219	-154
Oct.	-208	-159	-145	-174	-239	-207	-163	-081	-121	-012	+126	+131	+127	+142	+103	+161	+264	+246	+246	+127	+037	+049	-101	-140
Nov.	-048	-146	-146	-160	-233	-165	-115	-055	+018	+084	+122	+080	+116	+166	+143	+177	+123	+092	+078	+046	-010	-033	-071	-055
Dec.	-081	-087	-083	-125	-142	-187	-202	-128	-081	-006	+076	+049	+143	+144	+173	+053	+085	+135	+135	+142	+059	+015	-017	-064
Year	-089	-109	-081	-099	-104	-103	-067	-025	+048	+076	+091	+074	+063	+061	+064	+068	+067	+072	+051	+042	+004	+002	-046	-056
Winter	-044	-080	-070	-100	-146	-145	-149	-101	-039	-003	+046	+039	+057	+060	+087	+116	+115	+117	+083	+097	+048	+034	+009	-026
Equinox	-137	-126	-100	-140	-117	-132	-078	-006	+091	+110	+128	+121	+090	+074	+059	+091	+095	+114	+089	+054	-029	-026	-119	-100
Summer	-087	-120	-073	-057	-049	-033	+027	+032	+092	+120	+098	+061	+043	+047	+046	-003	-009	-014	-018	-023	-007	-001	-028	-044

HORIZONTAL INTENSITY (Unit 0.1γ)

Jan.	- 13	+ 33	- 13	+ 39	+147	+151	+169	+111	+ 09	- 51	-129	- 65	+ 17	+ 19	- 45	- 77	- 15	+ 03	+ 27	- 49	- 77	-109	- 83	- 01
Feb.	+ 79	+ 57	+ 31	+ 71	+ 95	+127	+179	+141	+ 37	+ 85	+ 59	- 63	- 61	+ 47	+ 29	-173	-197	-187	- 55	-115	- 37	- 55	- 79	- 25
March	+ 81	+ 77	+ 25	+ 19	- 33	+ 15	+ 47	-115	-559	-243	+ 33	+ 09	+ 27	+ 97	+167	+ 83	+171	- 57	- 05	- 13	+151	- 15	+ 69	- 39
April	+137	+127	+ 59	+165	+143	+241	+ 13	- 45	- 99	-185	-347	-377	-285	-125	-105	- 67	+ 13	+ 09	+ 47	+ 61	+131	+123	+207	+153
May	+ 53	+161	+ 83	+ 95	+ 87	+ 19	- 85	- 67	-143	-181	-163	-159	-131	- 71	- 43	+ 69	+113	+ 87	+133	+169	+ 39	+ 09	- 43	- 23
June	+135	+113	+ 75	+ 29	+ 05	+ 29	- 55	-123	-177	-245	-235	-169	- 97	- 51	- 33	+ 99	+259	+213	+125	+ 49	+ 11	- 31	+ 47	+ 19
July	+119	+163	+ 69	+ 95	+101	+ 69	- 53	+ 17	-197	-261	-243	-183	-207	-183	-145	- 35	+ 19	+ 89	+189	+171	+153	+ 79	+ 49	+117
Aug.	+157	+155	+ 85	+ 31	+ 25	+ 01	- 67	-141	-197	-255	-235	-183	-103	-107	- 19	+101	- 07	+ 81	+ 61	+117	+103	+ 93	+171	+127
Sept.	+119	+ 85	+ 51	+133	+ 39	+ 61	+ 15	- 61	-225	-349	-383	-265	-145	-133	- 83	- 31	+ 23	+141	+157	+ 89	+ 87	+209	+299	+163
Oct.	+249	+157	+137	+169	+269	+235	+185	+ 69	+117	- 41	-257	-241	-197	-193	-111	- 95	-207	-163	-181	- 59	+ 07	- 87	+107	+121
Nov.	+ 23	+153	+159	+161	+267	+179	+129	+ 51	- 55	-147	-203	-123	-159	-189	-137	-177	- 81	- 49	- 45	- 05	+ 49	+ 71	+ 87	+ 35
Dec.	+ 78	+ 94	+ 86	+142	+164	+234	+256	+150	+ 78	- 28	-140	- 96	-220	-186	-206	- 08	- 74	-136	-118	-136	- 26	+ 14	+ 22	+ 54
Year	+101	+115	+ 71	+ 96	+109	+113	+ 61	- 01	-118	-158	-187	-160	-130	- 90	- 61	- 26	+ 01	+ 03	+ 28	+ 23	+ 49	+ 25	+ 71	+ 58
Winter	+ 42	+ 84	+ 66	+103	+168	+173	+183	+113	+ 17	- 35	-103	- 87	-106	- 77	- 90	-109	- 92	- 92	- 48	- 76	- 23	- 20	- 13	+ 16
Equinox	+147	+112	+ 68	+122	+105	+138	+ 65	- 38	-192	-205	-239	-219	-148	- 89	- 33	- 28	00	- 18	+ 05	+ 20	+ 94	+ 58	+171	+100
Summer	+116	+148	+ 78	+ 63	+ 55	+ 30	- 65	- 79	-179	-236	-219	-174	-135	-103	- 60	+ 59	+ 96	+118	+127	+127	+ 77	+ 38	+ 56	+ 60

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1942	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jan.	- 01	+ 46	- 04	+ 53	+157	+155	***+160***	+ 98	- 09	- 68	***-152***	- 84	- 14	- 13	- 64	- 90	- 31	- 09	+ 26	- 35	- 60	- 67	- 26	+ 30
Feb.	+106	+ 67	+ 70	+100	+132	+146	***+193***	+148	+ 33	+ 73	+ 40	- 97	-115	- 20	- 39	-216	***-230***	-188	- 31	-110	- 02	- 18	- 35	- 16
March	+ 61	+ 95	+ 37	+ 13	- 40	+ 03	+ 27	-161	***-577***	-186	+ 30	+ 15	+ 11	+ 74	+138	+ 75	***+169***	- 33	+ 17	+ 12	+168	+ 02	+ 88	- 46
April	+186	+203	+102	+211	+175	***+259***	+ 21	- 56	- 86	-181	-360	***-418***	-358	-214	-188	-130	- 23	- 03	+ 79	+ 80	+138	+151	+235	+170
May	+ 84	***+185***	+119	+134	+130	+ 51	- 61	- 44	-118	-165	-176	***-199***	-188	-140	-110	+ 05	+ 59	+ 53	+119	+168	+ 56	+ 36	- 01	+ 13
June	+134	+127	+104	+ 73	+ 44	+ 71	- 01	- 71	-123	-208	***-233***	-201	-156	-124	-111	+ 26	***+203***	+174	+103	+ 47	+ 27	- 22	+ 60	+ 47
July	+155	***+211***	+113	+117	+130	+101	- 21	+ 34	-170	-248	-251	-217	***-261***	-248	-208	- 85	- 25	+ 70	+176	+165	+169	+108	+ 57	+121
Aug.	+161	+160	+109	+ 38	+ 42	+ 38	- 28	-107	-160	-228	***-244***	-216	-167	-178	-100	+ 38	- 43	+ 54	+ 60	+148	+145	+118	***+208***	+144
Sept.	+152	+108	+ 62	+150	+ 58	+ 66	+ 31	- 51	-213	-345	***-387***	-295	-204	-189	-150	- 82	+ 04	+146	+181	+105	+112	+232	***+321***	+187
Oct.	***+264***	+163	+130	+171	+254	+222	+171	+ 37	+110	- 40	-266	***-279***	-266	-265	-188	-127	-206	-131	-155	+ 10	+ 74	- 10	+160	+158
Nov.	+ 56	+158	+163	+139	***+232***	+151	+103	+ 21	- 80	-164	***-221***	-154	-202	-212	-162	-179	- 70	- 19	- 15	+ 36	+ 83	+ 97	+143	+ 91
Dec.	+124	+111	+ 88	+129	+144	+215	***+246***	+142	+ 64	- 36	-163	-125	***-262***	-229	-242	- 14	- 91	-123	- 91	-121	+ 11	+ 66	+ 70	+ 86
Year	+124	***+136***	+ 91	+111	+122	+123	+ 70	- 01	-111	-150	***-199***	-189	-182	-147	-119	- 65	- 24	- 01	+ 39	+ 42	+ 77	+ 58	+107	+ 82
Winter	+ 71	+ 96	+ 79	+105	+166	+167	***+176***	+102	+ 02	- 49	-124	-115	***-148***	-119	-127	-125	-106	- 85	- 28	- 58	+ 08	+ 20	+ 38	+ 48
Equinox	+166	+142	+ 83	+136	+112	+138	+ 63	- 58	-192	-188	***-246***	-244	-204	-149	- 97	- 66	- 14	- 05	+ 31	+ 52	+123	+ 94	***+201***	+117
Summer	+134	***+171***	+111	+ 91	+ 87	+ 65	- 28	- 47	-143	-212	***-226***	-208	-193	-173	-132	- 04	+ 49	+ 88	+115	+132	+ 99	+ 60	+ 81	+ 81

WEST COMPONENT (Unit 0.1γ)

Jan.	- 64	- 69	- 48	- 72	- 43	- 09	+ 66	+ 81	+ 99	+ 89	+112	+ 98	+166	***+175***	+100	+ 64	+ 87	+ 65	+ 05	- 79	- 98	-238	***-318***	-169
Feb.	-140	- 47	-205	-150	-190	- 92	- 57	- 27	+ 25	+ 71	+110	+180	+284	+368	***+370***	+216	+159	- 09	-135	- 40	-194	-204	***-247***	- 50
March	+115	- 89	- 63	+ 36	+ 37	+ 64	+114	***+238***	+ 46	***-331***	+ 19	- 33	+ 88	+135	+171	+ 50	+ 27	-135	-119	-138	- 77	- 92	- 95	+ 36
April	-250	***-397***	-227	-235	-161	- 75	- 41	+ 56	- 79	- 39	+ 38	+189	+368	***+467***	+439	+335	+197	+ 64	-169	- 96	- 26	-138	-135	- 80
May	-160	-116	-186	-200	-223	-172	-136	-129	-147	-100	+ 55	+200	+296	***+363***	+356	+350	+300	+194	+ 86	+ 23	- 87	-145	***-230***	-195
June	+ 18	- 65	-151	-237	-212	-224	-299	-291	***-310***	-220	- 31	+159	+310	+388	***+417***	+401	+326	+229	+129	+ 15	- 86	- 52	- 67	-150
July	-180	***-247***	-232	-109	-148	-168	-178	- 88	-165	- 93	+ 21	+169	+273	***+332***	+327	+266	+240	+109	+ 90	+ 50	- 75	-148	- 36	- 12
Aug.	- 10	- 14	-123	- 35	- 91	-200	-215	-195	***-220***	-169	+ 26	+163	+336	+375	***+436***	+348	+195	+153	+ 11	-158	***-220***	-128	-184	- 82
Sept.	***-166***	-117	- 53	- 82	- 99	- 23	- 84	- 60	- 83	- 52	- 14	+136	+306	+292	***+356***	+274	+107	- 13	-114	- 76	-127	-107	- 94	-112
Oct.	- 60	- 20	+ 48	+ 02	+107	+ 91	+ 91	+180	+ 48	- 12	+ 26	+182	+353	+373	***+407***	+164	- 27	-187	-156	***-376***	-358	-421	-276	-189
Nov.	-178	- 14	- 07	+133	+213	+167	+151	+168	+132	+ 80	+ 80	+158	***+218***	+106	+120	- 07	- 65	-166	-165	-220	-176	-133	-292	***-298***
Dec.	-240	- 83	- 04	+ 82	+124	+125	+ 76	+ 57	+ 82	+ 43	+110	+145	+205	***+214***	+175	+ 33	+ 86	- 81	-155	- 93	-201	***-279***	-259	-166
Year	-110	-107	-104	- 72	- 57	- 43	- 43	- 01	- 48	- 61	+ 46	+146	+267	+299	***+306***	+208	+136	+ 19	- 58	- 99	-144	-174	***-186***	-122
Winter	-156	- 53	- 66	- 02	+ 26	+ 48	+ 59	+ 70	+ 85	+ 71	+103	+145	***+218***	+216	+191	+ 77	+ 67	- 48	-113	-108	-167	-214	***-279***	-171
Equinox	- 90	-156	- 74	- 70	- 29	+ 14	+ 20	+104	- 17	-109	+ 17	+119	+279	+317	***+343***	+206	+ 76	- 68	-140	-172	-147	***-190***	-150	- 86
Summer	- 83	-111	-173	-145	-169	-191	-207	-176	***-211***	-146	+ 18	+173	+304	+365	***+384***	+341	+265	+171	+ 79	- 18	-117	-118	-129	-110

VERTICAL INTENSITY (Unit 0.1γ)

Jan.	+ 32	- 02	- 20	- 44	- 58	- 60	- 66	- 76	***- 88***	- 72	- 50	- 44	- 38	00	+ 46	***+ 88***	+ 68	+ 62	+ 60	+ 66	+ 74	+ 68	+ 50	+ 10
Feb.	- 40	- 92	-118	-100	- 98	- 82	- 92	- 96	-120	-142	***-162***	-154	-168	- 86	+ 30	+144	+304	***+344***	+272	+246	+148	+ 82	+ 04	- 22
March	-195	-287	***-295***	-291	-183	-139	-121	-107	-131	- 07	- 19	- 43	- 03	+ 95	+191	+239	+301	+323	***+337***	+243	+103	+ 49	+ 23	- 85
April	- 55	-109	-159	-203	-163	-171	-163	-169	-175	-187	***-205***	-159	-111	- 05	+133	+285	+371	***+379***	+333	+247	+115	+115	+ 71	- 09
May	+ 04	- 60	- 50	- 22	- 16	- 28	- 54	- 70	- 78	-122	-180	***-202***	-168	- 80	+ 18	+ 94	+152	+192	***+206***	+188	+140	+ 76	+ 36	+ 16
June	+ 09	- 41	- 61	- 43	- 29	- 39	- 49	- 67	-109	-141	-185	***-223***	-221	-125	- 25	+ 77	+195	+237	***+273***	+249	+171	+103	+ 49	- 01
July	- 43	- 67	- 51	- 15	- 31	- 35	- 83	-117	-159	-195	-207	***-215***	-161	- 69	+ 65	+191	+225	***+233***	+213	+205	+161	+ 93	+ 65	- 05
Aug.	- 87	-111	-117	-121	- 91	- 83	- 49	- 41	- 47	- 85	-115	***-135***	-105	- 31	+ 15	+139	+205	+241	***+247***	+219	+149	+ 63	- 09	- 55
Sept.	-146	-128	-108	-100	-104	- 60	- 58	- 42	- 74	- 58	- 74	- 54	- 20	+ 68	+ 84	+146	+214	***+234***	+184	+130	+120	+ 48	- 62	***-152***
Oct.	-140	-184	-182	***-206***	-200	-170	-132	-120	-146	-140	-162	-106	- 22	+ 42	+ 98	+334	+432	***+472***	+430	+302	+146	- 36	-102	-204
Nov.	-114	-148	-136	-180	***-182***	-156	- 98	- 72	- 66	- 52	- 52	- 16	+ 30	+134	+176	+202	***+234***	+204	+166	+150	+ 80	+ 52	- 40	-106
Dec.	-102	- 84	- 88	-100	***-112***	-104	-104	- 94	-100	- 86	- 64	- 56	- 16	+ 66	+116	+166	+122	+150	***+194***	+174	+146	+ 82	- 08	- 96
Year	- 73	-109	-115	-119	***-106***	- 94	- 89	- 89	-108	-107	***-123***	-117	- 84	+ 01	+ 79	+175	+235	***+256***	+243	+202	+129	+ 66	+ 06	- 59
Winter	- 56	- 82	- 91	-106	***-113***	-101	- 90	- 85	- 94	- 88	- 82	- 68	- 48	+ 29	+ 92	+150	+182	***+190***	+173	+159	+112	+ 71	+ 02	- 54
Equinox	-134	-177	-186	***-200***	-163	-135	-119	-110	-132	- 98	-115	- 91	- 39	+ 50	+128	+251	+330	***+352***	+321	+231	+121	+ 44	- 18	-113
Summer	- 29	- 70	- 70	- 50	- 42	- 46	- 59	- 74	- 98	-136	-172	***-194***	-164	- 76	+ 18	+125	+194	+226	***+235***	+215	+155	+ 84	+ 35	- 11

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															
1942	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+ 2.6	+4.5	-4.5	-0.4	+1.9	-2.3	+0.4	+1.0	-10.1	- 2.1	-0.2	+ 5.4	-0.6	-0.3	+1.6	+1.5	+1.6	- 4.3	- 1.5	-0.2	+0.3	-0.5	-0.8	-0.1
Feb.	+ 2.6	+4.1	-2.8	-0.9	+1.3	-1.7	+0.2	+1.0	-10.3	- 4.6	+2.8	+ 4.5	-1.1	-0.4	+0.8	+2.4	+2.2	- 5.8	- 3.4	-0.3	+0.6	-0.5	-0.1	-0.3
March	+ 9.6	-0.3	-3.7	-1.1	+0.4	-2.4	+0.2	+0.1	-10.1	- 6.6	+4.1	+ 7.5	-1.0	-5.4	+1.4	+2.6	+1.5	-10.0	- 6.3	-1.4	+2.9	+0.1	-0.3	-0.1
April	+14.6	+0.1	-7.4	-1.5	+2.9	-1.8	+0.0	+0.3	-11.9	-12.9	+5.7	+11.1	-1.9	-6.6	+0.6	+1.4	+4.9	- 9.5	- 9.1	-0.9	+2.8	+0.2	-0.1	-0.6
May	+11.2	-3.3	-6.5	+0.2	+0.6	+1.1	+0.5	-0.7	- 9.5	-17.0	+4.5	+ 9.5	-2.1	-1.8	+1.4	+0.3	+8.0	- 5.3	- 7.6	+0.5	+2.1	-0.0	-0.6	-0.0
June	+12.5	-3.9	-6.3	+1.8	+0.8	+0.3	+1.0	-0.4	- 8.5	-20.9	+6.3	+ 8.7	-2.1	-1.9	+1.1	+0.1	+6.6	- 6.2	- 7.0	-0.1	+1.5	+0.2	+0.0	-0.3
July	+14.5	-5.4	-6.2	+0.3	-0.5	-0.3	+1.3	+0.2	- 9.2	-16.7	+3.1	+ 8.3	-2.0	-3.0	+0.9	+0.5	+5.5	- 6.2	- 7.4	-0.3	+1.3	-0.4	-0.6	-0.5
Aug.	+13.0	-4.8	-3.2	-0.7	-0.6	-1.3	+0.8	+0.3	-11.5	-13.6	+7.4	+10.1	-3.3	-2.7	+1.5	+0.6	+4.2	- 5.7	- 7.6	-0.6	+2.1	+0.0	-0.8	+0.0
Sept.	+13.9	-3.1	-4.3	-0.5	+1.3	-3.1	+0.5	+0.9	-11.5	- 9.1	+5.1	+10.8	-2.8	-4.7	+0.2	+1.0	+0.7	- 7.0	- 6.2	-0.2	+1.3	+0.3	-0.5	+0.3
Oct.	+12.6	+2.0	-5.7	-2.9	+2.2	-2.3	+0.1	+0.6	-10.3	+ 1.0	+4.6	+ 9.1	-2.6	-3.6	+2.5	+2.7	-2.3	-10.8	- 6.4	+1.4	+2.4	-0.3	-0.5	+0.1
Nov.	+ 7.8	+3.7	-4.7	-2.5	+1.4	-1.8	+0.8	+0.1	-10.5	+ 2.1	+0.5	+ 5.9	-2.0	-1.5	+0.9	+0.8	-1.0	- 7.3	- 3.1	+0.6	+0.8	-1.1	-0.7	+0.2
Dec.	+ 4.5	+4.5	-3.6	-2.2	+2.5	-2.2	+0.2	-0.4	- 9.3	+ 1.1	-0.9	+ 6.4	-1.5	-0.5	+0.7	+0.5	+0.4	- 5.8	- 2.9	-0.2	-0.0	-0.8	-0.7	+0.4
Year	+ 9.9	-0.2	-4.9	-0.9	+1.2	-1.5	+0.5	+0.3	-10.2	- 8.3	+3.6	+ 8.1	-1.9	-2.7	+1.1	+1.2	+2.7	- 7.0	- 5.7	-0.1	+1.5	-0.2	-0.5	-0.1
Winter	+ 4.4	+4.2	-3.9	-1.5	+1.8	-2.0	+0.4	+0.4	-10.0	- 0.9	+0.6	+ 5.6	-1.3	-0.6	+0.9	+1.4	+0.8	- 5.8	- 2.7	-0.0	+0.4	-0.7	-0.6	+0.0
Equinox	+12.7	-0.3	-5.3	-1.5	+1.7	-2.4	+0.2	+0.5	-11.0	- 6.9	+4.9	+ 9.6	-2.1	-5.1	+1.2	+1.9	+1.2	- 9.3	- 7.0	-0.2	+2.3	+0.1	-0.4	-0.1
Summer	+12.9	-4.3	-5.6	+0.4	+0.1	-0.0	+0.9	-0.2	- 9.7	-17.1	+5.3	+ 9.2	-2.4	-2.3	+1.2	+0.3	+6.1	- 5.9	- 7.4	-0.1	+1.8	-0.1	-0.5	-0.2
									INTERNATIONAL QUIET DAYS															
Year	+ 7.4	-0.4	-5.5	-0.7	+1.6	-1.2	+0.0	+0.3	- 5.9	- 9.8	+3.4	+ 7.0	-2.8	-2.3	+1.2	+1.0	+4.3	- 1.5	- 4.4	+0.1	+1.6	-0.3	-0.7	+0.0
Winter	+ 1.4	+0.2	-4.2	-1.4	+2.0	-1.6	-0.5	+0.7	- 5.3	- 2.5	+1.0	+ 3.6	-1.8	-0.4	+1.0	+0.9	+0.8	- 1.5	- 1.5	+0.2	+0.4	-0.7	-0.4	+0.0
Equinox	+10.3	+0.3	-6.7	-0.8	+2.7	-1.8	-0.2	+0.9	- 6.5	-11.6	+3.6	+ 9.7	-3.5	-4.4	+2.0	+1.8	+5.2	- 1.7	- 5.1	-0.4	+2.5	-0.3	-0.9	+0.1
Summer	+10.6	-1.9	-5.6	+0.0	+0.1	-0.0	+0.7	-0.8	- 5.7	-15.3	+5.5	+ 7.6	-3.2	-2.1	+0.7	+0.5	+7.0	- 1.3	- 6.5	+0.3	+1.9	+0.0	-0.7	-0.1
									INTERNATIONAL DISTURBED DAYS															
Year	+14.6	+0.1	-4.9	+1.2	+0.4	-2.3	+1.3	-0.3	-16.6	- 4.9	+2.9	+ 9.5	+0.0	-4.0	+1.0	+1.9	+0.1	-17.3	- 8.3	+0.2	+1.5	+0.6	-0.1	-0.3
Winter	+ 9.5	+8.4	-4.4	-0.8	+0.4	-3.0	+1.3	+0.3	-16.8	+ 5.3	+0.3	+ 6.7	-1.2	-0.9	+0.1	+2.5	-0.8	-15.0	- 5.0	+0.1	+0.9	+0.0	-0.7	+0.1
Equinox	+18.3	-2.5	-4.3	+1.7	+0.3	-4.5	+1.3	-1.3	-16.3	- 0.6	+3.5	+ 9.8	+1.4	-8.4	+0.8	+3.0	-4.6	-22.9	-10.0	+0.5	+2.1	+1.1	+0.8	-0.7
Summer	+16.0	-5.4	-6.1	+2.5	+0.5	+0.8	+1.3	+0.3	-16.8	-19.3	+5.1	+11.8	-0.1	-2.8	+2.3	+0.3	+5.8	-14.2	-10.0	-0.0	+1.6	+0.4	-0.5	-0.3

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

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

	° ′		° ′		° ′		° ′
January	+2 19	April	+0 4	July	+1 22	October	-3 28
February	+3 28	May	-0 59	August	+0 59	November	-3 42
March	+2 12	June	+0 5	September	-1 12	December	-1 6

Winter	+0 12
Equinox	-0 36
Summer	+0 24

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT							
	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
									"All" Days															
1942	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
Jan.	5.2	30	4.5	266	3.0	141	1.0	24	10.3	259	5.4	359	0.6	246	2.2	50	4.6	160	1.5	262	0.6	151	0.8	262
Feb.	4.9	33	3.0	254	2.1	144	1.0	10	11.3	246	5.3	33	1.2	253	2.6	19	6.2	160	3.4	266	0.8	128	0.4	199
March	9.6	92	3.8	255	2.4	173	0.2	59	12.1	237	8.6	30	5.4	192	2.9	30	10.1	172	6.5	259	2.9	88	0.3	256
April	14.6	90	7.6	259	3.4	122	0.3	9	17.6	223	12.4	28	6.9	198	1.5	23	10.7	153	9.1	265	2.9	87	0.6	193
May	11.7	107	6.5	273	1.2	31	0.9	149	19.4	210	10.5	26	2.7	231	1.5	81	9.6	124	7.7	274	2.1	92	0.6	271
June	13.1	108	6.6	286	0.8	72	1.1	113	22.6	203	10.7	37	2.8	229	1.1	88	9.0	134	7.0	270	1.5	82	0.3	174
July	15.4	111	6.2	274	0.6	243	1.3	82	19.1	209	8.8	21	3.6	215	1.1	64	8.3	138	7.4	268	1.3	109	0.8	231
Aug.	13.8	111	3.3	258	1.5	207	0.9	70	17.8	221	12.5	37	4.2	232	1.6	71	7.1	144	7.6	267	2.1	90	0.8	274
Sept.	14.2	103	4.3	264	3.4	159	1.0	33	14.7	232	11.9	26	5.5	212	1.0	11	7.0	175	6.2	269	1.3	76	0.5	300
Oct.	12.7	81	6.4	244	3.2	138	0.6	13	10.3	276	10.2	28	4.5	217	3.7	45	11.0	193	6.5	283	2.4	99	0.5	278
Nov.	8.6	65	5.3	243	2.3	143	0.8	84	10.7	282	5.9	6	2.5	234	1.2	51	7.3	188	3.2	281	1.4	146	0.8	289
Dec.	6.3	45	4.2	239	3.3	132	0.4	151	9.4	277	6.4	353	1.6	252	0.8	56	5.8	177	2.9	266	0.8	183	0.8	298
Year	9.9	91	5.0	261	1.9	143	0.5	64	13.2	231	8.8	25	3.3	216	1.7	44	7.5	160	5.7	270	1.5	100	0.5	261
Winter	6.1	47	4.2	250	2.7	140	0.6	43	10.1	265	5.6	7	1.4	245	1.7	34	5.9	173	2.7	270	0.8	151	0.6	274
Equinox	12.7	92	5.5	255	2.9	146	0.5	26	13.0	238	10.8	28	5.5	204	2.3	33	9.4	173	7.0	269	2.3	89	0.4	256
Summer	13.6	109	5.6	275	0.1	112	0.9	103	19.6	210	10.6	31	3.3	226	1.3	77	8.4	134	7.4	270	1.8	93	0.5	249
									INTERNATIONAL QUIET DAYS															
Year	7.4	94	5.5	263	1.9	128	0.3	7	11.4	211	7.7	27	3.6	233	1.6	52	4.6	109	4.4	272	1.6	102	0.7	273
Winter	1.4	82	4.4	252	2.5	131	0.8	328	5.9	245	3.7	17	1.8	259	1.3	51	1.7	154	1.5	280	0.8	151	0.4	276
Equinox	10.3	89	6.7	264	3.2	125	0.9	352	13.3	210	10.3	21	5.6	214	2.7	51	5.5	109	5.2	267	2.5	98	0.9	279
Summer	10.7	100	5.6	271	0.1	110	1.0	141	16.4	201	9.4	36	3.8	239	0.8	59	7.2	101	6.5	273	1.9	90	0.7	262
									INTERNATIONAL DISTURBED DAYS															
Year	14.6	90	5.0	284	2.3	170	1.3	104	17.3	254	9.9	18	4.0	181	2.1	31	17.3	180	8.3	273	1.6	72	0.3	204
Winter	12.6	49	4.5	261	3.0	174	1.3	77	17.6	288	6.7	3	1.5	234	2.5	3	15.1	183	5.0	272	0.9	89	0.7	275
Equinox	18.5	98	4.6	292	4.6	177	1.8	137	16.3	268	10.4	20	8.5	172	3.1	16	23.3	192	10.0	274	2.4	64	1.1	132
Summer	16.9	109	6.6	294	0.9	36	1.4	81	25.5	222	12.8	24	2.8	182	2.3	85	15.4	158	10.0	271	1.7	76	0.6	238

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1942.

Month and Season	"All" Days			Quiet Days			Disturbed Days			"All" Days			Quiet Days			Disturbed Days		
	D	I	H	D	I	H	D	I	H	X	Y	Z	X	Y	Z	X	Y	Z
	′	′	γ	′	′	γ	′	′	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
January	5.79	1.23	18.6	3.98	0.84	14.6	8.94	2.26	29.8	20.3	30.8	10.0	15.5	21.3	5.6	31.2	49.3	17.6
February	5.84	1.10	13.0	4.04	0.97	15.0	11.26	3.72	37.6	16.2	31.3	15.5	15.5	20.2	3.4	42.3	61.7	50.6
March	7.05	1.26	22.3	8.72	1.33	25.8	10.30	4.73	73.0	25.3	41.3	28.5	27.5	44.6	18.0	74.6	56.9	63.2
April	10.81	1.75	34.6	10.12	1.69	33.8	17.16	4.19	61.8	38.3	56.3	35.8	34.1	53.6	27.6	67.7	86.4	58.4
May	9.40	1.17	27.8	9.86	1.29	24.2	11.60	2.12	35.0	30.1	49.6	32.8	24.4	51.9	30.2	38.4	59.3	40.8
June	10.55	1.51	32.2	9.28	1.35	24.6	13.42	2.42	50.4	29.5	56.8	29.9	27.7	48.6	20.0	43.6	72.7	49.6
July	8.77	1.93	37.5	8.70	1.92	36.6	12.10	2.49	45.0	36.1	47.7	28.4	37.5	45.9	28.4	47.2	57.9	44.8
August	9.84	1.74	30.3	7.34	1.27	23.2	12.78	2.83	42.6	30.7	53.1	28.0	21.9	39.7	20.2	45.2	65.6	38.2
September	8.34	2.36	38.1	10.30	1.60	29.8	10.54	4.56	68.2	39.8	45.3	23.7	33.1	53.5	24.6	70.8	52.2	38.6
October	8.58	1.77	27.1	7.64	1.69	26.2	15.70	5.03	52.6	31.7	41.4	27.9	27.1	40.8	9.4	54.3	78.3	67.8
November	6.46	1.57	19.7	3.90	0.81	13.4	10.46	4.10	47.0	22.6	32.0	16.0	15.8	19.2	11.4	45.3	51.6	41.6
December	5.75	1.32	18.9	3.04	0.87	12.8	9.98	3.75	47.6	21.2	29.0	12.8	13.9	16.1	5.8	50.8	49.3	30.6
Mean for Year	8.10	1.56	26.7	7.24	1.30	23.3	12.02	3.52	49.2	28.5	42.9	24.1	24.5	38.0	17.1	51.0	61.8	45.2
Winter	5.96	1.31	17.6	3.74	0.87	14.0	10.16	3.46	40.5	20.1	30.8	13.5	15.2	19.2	6.6	42.4	53.0	35.1
Equinox	8.70	1.79	30.5	9.20	1.58	28.9	13.43	4.63	63.9	33.8	46.1	29.0	30.5	48.1	19.9	66.9	68.5	57.0
Summer	9.64	1.59	32.0	8.80	1.46	27.2	12.48	2.47	43.3	31.6	51.8	29.8	27.9	46.5	24.7	43.6	63.9	43.4

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

Month 1942	"All" Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
	′	γ	γ	′	γ	γ	′	γ	γ
January	−0.01	+0.4	−0.1	+0.20	+3.6	−1.6	−0.18	+ 1.4	−5.2
February	−0.01	−0.8	+0.3	0.00	+6.0	−2.2	+2.20	− 8.8	−2.2
March	−0.05	+0.9	−0.1	−0.76	+3.8	−1.2	−0.42	−12.4	+1.4
April	−0.05	+0.1	+0.2	−0.18	+5.2	−1.2	+3.20	+ 0.4	+2.2
May	+0.02	+0.1	−0.2	+0.42	+7.0	−0.4	−1.04	− 9.8	+0.8
June	−0.10	+0.1	−0.2	+0.06	+5.2	−1.4	−2.40	− 7.2	−2.4
July	+0.03	−0.2	+0.2	−0.06	+4.8	−0.8	+2.46	− 4.0	−1.4
August	−0.06	−0.3	+0.2	+0.42	+3.2	−0.2	−1.30	− 7.0	−2.4
September	+0.01	−0.1	+0.0	+0.52	+2.0	−0.6	−0.32	− 9.0	−3.2
October	0.00	−0.5	+0.4	−0.56	+5.6	−2.4	−1.68	− 8.2	−9.0
November	−0.03	+0.2	−0.0	−0.20	−2.2	−1.0	−1.24	− 4.8	−1.2
December	−0.02	+0.2	−0.0	+0.34	+3.2	−2.0	+0.82	− 3.0	−2.2
Year	-	-	-	+0.02	+4.0	−1.3	+0.01	− 6.0	−2.1

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

Month 1942	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.
January	10 29.4	66 44.0	.18549	.18239	.03377	.43141	.46958
February	10 28.5	44.0	.18549	.18240	.03372	.43139	.46958
March	10 27.7	44.4	.18545	.18237	.03367	.43143	.46961
April	10 26.3	44.1	.18549	.18242	.03361	.43142	.46967
May	10 25.4	43.0	.18563	.18257	.03358	.43137	.46962
June	10 25.2	42.7	.18568	.18262	.03358	.43137	.46966
July	10 24.6	43.2	.18562	.18256	.03354	.43140	.46966
August	10 23.8	43.4	.18559	.18254	.03349	.43143	.46965
September	10 23.0	44.0	.18554	.18250	.03344	.43148	.46971
October	10 22.1	44.7	.18547	.18244	.03338	.43157	.46975
November	10 21.3	44.5	.18549	.18247	.03334	.43159	.46974
December	10 20.8	44.4	.18552	.18250	.03332	.43161	.46979
Year	10 24.8	66 43.9	.18554	.18248	.03354	.43146	.46967

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 5.1	10 4.9	10.4.7	10 4.5	10 4.4	10 4.3	10 4.7	10 4.6	10 4.4	10 4.8	10.4.7	10 5.0
2	5.0	5.0	4.7	4.4	4.4	4.3	4.7	4.6	4.4	4.8	4.8	5.0
3	5.1	5.0	4.8	4.4	4.4	4.3	4.7	4.6	4.4	4.7	4.7	5.0
4	5.1	5.0	4.8	4.3	4.4	4.3	4.7	4.6	4.4	4.8	4.7	5.0
5	5.0	5.0	4.8	4.3	4.4	4.3 / 4.2	4.6	4.6	4.4	4.8	4.8	5.1
6	5.0	5.0	4.9	4.3	4.4	4.6	4.6	4.6	4.4	4.7	4.8	5.0
7	5.0	5.0	4.9	4.3	4.4	4.6	4.6	4.5	4.4	4.4	4.8	5.0
8	5.0	5.0	4.8	4.3	4.4	4.6	4.7	4.6	4.4	4.4	4.8	5.0
9	5.1	5.0	4.8	4.3	4.4	4.6	4.7	4.5	4.4	4.4	4.8	5.0
10	5.1	5.0	4.8	4.3	4.4	4.7	4.7	4.5	4.5	4.4	4.7	5.0
11	5.1	5.0	4.8	4.4	4.4	4.6	4.7	4.5	4.5	4.4	4.9	5.0
12	5.1	4.9	4.8	4.4	4.3	4.6	4.7	4.5	4.5	4.5	4.8	5.0
13	5.1	4.9	4.9	4.4	4.3	4.5	4.7	4.4	4.5	4.5	4.8	5.0
14	5.1	4.9	4.9	4.3	4.2	4.4	4.7	4.4	4.4	4.5	4.9	5.0
15	5.0	4.8	5.0	4.4	4.2	4.5	4.7	4.4	4.5	4.5	4.9	5.0
16	5.0	4.8	4.9	4.4	4.3	4.6	4.7	4.4	4.5	4.5	5.0	5.0
17	5.1	4.8	4.9	4.4	4.2	4.6	4.6	4.4	4.5	4.4	5.0	5.0
18	5.0	4.8	4.9	4.3	4.2	4.6	4.6	4.4	4.5	4.4	5.0	4.9
19	5.0	4.8	4.9	4.4	4.2	4.6	4.6	4.4	4.5	4.4	5.0	4.9
20	5.0	4.8	4.9	4.4	4.3	4.6	4.6	4.4	4.5	4.4	5.0	5.0
21	4.9	4.8	4.9	4.4	4.3	4.5	4.6	4.4	4.5	4.4	5.0	5.0
22	5.0	4.7	4.9	4.4	4.3	4.6	4.5	4.4	4.5	4.4	5.0	5.0
23	4.8	4.7	4.9	4.4	4.3	4.7	4.6	4.4	4.5	4.5	5.1	5.0
24	4.7	4.7	4.9	4.4	4.2	4.7	4.6	4.5	4.6	4.5	5.1	4.9
25	4.9	4.8	4.9	4.4	4.1	4.7	4.6	4.4	4.6	4.5	5.1	5.0
26	4.9	4.8	4.9	4.4	4.2	4.7	4.6	4.4	4.7	4.6	5.1	5.0
27	4.9	4.7	4.9	4.4	4.2	4.8	4.6	4.4	4.7	4.6	5.1	5.0
28	4.9	4.7	4.9	4.4	4.0	4.8	4.6	4.4	4.8	4.6	5.1	5.0
29	4.9		4.9	4.4	4.2	4.7	4.6	4.4	4.8	4.6	5.1	5.0
30	4.9		4.9	4.4	4.2	4.7	4.6	4.3	4.8	4.7	5.1	5.0
31	4.9		4.9		4.2		4.6	4.4		4.6		5.0

April 1 - Recording Room Temperature lowered from 21°.0 C. to 16°.0 C.
June 5 - Recording Room Temperature raised from 16°.0 C. to 21°.0 C.
Oct. 6 - Recording Room Temperature lowered from 21°.0 C. to 16°.0 C.

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

Universal Time	No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line
		γ	γ
Jan. 1 10 4 - 10 24	8	18555	18341
2 9 8 - 9 18	8	18561	18340
3 9 12 - 9 21	8	18541	18341
5 0 33 - 0 50	8	18535	18340
6 9 11 - 9 20	8	18538	18340
7 9 10 - 9 20	8	18554	18340
8 9 12 - 9 22	8	18548	18340
9 9 9 - 9 18	8	18551	18341
10 9 9 - 9 20	8	18553	18341
12 0 26 - 0 42	8	18553	18340
13 9 9 - 9 24	8	18548	18341
14 8 56 - 9 9	8	18563	18340
14 14 24 - 14 40	8	18559	18339
15 8 51 - 9 3	8	18554	18340
16 8 43 - 8 56	8	18559	18341
17 8 59 - 9 13	8	18528	18340
19 0 26 - 0 45	8	18539	18340
20 9 16 - 9 26	8	18539	18340
21 9 16 - 9 25	8	18552	18340
22 9 16 - 9 26	8	18550	18341
23 9 19 - 9 28	8	18555	18341
24 9 8 - 9 19	8	18561	18341
26 8 38 - 8 54	8	18551	18341
27 8 38 - 8 49	8	18555	18342
28 8 32 - 8 46	8	18558	18341
29 8 33 - 8 47	8	18554	18342
30 8 30 - 8 44	8	18557	18341
31 8 29 - 8 44	8	18570	18341
Feb. 2 9 7 - 9 18	8	18537	18340
3 9 0 - 9 15	8	18550	18342
4 8 58 - 9 10	8	18550	18342
5 9 1 - 9 15	8	18557	18340
6 9 22 - 9 35	8	18534	18341
7 9 16 - 9 25	8	18543	18340
9 9 9 - 9 18	8	18553	18340
10 9 3 - 9 12	8	18569	18341
11 9 1 - 9 12	8	18559	18341
12 9 4 - 9 13	8	18547	18341
13 8 53 - 9 4	8	18559	18340
14 9 11 - 9 23	8	18562	18342
16 9 8 - 9 18	8	18553	18342
17 8 53 - 9 6	8	18558	18341
18 9 8 - 9 17	8	18544	18341
19 9 3 - 9 13	8	18553	18341
20 9 4 - 9 14	8	18535	18340
21 9 3 - 9 14	8	18548	18341
23 8 53 - 9 13	8	18557	18342
24 9 4 - 9 16	8	18513	18341
25 9 22 - 9 31	8	18544	18341
26 9 12 - 9 21	8	18544	18341
27 8 58 - 9 7	8	18554	18342
28 8 53 - 9 7	8	18538	18342
Mar. 2 9 2 - 9 13	8	18496	18341
3 9 3 - 9 15	8	18473	18340
4 9 3 - 9 16	8	18501	18341
5 9 2 - 9 15	8	18536	18341
6 8 55 - 9 7	8	18512	18341
7 9 0 - 9 12	8	18550	18341
9 9 0 - 9 12	8	18540	18341
10 8 57 - 9 12	8	18543	18340
11 9 7 - 9 18	8	18549	18340
12 9 1 - 9 14	8	18554	18341
13 8 58 - 9 9	8	18540	18340
Mar. 14 9 11 - 9 20	8	18547	18340
16 9 12 - 9 24	8	18550	18341
17 9 19 - 9 28	8	18544	18339
18 9 11 - 9 22	8	18552	18340
19 9 10 - 9 21	8	18562	18340
20 9 0 - 9 12	8	18523	18340
21 9 4 - 9 14	8	18531	18340
23 9 6 - 9 18	8	18547	18340
24 9 0 - 9 13	8	18543	18340
25 9 3 - 9 21	8	18555	18340
26 9 5 - 9 15	8	18562	18340
27 8 54 - 9 8	8	18536	18340
28 9 1 - 9 12	8	18545	18340
30 8 53 - 9 8	8	18562	18340
31 8 58 - 9 7	8	18545	18340
Apr. 1 18 19 - 18 28	8	18564	18341
2 9 5 - 9 17	8	18546	18341
3 9 4 - 9 14	8	18539	18339
4 9 9 - 9 20	8	18553	18340
7 8 3 - 8 14	8	18556	18340
8 8 5 - 8 14	8	18554	18339
9 8 8 - 8 19	8	18553	18340
10 8 1 - 8 18	8	18553	18340
11 8 13 - 8 25	8	18487	18339
13 8 10 - 8 20	8	18541	18340
14 8 25 - 8 38	8	18525	18340
15 8 15 - 8 29	8	18534	18340
16 8 18 - 8 30	8	18529	18340
17 8 10 - 8 20	8	18514	18340
18 8 9 - 8 20	8	18533	18339
20 8 14 - 8 24	8	18542	18341
21 7 10 - 7 23	8	18551	18341
22 8 10 - 8 21	8	18552	18341
23 9 13 - 9 22	8	18574	18341
24 8 7 - 8 20	8	18552	18341
25 8 14 - 8 26	8	18544	18341
27 8 14 - 8 25	8	18558	18342
28 7 49 - 8 2	8	18530	18342
29 8 15 - 8 26	8	18542	18341
30 8 12 - 8 24	8	18566	18342
May 1 8 40 - 8 50	8	18542	18342
2 8 17 - 8 27	8	18532	18340
4 8 12 - 8 23	8	18561	18342
5 8 14 - 8 24	8	18533	18341
6 7 21 - 7 40	8	18561	18342
7 8 11 - 8 25	8	18564	18341
8 8 18 - 8 32	8	18568	18341
9 8 22 - 8 41	8	18575	18341
11 8 12 - 8 31	8	18560	18341
12 8 17 - 8 41	8	18565	18341
13 8 14 - 8 32	8	18556	18341
14 7 34 - 7 57	8	18571	18340
15 8 11 - 8 29	8	18547	18340
16 7 31 - 7 50	8	18552	18342
18 8 17 - 8 29	8	18554	18340
19 8 16 - 8 29	8	18551	18341
20 8 13 - 8 23	8	18567	18341
21 8 14 - 8 25	8	18559	18340
22 9 21 - 9 34	8	18555	18338
23 8 9 - 8 20	8	18555	18338
26 7 41 - 7 55	8	18548	18338
27 8 4 - 8 21	8	18571	18339
28 8 5 - 8 20	8	18517	18338
May 29 8 13 - 8 23	8	18541	18338
30 8 13 - 8 21	8	18544	18341
June 1 8 20 - 8 31	8	18561	18339
2 8 15 - 8 29	8	18557	18338
3 8 29 - 8 41	8	18553	18337
4 8 7 - 8 20	8	18550	18338
6 8 21 - 8 39	8	18568	18338
8 8 9 - 8 19	8	18560	18339
9 8 37 - 8 46	8	18554	18338
10 7 58 - 8 9	8	18555	18339
11 8 19 - 8 30	8	18583	18339
12 8 13 - 8 24	8	18524	18338
13 8 10 - 8 19	8	18530	18338
15 8 10 - 8 20	8	18539	18339
16 7 19 - 7 32	8	18559	18339
17 8 14 - 8 24	8	18549	18338
18 8 20 - 8 34	8	18547	18339
19 8 19 - 8 32	8	18558	18339
20 8 20 - 8 36	8	18538	18338
22 8 17 - 8 30	8	18559	18338
23 7 23 - 7 47	8	18574	18338
24 8 11 - 8 20	8	18566	18337
25 8 11 - 8 23	8	18555	18338
26 8 20 - 8 29	8	18559	18338
27 9 15 - 9 29	8	18556	18338
29 8 12 - 8 25	8	18551	18338
30 8 12 - 8 22	8	18537	18337
July 1 7 31 - 7 43	8	18545	18338
2 8 18 - 8 29	8	18547	18338
3 8 3 - 8 17	8	18547	18338
4 8 14 - 8 26	8	18560	18338
6 8 19 - 8 30	8	18559	18337
7 7 25 - 7 50	8	18552	18338
8 8 12 - 8 23	8	18543	18338
9 8 14 - 8 25	8	18542	18338
10 8 13 - 8 23	8	18541	18337
11 8 20 - 8 32	8	18514	18337
13 8 18 - 8 29	8	18531	18337
14 7 21 - 7 36	8	18562	18337
15 8 14 - 8 26	8	18531	18337
16 8 20 - 8 32	8	18540	18337
17 8 24 - 8 36	8	18537	18337
18 8 16 - 8 28	8	18539	18336
20 8 21 - 8 35	8	18585	18338
21 8 5 - 8 24	8	18536	18337
22 8 23 - 8 35	8	18550	18338
23 8 22 - 8 32	8	18556	18337
24 8 8 - 8 21	8	18560	18338
25 8 23 - 8 34	8	18544	18337
27 8 23 - 8 34	8	18539	18337
28 8 39 - 8 52	8	18544	18337
29 8 24 - 8 36	8	18529	18336
30 8 24 - 8 37	8	18518	18336
31 7 36 - 7 50	8	18556	18337
Aug. 1 8 16 - 8 27	8	18548	18337
4 8 17 - 8 31	8	18567	18337
5 8 13 - 8 26	8	18559	18335
6 8 14 - 8 24	8	18565	18335
7 7 54 - 8 9	8	18544	18336
8 8 16 - 8 27	8	18549	18336
10 8 38 - 8 50	8	18546	18335

April 1, Recording Room Temperature lowered from 21°.0 C. to 16°.0 C. June 5, Recording Room Temperature raised from 16°.0 C. to 21°.0 C.

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

Universal Time	No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line
		γ	γ
Aug. 11 8 19 - 8 35	8	18527	18335
12 8 22 - 8 34	8	18527	18336
13 8 32 - 8 46	8	18544	18336
14 8 32 - 8 44	8	18541	18335
15 8 48 - 9 4	8	18540	18334
17 8 32 - 8 49	8	18525	18335
18 8 29 - 8 46	8	18544	18336
19 8 28 - 8 45	8	18511	18335
20 9 4 - 9 18	8	18542	18335
21 8 56 - 9 7	8	18544	18335
22 9 14 - 9 31	8	18539	18334
24 9 10 - 9 20	8	18530	18334
25 9 16 - 9 26	8	18524	18333
26 9 14 - 9 24	8	18543	18334
27 9 16 - 9 27	8	18528	18333
28 9 5 - 9 15	8	18532	18334
29 9 12 - 9 21	8	18548	18334
31 9 8 - 9 20	8	18559	18333
Sept. 1 9 16 - 9 27	8	18538	18335
2 9 19 - 9 33	8	18547	18334
3 9 18 - 9 28	8	18532	18334
4 9 12 - 9 23	8	18548	18334
5 9 12 - 9 29	8	18535	18333
7 9 15 - 9 23	8	18549	18334
8 8 15 - 8 29	8	18555	18334
9 9 12 - 9 22	8	18538	18335
10 8 48 - 8 57	8	18539	18334
11 9 5 - 9 17	8	18550	18335
12 9 8 - 9 19	8	18450	18334
14 9 11 - 9 22	8	18534	18333
15 8 23 - 8 35	8	18544	18334
16 9 7 - 9 22	8	18529	18334
17 9 16 - 9 26	8	18531	18334
18 9 6 - 9 17	8	18538	18334
19 10 58 - 11 13	8	18550	18334
21 9 21 - 9 35	8	18472	18335
22 9 20 - 9 32	8	18528	18335
23 10 32 - 10 44	8	18551	18334
24 10 33 - 10 45	8	18540	18334
25 9 8 - 9 18	8	18547	18335
26 9 13 - 9 25	8	18545	18334
Sept. 28 9 20 - 9 30	8	18544	18334
29 9 20 - 9 28	8	18543	18335
30 10 44 - 10 57	8	18537	18333
Oct. 1 9 14 - 9 25	8	18544	18334
2 9 17 - 9 27	8	18529	18334
3 9 17 - 9 26	8	18531	18333
5 9 13 - 9 25	8	18533	18333
7 9 17 - 9 28	8	18542	18332
8 10 45 - 10 57	8	18534	18331
9 9 19 - 9 28	8	18543	18334
10 9 16 - 9 26	8	18564	18332
12 9 14 - 9 26	8	18550	18333
13 8 48 - 9 3	8	18528	18334
14 9 16 - 9 28	8	18537	18332
15 9 12 - 9 21	8	18527	18333
16 9 22 - 9 30	8	18537	18334
17 9 11 - 9 20	8	18541	18334
19 9 23 - 9 31	8	18540	18333
20 6 19 - 6 33	8	18558	18334
21 10 44 - 10 56	8	18539	18333
22 10 33 - 10 45	8	18530	18332
23 9 12 - 9 23	8	18528	18332
24 9 5 - 9 18	8	18544	18334
26 9 10 - 9 24	8	18553	18334
27 8 44 - 9 0	8	18555	18333
28 9 12 - 9 23	8	18551	18333
29 9 2 - 9 18	8	18500	18333
30 9 5 - 9 17	8	18490	18332
31 9 9 - 9 19	8	18525	18333
Nov. 2 9 10 - 9 19	8	18539	18334
3 8 43 - 8 55	8	18553	18333
4 9 4 - 9 20	8	18548	18332
5 9 4 - 9 17	8	18548	18332
6 9 4 - 9 15	8	18544	18333
7 9 7 - 9 23	8	18552	18332
9 9 15 - 9 30	8	18538	18333
10 8 46 - 9 10	8	18569	18333
11 9 10 - 9 23	8	18555	18332
Nov. 12 9 7 - 9 22	8	18557	18333
13 9 12 - 9 22	8	18557	18335
14 9 6 - 9 18	8	18546	18334
16 9 6 - 9 20	8	18557	18334
17 10 56 - 11 7	8	18552	18334
18 9 9 - 9 23	8	18546	18334
19 9 20 - 9 31	8	18574	18335
20 8 48 - 9 13	8	18583	18335
21 8 58 - 9 14	8	18559	18335
23 9 5 - 9 19	8	18572	18335
24 9 12 - 9 26	8	18467	18335
25 9 12 - 9 25	8	18516	18335
26 9 4 - 9 22	8	18520	18335
27 9 5 - 9 18	8	18518	18334
28 9 3 - 9 19	8	18541	18334
30 9 11 - 9 28	8	18545	18334
Dec. 1 8 17 - 8 31	8	18552	18335
2 9 8 - 9 20	8	18553	18335
3 9 1 - 9 12	8	18558	18334
4 9 2 - 9 16	8	18565	18335
5 9 9 - 9 23	8	18557	18335
7 9 12 - 9 25	8	18563	18335
8 11 31 - 11 48	8	18545	18333
9 9 4 - 9 19	8	18557	18333
10 9 5 - 9 18	8	18530	18334
11 9 9 - 9 22	8	18535	18334
12 9 8 - 9 20	8	18544	18333
14 9 23 - 9 31	8	18555	18333
15 9 3 - 9 17	8	18557	18334
16 9 4 - 9 18	8	18562	18334
17 9 9 - 9 21	8	18566	18335
18 9 3 - 9 21	8	18568	18334
19 9 13 - 9 26	8	18570	18334
21 9 9 - 9 25	8	18562	18334
22 9 4 - 9 18	8	18544	18334
23 9 15 - 9 25	8	18519	18332
24 9 12 - 9 23	8	18520	18333
28 9 12 - 9 26	8	18548	18333
29 9 9 - 9 22	8	18556	18334
30 9 27 - 9 37	8	18550	18335
31 9 6 - 9 18	8	18557	18334

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
	γ	γ
Apr. 21 8 28 - 9 57	18535	18339
28 8 26 - 10 21	18520	18340
May 6 8 21 - 9 46	18549	18341
June 16 8 24 - 9 49	18542	18335
23 8 21 - 9 47	18576	18337
July 1 8 22 - 9 47	18531	18335
7 8 34 - 9 49	18549	18336
14 8 20 - 9 38	18548	18335
21 8 18 - 9 37	18534	18340
Sept. 8 9 14 - 10 28	18548	18334
15 9 15 - 10 30	18537	18334
Oct. 20 9 28 - 10 48	18533	18330
27 9 34 - 10 38	18539	18332
Nov. 3 9 31 - 10 32	18540	18332
10 9 30 - 10 27	18564	18333
Dec. 1 9 35 - 10 33	18547	18337

TABLE XIV. October 6, Recording Room Temperature lowered from 21°0 C. to 16°0 C.

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

Universal Time	No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line
		Y	Y
Jan. 1 9 31 - 9 58	8	43141	42988
2 9 29 - 9 53	8	43136	42988
3 9 34 - 9 58	6	43137	42987
5 1 3 - 1 33	8	43146	42985
6 9 34 - 9 58	8	43140	42987
7 9 37 - 9 57	8	43136	42988
8 9 30 - 9 55	8	43142	42988
9 9 24 - 9 46	8	43139	42988
10 9 26 - 9 57	6	43136	42985
12 1 1 - 1 27	8	43138	42988
13 9 36 - 9 56	8	43143	42987
14 9 23 - 9 44	8	43135	42988
14 11 19 - 11 59	8	43133	42989
15 9 13 - 9 37	8	43132	42988
16 9 8 - 9 34	8	43135	42987
17 9 26 - 9 47	8	43135	42987
19 0 58 - 1 39	8	43133	42988
20 9 34 - 9 59	8	43136	42987
21 9 36 - 9 57	8	43137	42987
22 9 38 - 9 58	8	43137	42989
23 9 35 - 9 54	8	43137	42988
24 9 28 - 10 1	8	43143	42991
26 9 5 - 9 30	8	43140	42987
27 9 0 - 9 24	8	43139	42990
28 8 56 - 9 23	8	43135	42988
29 8 57 - 9 24	8	43134	42987
30 8 55 - 9 20	8	43135	42990
31 9 0 - 9 32	8	43131	42991
Feb. 2 9 28 - 9 50	8	43134	42991
3 9 30 - 10 19	8	43137	42991
4 9 21 - 9 49	8	43136	42990
5 9 24 - 9 51	8	43130	42990
6 9 44 - 10 22	8	43129	42987
7 9 38 - 10 24	8	43145	42990
9 9 29 - 9 48	8	43136	42987
10 9 23 - 9 52	8	43133	42990
11 9 18 - 9 43	8	43134	42989
12 9 22 - 9 51	8	43142	42988
13 9 13 - 9 30	8	43130	42988
14 9 36 - 10 0	8	43128	42989
16 9 30 - 9 50	8	43127	42989
17 9 17 - 9 49	8	43129	42987
18 9 24 - 9 47	8	43134	42989
19 9 25 - 9 54	8	43135	42988
20 9 23 - 9 55	8	43134	42990
23 9 25 - 9 51	8	43132	42990
24 9 24 - 9 57	8	43135	42988
25 9 42 - 10 12	8	43141	42987
26 9 30 - 9 53	8	43138	42987
27 9 14 - 9 40	8	43133	42989
28 9 22 - 9 44	8	43134	42990
Mar. 2 9 24 - 9 44	8	43152	42991
3 9 26 - 9 51	8	43150	42991
4 9 27 - 9 50	8	43141	42990
6 9 14 - 9 36	8	43147	42990
7 9 20 - 9 53	8	43138	42990
9 9 22 - 9 44	8	43142	42991
10 9 24 - 9 52	8	43147	42990
11 9 26 - 9 46	8	43140	42991
12 9 24 - 9 42	8	43142	42990
13 9 15 - 9 40	8	43133	42987
14 9 30 - 9 57	8	43133	42989
16 9 31 - 9 49	8	43135	42990
Mar. 17 9 37 - 9 58	8	43129	42988
18 9 31 - 9 54	8	43133	42991
19 9 30 - 9 58	8	43128	42988
20 9 20 - 9 46	8	43135	42989
21 9 20 - 9 48	8	43131	42990
23 9 36 - 9 59	6	43134	42992
24 9 21 - 9 47	8	43129	42991
25 9 28 - 9 48	8	43135	42989
26 9 24 - 9 59	8	43123	42990
27 9 15 - 9 38	8	43133	42990
28 9 21 - 9 45	8	43136	42989
30 9 14 - 9 37	8	43135	42989
31 9 13 - 9 29	8	43137	42990
Apr. 1 18 39 - 19 11	8	43139	42989
2 9 25 - 9 48	8	43128	42990
3 9 21 - 9 43	8	43124	42991
4 9 27 - 9 50	8	43117	42991
7 8 24 - 8 48	8	43145	42992
18 8 32 - 8 51	8	43126	42993
20 8 31 - 9 1	8	43143	42993
21 7 35 - 8 3	8	43144	42992
22 8 31 - 8 53	8	43143	42994
23 8 44 - 9 6	8	43120	42994
24 8 31 - 8 51	8	43137	42995
25 8 35 - 9 1	8	43136	42992
27 8 36 - 8 59	8	43133	42995
28 8 31 - 8 58	8	43145	42994
29 8 36 - 8 59	8	43138	42993
30 8 37 - 9 2	8	43127	42991
May 1 8 57 - 9 18	8	43124	42992
2 8 43 - 9 9	8	43134	42994
4 8 38 - 9 1	8	43131	42992
5 8 43 - 9 3	8	43133	42993
6 7 55 - 8 26	8	43137	42991
7 8 41 - 9 6	8	43135	42991
8 8 44 - 9 12	8	43133	42993
9 8 50 - 9 18	8	43135	42994
11 8 54 - 9 15	8	43130	42993
12 8 51 - 9 17	8	43129	42994
13 8 42 - 9 15	8	43137	42992
14 8 9 - 8 37	8	43130	42992
15 8 40 - 9 16	8	43136	42993
16 8 4 - 8 45	8	43136	42994
18 8 37 - 9 2	8	43121	42992
19 8 39 - 9 18	8	43128	42992
20 8 32 - 9 5	8	43126	42995
21 8 39 - 9 18	8	43140	43000
22 8 49 - 9 13	8	43136	42993
23 8 33 - 9 18	8	43139	42994
26 8 12 - 8 45	8	43134	42995
27 8 35 - 9 3	8	43125	42995
29 8 32 - 8 55	8	43131	42993
30 8 31 - 9 2	8	43126	42992
June 1 8 46 - 9 11	8	43130	42992
2 8 41 - 9 4	8	43130	42992
3 8 57 - 9 29	8	43119	42990
4 8 36 - 9 37	8	43135	42991
6 8 49 - 9 13	8	43129	42993
8 8 28 - 8 50	8	43134	42993
9 8 59 - 9 20	8	43130	42994
10 8 17 - 8 47	8	43132	42995
June 11 8 43 - 9 16	8	43122	42992
12 8 33 - 8 54	8	43137	42995
13 8 29 - 9 0	8	43131	42992
15 8 30 - 9 1	8	43134	42995
16 7 45 - 8 8	8	43142	42993
17 8 33 - 8 52	8	43132	42993
18 8 44 - 9 9	8	43128	42994
19 8 44 - 9 6	8	43127	42994
20 8 46 - 9 16	8	43130	42993
22 8 37 - 8 58	8	43138	42994
23 8 0 - 8 33	8	43127	42992
24 8 29 - 9 4	8	43128	42992
25 8 35 - 9 4	8	43124	42994
26 8 37 - 8 53	8	43135	42993
27 8 20 - 9 5	8	43127	42995
29 8 34 - 8 57	8	43124	42995
30 8 30 - 8 50	8	43124	42993
July 1 7 53 - 8 29	8	43133	42991
2 8 44 - 9 6	8	43132	42992
3 8 27 - 8 51	8	43141	42994
4 8 41 - 9 9	8	43136	42993
6 8 38 - 9 0	8	43136	42995
7 7 53 - 8 17	8	43139	42992
8 8 31 - 8 57	8	43123	42992
9 8 34 - 9 5	8	43134	42993
10 8 37 - 8 59	8	43142	42995
11 9 1 - 9 36	8	43109	42994
13 8 38 - 9 7	8	43143	42993
14 7 45 - 8 20	8	43137	42992
15 8 33 - 8 58	8	43133	42996
16 8 43 - 9 11	8	43129	42992
17 8 48 - 9 15	8	43131	42994
18 8 38 - 9 13	8	43141	42995
20 8 46 - 9 17	8	43130	42995
21 8 37 - 9 6	8	43134	42992
22 8 49 - 9 12	8	43146	42994
23 8 40 - 9 5	8	43134	42992
24 8 30 - 9 4	8	43142	42996
25 8 45 - 9 10	8	43134	42995
27 8 45 - 9 14	8	43133	42994
28 9 6 - 9 44	8	43119	42994
29 8 52 - 9 25	8	43145	42994
30 8 51 - 9 21	8	43142	42994
31 7 58 - 8 24	8	43135	42994
Aug. 1 8 38 - 9 0	8	43140	42994
4 8 40 - 9 7	8	43134	42994
5 8 36 - 9 5	8	43143	42996
6 8 36 - 9 4	8	43134	42995
7 8 19 - 8 42	8	43130	42994
8 8 34 - 8 59	8	43138	42994
10 9 6 - 9 29	8	43139	42995
11 8 46 - 9 15	8	43142	42995
12 8 44 - 9 5	8	43132	42994
13 8 55 - 9 23	8	43140	42993
14 8 55 - 9 17	8	43135	42992
15 9 16 - 9 44	8	43143	42994
17 9 0 - 9 31	8	43143	42993
18 8 58 - 9 24	8	43141	42994
19 8 59 - 9 25	8	43140	42993
20 9 31 - 9 54	8	43140	42995
21 8 18 - 8 45	8	43144	42993
22 8 31 - 9 5	8	43134	42994
24 9 34 - 9 55	8	43143	42994

April 1, Recording Room Temperature lowered from 21°.0 C. to 16°.0 C. June 5, Recording Room Temperature raised from 16°.0 C. to 21°.0 C.

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

Universal Time	No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line
		γ	γ
Aug. 25 9 34 - 9 52	8	43134	42995
26 9 33 - 9 52	8	43140	42993
27 9 37 - 9 59	8	43137	42991
28 9 23 - 9 42	8	43146	42996
29 9 32 - 9 54	8	43136	42993
31 9 28 - 9 46	8	43138	42996
Sept. 1 9 37 - 10 6	8	43134	42995
2 9 41 - 10 16	8	43139	42995
3 9 36 - 9 59	8	43142	42995
4 9 30 - 9 47	8	43147	42994
5 9 40 - 9 59	8	43143	42994
7 9 33 - 9 53	8	43137	42995
8 8 40 - 9 1	8	43144	42992
9 9 29 - 9 47	8	43141	42993
10 9 7 - 9 28	8	43135	42993
11 9 25 - 9 49	8	43135	42994
12 9 28 - 9 54	8	43143	42994
14 9 28 - 9 49	8	43147	42995
15 8 47 - 9 14	8	43149	42995
16 9 33 - 9 50	8	43148	42995
17 9 37 - 9 55	8	43150	42996
18 9 25 - 9 47	8	43155	42996
19 9 37 - 10 2	8	43145	42995
21 9 44 - 10 38	8	43150	42994
22 10 24 - 10 53	8	43143	42994
23 9 26 - 9 55	8	43138	42995
24 9 26 - 9 53	8	43144	42995
25 9 28 - 9 50	8	43137	42995
26 9 36 - 9 56	8	43139	42995
28 9 37 - 9 57	8	43145	42997
29 9 38 - 9 55	8	43140	42996
30 9 27 - 9 55	8	43141	42996
Oct. 1 9 33 - 9 54	8	43147	42994
2 9 35 - 9 55	8	43141	42995
3 9 35 - 9 57	8	43142	42994
Oct. 5 9 33 - 9 55	8	43155	42996
7 9 36 - 9 58	8	43149	42997
8 9 33 - 9 57	8	43148	42996
9 9 37 - 9 56	8	43149	42994
10 9 35 - 9 58	8	43142	42996
12 9 37 - 9 58	8	43142	42997
13 9 14 - 9 42	8	43147	42996
14 9 36 - 9 55	8	43150	42997
15 9 32 - 9 58	8	43153	42996
16 9 38 - 9 56	8	43147	42996
17 9 29 - 9 55	8	43147	42996
19 9 39 - 9 55	8	43145	42993
20 6 44 - 7 8	8	43154	42993
21 9 31 - 10 1	8	43154	42996
22 9 40 - 10 0	8	43154	42994
23 9 32 - 9 52	8	43153	42995
24 9 25 - 9 50	8	43147	42996
26 9 39 - 9 56	8	43141	42995
27 9 11 - 9 35	8	43151	42998
28 9 34 - 9 57	8	43149	42998
29 9 30 - 9 54	8	43160	42996
30 9 33 - 9 53	8	43169	42998
31 9 26 - 9 54	8	43160	42994
Nov. 2 9 28 - 9 55	8	43160	42997
3 9 11 - 9 52	8	43161	42998
4 9 33 - 9 56	8	43162	42998
5 9 27 - 9 59	8	43158	42997
6 9 23 - 9 45	8	43160	42997
7 9 32 - 9 57	8	43153	42998
9 9 42 - 9 57	8	43158	42997
10 9 20 - 9 46	8	43149	42995
11 9 38 - 9 58	8	43155	42998
12 9 31 - 9 57	8	43156	42997
13 9 30 - 9 54	8	43152	42997
14 9 29 - 9 57	8	43157	42996
16 9 26 - 9 47	8	43153	42997
Nov. 17 9 40 - 10 1	8	43153	42998
18 9 30 - 9 50	8	43151	42995
19 9 41 - 9 58	8	43144	42996
20 9 27 - 9 47	8	43140	42995
21 9 24 - 9 56	8	43147	42994
23 9 29 - 9 57	8	43145	42995
24 9 34 - 9 59	7	43154	42993
25 9 31 - 9 56	8	43158	42995
26 9 32 - 9 59	8	43155	42997
27 9 29 - 9 51	8	43153	42995
28 9 32 - 10 0	8	43156	42995
30 9 38 - 9 59	8	43155	42996
Dec. 1 8 45 - 9 12	8	43162	42998
2 9 31 - 9 56	8	43157	42995
3 9 22 - 9 49	8	43155	42996
4 9 26 - 9 48	8	43150	42997
5 9 32 - 9 57	8	43156	42999
7 9 34 - 9 58	8	43154	42998
8 9 45 - 10 30	8	43153	42998
9 9 29 - 9 48	8	43155	42998
10 9 29 - 9 49	8	43159	42998
11 9 31 - 9 49	8	43158	42999
12 9 32 - 9 56	8	43156	42998
14 9 37 - 9 53	8	43157	42999
15 9 29 - 9 53	8	43159	42997
16 9 29 - 9 49	8	43155	43000
17 9 38 - 9 57	8	43158	42999
18 9 34 - 9 57	6	43149	42998
19 9 34 - 9 56	8	43155	43001
21 9 39 - 9 58	8	43149	43001
22 9 32 - 9 50	8	43152	42998
23 9 34 - 9 56	8	43167	43001
24 9 34 - 9 53	8	43162	42999
28 9 35 - 9 56	8	43162	43002
29 9 30 - 9 52	8	43158	43000
30 9 42 - 9 58	8	43161	43000
31 9 30 - 9 56	8	43162	43001

Oct. 6, Recording Room Temperature lowered from 21°0 C to 16°0 C.

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	42992	-	-	-	42998	42997	42996	42995	43000	42998	-	43001
2	991	42997	42997	42994	998	993	994	-	42998	998	43001	42999
3	991	997	995	996	-	997	996	-	998	996	003	43003
4	-	997	994	995	999	997	996	999	999	-	002	003
5	992	997	996	-	997	-	-	996	997	42998	001	002
6	992	996	997	-	999	996	999	996	-	-	003	-
7	996	997	994	995	997	-	998	42998	997	43001	002	002
8	995	-	-	996	997	998	998	43001	999	000	-	005
9	994	998	998	995	995	998	998	-	994	002	000	002
10	993	997	997	994	-	997	994	42997	997	43000	002	003
11	-	996	995	995	998	998	997	997	999	-	000	003
12	995	995	998	-	997	999	-	996	999	42997	001	002
13	992	999	998	996	996	999	995	995	-	43001	001	-
14	994	994	994	994	997	-	994	996	997	43001	000	004
15	993	-	-	995	999	997	995	995	42998	42998	-	004
16	994	996	992	996	42996	995	998	-	43000	43002	004	001
17	993	997	995	996	-	999	996	997	000	42998	000	009
18	-	995	994	997	43000	998	994	996	43000	-	003	007
19	995	996	996	-	42999	42996	-	993	42999	42997	001	006
20	995	995	998	42998	995	43000	993	996	-	42999	003	-
21	988	-	995	43000	997	-	997	996	998	43003	43000	008
22	989	-	-	43000	42996	42999	995	998	42998	43001	-	007
23	994	996	999	42998	43001	43000	996	-	43000	42998	42999	009
24	995	996	42997	997	-	42999	999	998	43000	43001	-	009
25	-	995	43006	998	-	996	996	998	42998	-	43002	-
26	993	996	42998	-	42999	993	-	996	42999	43001	002	-
27	996	994	997	42998	-	994	42996	42999	-	42999	006	-
28	997	998	993	43000	998	-	43000	43000	43000	43001	002	002
29	42998		-	42998	997	994	42997	42999	43002	004	-	009
30	43000		991	997	997	995	996	-	42997	004	001	003
31	42993		996				998	43000		003		007

March 27 - Bearings Re-adjusted. June 25 - Bearings Re-adjusted.

April 1 - Recording Room Temperature lowered from 21°.0 C to 16°.0 C.
June 5 - Recording Room Temperature raised from 16°.0 C to 21°.0 C.
Oct. 6 - Recording Room Temperature lowered from 21°.0 C to 16°.0 C.

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	16 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	66 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 1925-1942

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

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 -1.7γ in H and -3.9γ in Z were introduced in 1938. See Introduction pp. x and xi.

January. Conditions were quiet until $2^d\ 12\frac{1}{2}^h$ when a small abrupt movement occurred in all traces followed by a period of considerable irregular fluctuation. The ranges were not large in H and Z, until 4th, though there was an easterly movement of 20′ in D between $2^d\ 17^h$ and 20^h, but from $4^d\ 12^h$ several movements exceeding 50γ were recorded in H (including one of +80γ at $5^d\ 18\frac{1}{2}^h$) and at least two exceeding 15′ in D. During 7th activity practically ceased and quiet conditions prevailed until $8^d\ 23^h\ 10^m$ when a sudden "kick" appeared on all traces. Apart from a little unsteadiness, however, this was not followed by the development of disturbance and nothing of note was shown on the record until $16^d\ 16^h$. The period which followed until $19^d\ 8^h$ was one of mild disturbance, increasing generally to a maximum about $18^d\ 22^h$ and afterwards rapidly declining. The most conspicuous feature was a wave in D (15′E) at $18^d\ 22^h$. During the remainder of the month nothing worthy of remark appears on the traces, though on most days there was a little unsteadiness, generally in the dark hours.

The range in declination during the month was from 10° 11′.3 on 18th to 10° 41′.2 on 2nd; in horizontal intensity, from .18482 to .18592, both on 4th; in vertical intensity, from .43120 on 19th to .43170 on 5th.

February. The first noteworthy feature was a large wave in D (23′E) at $5^d\ 18\frac{1}{2}^h$ accompanied by a similar movement in H (+80γ). A smaller wave occurred in D (13′E) at $6^d\ 2\frac{1}{2}^h$ and then, from $6^d\ 11^h$, followed a short period of mild general disturbance. This comprised a few movements just exceeding 10′ in D together with one amounting to 80γ in H, but had ceased by $7^d\ 4^h$. A quiet period followed and lasted until $10^d\ 12^h$ when general unsteadiness developed. From $12^d\ 6^h$ to $14^d\ 12^h$ conditions were again practically quiet. Isolated bays appeared occasionally during the next few days, but after $18^d\ 6^h$, until $19^d\ 12^h$, complete quiet was re-established. Unsteadiness then set in and gradually increased, fluctuations being specially marked on 20th and 21st. At $23^d\ 13^h\ 28^m$ there was an abrupt movement in all traces, followed by a brisk disturbance which lasted until $24^d\ 8^h$. During the period of greatest activity there were a number of oscillations of amplitude approaching 100γ in H, while the largest in D (at $23^d\ 20^h\ 50^m$) reached 26′. Z at first steadily increased 120γ and then, from $17^h\ 10^m$, suffered an irregular decline until $24^d\ 2^h$ to a value a little below normal. The final movement in D, between $24^d\ 1\frac{1}{2}^h$ and $2\frac{3}{4}^h$, was 19′. It comprised the total range during the day (Plate I). Two other short active periods occurred before the month ended. The first, from $25^d\ 20^h$ to $26^d\ 1^h$ included movements of 90γ in H and 16′ in D. The second may have been a preliminary stage of the remarkable storm which developed on the first day of March. It began with an abrupt movement at $27^d\ 15^h\ 27^m$ in all traces. The fluctuations which followed were irregular and not remarkable and they had practically died out by $28^d\ 6^h$; but at $11^h\ 59^m$ there occurred a 'crochet' consisting of a small abrupt change in D, preceding a large and rapid decrease in both H and Z at $12^h\ 1^m$. The change in H was 70γ; in Z, 30γ, and it took place in six minutes (Plate I). During the next five hours Z increased 110γ. There were also numerous irregular changes in H and D. After $28^d\ 18^h$ the movements decreased to a condition of general unsteadiness.

The range in declination during the month was from 10° 2′.1 to 10° 44′.5, both on 23rd; in horizontal intensity, from .18449 on 23rd to .18608 on 25th; in vertical intensity from .43089 on 28th to .43251 on 23rd.

March. The opening of the month was marked by the occurrence of a large magnetic storm which had some unusual features. The traces had been showing a series of small fluctuations for several hours before the actual commencement at $1^d\ 7^h\ 27^m$. The sudden movement at the beginning was typical and large, having a range of 155γ in H and 26′ in D, within two minutes of time. In the earlier stages H was much below normal intensity while D moved westwards. After about two hours the condition was reversed, and later there were large fluctuations on each side of normal values. The special feature of the storm was a series of 27 giant pulsations in intensity beginning at $15^h\ 5^m$ and ending at $17^h\ 5^m$. These were uniformly regular in occurrence and nearly so in amplitude, after the first five or six. The average amplitude in H was 70γ (one reached 100γ) and 20γ in Z (a few reached 30γ). Though similar movements appeared in the D trace they were small and much less regular. The storm continued for eleven hours after the pulsations ceased. There were large irregular changes in H and D, while between $1^d\ 22\frac{1}{2}^h$ and $2^d\ 1^h$ Z decreased 130γ. Most of this decrease was regained, however, by $2^d\ 5^h$ at which time the storm abruptly ceased. The

extreme ranges were: in D, 86′.1; in H 512γ; in Z 176γ. The traces are reproduced in Plate I. Only a short quiet period elapsed before disturbed conditions reappeared. From $2^d\ 12^h$ there was a steady increase in activity and during 3rd the range in each element almost reached "storm" dimensions, i.e. 150γ in H and 30′ in D. Moderate general disturbance continued, with but few intermissions, throughout the month. In addition there were periods of greatly increased activity amounting nearly to storm intensity. Such were: $5^d\ 15^h\ 23^m$ (abrupt commencement) to $6^d\ 0^h$, ranges, in D, 33′; in H, 169γ; in Z 114γ: $8^d\ 18^h$ to $9^d\ 4^h$, ranges, in D, 25′; in H, 122γ; in Z, 109γ: $26^d\ 6^h\ 40^m$ to $26^d\ 21^h$, ranges, in H, 128γ within a half hour (Plate II). Noteworthy, but less active periods were: $7^d 20^h$ to $8^d\ 4^h$; $9^d\ 16^h$ to $10^d\ 1^h$; $12^d\ 23^h$ to $14^d\ 16^h$; $19^d\ 16^h$ to $20^d\ 4^h$. Quiet or nearly quiet periods occurred from $11^d\ 9^h$ to $12^d\ 23^h$ and from $28^d\ 0^h$ to $29^d\ 1^h$.

The range in declination during the month was from 9° 48′.7 to 11° 14′.8 both on 1st; in horizontal intensity, from .18194 to .18706 both on 1st; in vertical intensity, from .43047 on 2nd to .43243 on 5th.

April. The state of moderate general disturbance noted as prevalent in March continued until well beyond the middle of April, but on the whole the disturbed periods were more detached, being separated by well defined quiet intervals. The first period reached a climax between $4^d\ 6^h$ and $4^d\ 21^h$. There was a wave in H (-100γ) at $4^d\ 7^h$ accompanied by a similar movement in D (18′W) and then a spell of very brisk activity between $4^d\ 16^h$ and 21^h. This comprised a temporary increase in Z (100γ) from 16^h to 20^h together with a steep wave in H (+190γ) at $20\frac{1}{2}^h$ and a simultaneous double wave in D (±22′)(Plate II). The second period began abruptly at $8^d\ 1^h\ 14^m$. The greatest movements followed within two hours, after which there was a rapid decline. The next period lasted from $10^d\ 22^h$ to $11^d\ 22^h$ and had no remarkable features. Another active period began at $13^d\ 11^h$ and ended at $14^d\ 4^h$. Development was gradual until the climax was reached about $13^d\ 23^h$ by which time a steady decrease in Z had set in which continued till $14^d\ 1\frac{3}{4}^h$ and amounted to 120γ. A range of 140γ in H was recorded during the same interval. A prominent movement in D (16′E) occurred between $17^d\ 0^h$ and 2^h and was reversed (20′W) between $17^d\ 2^h$ and 3^h. Two other specially disturbed periods may be mentioned: $23^d\ 12^h$ to $24^d\ 6^h$ (ranges D 21′; H, 110γ; Z, 84γ) and $27^d\ 12^h$ to $28^d\ 5^h$ (ranges, D, 19′; H, 99γ; Z, 94γ). The most important quiet periods were: $6^d\ 6^h$ to $8^d\ 0^h$; $22^d\ 4^h$ to $23^d\ 4^h$; $24^d\ 21^h$ to $27^d\ 9^h$.

The range in declination during the month was from 9° 58′.7 to 10° 42′.2, both on 4th; in horizontal intensity from .18431 to .18652, both on 4th; in vertical intensity, from .43044 on 14th to .43237 on 4th.

May. Activity during May showed a notable decline from that in the two months preceding. There were two periods of brisk disturbance, – the first from $4^d\ 12^h$ to $5^d\ 6^h$; the second from $27^d\ 10^h$ to $28^d\ 6^h$; but the ranges in neither instance reached "storm" dimensions. The most conspicuous movement in the first period was a wave in H (+100γ) at $5^d\ 1^h$ with accompanying changes in Z (-60γ) and in D (±9′). The movements in the second period were smaller and of an oscillatory character. At most other times considerable unsteadiness was manifest in the traces, but there were a few practically quiet spells to be noted, namely $7^d\ 0^h$ to $8^d\ 12^h$, $13^d\ 3^h$ to 22^h, $19^d\ 4^h$ to $20^d\ 12^h$, $25^d\ 16^h$ to $27^d\ 10^h$ and $31^d\ 0^h$ to 24^h.

The range in declination during the month was from 10° 6′.6 on 5th to 10° 36′.6 on 4th; in horizontal intensity, from .18503 on 2nd to .18646 on 5th; in vertical intensity, from .43091 on 5th to .43176 on 2nd and 22nd.

June. The reduced scale of activity noted in May was also apparent in June. There was a short period of minor disturbance between $3^d\ 12^h$ and $4^d\ 2^h$. A second period – beginning rather abruptly at $11^d\ 0^h\ 0^m$ and not entirely over until $15^d\ 6^h$ – contained the most active disturbance of the month, in which, however, the total ranges did not exceed 23′ in D, 108γ in H and 83γ in Z. A further brief period from $19^d\ 10^h$ to $20^d\ 5^h$ included a range of 110γ in H. A final active period, extended from $28^d\ 6^h$ to the end of the month, but the movements amounted to little more than irregular oscillation. There were quiet intervals lasting for a day or more at $1^d\ 20^h$ to $3^d\ 11^h$; $8^d 20^h$ to $10^d 20^h$; $21^d 10^h$ to $23^d 9^h$. At other times slight general unsteadiness usually prevailed.

The range in declination during the month was from 10° 14′.5 to 10° 37′.4 both on 11th; in horizontal intensity, from .18515 on 12th to .18645 on 19th; in vertical intensity, from .43098 on 11th to .43185 on 19th.

July. There was a marked revival of activity during the month. Although this did not lead to any large disturbance there were very few periods when really quiet conditions prevailed and these all occurred within the first six days. Thereafter a general state of considerable unsteadiness existed rising to moderate disturbance at intervals, the principal of which will be mentioned: 8^d0^h to 9^d4^h; $10^d23^h35^m$ to 13^d3^h; 15^d14^h to 16^d3^h; 20^d4^h to 21^d6^h; 25^d0^h to 26^d0^h; 26^d18^h to 28^d6^h. Of these disturbances two are significant as approaching storm intensity. That beginning abruptly at 10^d 23^h 35^m included ranges of 26′ in D, 130γ in H and 115γ in Z; that beginning at 15^d 14^h comprised some prominent peaks in H and D with ranges of 130γ and 20′ respectively.

The range in declination during the month was from 10° 12′.2 on 15th and 27th to 10° 39′.3 on 11th; in horizontal intensity, from .18490 on 12th to .18647 on 15th; in vertical intensity, from .43098 on 21st to .43214 on 11th.

August. In the earliest days of the month there was general slight unsteadiness, sometimes oscillatory in appearance. During 6th the movements, especially in H, became larger and more irregular and occasional bays corresponding to changes of 50γ in H are shown in the record on 6th and 7th. A quiet period lasting about 36 hours began at 8^d 0^h. Considerable unsteadiness then returned which increased to a state of mild disturbance between 10^d 13^h and 11^d 0^h. Several waves in H and D exceeding 50γ and 7′ respectively occurred during this interval, the largest in H being at 10^d 16^h (-100γ) and in D at 10^d 19^h (16′E). Further general unsteadiness was followed by a nearly quiet spell between 14^d 4^h and 15^d 15^h, and then by five days of brisk activity, during which many movements exceeding 50γ were recorded in H and a few amounting to 10′ in D. The largest individual movement in D was one of 28′E between 20^h 0^m and 20^h 20^m on 16th. Normal values were, however, regained within two hours. After 20^d 0^h activity declined somewhat, but returned as vigorously as before at 22^d 21^h. The climax was reached during the latter part of 23rd, when Z increased 60γ between $14\frac{3}{4}^h$ and $16\frac{1}{4}^h$ and there were three large bays in the D trace at 16^h, 19^h and 23^h respectively, each about 20′ in amplitude. From 25^d 0^h movements, though still numerous, were small; by 27^d 6^h they amounted to no more than general unsteadiness. The month ended with conditions practically quiet after one sharp movement in H (-60γ) at 30^d $18\frac{1}{4}^h$.

The range in declination during the month was from 9° 59′.9 on 16th to 10° 34′.9 on 18th and 23rd; in horizontal intensity, from .18487 on 18th to .18637 on 16th; in vertical intensity from .43103 on 9th to .43210 on 23rd.

September. Continual irregular movements appeared on the traces during 1st and 2nd, with enlarged diurnal range in D and Z on 1st. A nearly quiet period followed, which however, was of short duration, and unsteady conditions returned at 4^d 9^h, increasing to mild disturbance between 6^d 15^h and 7^d 0^h, and afterwards declining to negligible dimensions from 8^d 10^h to 11^d 10^h. At 11^d 12^h a period of moderate disturbance set in which lasted with varying degrees of intensity until 23^d0^h. The largest ranges occurred in the first twenty-four hours during which the total range in H was 230γ; in D, 25′; in Z, 90γ. On subsequent days the ranges were smaller, but many movements approaching 100γ in H and exceeding 10′ in D appeared on the traces. In general, disturbance was greatest between 16^h and midnight or a little later, and declined somewhat during the first part of each day. This tendency, however, disappeared towards the close of the period. From 23^d 3^h conditions became nearly quiet, excepting a short interval between 23^d23^h and 24^d2^h. Unsteadiness set in about 25^d 21^h, slightly increasing after 26^d 16^h but remaining still of small proportions during the concluding days.

The range in declination during the month was from 10° 9′.6 on 12th to 10° 35′.0 on 1st; in horizontal intensity, from .18431 on 12th to .18663 on 11th; in vertical intensity, from .43094 on 12th to .43198 on 17th.

October. The quiet conditions in which the month began lasted only until $2^d\ 8^h$ when a rapid decrease of H indicated the onset of a period of moderate disturbance. Activity developed quickly and was at first of an oscillatory character with nearly regular movements in H and D, while Z increased 100γ between $2^d\ 13^h$ and $15\frac{1}{2}^h$. Subsequent movements showed little or no regularity, prominent peaks on the traces being interspersed with many small fluctuations. The principal features were waves of about 50γ in H and 15′ in D. The largest, which appeared between $2^d\ 20^h$ and 21^h, was one of +170γ in H, accompanied by one of 25′E in D (Plate III). After the middle of 5th activity greatly declined and only isolated bays at long intervals appeared. A short nearly quiet spell extended from $9^d\ 6^h$ to $10^d\ 6^h$. Unsteadiness then set in, which increased and had reached the dimensions of mild disturbance by $11^d\ 18^h$. During the next five days there was considerable activity. Irregular movements up to 60 or 70γ in H were numerous and particularly large changes in D occurred at $13^d\ 17\frac{1}{2}^h$ (25′E), $14^d\ 15^h$ (21′E) and $15^d\ 18^h$ (20′E). The Z trace was not greatly affected by disturbance. By $17^d\ 0^h$ the disturbance had practically ceased, but there was still some unsteadiness and this rapidly increased after $18^d 10^h$, leading to a recrudescence of disturbed conditions. Conspicuous waves in D occurred at $19^d\ 1\frac{1}{2}^h$ (18′E) and $19^d\ 17^h$ (17′E), the latter being accompanied by a prominent wave in H (+100γ). Many smaller movements also occurred during the disturbance and it ended with a sequence of five regular waves of about 20γ in H superimposed on a steady rise of 75γ extending between $20^d\ 16\frac{1}{2}^h$ and 20^h. The interval between $21^d\ 0^h$ and $25^d\ 3^h$ was nearly quiet; one isolated wave only, appeared on the traces (at $21^d\ 16^h$). From $25^d\ 3^h$ unsteady conditions set in, but most movements were quite small, – the largest being one of +50γ in H, at $26^d\ 21^h$, – and after $28^d\ 0^h$ they were insignificant. At $28^d\ 12^h$ signs of an approaching disturbance appeared. The disturbance rapidly developed and proved to be the most considerable of the month. There was little abatement until $30^d\ 0^h$, after which time, however, the scale of movements was substantially smaller though they continued vigorously for two more days. The traces of the first part of the disturbance are reproduced in Plates III and IV. After $30^d\ 12^h$ only a few movements exceeded 10′ in D and 100γ in H. The most conspicuous were at about $30^d\ 16^h$ and $31^d\ 18^h$.

The range in declination during the month was from 9° 52′.5 on 28th to 10° 42′.5 on 29th; in horizontal intensity, from .18393 on 29th to .18676 on 2nd; in vertical intensity, from .43096 on 3rd to .43295 on 28th.

November. Conditions during the first five days of the month were unsteady, and many small movements appear on the traces. The largest was a wave in D (15′E) at $2^d\ 16^h$. A prominent movement in H (+50γ) occurred at $2^d\ 19\frac{1}{2}^h$ and a small sharp increase at $5^d\ 18^h\ 5^m$ marked the beginning of a miniature disturbance comprising numerous irregular fluctuations (none of which exceeded 10γ) which lasted until $6^d\ 4^h$. A short nearly quiet period followed, but by $6^d\ 21^h$ unsteadiness was again apparent and gradually increased to a maximum on 14th. At $8^d\ 21^h$ there was a conspicuous wave in D (13′E). On 14th and 15th numerous oscillatory movements occurred in D and H, some of which exceeded 5′ and 30γ respectively, while in two cases ($14^d\ 18^h$ and $15^d\ 1^h$) the movement in D reached 15′. From 16th the prevailing characteristic of the field was general unsteadiness without any prominent feature in the record until $20^d\ 18^h$, when a bay appeared in D (15′E) accompanied by a smaller one in H (-50γ). Thereafter unsteadiness became less general and was sometimes practically absent for several hours together. At $23^d\ 15^h\ 10^m$ a series of movements began with a wave in D (12′E) and two in H (+45γ, +30γ). By $23^d\ 20^h$ the onset of the most considerable disturbance of the month was evident and during the next thirty hours there were many brisk movements in all traces. The extreme ranges in this interval were 32′ in D, 165γ in H and 110γ in Z. The traces of the most active stage are reproduced in Plate IV. Although less vigorous, the disturbance continued throughout 25th and 26th. A decline to minor dimensions on 27th was followed by a marked recrudescence from $28^d\ 12^h$ to $29^d\ 3^h$, during which several movements in D exceeded 15′ and one wave in H (at $28^d\ 18^h$) reached +100γ. After this and two final waves in D, at $29^d\ 16^h$ and 18^h, the general activity subsided. The month ended in a quiet spell.

The range in declination during the month was from 9° 59′.8 on 28th to 10° 34′.1 on 26th; in horizontal intensity, from .18444 on 24th to .18624 on 25th; in vertical intensity, from .43087 on 24th to .43199 on 28th.

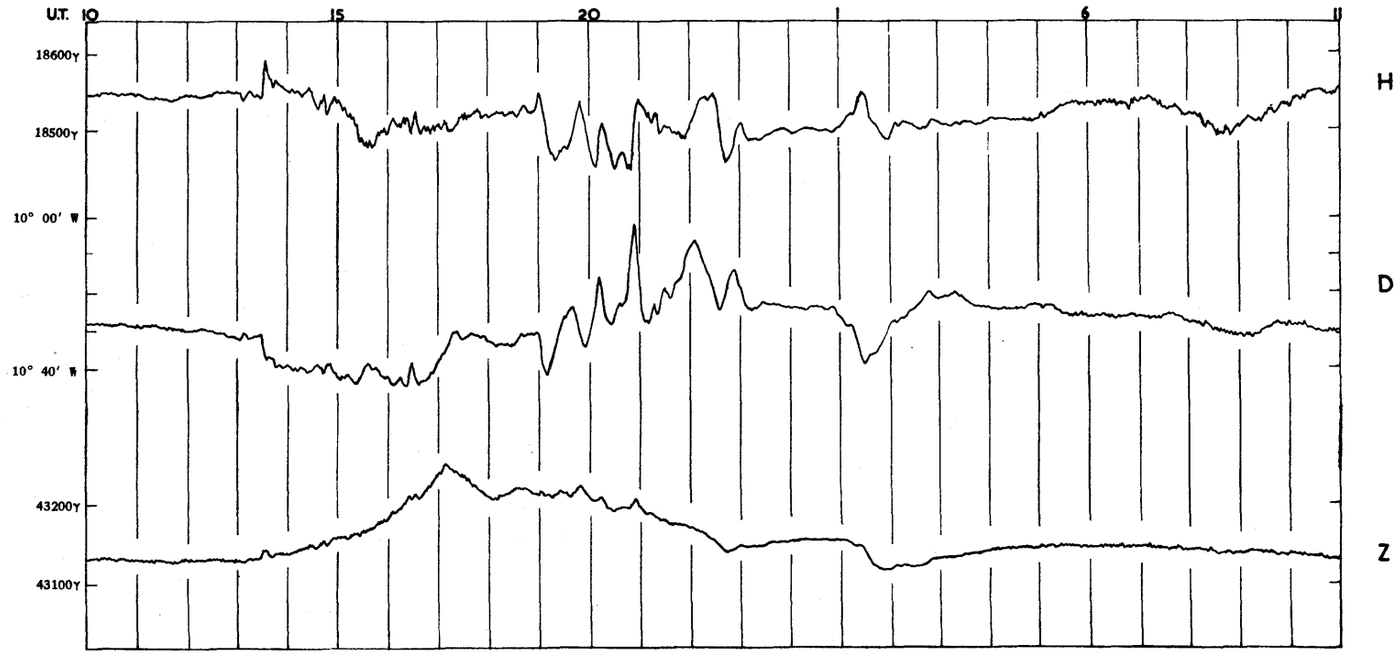
December. During the first six days of the month the only features on the traces were a few isolated bays, none of which exceeded 10′ in D or 50γ in H. The period from $5^d\ 6^h$ to $6^d\ 18^h$ was quiet.

Unsteadiness set in at $7^d\ 15^h$ and gradually increased. Between $8^d\ 17^h$ and $20\frac{3}{4}^h$ there was a rapid easterly drift in D (32′) but the value had returned to normal by $9^d\ 2\frac{1}{2}^h$, while the values of H and Z were practically unaffected. Unsteadiness continued however, and at $9^d\ 14^h$ began to assume the dimensions of a minor disturbance. This lasted until about $10^d\ 9^h$. After an initial decrease in H (60γ) there was a return to the original value and then followed a series of twelve nearly regular oscillations about 25γ in amplitude lasting from $9^d\ 17^h$ to 23^h. The culminating movement occurred at $10^d\ 0^h$ to 1^h, namely a steep wave (+110γ) after which the disturbance quickly died away. The declination trace showed similar features, though less regular and on a smaller scale, the extreme range being 22′; while Z increased 40γ between $9^d\ 17^h$ and 20^h and then suffered a fluctuating decrease of 50γ from 22^h to 24^h. Small irregular movements continued to show on the traces at intervals during the next few days and there was one notable wave in H (+80γ) at $11^d 23^h$, but on the whole conditions were quiet until $20^d\ 17^h$. From this time fluctuations appeared, at first small and rapid, then larger and of longer period. Two or three in H exceeded 50γ; the largest in D was 11′. A temporary lull between $22^d\ 14^h$ and $23^d\ 4^h$ was followed by a spell of renewed activity of rather greater intensity than the previous. It lasted from $23^d\ 10^h$ to $24^d\ 2^h$ and included two waves in D exceeding 15′, together with a marked increase in the diurnal range of Z. Great unsteadiness prevailed throughout 24th, 25th, and 26th during which period a number of movements exceeded 50γ in H and approached 10′ in D. From about $27^d\ 6^h$ conditions became nearly quiet.

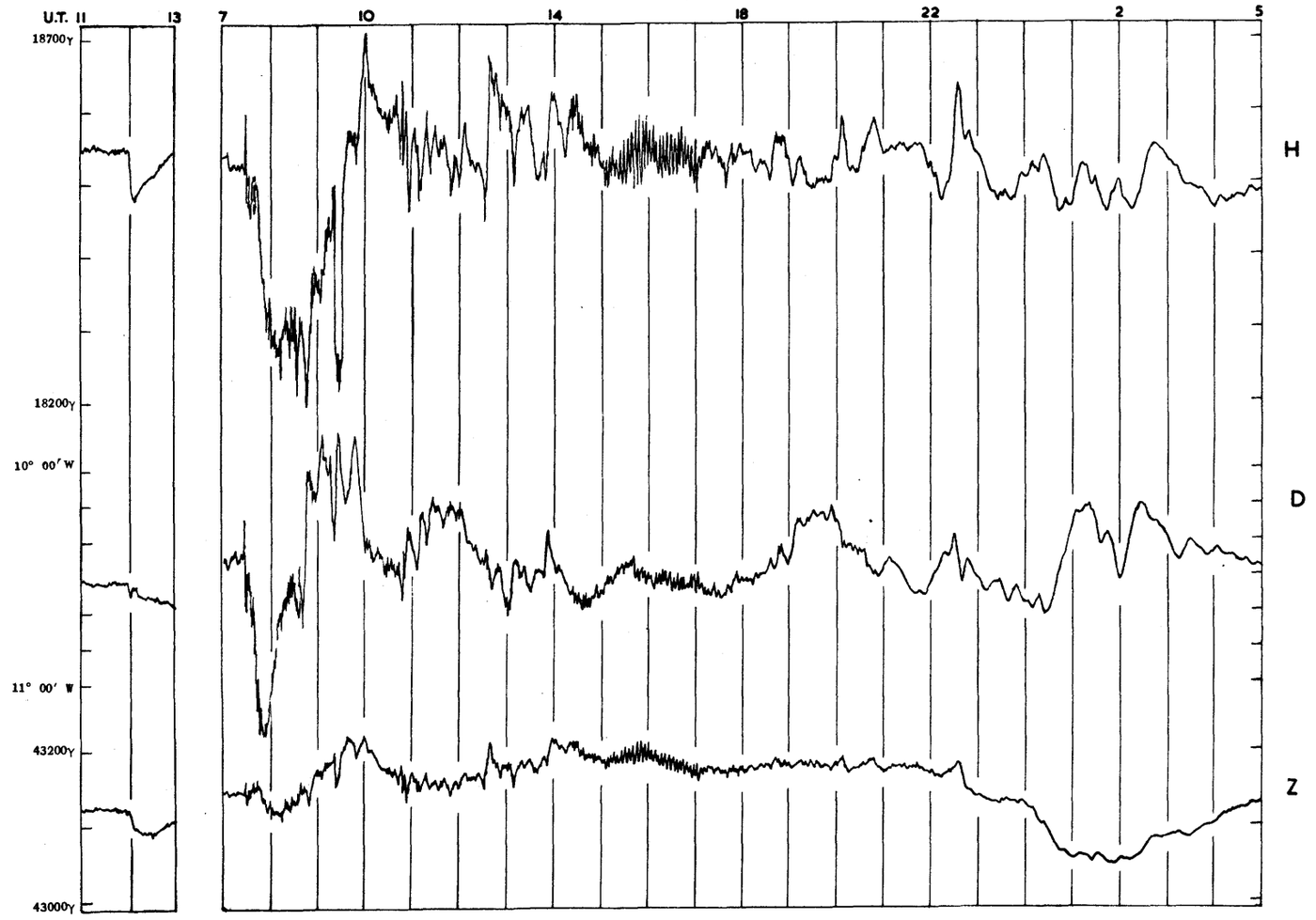
The range in declination during the month was from 9° 59′.3 on 8th to 10° 31′.9 on 21st; in horizontal intensity, from .18447 on 23rd to .18617 on 11th; in vertical intensity, from .43127 on 10th to .43214 on 23rd.

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

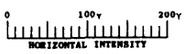
Declination West 11° 14′.8 on March 1st; 9° 48′.7 on March 1st.
Horizontal Intensity .18706 on March 1st; .18194 on March 1st.
Vertical Intensity .43295 on October 28th; .43044 on April 14th.

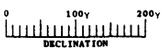


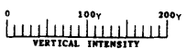
FEBRUARY 28 MARCH 1 - 2



SCALES FOR THE MAGNETIC ELEMENTS







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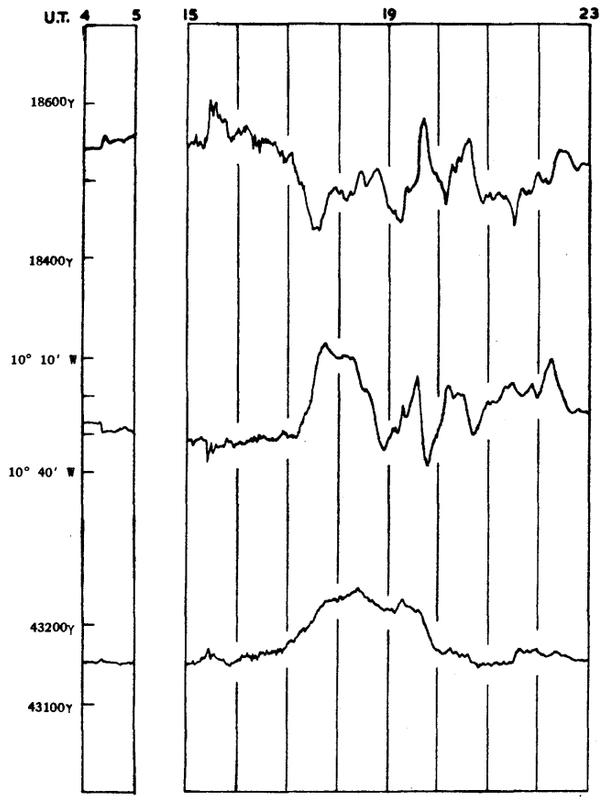

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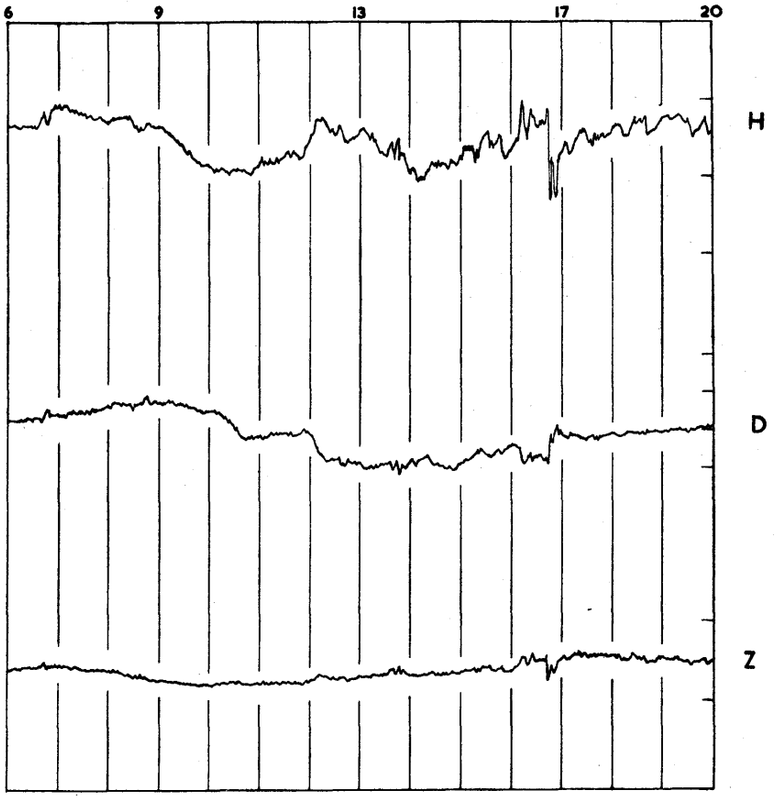

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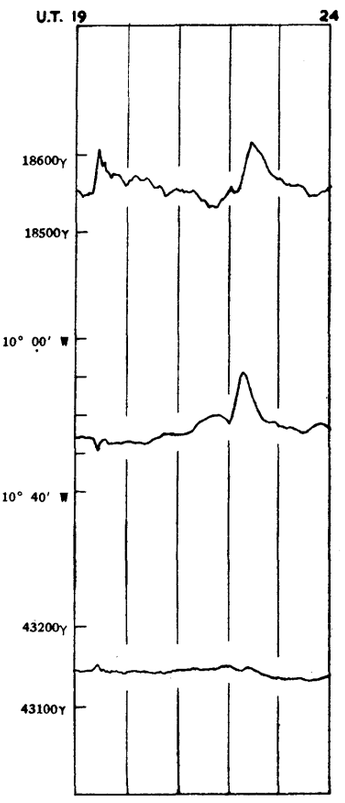

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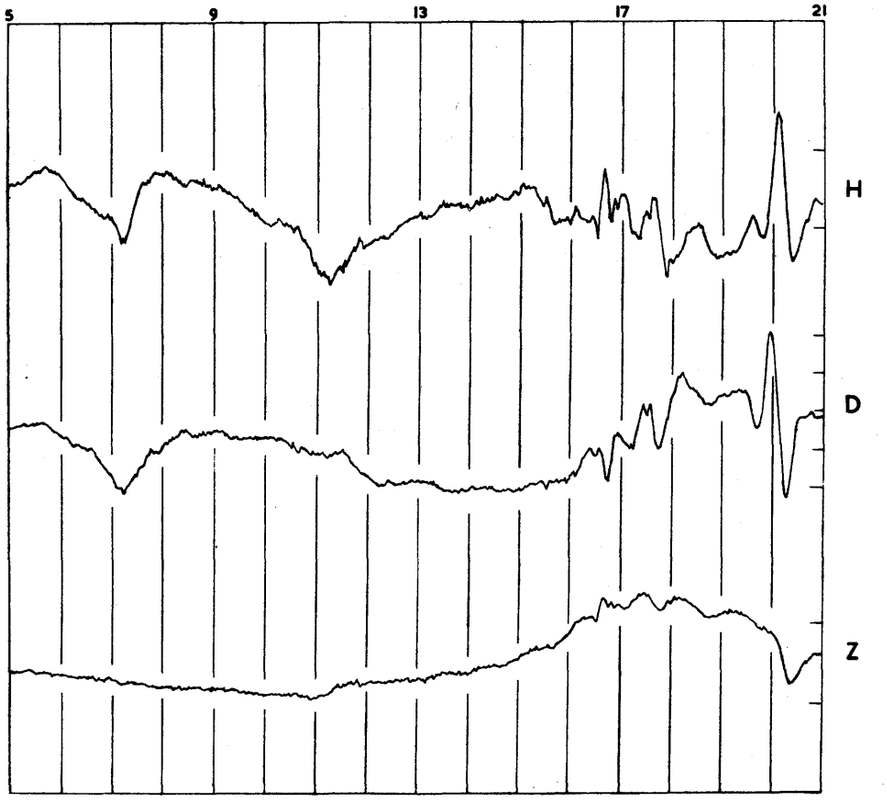
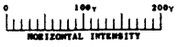
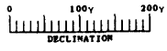
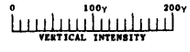
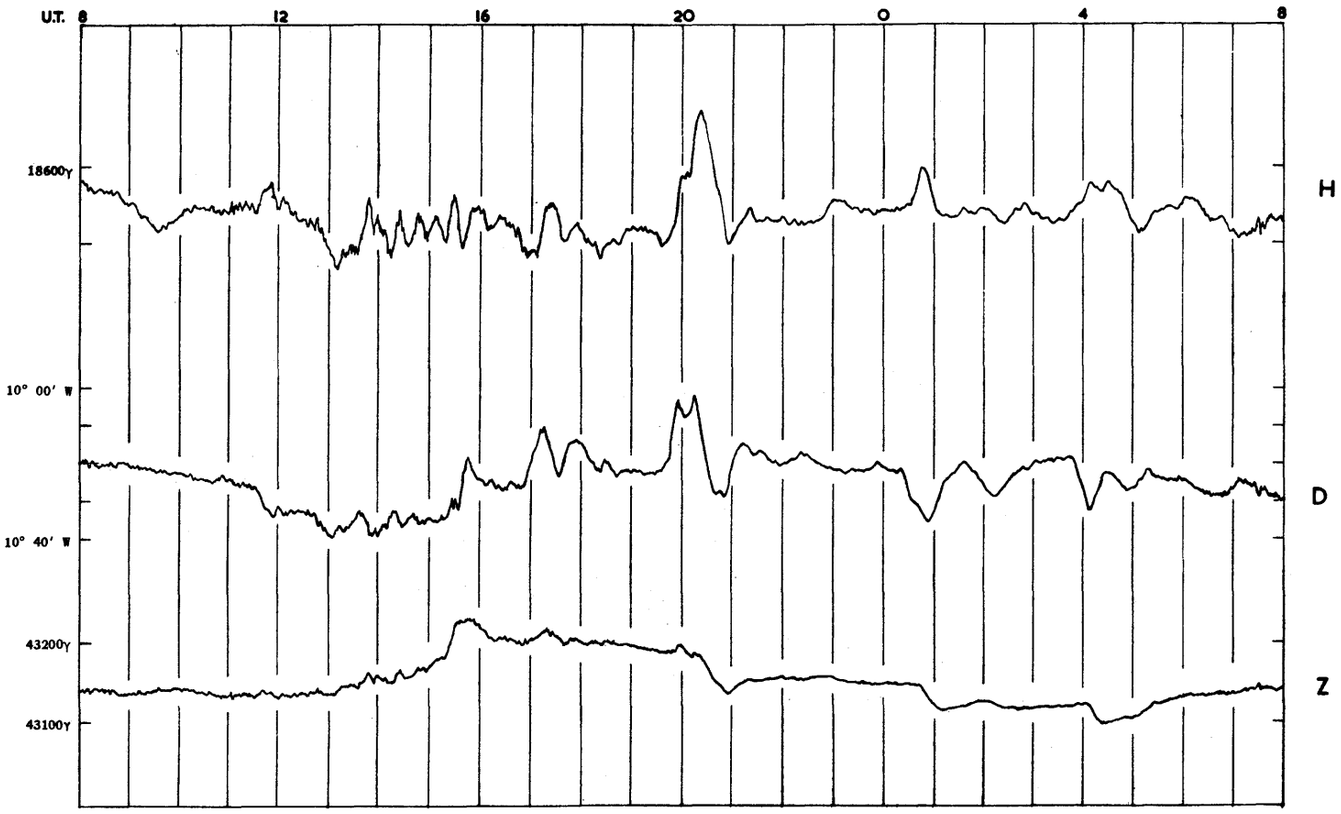


SCALES FOR THE MAGNETIC ELEMENTS

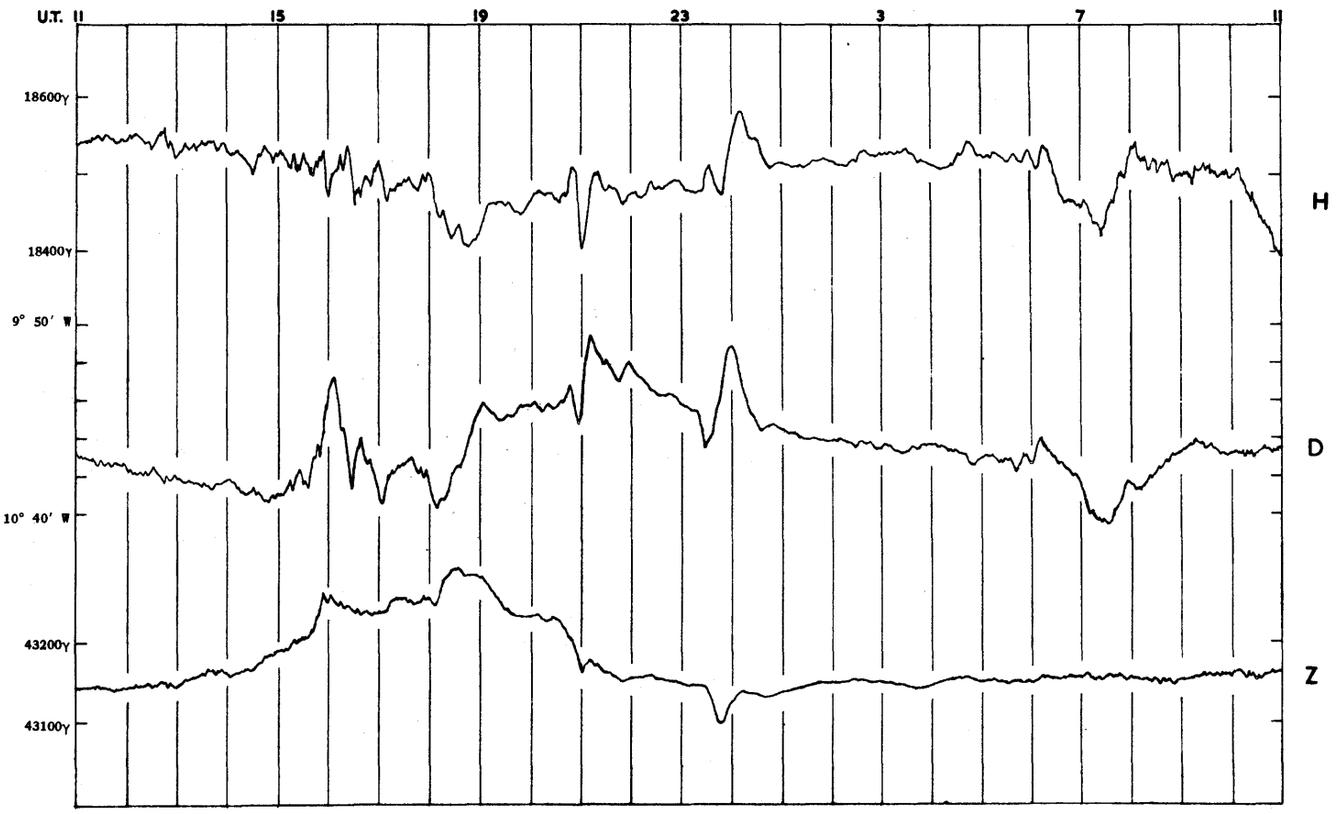








OCTOBER- 28-29.



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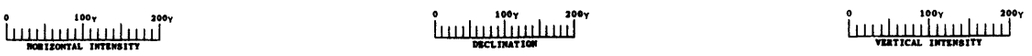

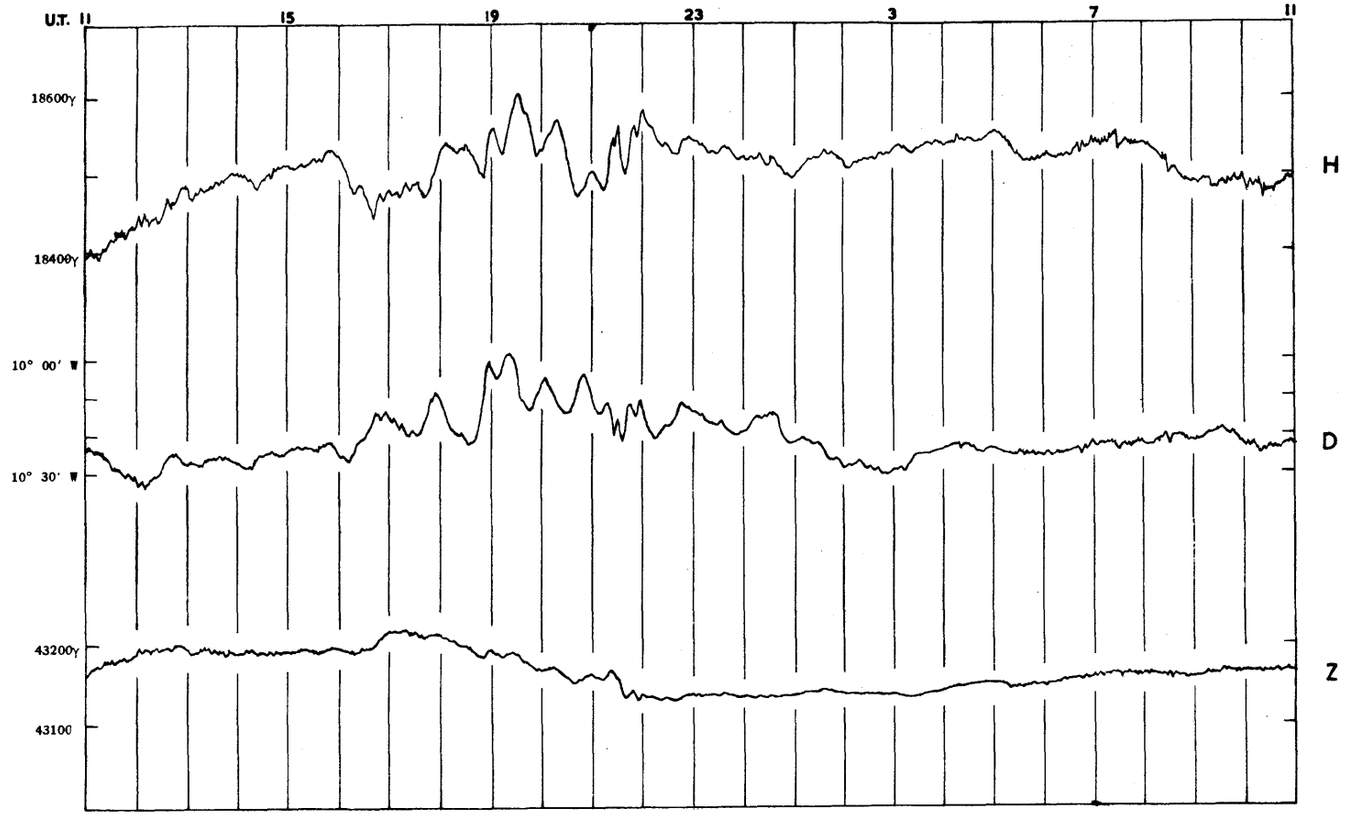

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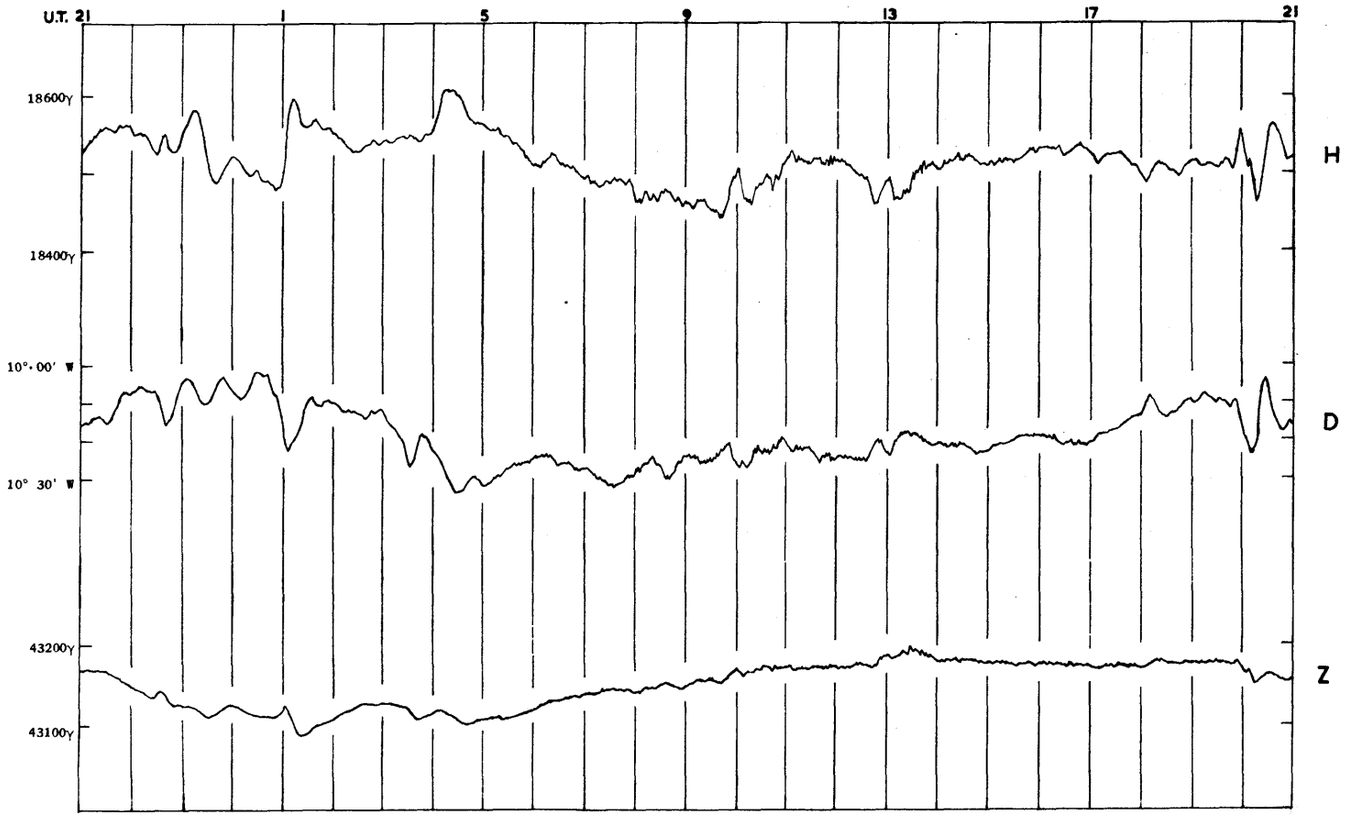

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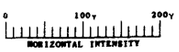

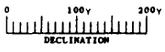

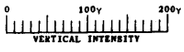

ROYAL OBSERVATORY, GREENWICH.

Results of Meteorological Observations

1942

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Jan. 1	30.329	42.6	36.2	6.4	39.9	+ 1.3	37.8	34.6	5.3	8.6	1.3	81	49.0	34.6	46.1	0.000	0.0	7.9
2	30.299	46.5	42.6	3.9	44.3	+ 5.9	41.0	36.0	8.3	9.2	6.4	73	52.9	39.0	46.0	0.000	0.0	7.9
3	30.099	46.2	42.4	3.8	44.3	+ 6.0	42.2	39.4	4.9	7.3	1.3	83	50.7	38.5	45.8	0.040	0.0	8.0
4	29.589	51.5	41.6	9.9	47.6	+ 9.3	45.8	43.7	3.9	6.7	1.7	86	71.8	36.0	45.9	0.246	0.3	8.0
5	29.778	41.6	33.6	8.0	37.0	- 1.2	35.2	32.2	4.8	8.4	2.5	83	58.6	28.6	45.8	0.000	2.2	8.0
6	30.058	37.4	30.6	6.8	33.6	- 4.5	31.4	27.8	5.8	11.5	1.0	78	47.6	24.5	45.7	0.000	0.9	8.0
7	30.098	36.8	25.5	11.3	32.4	- 5.6	30.6	27.6	4.8	6.8	1.6	81	42.6	17.5	45.6	0.016	0.0	8.1
8	29.973	39.9	34.3	5.6	37.2	- 0.7	35.6	33.1	4.1	5.0	2.6	85	55.7	28.1	45.6	0.000	1.5	8.1
9	29.683	39.7	34.7	5.0	37.5	- 0.4	35.0	30.6	6.9	12.2	2.5	76	49.9	30.7	45.2	0.006	0.6	8.1
10	29.996	36.3	28.0	8.3	33.2	- 4.7	30.7	26.6	6.6	12.8	1.5	74	50.3	18.0	45.1	0.000	0.7	8.1
11	30.094	33.3	21.3	12.0	26.3	-11.6	25.3	23.1	3.2	6.8	0.4	87	44.1	10.6	44.9	0.000	0.6	8.2
12	29.873	33.7	19.3	14.4	27.1	-10.8	25.5	22.1	5.0	9.3	2.6	80	41.7	7.9	44.6	0.011	0.0	8.2
13	29.372	36.4	30.6	5.8	33.6	- 4.4	32.5	30.7	2.9	5.7	0.6	88	43.7	30.0	44.5	0.080	0.0	8.2
14	29.609	31.4	25.3	6.1	29.5	- 8.5	28.3	26.1	3.4	5.6	0.6	86	43.7	20.0	44.1	0.016	0.0	8.3
15	29.867	33.6	16.8	16.8	26.6	-11.5	25.2	22.2	4.4	5.2	2.6	82	45.3	11.1	43.8	0.000	3.4	8.3
16	29.649	34.0	30.5	3.5	32.6	- 5.7	31.2	29.0	3.6	5.9	1.0	85	40.6	30.7	43.6	0.000	0.0	8.4
17	29.916	33.1	25.1	8.0	29.2	- 9.3	27.6	24.8	4.4	6.3	1.3	81	38.7	20.5	43.4	0.000	0.0	8.4
18	29.950	33.1	23.3	9.8	29.3	- 9.3	28.4	26.8	2.5	4.1	1.1	89	38.1	18.5	43.1	0.000	0.0	8.4
19	29.967	32.8	24.0	8.8	30.4	- 8.3	29.6	28.3	2.1	3.1	1.5	91	33.2	28.5	43.0	0.180	0.0	8.5
20	29.914	28.0	19.5	8.5	25.2	-13.6	24.2	22.0	3.2	6.6	0.8	87	45.5	13.0	42.8	0.000	0.0	8.5
21	30.050	27.2	14.9	12.3	22.3	-16.5	21.3	19.1	3.2	7.6	0.5	85	41.9	7.2	42.7	0.000	0.0	8.6
22	30.148	25.5	19.1	6.4	22.1	-16.7	21.0	18.5	3.6	4.9	1.6	84	59.7	12.5	42.5	0.000	2.7	8.6
23	29.804	44.3	24.5	19.8	33.5	- 5.4	32.8	31.6	1.9	3.5	0.0	93	40.5	22.5	42.5	0.505	0.0	8.7
24	29.323	44.9	40.0	4.9	43.3	+ 4.4	41.7	39.5	3.8	6.7	1.0	87	50.5	33.7	42.2	0.284	0.0	8.7
25	29.225	44.8	37.3	7.5	40.8	+ 1.7	37.1	31.1	9.7	15.3	5.0	67	66.8	30.2	42.2	0.000	2.7	8.8
26	29.621	38.8	21.5	17.3	31.1	- 8.2	28.4	23.4	7.7	13.2	1.6	70	52.2	16.5	42.0	0.000	0.3	8.8
27	29.716	40.4	19.1	21.3	28.9	-10.6	27.8	25.9	3.0	8.1	1.0	87	72.0	13.9	42.0	0.136	1.6	8.9
28	29.387	43.3	32.6	10.7	38.1	- 1.5	36.3	33.5	4.6	8.7	1.0	83	81.4	27.0	42.0	0.000	2.8	8.9
29	29.411	40.0	29.4	10.6	35.1	- 4.6	34.1	32.4	2.7	3.4	1.3	90	45.0	23.5	41.8	0.054	0.0	9.0
30	29.546	40.0	27.0	13.0	33.6	- 6.1	32.4	30.4	3.2	7.3	1.2	87	45.7	21.0	41.6	0.553	0.0	9.0
31	29.655	36.7	29.6	7.1	34.1	- 5.6	32.3	29.2	4.9	7.5	2.0	81	53.0	26.1	41.7	0.000	0.1	9.1
Means	29.806	37.9	28.4	9.5	33.5	- 5.1	31.9	29.1	4.5	7.5	1.6	82.9	50.1	23.2	43.8	Sum 2.127	0.7	8.4
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the *Barometer* for the month was 29.806 in., being 0.006 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 51°.5 on January 4; the lowest in the month was 14°.9 on January 21, and the range was 36°.6.

The mean of all the highest daily readings in the month was 37°.9, being 5°.2 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 28°.4, being 5°.8 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 9°.5, being 0°.6 greater than the average for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	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				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Jan.1	0.0	0.00	0.0	0.00	Calm	Calm:WSW	0.1	0.00	156	o ff	c *Frst St* ff	c *St* f m	c m
2	0.0	0.00	0.0	0.00	WSW	WSW	0.5	0.10	233	c m	c *Ast Stcu* m m_o	c *Stcu* d_o m_o	c m_o
3	0.3	0.02	0.2	0.01	SW	SSW:SW	3.1	0.45	338	c m_o d_o	c *Nbst Ast* $1d_o$	c *Nbst Ast*	c $1r_o$
4	2.5	0.18	2.3	0.17	SW	WSW:W	4.0	0.51	359	c 1r rr	rr *Nbst* c *Frst*	c *Frst* rr_o	r_o r_o c b c
5	3.0	0.22	1.7	0.13	N:NNE	NNE:N	3.5	0.46	356	c	c bc *Frst Acu*	bc b *Frst Frcu Acu* c r_o s_o bc	c
6	7.0	0.51	6.9	0.50	N	NNW	3.2	0.21	248	c m_o	c *Frst* b m_o	b *Frst* m_o m	b c m x
7	3.4	0.25	2.7	0.20	Calm	Calm:W:NNW	0.2	0.01	160	c b m x	b x m c *Stcu* f	c b *Ci Acu Cicu* ff	ff d_o c r c
8	0.7	0.05	0.0	0.00	N	N:NW:W	1.7	0.18	261	c bc c	c *Frst* m bc m_o	bc c *Cist Frcu so-ha* m_o	c m_o
9	3.3	0.24	2.8	0.20	W:NNW	NNW:W	4.0	0.57	331	c r c m_o	c bc *Acu Stcu Frcu* m_o	bc *Ast* c *Stcu* m_o 1 r s	$1r_o$ s_o c b
10	13.3	1.00	13.3	1.00	NE:NNE	NE	6.0	0.53	346	c	c *Frst Stcu* b *Acu*	b c $1s_o$ bc b	b x
11	11.7	0.88	7.4	0.56	Calm	Calm	0.1	0.00	128	b x	b *Acu* ff x	b *Acu* m_o m x	b x m f
12	0.6	0.04	0.4	0.03	Calm	Calm:SSE	0.3	0.02	167	b c m f x	c *Acu* ff x	c b c ff x	c $1s_o$ c
13	0.0	0.00	0.0	0.00	S:SSW	SSW:S:SSE	3.8	0.38	326	c	c s_o c *Nbst* $1s_o$	c $1s_o$s	ss
14	11.3	0.86	9.6	0.72	SE:Calm	ENE:NE	1.0	0.03	173	s c m	c m	c	bc b
15	0.0	0.00	0.0	0.00	Calm:SE	ESE	0.6	0.05	172	b x f	b *Acu Frst* f m_o	c *Stcu* m_o	c m_o
16	1.0	0.08	0.0	0.00	SE:ESE	E	2.0	0.16	234	c m	c m m_o	c m m_o	c m_o
17	0.0	0.00	0.0	0.00	NE:NNE	NE:Calm	0.7	0.07	175	c m_o	c *Stcu* m_o	c *Stcu*	c
18	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	102	bc c	o *St* f	c 1 s_o f m	c s_o s_o m
19	0.0	0.00	0.0	0.00	Calm:E	ESE	2.7	0.19	211	c m	c *St* m	c s_o ss	ss c
20	8.9	0.67	3.7	9.28	ESE	Calm	1.6	0.12	185	c	c *Ast Acu* m_o	c *Stcu Ast* m_o	c b x m_o
21	0.0	0.00	0.0	0.00	Calm	E	1.1	0.05	160	b x	c *Stcu* ff m_o	c *Acu Stcu* m_o	c m_o
22	1.1	0.09	0.0	0.00	SE:Calm	Calm	0.6	0.03	151	c m_o	c *Acu Ast*	c *Ci Cist Cicu so-ha* b	b c
23	1.5	0.11	0.9	0.07	S	S:SSW	6.0	0.71	383	c 1s	c *Nbst* ss rs	rs rr	r d_o rr
24	7.8	0.60	7.5	0.58	W:NW	SW:WNW	6.6	0.35	335	rr c m	bc *Ci Acu* c *Ast* m	c rr m	rr m c b
25	11.8	0.91	11.7	0.90	W:WNW	WNW:W	7.6	1.33	531	b x m_o	b *Ci Acu* m_o c *Stcu*	c *Stcu Frst* y b	b
26	9.8	0.75	9.4	0.72	W:NW:N	NE:Calm	10.0	1.23	418	b	c *Stcu Nbst* $1s_o$	c *Nbst* $1s_o$ b	b x
27	10.9	0.84	10.9	0.84	SSE:S	SSW:W	5.1	0.69	347	b bc x	bc x c *Ast Acu*	s_os d_o *Nbst* rr	rr b
28	10.3	0.79	10.0	0.77	WSW	WSW	5.1	0.53	403	b m_o x	b c *Ci Ast Acu* m_o	c *Ci Frcu Cumb* b	b
29	11.3	0.87	11.2	0.86	SW:WSW	N	7.9	0.43	336	b c m x	c *Ast Ci Stcu Nbst* p m	c *Nbst* r $1r_o$	c b x
30	0.0	0.00	0.0	0.00	W:SW:SSW	S:W	4.6	0.47	324	b x m	c *Acu Ast* m	c *Nbst* r_o r s r	rr c
31	3.4	0.27	0.6	0.05	NNE	N	5.1	0.69	347	c m	c *Stcu Frst* d_o m	c *Nbst* $1s_o$ c	c
Means	4.4	0.33	3.7	0.28	..	..	..	0.34	271				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 31°.9, being 5°.3 lower than
The mean *Temperature of the Dew Point* for the month was 29°.1, being 6°.0 lower than
The mean *Degree of Humidity* for the month was 82.9, being 3.9 less than
The mean *Elastic Force of Vapour* for the month was 0.159 in., being 0.046 in., less than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.078. The maximum daily amount of *Sunshine* was 3.4 hours on January 15.

The highest reading of the *Solar Radiation Thermometer* was 81°.4 on January 28, and the lowest reading of the *Terrestrial Radiation Thermometer* was 7°.2 on January 21.

The *Proportions of Wind* referred to the cardinal points were N.22, E.19, S.23, W.26, calm or nearly calm conditions 10, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 10.0 lbs. on the square foot on January 26. The mean daily *Horizontal Movement of the Air* for the month was 271 miles; the greatest daily value was 531 miles on January 25, and the least daily value was 102 miles on January 18.

Rain (0.005 in. or over) fell on 13 days in the month, amounting to 2.127 in., as measured by gauge No. 6 partly sunk below the ground; being 0.246 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Feb. 1	29.836	34.2	27.3	6.9	31.2	- 8.4	30.2	28.6	2.6	4.7	1.3	89	36.4	24.7	41.3	0.370	0.0	9.1
2	29.855	33.2	27.3	5.9	31.0	- 8.5	30.1	28.7	2.3	4.5	1.2	90	46.7	27.7	41.4	0.239	0.9	9.2
3	29.758	42.2	25.6	16.6	34.2	- 5.3	33.5	32.3	1.9	3.3	0.9	93	47.9	27.1	41.3	0.272	0.0	9.2
4	29.720	41.4	29.2	12.2	34.7	- 4.8	33.0	30.0	4.7	7.5	1.3	82	42.7	25.8	41.2	0.000	0.0	9.3
5	29.963	32.6	28.9	3.7	30.9	- 8.7	30.1	28.9	2.0	4.5	0.9	91	37.7	27.5	40.9	0.025	0.0	9.4
6	29.961	31.7	29.5	2.2	30.5	- 9.1	29.6	28.0	2.5	4.8	0.8	89	37.1	26.5	40.8	0.015	0.0	9.4
7	30.002	29.5	25.1	4.4	28.0	-11.5	26.5	23.3	4.7	7.5	3.1	81	42.7	25.2	40.7	0.030	0.3	9.5
8	30.160	30.1	24.3	5.8	26.7	-12.6	25.0	21.3	5.4	8.1	2.6	78	61.0	21.1	40.7	0.000	0.6	9.5
9	30.009	38.1	26.8	11.3	33.6	- 5.5	32.4	30.4	3.2	8.8	1.7	87	43.7	23.6	40.7	0.000	0.0	9.6
10	29.778	44.5	33.4	11.1	38.9	- 0.0	37.2	34.7	4.2	7.2	0.3	84	73.5	30.6	40.6	0.000	0.5	9.7
11	29.878	35.8	27.2	8.6	32.2	- 6.6	30.0	26.4	5.8	11.1	2.0	76	58.5	24.6	40.5	0.000	0.4	9.7
12	29.733	46.1	28.4	17.7	37.7	- 1.1	35.7	32.4	5.3	8.2	2.1	81	66.5	30.5	40.5	0.020	0.0	9.8
13	29.793	43.8	32.5	11.3	38.0	- 1.0	33.7	26.0	12.0	20.2	6.2	60	79.7	26.0	40.5	0.000	4.2	9.8
14	30.182	40.7	28.9	11.8	34.6	- 4.7	31.0	25.0	9.6	16.3	3.8	65	79.4	22.3	40.6	0.000	6.7	9.9
15	30.369	40.2	32.0	8.2	36.5	- 2.9	33.8	29.1	7.4	9.5	4.2	74	57.2	26.0	40.4	0.000	0.0	10.0
16	30.509	34.8	28.9	5.9	31.3	- 8.2	29.1	25.3	6.0	12.4	3.3	76	75.1	21.9	40.4	0.000	2.3	10.0
17	30.412	34.9	29.5	5.4	32.2	- 7.4	30.5	27.7	4.5	6.3	3.0	82	37.7	29.1	40.3	0.000	0.0	10.1
18	30.402	31.5	28.5	3.0	30.0	- 9.5	28.6	26.1	3.9	5.8	2.6	84	35.8	28.5	40.2	0.000	0.0	10.1
19	30.396	35.6	26.7	8.9	30.4	- 9.1	28.5	25.1	5.3	8.6	2.8	78	59.2	19.8	40.1	0.000	2.1	10.2
20	30.163	34.0	29.6	4.4	31.6	- 7.9	29.8	26.9	4.7	6.2	3.2	81	43.9	26.0	40.0	0.000	0.0	10.3
21	29.759	32.0	22.0	10.0	28.2	-11.4	26.5	23.1	5.1	7.4	3.2	79	47.3	17.0	40.0	0.003	0.2	10.4
22	29.546	30.6	24.0	6.6	26.6	-13.1	24.1	18.3	8.3	12.4	4.0	68	70.6	16.4	40.0	0.000	2.7	10.4
23	29.453	32.4	24.9	7.5	29.2	-10.6	27.4	24.2	5.0	8.5	3.6	79	54.3	21.5	39.8	0.000	0.0	10.5
24	29.451	35.7	30.0	5.7	32.1	- 7.9	30.3	27.4	4.7	9.1	2.6	81	48.6	24.0	39.7	0.000	0.0	10.5
25	29.607	36.0	29.4	6.6	32.5	- 7.6	31.3	29.2	3.3	7.4	0.8	87	58.7	28.5	39.7	0.000	0.4	10.6
26	29.772	33.5	29.3	4.2	31.7	- 8.5	30.7	29.0	2.7	6.3	0.9	89	37.5	28.4	39.5	0.001	0.0	10.7
27	29.789	36.6	27.9	8.7	31.9	- 8.4	30.3	27.7	4.2	9.3	1.1	83	59.5	16.0	39.4	0.000	0.0	10.8
28	29.701	47.0	27.9	19.1	36.2	- 4.1	33.7	29.4	6.8	17.8	0.5	75	95.8	16.0	39.6	0.000	2.9	10.8
Means	29.927	36.4	28.0	8.3	32.2	- 7.3	30.5	27.3	4.9	8.7	2.3	80.8	54.8	24.4	40.4	Sum 0.975	0.9	9.9
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the *Barometer* for the month was 29.927 in., being 0.118 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 47°.0 on February 28; the lowest in the month was 22°.0 on February 21; and the range was 25°.0.

The mean of all the highest daily readings in the month was 36°.4, being 8°.5 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 28°.0, being 6°.7 lower than the average for the 65 years. 1841-1905.

The mean of the daily ranges was 8°.3, being 1°.9 less than the average for the 65 years, 1841-1905.

The mean for the month was 32°.2, being 7°.3 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	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	0h to 6h	6h to 12h	12h to 18h	18h to 24h
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
	hours		hours				lbs.	lbs.	miles				
Feb. 1	0.0	0.00	0.0	0.00	Calm: SSE	Calm	0.5	0.02	142	c ss	c *Nbst* ss	ss is_g *Nbst*	c is_o
2	0.0	0.00	0.0	0.00	Calm: SE	E	..	..	202	c is	c is 1 r_o s_o c *Frst*	c bc *Stcu Frst* c	c
3	0.7	0.06	0.6	0.05	Calm: SSW	SW: W: WNW	4.6	..	297	c ss	ss *Nbst* c s dd_o	c *Nbst* dd_o m	d c m
4	0.7	0.06	0.6	0.05	NW: N: NNE	NNE: NE	3.1	0.45	355	c m	c m m_o	c s_o c	c
5	0.0	0.00	0.0	0.00	NNE	NNE	3.8	0.84	402	c	s_o s_o ss_o	ss_o is_o	c is_o
6	0.0	0.00	0.0	0.00	NNE	N: NNE	2.0	0.16	253	c is_o	c *Nbst* is_o	c *Nbst Frst* s_o s_o is_o	c is_o c
7	0.0	0.00	0.0	0.00	NNE: NE	NE	2.7	0.48	360	c	c *Stcu Nbst* is_o	s_o *Nbst* ss c	c
8	4.2	0.35	0.0	0.00	NE	Calm	1.0	0.06	171	c	c *Stcu*	c b m	b c m f
9	0.0	0.00	0.0	0.00	Calm	Calm	0.3	0.01	124	c m f	o id_o m f	o f id_o m	o id_o m
10	3.2	0.27	2.3	0.19	Calm: WSW	WSW: N	5.4	0.22	313	c	b c *Stcu Acu* d_o c r_o m	c *Frst Stcu* m	c
11	9.5	0.79	5.0	0.41	N	NNW: Calm: SW	3.0	0.12	223	c x m	e b *Ci Frst Ast*	bc *Ast Ci Cicu so-ha*	c m f
12	3.3	0.28	1.7	0.14	SW: WSW	WSW	5.0	0.44	389	c	c *Ast* s_o c *Frst*	c *Ast Stcu Frst* r_o r_o	r_o r_o c
13	12.0	1.00	12.0	1.00	W: NW: NNW	NNW: NW	6.0	0.68	396	c b	b bc *Ci Cicu Frcu* b y	c *Stcu* s_o c b y	b y b
14	0.0	0.00	0.0	0.00	NW: NNW	NNW: N	1.8	0.16	252	b x	b *Acu Ci* y	b *Acu* y	c
15	5.3	0.45	5.1	0.43	NNW: N	NNE: NE	1.0	0.06	186	c m	c *Ast* m	c	c b
16	0.0	0.00	0.0	0.00	NE: ENE	ENE: NE	4.0	0.45	336	b x c	c bc *Stcu*	bc c	c
17	0.0	0.00	0.0	0.00	NE: NNE	NE. ENE	5.6	1.05	469	c	c *Nbst Frst* is_o	c *Frst* is_o	c is_o
18	0.0	0.00	0.0	0.00	NE	NE	2.5	0.32	322	c	c *Frst St*	c *St Frst*	c
19	1.0	0.09	0.9	0.08	NE	NE: E	1.5	0.12	238	c	c	c b	b c
20	0.0	0.00	0.0	0.00	Calm: NE	NE: NNE	0.6	0.05	175	c	c	c	c
21	3.0	0.27	2.3	0.21	NE: ENE	NE	1.4	0.15	259	c	c s_os	c *Nbst* s s_o c bc	c b x c
22	4.5	0.40	3.8	0.33	NE	NE	1.2	0.08	218	c x	c b bc *Frst*	bc *Frst* y	b m x c b c
23	0.2	0.02	0.0	0.00	Calm: NE	NE	1.7	0.19	284	c	c *Nbst* is_o c *Acu Stcu Frst*	c is_o	c is_o
24	4.3	0.38	4.1	0.37	NE	NE	6.0	0.58	410	c is_o	c *Frst Stcu* is_o	c is_o c	bc *lu-ha* b c
25	0.0	0.00	0.0	0.00	NE	NE: NNE	4.0	0.65	413	c	c *Stcu Frst* is_o c	c *Stcu Frst Acu*	c
26	0.0	0.00	0.0	0.00	NNE: NE	NNE	2.3	0.28	315	c	c *Nbst* is_o m_o	c *Nbst*	c
27	7.7	0.68	7.5	0.67	N	Calm: SSW	0.3	0.01	163	c	c *St*	c b m f	b f x
28	0.7	0.06	0.3	0.02	SSW	SSW	2.4	0.20	288	b x c bc	c bc *Cist so-ha* y	bc *so-ha* y	bc c
Means	2.2	0.18	1.7	0.14	..	..	..	0.30	284				
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 30°.5, being 7°.2 lower than
The mean *Temperature of the Dew Point* for the month was 27°.3, being 7°.7 lower than
The mean *Degree of Humidity* for the month was 80.8, being 2.8 less than
The mean *Elastic Force of Vapour* for the month was 0.146 in., being 0.058 in. less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and overcast sky by 10) was 8.5.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.087. The maximum daily amount of *Sunshine* was 6.7 hours on February 14.

The highest reading of the *Solar Radiation Thermometer* was 95°.8 on February 28; and the lowest reading of the *Terrestrial Radiation Thermometer* was 16°.0 on February 27 and 28.

The *Proportions of Wind* referred to the cardinal points were N.42, E.28, S.9, W.13, calm or nearly calm conditions 8, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 6 0 lbs. on the square foot on February 13 and 24. The mean daily *Horizontal Movement of the Air* for the month was 284 miles; the greatest daily value was 469 miles on February 17, and the least daily value was 124 miles on February 9.

Rain (0.005 in. or over) fell on 7 days in the month, amounting to 0.975 in., as measured by gauge No. 6 partly sunk below the ground; being 0.505 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Mar. 1	29.764	36.0	30.5	5.5	33.5	- 6.9	31.2	27.5	6.0	9.1	3.2	76	48.9	20.7	39.5	0.000	0.0	10.9
2	29.897	43.6	30.3	13.3	36.1	- 4.3	34.2	30.9	5.2	9.9	1.2	81	75.0	21.5	39.6	0.000	2.5	10.9
3	29.803	53.6	29.3	24.3	39.7	- 0.8	36.9	32.2	7.5	13.9	0.0	75	106.7	18.7	39.6	0.000	3.8	11.0
4	29.434	41.4	35.7	5.7	39.7	- 1.0	38.7	37.2	2.5	6.9	0.0	91	50.6	35.0	39.6	0.605	0.0	11.1
5	29.605	35.7	28.9	6.8	31.9	- 9.0	31.0	29.4	2.5	3.4	1.4	90	51.7	28.9	39.6	0.037	0.0	11.1
6	29.648	30.4	24.7	5.7	28.6	-12.4	27.5	25.6	3.0	6.2	1.1	86	34.6	26.2	39.6	0.004	0.0	11.2
7	29.649	34.4	26.6	7.8	30.4	-10.6	28.8	26.1	4.3	7.7	1.6	81	37.0	21.0	39.7	0.000	0.0	11.3
8	29.864	50.9	24.1	26.8	37.0	- 4.1	33.4	26.9	10.1	20.7	1.1	65	102.6	14.7	39.6	0.003 *	7.9	11.3
9	29.761	57.0	34.8	22.2	43.1	+ 2.1	38.8	31.9	11.2	21.1	3.3	65	120.4	27.0	39.8	0.000	4.5	11.4
10	29.801	45.1	32.4	12.7	37.2	- 3.7	35.3	32.1	5.1	9.8	2.3	81	89.9	24.0	39.6	0.000	0.8	11.5
11	29.785	41.5	29.6	11.9	36.0	- 5.0	35.3	34.0	2.0	3.8	0.0	93	50.7	23.1	39.7	0.228	0.0	11.5
12	29.724	38.8	33.6	5.2	35.5	- 5.6	33.9	31.1	4.4	7.5	2.5	84	57.7	32.0	39.7	0.030	0.0	11.6
13	29.455	44.2	31.8	12.4	37.7	- 3.6	35.3	31.1	6.6	10.8	2.4	77	95.9	28.4	40.0	0.000	7.7	11.7
14	29.401	62.4	38.5	23.9	50.7	+ 9.2	48.0	45.1	5.6	14.6	2.0	81	124.4	33.5	40.2	0.183	4.5	11.7
15	29.586	59.8	42.5	17.3	51.4	+ 9.7	48.7	45.8	5.6	10.8	0.7	81	110.8	33.5	40.3	0.006	4.1	11.8
16	29.687	54.0	45.7	8.3	50.8	+ 8.9	49.2	47.5	3.3	6.1	1.6	88	83.9	38.1	40.6	0.300	0.5	11.8
17	29.429	57.1	48.4	8.7	51.4	+ 9.4	49.6	47.8	3.6	8.4	1.2	87	91.9	45.3	41.0	0.111	0.1	11.9
18	29.341	56.0	46.8	9.2	49.8	+ 7.8	48.2	46.4	3.4	8.0	2.2	88	102.7	43.1	41.5	0.022	0.8	12.0
19	29.574	55.6	40.2	15.4	47.1	+ 5.2	45.9	44.5	2.6	9.2	1.2	91	94.7	40.2	41.8	0.429	0.2	12.1
20	29.883	48.9	38.7	10.2	43.4	+ 1.5	42.6	41.6	1.8	4.0	0.0	93	69.8	40.1	42.1	0.000	0.0	12.1
21	29.969	44.3	35.0	9.3	42.0	+ 0.1	41.1	40.0	2.0	3.6	0.0	92	57.2	36.0	42.5	0.000	0.0	12.2
22	30.147	39.5	34.6	4.9	36.5	- 5.5	35.6	34.0	2.5	4.1	1.4	91	47.0	34.0	42.6	0.000	0.0	12.2
23	30.258	50.3	31.9	18.4	40.2	- 2.0	37.3	32.5	7.7	13.9	2.1	74	104.9	28.1	42.7	0.000	9.0	12.3
24	30.179	52.8	32.5	20.3	40.1	- 2.3	37.5	33.3	6.8	15.9	0.6	77	104.3	29.3	42.7	0.000	6.5	12.4
25	29.993	62.0	29.8	32.2	45.5	+ 2.8	40.8	33.9	11.6	24.4	0.0	64	95.6	24.8	42.9	0.000	7.9	12.5
26	29.906	50.5	37.1	13.4	42.4	- 0.6	38.8	33.3	9.1	22.2	1.6	69	108.0	28.7	42.9	0.000	5.7	12.5
27	29.701	48.4	35.3	13.1	41.1	- 2.2	38.2	33.5	7.6	12.5	3.9	75	99.7	29.5	42.7	0.004	2.0	12.6
28	29.831	45.5	35.0	10.5	39.2	- 4.5	34.8	27.2	12.0	27.2	4.4	60	105.4	28.0	42.8	0.000	4.2	12.6
29	29.784	55.6	32.6	23.0	42.8	- 1.3	39.5	34.6	8.2	14.9	2.0	72	105.9	23.6	42.8	0.000	7.4	12.7
30	29.779	58.8	36.5	22.3	46.6	+ 2.1	43.4	39.3	7.3	16.7	1.9	75	113.3	27.8	42.9	0.000	2.0	12.8
31	29.584	53.4	48.2	5.2	51.0	+ 6.1	49.7	48.4	2.6	4.0	1.6	91	64.8	43.5	43.0	0.173	0.0	12.8
Means	29.749	48.6	34.9	13.7	41.2	- 0.7	39.0	35.6	5.6	11.3	1.6	80.5	84.1	29.9	41.1	Sum 2.135	2.7	11.9
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

* Rainfall (Column 16). The amount entered on March 8 is derived from hoar frost.

The mean reading of the *Barometer* for the month was 29.749 in., being 0.004 in., lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 62°.4 on March 14; the lowest in the month was 24°.1 on March 8; and the range was 38°.3.

The mean of all the highest daily readings in the month was 48°.6, being 0°.6 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 34°.9, being 0°.7 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 13°.7, being 0°.1 greater than the average for the 65 years, 1841-1905.

The mean for the month was 41°.2, being 0°.7 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square foot Greatest	OSLER'S Pressure on the Square foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Mar. 1	2.8	0.26	2.7	0.25	Calm:FSE	E:ENE	1.8	0.09	203	c m_o	c *St* m_o	c	b c x
2	4.6	0.43	4.6	0.43	E:Calm	E:Calm	1.0	0.06	174	c m	c *St* m	c b m	b m fF x
3	0.1	0.01	0.0	0.00	Calm:SE	SE:SSE	1.7	0.11	176	FF x	b f bc *Ci*	bc *Ci* c	r_o c
4	0.0	0.00	0.0	0.00	SE:ESE	Calm:NNW:N	1.1	0.10	211	c r	rr *Nbst* m	rr *Nbst* $d_o d_o$ f c	c
5	0.0	0.00	0.0	0.00	NE:E	E	2.4	0.31	296	c rd	c *Nbst* s_o ss	ss *Nbst* c s_o c	c
6	0.0	0.00	0.0	0.00	E	ENE:NE	3.2	0.58	368	c	c *Nbst* $1s_o$ s_o	$1s_o$ $1r_o$ s_o *Nbst*	c
7	9.9	0.96	7.1	0.70	NNE:N	NNW:WSW	3.1	0.41	317	c	c *St*	c *St*	c b m x
8	8.3	0.81	6.7	0.66	Calm:SW	SSW	2.5	0.19	294	b x m	b bc *Ci Acu* m bc y	bc *so-ha* b y	b
9	4.6	0.45	2.1	0.20	SW:SSW	Calm	0.8	0.04	179	b bc x	bc c *Acu Ci Cist*	c *Ci Acu Cicu prha*	c b c
10	3.7	0.36	2.1	0.21	Calm	E:Calm	0.4	0.02	156	c m f x	c *Ast Acu Ci* f m	c	c m f
11	0.0	0.00	0.0	0.00	Calm	Calm:E	1.5	0.04	118	ff	ff r_o rr	rr g G ff	f $r_o$rr
12	1.3	0.13	0.0	0.00	ESE	ESE	4.2	0.56	351	r_o r c	c *St*	c *Ast*	c
13	1.1	0.11	0.3	0.03	ESE	E:Calm	3.9	0.51	312	c bc c x	c b *Ci*	b bc	bc c
14	3.3	0.34	2.7	0.27	Calm:SW	SSE:SSW	2.2	0.09	177	c r c	c *Ci Cist Acu Frst*	bc c	c R ir r_o
15	2.9	0.30	2.7	0.28	SW:SSW	SW:SSW	2.3	0.15	272	c bc	c *Ast* r_o c	c *Nbst* r_o c *Frcu Frst Acu*	c r_o c
16	0.0	0.00	0.0	0.00	SSW	SSW	2.0	0.15	255	c bc c	c *Frst Frcu Ci Nbst* $1d_o$	c *Nbst Frst* $1d_o$	c rr c
17	0.3	0.03	0.3	0.03	SSW:SW	Calm:SW	2.3	0.11	225	c r c	c *Frst Cunb*	c *Frst Ast* r_o r	$1r_o$ c
18	0.0	0.00	0.0	0.00	SW:SSW	SSW:Calm:W	1.3	0.08	217	c	c r_o c *Frst Stcu*	c *Stcu* $1r_o$ d_o	c $1r_o$ d_o
19	0.0	0.00	0.0	0.00	WSW	Calm	1.0	0.04	193	c ir m	c *Frst Cunb Stcu* r c m	c *Frcu Cunb* p t r g f r	c ff
20	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	102	c ff	o *St* r_o m	o m	o m f
21	0.0	0.00	0.0	0.00	Calm	ENE:NE	1.6	0.08	191	o ffe	o *St* fe m	o *St* m_o	o m_o
22	4.4	0.48	4.1	0.45	NE:NNE	NNE	2.3	0.39	396	o m_o	o *St* m_o	o *St* m_o c	c
23	6.1	0.66	6.1	0.66	NNE:NE	NE:Calm	1.7	0.16	285	b x	b *Frst*	b bc *Frst* b	b
24	9.3	1.00	9.3	1.00	ENE:Calm	Calm	0.2	0.00	140	b o fefe	o *St* fe b m	b y	b
25	9.2	0.99	8.5	0.92	Calm	Calm:E	2.5	0.04	142	b x f	b f z y	b z z_o y	b
26	9.3	1.00	9.3	1.00	Calm:E	E	6.6	0.87	334	b o f	o *St* fe bc *Ci Cist* y	b *Ci Cist so-ha* y	b y b
27	1.3	0.14	0.5	0.05	E	E:NE	2.4	0.26	271	b x	bc c *Acu*	c *Acu Cicu*	c r_o c
28	7.7	0.86	6.9	0.77	NE:ENE	ENE:NE	4.0	0.68	351	c	c *Acu Cicu* b *Ci* y	b bc *Ci Acu Cicu* y	bc *Ci Acu*
29	4.3	0.48	3.3	0.37	Calm	Calm	0.1	0.00	119	bc x	bc m b z_o y	b z_o y	b c bc
30	0.2	0.02	0.0	0.00	Calm:SW	SW:S	1.2	0.06	194	c b m	c *Acu Ast Ci* m	c *Frcu Cunb* y	c
31	5.1	0.57	3.3	0.37	SSW:SW	SW	4.4	0.62	395	c rr_o	rr_o c *Frst*	c *Frst Nbst* $1r_o$ r	c
Means	3.2	0.34	2.7	0.28	..	..	..	0.22	239				
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°.0, being 0°.4 lower than
The mean *Temperature of the Dew Point* for the month was 35°.8, being the same as
The mean *Degree of Humidity for the month* was 80.5, being 2.4 greater than
The mean *Elastic Force of Vapour* for the month was 0.208 in., being 0.001 in less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.223. The maximum daily amount of *Sunshine* was 9.0 hours on March 23.

The highest reading of the *Solar Radiation Thermometer* was 124°.4 on March 14; and the lowest reading of the *Terrestrial Radiation Thermometer* was 14°.7 on March 8.

The *Proportions of Wind* referred to the cardinal points were N.11, E.37, S.22, W.12, calm or nearly calm conditions 18, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 6.6 lbs. on the square foot on March 26. The mean daily *Horizontal Movement of the Air* for the month was 239 miles; the greatest daily value was 396 miles on March 22 and the least daily value was 102 miles on March 20.

Rain (0.005 in. or over) fell on 11 days in the month, amounting to 2.135 in., as measured by gauge No. 6 partly sunk below the ground; being 0.615 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Apr. 1	29.582	56.8	44.1	12.7	49.0	+ 3.7	43.7	36.7	12.3	22.4	3.4	62	121.3	37.6	43.3	0.050	7.4	12.9
2	29.826	55.0	39.4	15.6	46.9	+ 1.2	40.5	30.5	16.4	22.7	6.3	52	114.5	30.0	43.4	0.000	9.2	13.0
3	29.705	55.6	37.1	18.5	45.6	- 0.4	40.9	34.0	11.6	18.1	2.2	64	118.4	26.8	43.6	0.154	0.8	13.0
4	29.499	54.3	38.0	16.3	46.1	- 0.1	43.3	39.7	6.4	13.3	1.5	78	108.5	29.2	43.6	0.154	4.1	13.1
5	29.266	57.3	43.9	13.4	49.1	+ 2.8	45.3	40.6	8.5	20.3	2.3	73	126.1	39.0	43.8	0.000	6.1	13.2
6	29.411	57.3	42.9	14.4	49.8	+ 3.5	46.4	42.4	7.4	15.5	0.0	76	113.9	35.8	43.9	0.206	5.1	13.2
7	29.242	56.0	47.4	8.6	50.5	+ 4.2	46.4	41.6	8.9	14.0	3.1	71	119.3	42.0	44.1	0.000	5.4	13.3
8	29.551	53.1	41.7	11.4	45.6	- 0.5	42.1	37.3	8.3	16.9	4.9	73	119.5	34.5	44.1	0.120	6.6	13.4
9	29.480	52.1	40.9	11.2	47.6	+ 1.6	45.5	43.1	4.5	7.6	2.3	84	67.8	34.1	44.4	0.206	0.6	13.4
10	29.787	58.6	43.2	15.4	51.1	+ 5.2	44.4	35.3	15.8	24.5	7.6	55	117.5	35.5	44.6	0.000	8.2	13.5
11	30.096	61.3	37.4	23.9	50.0	+ 4.2	46.6	42.6	7.4	10.3	2.4	76	126.0	29.3	44.7	0.000	3.3	13.5
12	29.897	64.6	42.3	22.3	52.3	+ 6.4	47.0	40.7	11.6	20.9	3.6	65	123.2	31.1	45.0	0.000	9.9	13.6
13	29.740	58.5	44.6	13.9	51.3	+ 5.2	46.0	39.4	11.9	18.8	6.6	64	113.3	35.5	45.0	0.000	6.5	13.7
14	29.983	58.1	43.2	14.9	49.5	+ 3.1	44.3	37.5	12.0	26.2	3.3	64	116.1	34.0	45.1	0.000	11.9	13.7
15	30.253	57.0	42.2	14.8	48.6	+ 1.8	41.1	29.4	19.2	44.5	6.2	46	120.9	30.0	45.3	0.000	12.5	13.8
16	30.152	56.0	38.6	17.4	47.5	+ 0.3	39.3	25.4	22.1	32.3	13.0	40	121.6	26.0	45.5	0.000	12.8	13.9
17	29.834	57.5	39.6	17.9	49.0	+ 1.4	44.2	38.0	11.0	16.9	6.8	65	116.9	31.0	45.6	0.000	6.7	14.0
18	29.538	66.4	41.8	24.6	51.9	+ 3.9	47.2	41.8	10.1	18.1	3.5	68	116.3	32.9	45.7	0.000	5.9	14.0
19	29.584	65.6	41.2	24.4	52.4	+ 4.1	46.6	39.5	12.9	27.1	2.7	61	128.0	28.7	46.0	0.000	4.3	14.1
20	29.639	62.9	44.1	18.8	53.0	+ 4.5	47.9	42.1	10.9	23.0	2.4	66	123.4	32.0	46.0	0.000	5.5	14.1
21	29.787	54.0	45.2	8.8	48.2	- 0.5	46.0	43.5	4.7	9.0	2.1	83	99.3	41.2	46.1	0.000	1.2	14.2
22	29.816	61.3	44.1	17.2	51.1	+ 2.4	46.7	41.6	9.5	19.4	2.6	70	120.5	35.0	46.4	0.000	2.1	14.3
23	29.851	58.9	41.5	17.4	49.7	+ 1.1	45.8	41.1	8.6	16.8	1.8	72	116.3	30.3	46.6	0.000	5.8	14.3
24	29.954	54.1	38.3	15.8	44.9	- 3.7	39.2	30.1	14.8	25.5	6.8	55	116.5	30.7	46.6	0.000	10.0	14.4
25	29.826	53.7	40.2	13.5	46.4	- 2.2	41.6	34.6	11.8	16.3	5.4	63	112.2	31.0	46.9	0.000	10.1	14.4
26	29.758	56.7	41.1	15.6	48.7	+ 0.1	43.4	36.2	12.5	18.7	4.9	62	114.9	35.2	47.0	0.000	8.6	14.5
27	29.742	60.0	44.5	15.5	52.5	+ 3.8	45.8	37.3	15.2	24.0	6.9	56	118.5	37.1	47.1	0.000	11.2	14.6
28	29.794	54.5	45.7	8.8	49.6	+ 0.8	42.5	32.0	17.6	26.1	11.6	51	115.7	39.3	47.0	0.000	5.7	14.6
29	29.923	52.7	43.0	9.7	47.5	- 1.5	40.0	27.8	19.7	29.7	10.2	45	116.1	35.0	47.3	0.000	10.2	14.7
30	30.069	56.2	39.4	16.8	48.2	- 0.9	40.8	29.1	19.1	33.9	6.0	47	122.8	28.0	47.5	0.000	12.0	14.7
Means	29.753	57.5	41.9	15.6	49.1	+ 1.8	44.0	37.0	12.1	21.1	4.7	63.6	116.0	33.3	45.4	Sum 0.890	7.0	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 29.753 in., being 0.002 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 66°.4 on April 18; the lowest in the month was 37°.1 on April 3; and the range was 29°.3.

The mean of all the highest daily readings in the month was 57°.5, being 1°.4 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 41°.9, being 2°.4 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 15°.6, being 1°.0 less than the average for the 65 years, 1841-1905.

The mean for the month was 49°.1, being 1°.8 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Apr. 1	4.1	0.46	3.5	0.39	WSW	WSW	11.4	2.14	629	c b	b bc *Frcu Cumb* y	c *Frcu Ci Cumb* t q r bc p_o b y	b c q y
2	7.5	0.84	4.8	0.53	W:WNW	WNW	9.0	0.92	407	c q b	b bc *Frcu Cumb* y	b c *Frcu Cumb Cicu* y	c b bc *Ci*
3	2.4	0.27	2.2	0.24	Calm:SW	SSW.Calm	1.0	0.06	207	bc c	c *Ast Acu so-ha Frcu* y	c *Ci Ast Acu so-ha* c y	c r_o rr
4	0.4	0.05	0.1	0.01	WSW:SW	SSW	4.5	0.37	315	r c b	b bc *Acu Frcu* c *Stcu Nbst*	c *Acu Stcu Ast so-ha* p	c r_o r b c r r_o
5	8.0	0.94	7.5	0.89	SSW:SW	SW	5.0	0.77	423	c bc	bc c *Frst Acu Stcu Ci* y	c *Stcu Frcu Ci* b y	b
6	2.7	0.32	2.6	0.30	SSW	SW:SSW	7.0	1.16	464	b c p	c *Nbst Stcu*	c *Stcu Nbst* y	c ir_o ir
7	6.2	0.73	5.7	0.68	SSW:SW	SW:WSW	9.6	1.94	591	c bc c	c *Frcu Frst* p_o *Nbst*	c *Nbst* p_o *Frcu*	c b
8	6.3	0.74	6.3	0.74	WSW:SW	SW	4.7	0.43	348	b	b c *Stcu Acu Ci Cumb* p_o	c *Cumb* t p h r b	b
9	0.1	0.02	0.1	0.02	SSW:SW	SW	15.0	2.23	608	b c	rr r_o r *Frst Nbst* q	rr ir_o q	ir_o q
10	8.5	1.00	8.5	1.00	WSW:W	W	16.0	1.87	541	c q	c *Stcu Frst Frcu Ci* q y	c *Frcu Ci* y	c b
11	8.0	1.00	8.0	1.00	Calm	Calm:SE	0.2	0.02	146	b w	b w c *Ast*	c *Stcu* b	b
12	7.6	0.95	7.3	0.91	Calm:SE	ESE	4.0	0.52	281	b w	b *Ci* z_o bc y	bc *Ci* c *Cicu* b y	b
13	8.0	1.00	8.0	1.00	ESE:E	E	3.3	0.62	320	b bc w	bc *Ci Cist so-ha* y	bc *Cist Acu so-ha* b y	b
14	8.0	1.00	8.0	1.00	E	E	7.8	1.19	446	b w	b y	b y	b
15	8.0	1.00	8.0	1.00	E:ENE	E:ENE	4.3	0.71	335	b w_o	b y	b y	b y
16	8.0	1.00	8.0	1.00	NE:ENE	ENE	4.0	0.58	350	b	b *Frcu* y	b y	b y
17	4.5	0.56	3.4	0.42	NE:ENE	ENE:NE	5.2	0.60	340	b	b *Frcu Acu* c b y	b c *so-ha Ast* c y	c
18	5.9	0.79	5.7	0.77	Calm:NNE	Calm:SSW	0.7	0.04	149	bc b bc	bc b z_o bc *Acu Ci* y	bc c z_o y	c z_o b
19	7.4	0.99	6.2	0.83	SSW:Calm	SW	0.9	0.07	190	b bc w	bc c b *Ci Acu so-ha* z_o y	c *so-ha Ast Frcu* y	c b z
20	0.0	0.00	0.0	0.00	SW:WSW	WSW:NW:NE	2.6	0.12	209	b c w	c *Ci Acu* z_o y	c *Frcu Cumb* y	c
21	0.1	0.02	0.0	0.00	Calm	Calm:ESE	0.3	0.05	135	c w_o m_o	o *St* m_o	o c bc *Frst* m_o	c m_o m
22	0.5	0.07	0.0	0.00	Calm	Calm	0.3	0.01	83	o m	c *Frst Stcu* y	c *Cu Frcu* y	c m
23	0.0	0.00	0.0	0.00	Calm:E	E:NE	3.2	0.26	231	c m f	c *St* f m c *Stcu* z y	c *Stcu St* z_o b *Ci Acu* y	c *St*
24	6.7	0.89	6.7	0.89	ENE:NE	NE	4.4	0.88	433	c	c b *Frcu* y	b c y	c bc b
25	7.0	1.00	7.0	1.00	NE:ENE	ENE:NE	7.0	1.36	465	b c	c b *Frst* y	b y	b
26	7.0	1.00	6.5	0.94	NE:ENE	E:ENE	4.5	0.93	432	b	b *Ci so-ha* y	b bc *Ci so-ha* y	b *lu-ha*
27	6.0	0.86	4.8	0.68	ENE:E	ENE:E	7.5	1.48	498	b bc b	b *Acu Ci Frst* y	b *Ci Acu* c y	c y b
28	5.7	0.82	4.4	0.63	E	ENE:E	21.0	3.31	690	b c	c *Cist Ci so-ha* q	bc *Cist Ci Cicu* c q y	c *prhn* c *lu-ha*
29	7.0	1.00	7.0	1.00	E	ENE	15.8	3.49	669	c b *prhn*	bc *Ci Cist Frst so-ha* q	b *Ci Acu* q y	b q b
30	7.0	1.00	7.0	1.00	ENE	ENE:Calm	3.8	0.55	310	b	b *Frcu*	b *Frcu Cu*	b *Ci so-ha prhn* b
Means	5.3	0.68	4.9	0.63	..	..	..	0.96	375				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 44°.0, being 0°.1 higher than
The mean *Temperature of the Dew Point* for the month was 37°.0, being 2°.6 lower than
The mean *Degree of Humidity* for the month was 63.6, being 10.9 less than
The mean *Elastic Force of Vapour* for the month was 0.220 in., being 0.024 in. less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5.3.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.505. The maximum daily amount of *Sunshine* was 12.8 hours on April 16.

The highest reading of the *Solar Radiation Thermometer* was 128°.0 on April 19; and the lowest reading of the *Terrestrial Radiation Thermometer* was 26°.0 on April 16.

The *Proportions of Wind* referred to the cardinal points were N.9, E.38, S.19, W.24, calm or nearly calm conditions 10, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 21.0 lbs. on the square foot on April 28. The mean daily *Horizontal Movement of the Air* for the month was 375 miles; the greatest daily value was 690 miles on April 28 and the least daily value was 83 miles on April 22.

Rain (0.005 in. or over) fell on 6 days in the month, amounting to 0.890 in., as measured by gauge No. 6 partly sunk below the ground; being 0.676 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
May 1	29.978	56.3	37.3	19.0	46.1	− 3.2	41.0	33.3	12.8	21.7	3.4	61	120.2	21.1	47.4	0.000	8.1	14.8
2	29.884	56.6	38.3	18.3	46.6	− 2.9	42.1	35.9	10.7	21.2	3.8	66	122.2	21.1	47.4	0.008	6.0	14.9
3	29.986	67.4	37.7	29.7	51.0	+ 1.2	43.5	32.7	18.3	34.8	2.4	49	121.7	19.1	47.6	0.000	11.3	14.9
4	30.161	64.0	38.7	25.3	49.4	− 0.6	43.5	35.4	14.0	32.0	4.0	59	114.7	21.4	47.7	0.000	11.8	15.0
5	30.148	71.1	39.9	31.2	56.9	+ 6.6	47.2	34.4	22.5	46.2	2.0	42	131.0	25.1	47.8	0.000	9.8	15.0
6	30.014	74.4	43.3	31.1	59.3	+ 8.8	47.2	30.3	29.0	54.2	7.8	33	138.9	25.1	48.0	0.000	11.3	15.1
7	29.833	74.1	44.0	30.1	58.3	+ 7.6	48.1	35.1	23.2	52.5	5.6	41	138.5	28.4	48.3	0.000	11.9	15.1
8	29.859	53.8	39.6	14.2	46.6	− 4.4	41.2	33.2	13.4	29.2	5.8	59	114.9	33.2	48.3	0.000	11.4	15.2
9	29.794	58.0	39.3	18.7	48.2	− 3.0	41.7	31.9	16.3	33.7	5.7	53	126.0	32.9	48.5	0.000	10.6	15.3
10	29.631	58.6	39.4	19.2	48.6	− 2.9	44.6	39.5	9.1	21.3	2.9	71	103.0	31.2	48.7	0.738	1.1	15.3
11	29.422	64.8	48.4	16.4	54.7	+ 2.9	51.0	47.3	7.4	17.3	4.2	76	133.0	47.9	48.9	0.060	4.7	15.4
12	29.385	53.0	44.6	8.4	48.5	− 3.6	46.1	43.4	5.1	9.0	1.8	82	76.8	44.1	48.8	0.065	0.0	15.4
13	29.483	57.0	44.4	12.6	48.8	− 3.6	46.9	44.8	4.0	8.4	1.3	86	80.0	43.8	49.0	0.290	1.2	15.5
14	29.776	58.0	46.5	11.5	51.2	− 1.4	48.0	44.5	6.7	10.7	3.0	78	117.9	40.0	49.1	0.000	2.4	15.5
15	29.823	64.1	42.4	21.7	53.5	+ 0.7	49.2	44.7	8.8	18.3	1.4	72	125.0	29.1	49.2	0.020	5.6	15.6
16	29.721	68.5	51.3	17.2	58.5	+ 5.5	53.2	48.1	10.4	18.9	2.0	69	142.0	40.0	49.5	0.215	8.3	15.6
17	29.813	66.7	45.6	21.1	56.9	+ 3.8	51.3	45.5	11.4	20.1	1.1	66	135.0	33.2	49.6	0.024	6.9	15.7
18	29.676	69.9	54.2	15.7	61.2	+ 7.9	56.2	52.0	9.2	15.8	5.5	72	131.4	47.0	49.7	0.025	1.3	15.7
19	29.973	68.8	50.4	18.4	58.8	+ 5.3	53.0	47.5	11.3	21.3	2.9	66	139.4	38.0	50.0	0.000	10.5	15.8
20	29.830	67.8	46.4	21.4	56.3	+ 2.5	51.8	47.4	8.9	18.9	1.2	72	137.9	32.6	50.3	0.000	5.0	15.8
21	29.707	56.4	46.8	9.6	51.9	− 2.3	50.4	48.8	3.1	5.2	1.4	89	109.2	33.1	50.3	0.273	0.8	15.9
22	29.785	64.9	43.2	21.7	54.1	− 0.5	51.1	48.1	6.0	10.7	0.9	80	118.6	33.2	50.6	0.109	4.1	16.0
23	29.678	60.3	48.1	12.2	54.4	− 0.5	51.4	48.5	5.9	14.5	1.2	80	109.9	37.2	50.7	0.130	3.2	16.0
24	29.685	58.6	46.1	12.5	52.9	− 2.4	48.7	44.1	8.8	13.1	2.9	72	122.0	41.0	50.7	0.167	9.7	16.0
25	29.610	61.0	46.9	14.1	51.8	− 3.7	48.7	45.4	6.4	14.4	2.4	78	116.5	41.2	50.9	0.282	1.9	16.0
26	29.351	58.3	45.4	12.9	50.5	− 5.3	47.5	44.1	6.4	16.7	1.7	79	122.1	38.0	51.0	0.236	7.0	16.1
27	29.325	63.2	48.3	14.9	55.4	− 0.6	51.2	47.0	8.4	17.0	4.5	74	127.4	41.0	51.0	0.040	8.1	16.1
28	29.430	63.9	51.2	12.7	56.9	+ 0.7	51.0	44.9	12.0	19.1	6.2	64	128.0	43.0	51.1	0.010	10.3	16.2
29	29.617	62.0	49.4	12.6	55.0	− 1.4	50.0	44.8	10.2	17.5	1.9	69	125.0	41.7	51.2	0.032	7.7	16.2
30	29.712	63.6	46.2	17.4	54.6	− 2.1	50.2	45.7	8.9	16.0	2.7	71	136.8	39.1	51.2	0.060	10.0	16.2
31	29.844	61.9	48.8	13.1	55.3	− 1.8	49.9	44.1	11.2	20.8	4.0	66	125.4	34.0	51.4	0.050	9.5	16.3
Means	29.740	62.8	44.9	17.9	53.3	+ 0.2	48.3	42.3	11.0	21.6	3.1	67.6	122.3	34.7	49.5	Sum 2.834	6.8	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 29.740 in., being 0.061 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 74°.4 on May 6; the lowest in the month was 37°.3 on May 1; and the range was 37°.1.

The mean of all the highest daily readings in the month was 62°.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 44°.9, being 0°.7 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17°.9, being 0°.1 less than the average for the 65 years, 1841-1905.

The mean for the month was 53°.3, being 0°.2 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
May 1	4.1	0.59	4.1	0.59	NNE	N:Calm	2.1	0.11	210	b	b *Ci Frst* bc *Cu Frcu* y	bc c *Stcu Nbst* p_o b y	b bc c
2	6.2	0.96	6.1	0.95	Calm:NNE	NE:Calm	3.3	0.15	233	c r c	c *Nbst Stcu* y	bc *Stcu Frcu* b y	b
3	6.5	1.00	6.5	1.00	Calm	NW:ENE	1.8	0.08	203	b bc	bc b z_o y	b *Frcu* y	b
4	6.5	1.00	5.9	0.91	Calm	Calm:SSW	0.5	0.03	141	b x	b *Acu* z_o y	b bc *Frcu* b y	b c b
5	6.2	0.95	5.6	0.86	Calm:WSW	W:WSW	1.8	0.10	243	b x	b z_o *Ci Cist Acu*	bc y *Ci Cist Acu so-ha prhn*	b bc y
6	6.2	0.96	6.2	0.96	SW:WSW	WSW:SW	2.0	0.07	253	b y	b *Ci* y	b *Ci* y	b y
7	2.0	0.31	1.9	0.29	WSW	WNW:ENE	6.0	0.29	262	b c b bc y	bc *Ci Cicu* b y	b *Ci* y	bc b c
8	4.3	0.67	3.8	0.59	ENE	ENE	7.0	1.30	412	c	c *Frst Acu* b y	b y	b
9	5.7	1.00	5.7	1.00	NE:ENE	ENE:NE	6.2	1.23	401	b c	c b *Frst* y	b y	b y
10	0.0	0.00	0.0	0.00	NE:ENE	E:ENE	6.0	0.65	296	b bc	c bc *Cist so-ha* c *Ast* y	c *Nbst* r_o c rr	rRr
11	0.0	0.00	0.0	0.00	Calm	W.NNW	1.2	0.07	145	c m f	c m f c *Stcu* bc *Frcu Acu Cicu* y	bc c *Cicu Cumb Frcu* y r c	c
12	0.0	0.00	0.0	0.00	NNE:NE	NE	1.9	0.23	225	c	c *St*	c	ir_o rr_o
13	0.0	0.00	0.0	0.00	NE	N	2.5	0.31	250	rr	rr ir_o *Nbst* c *St* m_o	c *Stcu Frst* b m_o	b c m_o
14	2.7	0.48	0.0	0.00	N	NNE:Calm:ESE	1.4	0.17	184	c m_o	c *Frst Acu*	c *Stcu Frst*	c
15	0.0	0.00	0.0	0.00	Calm	S:SSE	1.5	0.11	168	bc c w f m	c *St Stcu Cu*	c *Stcu Cu Frst* b *prhn* y	c *prha so-ha* c r_o r
16	5.3	1.00	5.3	1.00	Calm	SW	2.4	0.11	181	rr c	c *Frcu Ast Ci Cicu so-ha* y	c bc *so-ha* c b y	b
17	0.0	0.00	0.0	0.00	SW	SSW:S	2.1	0.20	214	b	b bc *Cu Ci Cist so-ha* y	c *Stcu Cu Cist so-ha* y	c r_o r c
18	3.2	0.60	3.1	0.58	SSW	SW:WSW	6.0	0.69	328	c ir_o	c *Ast Acu Frcu* ir_o	c *Ast Acu Frcu* v *so-ha* r c	c b
19	4.1	0.78	3.5	0.66	WSW	SW	4.0	0.57	329	b c	b c *Frst Frcu* y	c bc *Frcu* y	bc b *Ci* bc
20	3.7	0.71	3.3	0.62	Calm	SE:Calm	1.3	0.03	124	bc w	bc c *Cist Acu so-ha* c y	c *Stcu Cumb*	bc b c
21	2.9	0.56	1.9	0.37	Calm:E	Calm	0.2	0.00	117	c	c *Stcu Nbst* r_o r R	Rr *Nbst* c r_o *Frst* bc	c r_o c
22	4.3	0.83	4.3	0.83	Calm:SW	SW:SSW	1.6	0.10	186	c bc w	bc c *Ci Acu Frcu*	c *Ast Stcu* p *so-ha* bc rr	c b
23	0.2	0.04	0.2	0.04	SW	SSW:SW	6.4	0.60	303	b bc w	bc *i-so-ha prha Cist Frcu*	c *Ast Frst Nbst* r_o r	r c rr c
24	4.7	1.00	4.7	1.00	WSW	WSW:SW	10.5	1.16	434	c rr b	c bc *Cumb Nbst* p	c bc c	c p b
25	0.0	0.00	0.0	0.00	SW	SW:SSW	14.8	1.63	446	b bc	c *Cist Frst Stcu so-ha* c	c *so-ha Stcu Ast* r_o r_o r	rr c
26	4.0	0.84	3.7	0.79	SSW:SW	S:SW	12.6	1.10	377	c b	b bc *Frst Nbst* r_o c *Ast* y	c *Ast Frst* rr c bc	bc *lu-ha* c
27	0.5	0.11	0.3	0.06	SSW:SW	SSW:SW	7.5	1.09	410	c	c *Frst Frcu*	c *Stcu Frst* ir_o r	ir_o r
28	4.3	0.92	4.1	0.87	SW	SW	14.6	2.76	596	c ir_o q	c bc *Stcu Frst Frcu* q y	b *Frcu Cu* q y	b
29	1.2	0.26	1.1	0.24	SW	SW	6.5	0.83	383	b bc c p	bc *Frcu Frst* c *Cumb* p t y	c *Cumb Frcu* p c y	bc c p c
30	1.5	0.32	0.7	0.14	WSW:W	WSW:SW	3.1	0.36	300	c b	b bc *Ci Stcu so-ha* c p	c *Cumb Frst* p b *Cumb Acu* y	c *Ast Stcu*
31	4.0	0.84	3.7	0.79	Calm:NW	WNW:W	6.5	0.13	203	c bc	bc c *Acu Stcu* bc p *Cumb*	bc t l r *Cumb Stcu* b y	b bc
Means	3.0	0.54	2.8	0.49	..	..	..	0.52	276				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 48°.3, being 0°.7 lower than
The mean *Temperature of the Dew Point* for the month was 42°.3, being 2°.5 lower than
The mean *Degree of Humidity* for the month was 67.6, being 3 less than
The mean *Elastic Force of Vapour* for the month was 0.271 in., being 0.027 in. less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.437. The maximum daily amount of *Sunshine* was 11.9 hours on May 7.

The highest reading of the *Solar Radiation Thermometer* was 142°.0 on May 16; and the lowest reading of the *Terrestrial Radiation Thermometer* was 19°.1 on May 3.

The *Proportions of Wind* referred to the cardinal points were N.16, E.15, S.30, W.24, calm or nearly calm conditions 15, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 14.8 lbs. on the square foot on May 25. The mean daily *Horizontal Movement of the Air* for the month was 276 miles; the greatest daily value was 596 miles on May 28 and the least daily value was 117 miles on May 21.

Rain (0.005 in. or over) fell on 20 days in the month, amounting to 2.834 in., as measured by gauge No. 6 partly sunk below the ground; being 0.919 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 Inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
June 1	30.167	70.6	40.4	30.2	57.0	- 0.4	50.1	42.6	14.4	25.7	1.5	59	136.9	25.2	51.7	0.000	11.8	16.3
2	30.261	75.5	51.6	23.9	62.3	+ 4.5	56.7	51.9	10.4	20.0	3.5	69	133.0	40.7	51.8	0.000	10.8	16.3
3	30.269	81.2	51.9	29.3	67.0	+ 8.9	59.5	53.6	13.4	26.3	1.4	62	134.5	37.1	52.0	0.000	14.5	16.4
4	30.226	82.0	53.9	28.1	68.8	+10.5	60.4	53.9	14.9	29.8	1.4	59	139.9	37.0	52.4	0.000	14.8	16.4
5	30.162	82.1	54.4	27.7	69.0	+10.6	59.6	52.0	17.0	35.0	1.3	55	139.0	38.5	52.7	0.000	14.4	16.4
6	29.931	86.2	55.5	30.7	71.4	+13.1	62.9	56.8	14.6	27.1	2.8	60	142.4	38.5	53.0	0.000	14.1	16.4
7	29.937	70.0	52.7	17.3	61.6	+ 3.4	51.8	41.2	20.4	31.3	9.2	47	146.4	39.0	53.3	0.000	11.5	16.5
8	29.964	64.5	47.9	16.6	55.9	- 2.2	48.2	39.0	16.9	26.1	6.5	53	127.0	33.4	53.5	0.000	7.2	16.5
9	29.895	60.0	48.3	11.7	53.5	- 4.5	47.0	39.1	14.4	21.3	5.9	58	133.0	37.7	53.7	0.000	3.9	16.5
10	29.845	59.1	45.4	13.7	52.0	- 6.1	47.1	41.5	10.5	16.2	2.4	67	111.6	29.0	53.7	0.000	5.6	16.5
11	29.827	60.9	42.4	18.5	51.7	- 6.5	45.8	38.3	13.4	21.2	3.8	60	136.9	33.0	53.8	0.000	13.0	16.6
12	29.577	53.0	48.3	4.7	50.5	- 7.9	48.9	47.2	3.3	5.9	1.2	88	61.1	44.3	53.7	0.104	0.0	16.6
13	29.571	60.2	48.7	11.5	53.8	- 4.7	49.7	45.4	8.4	15.1	1.4	73	124.0	44.0	53.8	0.004	4.0	16.6
14	29.627	63.6	44.8	18.8	53.6	- 5.1	48.0	41.5	12.1	25.2	2.7	63	125.0	35.7	53.7	0.037	6.6	16.6
15	29.670	57.8	43.9	13.9	51.3	- 7.5	47.4	43.0	8.3	14.4	2.5	73	112.7	28.6	53.6	0.000	0.5	16.6
16	29.753	65.5	49.2	16.3	55.4	- 3.5	49.4	42.8	12.6	23.7	4.8	62	133.6	37.0	53.7	0.000	3.6	16.6
17	29.716	67.8	49.3	18.5	58.8	- 0.2	51.6	44.0	14.8	27.3	4.0	58	129.7	33.8	53.7	0.000	7.0	16.6
18	29.812	62.4	51.2	11.2	57.2	- 2.0	53.4	49.8	7.4	10.5	2.4	77	88.4	40.8	53.5	0.000	0.6	16.6
19	30.046	64.6	47.0	17.6	56.1	- 3.4	52.5	49.0	7.1	13.4	2.4	77	128.5	33.5	53.6	0.071	1.0	16.6
20	30.079	74.5	45.2	29.3	60.1	+ 0.2	55.1	50.6	9.5	18.4	1.9	71	123.4	31.7	53.8	0.000	7.3	16.6
21	30.006	79.3	51.6	27.7	66.4	+ 6.1	59.4	53.9	12.5	23.1	1.1	64	136.5	...	54.0	0.000	11.2	16.6
22	29.917	81.4	54.4	27.0	68.0	+ 7.4	59.2	52.2	15.8	30.2	3.1	57	144.5	40.8	54.0	0.000	12.8	16.6
23	29.798	85.4	55.3	30.1	70.7	+ 9.8	61.1	53.8	16.9	33.9	1.8	55	141.6	42.1	54.4	0.000	11.5	16.6
24	29.905	72.0	55.4	16.6	63.0	+ 1.8	55.7	49.1	13.9	22.4	5.3	61	133.0	46.2	54.5	0.000	7.7	16.6
25	30.089	63.9	47.7	16.2	57.6	- 3.8	51.6	45.6	12.0	18.8	3.9	64	126.0	32.5	54.6	0.000	4.0	16.6
26	30.073	74.1	42.2	31.9	59.9	- 1.6	52.4	44.7	15.2	24.6	2.5	57	126.2	25.8	54.9	0.000	11.2	16.6
27	30.004	70.8	47.8	23.0	61.0	- 0.6	54.3	48.0	13.0	21.1	2.4	62	130.0	33.0	55.0	0.000	6.5	16.6
28	29.949	74.5	53.3	21.2	63.9	+ 2.3	57.1	51.4	12.5	21.0	3.9	64	137.2	39.9	55.0	0.000	4.9	16.6
29	30.013	83.8	53.3	30.5	69.0	+ 7.4	60.2	53.4	15.6	30.3	3.1	57	129.6	36.4	55.3	0.000	11.2	16.6
30	29.923	84.0	59.3	24.7	69.4	+ 7.9	63.0	58.6	10.8	24.6	2.8	69	148.6	45.7	55.4	0.125	7.9	16.6
Means	29.934	71.0	49.7	21.3	60.5	+ 1.1	54.0	47.8	12.7	22.8	3.1	63.4	128.7	36.6	53.7	Sum 0.341	8.0	16.5
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the *Barometer* for the month was 29.934 in., being 0.112 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 86°.2 on June 6; the lowest in the month was 40°.4 on June 1; and the range was 45°.8.

The mean of all the highest daily readings in the month was 71°.0, being 2°.1 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 49°.7, being 0°.7 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 21°.3, being 2°.8 greater than the average for the 65 years, 1841-1905.

The mean for the month was 60°.5, being 1°.1 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S				Robinson's				
					General Direction		Pressure on the Square Foot						
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	A.M.	P.M.	Greatest	Mean of 24 Hourly Measures	Horizontal Movement of the Air	0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
June 1	2.5	0.53	2.4	0.51	Calm	SW	3.4	0.12	201	b bc x w	bc *Ci Acu Cist so-ha* y	bc *Acu Ci Cicu* c y	c bc c
2	4.7	1.00	4.7	1.00	SW:W	NW:Calm	2.4	0.12	202	c w	c bc *Frst Stcu Ci Cicu*	b *Ci Cu* y	b
3	4.7	1.00	4.7	1.00	Calm	Calm	0.4	0.03	117	b w z	b z_o y	b *Frst* y	b
4	4.7	1.00	4.7	1.00	Calm	ESE:Calm	0.5	0.04	126	b w z	b z_o y	b y	b
5	4.7	1.00	4.7	1.00	Calm	ESE:ENE	1.3	0.08	146	b w z_o	b z_o y	b y	b y b
6	3.2	0.70	3.1	0.69	Calm:ENE	NE:SE:SW	3.0	0.05	143	b	b z_o y	b *Frcu* z_o y	b c
7	4.5	1.00	4.5	1.00	N	N:NNW	7.5	0.57	315	c	c b *Stcu Ci Cicu Acu* y	b *Cicu Acu* y	b c y b
8	..	..	..	..	NW:WNW	NW:N	3.2	0.31	266	b	b c *Stcu Frcu* y	c *Stcu Frcu* y	c y
9	3.1	0.70	2.7	0.60	NNW	N:Calm	1.7	0.13	172	c	c *Frcu Stcu* y	c *Stcu* y	c
10	4.5	1.00	4.5	1.00	Calm:NE	NE:ENE	2.7	0.19	223	c b	b c *Frcu Frst Stcu* y	c *Stcu Frcu Cumb* y	c b
11	0.0	0.00	0.0	0.00	NE	ENE	3.0	0.34	274	b	b bc *Frcu Acu* y	bc *Acu Frcu* y	bc c
12	0.0	0.00	0.0	0.00	ENE	NNE	1.9	0.21	242	c ir	c *Nbst* rr 1 r_o	1 r_o *Nbst* d_o d	d d_o
13	1.9	0.43	1.8	0.40	NNW:NW	W:WNW	3.0	0.29	264	d_o d_o c	c *Frcu* bc c *Stcu* y	c *Stcu*	bc c
14	3.6	0.81	3.5	0.79	Calm:WSW	Var:Calm	0.5	0.05	129	c	c bc *Frcu* z_o y	c z_o *Stcu Cumb* y	c p t l r c b
15	0.0	0.00	0.0	0.00	Calm:NW	NW	2.3	0.15	215	b c	c *St Frst* g *Cumb*	g *Cumb* c *Stcu* y	c
16	1.9	0.43	1.8	0.41	NW:WNW	W:Var	1.3	0.10	197	c	c d_o c b c *Frcu Acu* y	c *Frcu Cumb Acu* y	r_o c bc b c
17	0.0	0.00	0.0	0.00	Calm:WNW	NW:W	1.5	0.11	193	c	c b c *Stcu Acu* y	c bc *Stcu Cicu Acu* c y	c
18	0.0	0.00	0.0	0.00	WSW:W	WSW:NW:NNE	0.9	0.07	167	c	c *Ast Stcu Frst Nbst* r_o	c *Nbst* r_o c	c d_o c
19	3.4	0.76	3.3	0.74	ENE:E	Calm:E	1.0	0.06	155	c rr_o c	c *St Frst Stcu*	c *Stcu*	c b
20	4.5	1.00	4.5	1.00	Calm	Calm	0.3	0.01	105	b c w	c b z_o bc *Cu Frcu* y	bc *Cu Frcu* c z_o y	c z b z_o
21	4.5	1.00	4.5	1.00	S:Calm	Calm:S	0.3	0.03	109	b z_o	b *Cu Frcu* y	b bc *Cu Frcu* z_o y	bc b
22	..	..	..	..	Calm:SSE	SSE:Calm	1.7	0.09	143	b	b bc *Ci Cicu Acu* y	bc b *Ci Cicu Acu* y	b
23	3.4	0.76	3.1	0.69	Calm	WSW:NNE	1.7	0.08	139	b bc b	b *Ci Frcu* y	b *Frcu* bc c y	c
24	1.3	0.30	1.1	0.25	NNE:NE	NNE:ESE:E	2.7	0.21	254	c	c *Ci Acu Stcu* y	c *Ci Stcu* y	c b c
25	4.5	1.00	4.5	1.00	Calm:NE	NNE:Calm	2.1	0.09	190	c	c *Acu Frcu* y	c bc y	bc b
26	4.3	0.95	4.2	0.93	NNE:Calm	NW:NNW	2.5	0.09	162	b	b c *Stcu Acu Cu* z_o y	c *Stcu Acu Cu* y	c y b
27	4.5	1.00	4.5	1.00	Calm:NNW	NNW:NW:W	1.2	0.09	162	b	b *Frcu* c *Stcu Frst* t y	c *Stcu Frst* y	c *Ast* bc
28	4.5	1.00	4.5	1.00	WSW:W	WNW:NW	1.2	0.11	202	bc c	c *Ast Acu Stcu* y	c *Stcu* y v	b *Acu Ci*
29	3.1	0.68	3.1	0.68	Calm	Calm:S	0.5	0.02	107	b	b c z_o y	b c z_o y	c t c b
30	1.3	0.29	0.6	0.14	Calm	WSW:N:NNE	2.9	0.06	152	c bc	bc c *Acu Ci Cu* y	c *Stcu Cumb* y t l r	t l r c
Means	3.0	0.66	2.9	0.64	..	..	..	0.13	182				
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°.0, being 0°.9 lower than
The mean *Temperature of the Dew Point* for the month was 47°.8, being 3°.0 lower than
The mean *Degree of Humidity* for the month was 63.4, being 9.8 less than
The mean *Elastic Force of Vapour* for the month was 0.334 in., being 0.041 in. less than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.486. The maximum daily amount of *Sunshine* was 14.8 hours on June 4.

The highest reading of the *Solar Radiation Thermometer* was 148°.6 on June 30; and the lowest reading of the *Terrestrial Radiation Thermometer* was 25°.2 on June 1.

The *Proportions of Wind* referred to the cardinal points were N.24, E.16, S.8, W.20, calm or nearly calm conditions 32, 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 June 7. The mean daily *Horizontal Movement of the Air* for the month was 182 miles; the greatest daily value was 315 miles on June 7 and the least daily value was 105 miles on June 20.

Rain (0.005 in. or over) fell on 4 days in the month, amounting to 0.341 in., as measured by gauge No. 6 party sunk below the ground; being 1.697 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
July 1	29.907	71.2	53.9	17.3	62.9	+ 1.4	58.1	54.3	8.6	14.1	2.8	73	127.9	46.7	55.4	0.000	8.3	16.6
2	29.890	72.6	53.6	19.0	62.8	+ 1.2	58.5	55.2	7.6	15.8	2.7	76	131.8	44.0	55.6	0.000	3.7	16.6
3	29.852	74.3	55.3	19.0	63.3	+ 1.5	58.7	55.2	8.1	16.9	2.0	75	140.9	42.1	55.8	0.000	2.6	16.5
4	29.712	72.4	59.0	13.4	64.6	+ 2.5	58.9	54.4	10.2	19.2	3.9	70	124.4	51.4	55.8	0.000	4.1	16.5
5	29.602	79.5	56.5	23.0	67.7	+ 5.4	60.5	55.2	12.5	21.4	2.0	64	144.2	43.5	56.0	0.000	10.9	16.5
6	29.612	73.2	56.9	16.3	63.3	+ 0.9	56.3	50.2	13.1	27.2	4.2	62	145.3	46.1	56.1	0.012	9.0	16.5
7	29.711	73.6	55.8	17.8	63.5	+ 1.1	56.5	50.5	13.0	24.4	2.0	63	138.6	45.0	56.3	0.004	11.7	16.4
8	29.844	71.3	52.3	19.0	60.3	- 2.1	54.3	48.8	11.5	23.2	3.2	65	126.6	41.0	56.4	0.016	5.2	16.4
9	29.845	74.5	55.3	19.2	62.4	- 0.0	56.2	50.8	11.6	25.1	3.8	66	138.1	43.0	56.5	0.000	5.0	16.4
10	29.616	59.3	53.9	5.4	56.8	- 5.7	55.0	53.5	3.3	6.0	1.8	88	81.8	51.6	56.4	0.527	0.0	16.4
11	29.704	67.0	50.5	16.5	57.7	- 5.0	52.4	47.2	10.5	18.7	4.8	68	122.3	41.0	56.6	0.000	6.1	16.3
12	29.890	68.8	48.4	20.4	59.2	- 3.7	53.2	47.5	11.7	20.3	2.5	65	137.0	33.7	56.7	0.000	8.9	16.3
13	29.943	72.9	50.8	22.1	61.6	- 1.5	55.8	50.7	10.9	18.1	1.9	68	144.9	35.2	56.7	0.243	5.7	16.3
14	29.877	70.7	57.1	13.6	63.0	- 0.3	57.2	52.4	10.6	21.0	1.1	69	125.0	47.0	56.5	0.023	3.0	16.2
15	29.993	71.0	53.3	17.7	61.2	- 2.2	53.6	46.2	15.0	23.1	4.9	58	128.6	43.3	56.6	0.000	8.4	16.2
16	29.796	74.0	54.8	19.2	63.2	- 0.2	58.0	53.8	9.4	20.9	3.5	72	133.0	48.6	56.7	0.080	4.0	16.2
17	29.663	59.3	53.5	5.8	55.7	- 7.7	53.2	51.0	4.7	11.4	1.3	84	94.8	50.0	56.6	0.324	0.1	16.2
18	29.749	58.0	52.1	5.9	54.7	- 8.6	52.5	50.4	4.3	5.0	2.8	85	76.8	48.2	56.7	0.072	0.0	16.1
19	29.874	70.1	50.8	19.3	59.0	- 4.2	53.0	47.3	11.7	23.7	3.1	65	127.7	48.9	56.8	0.000	5.6	16.1
20	29.922	68.9	57.3	11.6	63.1	- 0.1	59.1	56.1	7.0	10.6	2.7	78	113.9	49.0	56.6	0.006	0.1	16.0
21	29.963	77.6	62.9	14.7	68.3	+ 5.1	61.9	57.4	10.9	24.2	4.9	68	135.1	56.0	56.7	0.000	5.8	16.0
22	29.802	68.2	59.7	8.5	63.5	+ 0.4	59.3	56.2	7.3	13.5	3.2	77	110.2	51.6	56.7	0.010	0.1	15.9
23	29.651	68.2	57.8	10.4	62.7	- 0.3	56.9	52.0	10.7	15.4	2.7	68	130.0	53.0	56.9	0.024	3.2	15.9
24	29.782	73.6	55.7	17.9	62.9	- 0.0	58.3	54.7	8.2	13.8	2.6	74	132.7	48.2	56.9	0.000	7.4	15.9
25	29.748	74.3	55.0	19.3	64.7	+ 2.0	57.6	51.6	13.1	24.2	3.1	63	135.0	43.0	57.0	0.000	5.1	15.8
26	29.769	70.2	51.0	19.2	60.2	- 2.3	53.9	48.0	12.2	21.9	4.5	64	140.5	37.6	57.0	0.000	2.8	15.8
27	29.607	64.0	50.4	13.6	58.2	- 4.2	55.7	53.6	4.6	12.7	0.7	85	104.9	37.0	57.0	0.524	1.1	15.7
28	29.965	73.4	45.4	28.0	59.6	- 2.7	54.2	49.3	10.3	19.0	1.1	69	136.7	31.9	57.2	0.000	10.7	15.7
29	29.883	74.0	52.3	21.7	62.3	- 0.0	57.8	54.3	8.0	15.5	2.8	75	122.7	37.9	57.2	0.000	4.7	15.6
30	30.039	73.9	50.7	23.2	62.4	+ 0.1	56.3	51.0	11.4	24.5	1.8	67	129.6	35.3	57.2	0.000	9.6	15.6
31	29.994	72.7	52.4	20.3	62.8	+ 0.6	56.2	50.4	12.4	30.7	1.5	64	138.3	36.5	57.3	0.000	12.0	15.5
Means	29.813	70.7	54.0	16.7	61.7	- 0.9	56.4	51.9	9.8	18.8	2.8	70.6	126.4	44.1	56.6	Sum 1.865	5.3	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 29.813 in., being 0.007 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 79°.5 on July 5; the lowest in the month was 45°.4 on July 28; and the range was 34°.1.

The mean of all the highest daily readings in the month was 70°.7, being 1°.4 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 54°.0, being 0°.2 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 16°.7, being 1°.6 less than the average for the 65 years, 1841-1905.

The mean for the month was 61°.7, being 0°.9 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
July 1	2.1	0.47	1.9	0.43	NNE:NE:ENE	ESE:E	2.5	0.21	243	c	c *St* bc *Cu Frst*	b *Ci* z_o	b c
2	4.5	1.00	4.5	1.00	ENE	ESE:Calm	1.3	0.15	205	c	c *Cist Ast Acu* z_o *so-ha*	c bc *Stcu Acu Cu* y	b
3	2.6	0.57	2.6	0.57	Calm:SW	SW:SSW	2.4	0.17	248	b c	c *Ci Cicu Acu Frcu* y	c *Cist Ast Stcu Frcu*	c bc
4	1.2	0.26	1.1	0.24	SSW:SW	SW	7.5	0.65	357	bc c	c id_o c *Stcu Cu* y	c *Stcu Cu* y	c
5	1.6	0.33	1.1	0.24	Calm:SW	SW:WSW	2.4	0.16	228	c	c *Ci Cu Stcu* y v	bc *Ci Stcu* y v	bc y c
6	2.3	0.48	1.9	0.41	WSW	SW	3.5	0.33	296	c	c *Frcu Acu Cumb* p y	c *Cumb* p_o c *Ci Cu* y v	c v
7	3.7	0.78	3.3	0.70	SW	SW:WSW	4.7	0.51	298	c p_o c	c *Frcu Acu Ci* y	c *Frcu Cist Cicu* y	c r_o b c
8	2.0	0.42	2.0	0.42	WSW	WSW:SW	3.5	0.20	263	b c bc	b c *Frcu Stcu* y	p_o c *Stcu Acu* p y	c b c
9	0.1	0.02	0.0	0.00	WSW	WSW:SW	1.9	0.17	247	c	c *Stcu Frst Cu* y	c bc *Stcu Frcu Cu* c r_o y	c
10	1.3	0.28	1.3	0.28	Calm:NNE	NNE:N:NW	2.4	0.14	214	c dd r m_o	r r_o *Nbst* r R	rr *Nbst*	r r_o c
11	3.5	0.67	3.5	0.66	WNW:NW	NW:WNW	3.5	0.32	314	c bc c	c bc c *Frst Stcu* p_o	bc *Stcu Frcu Cumb* y	bc *Acu Stcu*
12	5.3	1.00	5.3	1.00	Calm:NNW	N:Calm	1.0	0.06	140	bc b	b bc *Stcu* c *Frcu* y	c *Frcu Stcu* b y	b w
13	0.0	0.00	0.0	0.00	WSW	WSW	2.6	0.23	255	b bc	bc *Acu Ci* c *Stcu* y	c *Stcu* y	c p t R r
14	5.3	1.00	5.3	1.00	WSW.NW	NW	2.7	0.19	235	rr r_o c	c *Frcu Stcu* y	c *Stcu Ast* y	c y b
15	1.2	0.23	1.1	0.20	NNW:NW	NW:W:WSW	2.3	0.26	281	b	b bc *Stcu Frcu* c *Acu Ci* y	c *Cist Stcu so-ha* y	c bc c
16	0.0	0.00	0.0	0.00	SW:WSW	W	9.6	0.78	397	c r r_o	c *Frst Stcu*	c *Acu Ci Stcu Cicu* q y	p_o c
17	0.0	0.00	0.0	0.00	W:WNW	WNW:NNW	4.7	0.32	334	c p c	c *Stcu Frst Nbst* p_o r_o r	rr *Nbst*	rr c
18	0.0	0.00	0.0	0.00	NW:NNW	NNW:N	4.7	0.49	389	c	ir_o *Nbst* c	c id_o d *Nbst*	id_o d c
19	0.1	0.02	0.0	0.00	NNW:N	N.NNW	3.0	0.26	302	c	c *Stcu* b *Frcu* y	b *Frcu Ci* c *so-ha* y	c
20	0.3	0.06	0.2	0.03	NNW:N	WNW:WSW:NW	1.3	0.07	190	c r_o c	c *Frst Stcu*	c *Stcu*	c id_o p_o
21	2.4	0.42	2.4	0.42	NW:NNW	NW	2.7	0.20	255	c	c *Frcu Stcu*	c bc *Frcu* c y	c bc
22	0.7	0.13	0.7	0.12	WSW	WSW	8.6	1.01	444	bc c ir_o	*Ast Nbst* ir_o c	c *Nbst Stcu* ir_o	c ir_o
23	2.4	0.41	2.3	0.39	WSW:WNW	WNW.WSW	6.2	1.01	445	c bc c ir_o	c *Stcu Frst* y	c *Stcu* bc y	bc c bc
24	4.1	0.70	4.1	0.70	WSW:SW	SW	4.7	0.44	341	bc c	c *Ast Nbst*	c *Frst Stcu* b	b bc c b
25	5.5	0.92	5.5	0.92	SW:W	SW:W	2.8	0.21	278	b c d_o	c *Frst Stcu* y	c *Ci Frcu Stcu* bc y	bc c bc
26	0.0	0.00	0.0	0.00	WSW	WSW:SW	1.7	0.14	235	bc c	c *Cist Cu Frst so-ha Acu* y	c *Stcu Cu Acu* y	c
27	6.0	1.00	6.0	1.00	SE:SW:NNW	NNW:Calm	3.2	0.19	233	c r R m	dd *Nbst* m r c	c *Nbst*	b
28	3.3	0.54	2.9	0.49	Calm	SW	0.9	0.03	162	b w m_o	b *Acu* bc *Cu Frcu Stcu* y	bc c *Stcu* b *Acu* y	c *Acu Stcu* b
29	6.0	1.00	6.0	1.00	Calm:WSW	WSW:NNW	2.2	0.13	232	b c	c *Ast Acu* d_o *Nbst* id	c bc *Frcu* b	b
30	5.2	0.86	5.2	0.86	Calm	Calm	0.1	0.01	108	b w	b z_o bc *Cu* y	bc *Frcu Cu* y	bc b w
31	6.0	1.00	6.0	1.00	Calm:SE	ESE:Calm	1.6	0.11	164	b w f	f b *Cu Frcu* y	bc *Acu Cicu* y	b
Means	2.5	0.47	2.5	0.45	..	..	..	0.30	269				
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 56°.4, being 1°.5 lower than
The mean *Temperature of the Dew Point* for the month was 51°.9, being 2°.2 lower than
The mean *Degree of Humidity* for the month was 70.6, being 2.6 less than
The mean *Elastic Force of Vapour* for the month was 0.389 in., being 0.032 in. less than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.330. The maximum daily amount of *Sunshine* was 12.0 hours on July 31.

The highest reading of the *Solar Radiation Thermometer* was 145°.3 on July 6; and the lowest reading of the *Terrestrial Radiation Thermometer* was 31°.9 on July 28.

The *Proportions of Wind* referred to the cardinal points were N.21, E.7, S.17, W.45, calm or nearly calm conditions 10, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 9.6 lbs. on the square foot on July 16. The mean daily *Horizontal Movement of the Air* for the month was 269 miles; the greatest daily value was 445 miles on July 23, and the least daily value was 108 miles on July 30.

Rain (0.005 in. or over) fell on 12 days in the month, amounting to 1.865 in., as measured by gauge No. 6 partly sunk below the ground; being 0.534 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Ray's	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Aug. 1	29.771	79.3	51.4	27.9	64.8	+ 2.6	58.9	54.3	10.5	21.9	0.8	69	145.2	35.8	57.4	0.000	6.6	15.4
2	29.594	71.8	53.9	17.9	61.8	− 0.3	58.1	55.2	6.6	16.7	1.5	79	126.0	39.8	57.2	0.043	3.4	15.4
3	29.617	75.0	54.4	20.6	60.8	− 1.3	56.7	53.3	7.5	20.2	0.9	76	142.0	42.7	57.6	0.000	5.8	15.4
4	29.866	61.2	50.5	10.7	55.6	− 6.5	50.4	45.0	10.6	17.6	5.2	68	105.6	38.0	57.3	0.000	0.5	15.3
5	30.046	65.1	48.3	16.8	56.8	− 5.3	50.5	43.7	13.1	23.0	4.2	62	127.5	34.1	57.4	0.000	1.6	15.2
6	30.072	67.5	52.3	15.2	59.1	− 3.1	53.1	47.4	11.7	19.6	3.2	65	107.5	40.0	57.4	0.000	0.3	15.2
7	30.000	67.4	52.3	15.1	60.9	− 1.3	57.7	55.1	5.8	12.7	2.2	81	111.2	39.4	57.4	0.005	2.0	15.1
8	29.775	65.4	59.2	6.2	61.7	− 0.6	58.7	56.4	5.3	11.6	2.6	83	91.2	52.3	57.3	0.148	0.0	15.1
9	29.735	74.0	56.2	17.8	62.6	+ 0.3	58.7	55.7	6.9	17.4	2.0	78	139.3	47.5	57.4	0.161	7.5	15.0
10	29.698	65.4	54.3	11.1	60.3	− 2.0	57.9	56.0	4.3	9.5	1.0	86	92.7	44.1	57.3	0.018	0.3	15.0
11	29.624	71.2	56.2	15.0	61.1	− 1.3	56.4	52.5	8.6	22.0	0.9	73	136.5	49.1	57.5	0.230	7.1	14.9
12	29.694	69.1	53.6	15.5	60.7	− 1.8	55.3	50.6	10.1	17.4	1.9	69	131.3	47.2	57.4	0.000	6.9	14.8
13	29.771	68.3	55.4	12.9	61.1	− 1.4	55.7	51.0	10.1	18.2	3.8	70	127.5	52.3	57.6	0.000	1.9	14.8
14	29.826	74.0	55.7	18.3	64.3	+ 1.8	59.5	55.9	8.4	18.6	1.5	74	133.0	45.7	57.5	0.000	4.8	14.7
15	29.877	73.7	58.9	14.8	65.3	+ 2.9	61.0	57.9	7.4	15.4	3.2	77	142.3	54.0	57.6	0.015	5.3	14.7
16	29.948	75.0	55.5	19.5	65.7	+ 3.4	60.9	57.4	8.3	22.6	1.4	75	136.5	41.5	57.6	0.265	6.2	14.6
17	29.980	75.8	50.3	25.5	62.9	+ 0.8	55.7	49.2	13.7	29.9	1.4	61	139.5	35.9	58.0	0.000	12.5	14.6
18	29.797	83.2	50.1	33.1	67.1	+ 5.2	60.0	54.6	12.5	25.6	1.0	64	143.6	34.4	58.0	0.000	12.2	14.5
19	29.600	77.0	60.0	17.0	68.1	+ 6.4	62.3	58.3	9.8	19.5	3.3	71	146.7	51.1	58.2	0.020	6.3	14.4
20	29.751	71.3	55.5	15.8	61.4	− 0.1	56.1	51.5	9.9	20.4	2.6	70	142.2	45.9	58.1	0.014	8.5	14.4
21	29.823	69.6	53.1	16.5	60.9	− 0.4	56.7	53.2	7.7	20.0	2.9	75	134.4	40.0	58.3	0.031	3.6	14.3
22	29.701	71.4	55.2	16.2	61.5	+ 0.4	57.0	53.4	8.1	19.0	1.8	74	133.2	44.7	58.4	0.103	5.1	14.3
23	29.777	66.5	54.7	11.8	59.3	− 1.6	56.0	53.3	6.0	12.2	2.0	80	100.9	40.5	58.3	0.000	2.6	14.2
24	29.787	72.8	54.1	18.7	61.4	+ 0.6	57.3	54.0	7.4	17.0	1.5	76	132.9	40.9	58.4	0.000	6.2	14.1
25	29.680	71.7	56.6	15.1	64.8	+ 4.1	62.3	60.6	4.2	7.0	0.8	86	105.2	47.5	58.4	0.490	0.4	14.1
26	29.782	73.5	61.3	12.2	65.6	+ 4.9	63.8	62.7	2.9	9.0	0.8	90	123.6	54.0	58.5	0.170	2.0	14.0
27	29.901	85.0	60.5	24.5	71.1	+10.5	65.3	61.6	9.5	26.5	0.5	72	139.4	53.1	58.6	0.013	9.9	13.9
28	29.766	88.2	61.7	26.5	73.9	+13.5	66.1	61.2	12.7	31.0	1.3	65	145.7	49.5	58.8	0.000	11.5	13.9
29	29.664	84.8	60.3	24.5	72.3	+12.0	64.9	60.1	12.2	24.8	1.3	65	144.4	47.6	59.0	0.199	6.5	13.8
30	29.642	74.5	60.0	14.5	66.2	+ 6.1	63.1	61.0	5.2	13.4	1.2	83	127.5	51.0	59.0	0.007	2.9	13.8
31	29.653	74.0	56.4	17.6	63.9	+ 4.0	61.2	59.3	4.6	11.2	1.1	85	128.6	46.8	59.1	0.045	1.2	13.7
Means	29.781	73.0	55.4	17.6	63.3	+ 1.7	58.6	54.9	8.4	18.4	1.9	74.3	128.5	44.7	57.9	Sum 1.977	4.9	14.6
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the *Barometer* for the month was 29.781 in., being 0.009 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 88°.2 on August 28; the lowest in the month was 48°.3 on August 5; and the range was 39°.9.

The mean of all the highest daily readings in the month was 73°.0, being 2°.2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 55°.4, being 1°.8 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17°.6, being 0°.4 greater than the average for the 65 years, 1841-1905.

The mean for the month was 63°.3, being 1°.7 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	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					
	hours		hours				lbs.	lbs.	miles				
Aug. 1	3.8	0.59	3.8	0.59	Calm	SE:Calm	1.1	0.03	111	b c m w	c b m bc *Ci Frcu* y	bc c y	c b c
2	5.7	0.87	5.5	0.84	Calm	WSW	2.8	0.07	160	b c	c t ir_o r c *Stcu Ast Acu Ci*	c *Stcu Acu Ci* p bc y	b
3	1.8	0.27	1.6	0.24	Calm:W	NNW:N	3.2	0.23	229	b c w	c w bc *Frst Cu* y	c *Cunb Stcu* t	c d c
4	4.9	0.75	4.9	0.75	N:NNW	N:NNE	2.5	0.23	268	c b c	c *St Frst Stcu Frcu Cu* y	c *Stcu Frst* d_o c y	c b
5	1.3	0.19	1.1	0.17	NNW	NW:WSW	0.7	0.04	162	b c	c *Acu Stcu* y	c *Stcu Acu* y	c b c
6	2.9	0.45	2.4	0.37	Calm	Calm:SSW	0.2	0.01	119	c	c *Stcu Acu* z_o y	c *Stcu Acu* y	c bc
7	1.5	0.23	1.3	0.20	Calm:SW	SW	1.5	0.12	223	c b	b *so-ha* c *Stcu Acu Frcu* d_o	id_o *Nbst* c *Frst*	id_o c
8	0.2	0.02	0.2	0.02	SW:SSW	SSW	3.3	0.24	270	c b c	c *Nbst Stcu St* ir_o	c *Ast* r c *Nbst* ir	c r
9	7.0	1.00	7.0	1.00	W:WSW	WSW:SW	2.5	0.14	251	c bc	bc *Acu Stcu Cu* c y	c y t ir *Cunb* bc	bc b
10	4.9	0.71	4.9	0.71	SW:SSW	SW	6.7	0.56	357	b bc c	c r_o r_o *Nbst Acu Frst*	c *Ast Nbst* r_o r c	c r_o c b
11	5.6	0.80	5.1	0.74	SW:WSW	WSW	6.6	0.67	412	b c	c *Frst Acu Ci Stcu* bc y	bc c *Cunb Ast* t l iR	bc
12	0.2	0.03	0.0	0.00	WSW	WNW:WSW	4.1	0.29	341	bc	bc c *Ci Cu Frcu*	c *Stcu Frst Acu Cu* y ir_o c	c
13	0.0	0.00	0.0	0.00	WSW:W	W:WSW	1.0	0.10	203	c	c *Stcu Frst* bc *Frcu Cunb* y	c *Frcu Ast Cunb* r_o c y	c
14	0.8	0.12	0.1	0.01	Calm	SW	1.1	0.07	160	c	c *Acu Frcu* bc *Stcu* z_o y	c *Acu Frcu* b y	b c
15	0.0	0.00	0.0	0.00	SW	SW	3.7	0.30	288	c bc	bc c *Frcu Stcu* y	c *Frcu Stcu*	c r c
16	7.5	1.00	7.5	1.00	SW:WSW	WSW:Calm	0.6	0.04	154	c r R	r R c *Stcu Cu*	bc *Stcu* b y	b
17	7.5	1.00	7.5	1.00	WSW:Calm	SW	0.2	0.03	143	b w	b w z_o *Ci* y	b *Ci* y	b
18	6.8	0.91	6.5	0.87	Calm	SSW:SE	1.0	0.03	133	b w	bc b *Ci* y	b bc *Cu Frcu* b y	b
19	0.0	0.00	0.0	0.00	Calm:SW	SW	2.8	0.23	245	b c b w	bc *Acu Ci Cist Cicu* y	c *Stcu Acu* y c ir	c
20	5.5	0.73	5.4	0.72	W:WSW	SW	5.2	0.19	254	c	b *Frcu* bc *Stcu Frst* y	c p c *Cu Stcu* y r c	c b c
21	2.6	0.35	1.9	0.25	SW:SSW	SSW:SW	5.2	0.53	335	c bc	bc c *Frcu Acu Stcu* y	c ir r_o *Frst*	c id_o c
22	5.3	0.67	5.1	0.64	SW:WSW	SW:WSW	3.9	0.28	303	c b	b c *Frst Frcu Ci so-ha* y	c *Stcu Acu* y *Nbst* R	r c b
23	3.9	0.49	3.7	0.47	Calm:NW	NW:Calm	0.5	0.05	155	c	c *Stcu Frst*	c *Stcu* b	bw c bc m_o
24	3.4	0.43	3.0	0.38	Calm	SSW:S	0.6	0.04	131	bc w c m_o	c *St Frcu* m z	c *Stcu Cu Ci* b y	b c
25	0.0	0.00	0.0	0.00	SSE:S	S	1.8	0.14	205	c	id_o d *St Frst*	id c *Frst Stcu*	c r c R
26	4.7	0.59	3.8	0.47	Calm	SE:Calm	0.5	0.02	99	rr c	o *Ast Acu Nbst* ir r_o	ir r_o *Nbst Ast Frst*	bc c m
27	8.0	1.00	8.0	1.00	Calm	E	1.7	0.05	104	c r m	c bc b *Acu Ci Cicu* y	b *Ci Cu Acu* y	b
28	4.9	0.62	4.3	0.54	Calm:SE	SSE:Calm	1.8	0.06	133	b w	b z_o b y	b *Acu Cicu* y	c bc
29	0.6	0.07	0.2	0.03	Calm	ENE:ESE:VAR	2.5	0.04	127	c b w bc m	c bc *Acu* m b y z_o	bc *Acu* c y	c r t l R
30	7.5	0.88	6.8	0.80	Calm:SSW	SW	1.2	0.08	172	c	c *Ast Acu*	c *Acu Cunb* p bc	bc b
31	1.5	0.18	0.9	0.11	Calm:SW	SW:Calm	0.9	0.04	125	b c	c rr c *Stcu*	c *Frst* d_o c	c
Means	3.6	0.48	3.3	0.45	..	..	..	0.16	206				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 58°.6, being 1°.1 higher than
The mean *Temperature of the Dew Point* for the month was 54°.9, being 0°.6 higher than
The mean *Degree of Humidity* for the month was 74.3, being 2.5 less than
The mean *Elastic Force of Vapour* for the month was 0.435 in., being 0.011 in. greater than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.335. The maximum daily amount of *Sunshine* was 12.5 hours on August 17.

The highest reading of the *Solar Radiation Thermometer* was 146°.7 on August 19; and the lowest reading of the *Terrestrial Radiation Thermometer* was 34°.1 on August 5.

The *Proportions of Wind* referred to the cardinal points were N.6, E.4, S.27, W.34, calm or nearly calm conditions 29, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 6.7 lbs. on the square foot on August 10. The mean daily *Horizontal Movement of the Air* for the month was 206 miles; the greatest daily value was 412 miles on August 11 and the least daily value was 99 miles on August 26.

Rain (0.005 in. or over) fell on 18 days in the month, amounting to 1.977 in., as measured by gauge No. 6 partly sunk below the ground; being 0.367 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32 Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Sept. 1	29.634	74.8	61.3	13.5	65.5	+ 5.7	61.5	58.7	6.8	17.7	1.7	79	128.7	52.0	59.3	0.060	3.9	13.6
2	29.706	71.7	56.1	15.6	62.3	+ 2.6	57.9	54.5	7.8	16.5	2.0	75	132.9	47.0	59.3	0.011	6.5	13.6
3	29.612	69.4	56.0	13.4	63.5	+ 3.9	60.7	58.7	4.8	9.1	2.1	85	98.5	47.1	59.3	0.064	1.8	13.5
4	29.899	69.7	52.8	16.9	60.6	+ 1.1	55.4	50.9	9.7	22.8	2.4	70	131.2	43.1	59.5	0.000	8.5	13.4
5	29.808	71.3	55.5	15.8	61.5	+ 2.1	56.7	52.7	8.8	19.6	2.2	73	135.4	46.0	59.4	0.011	6.8	13.4
6	29.952	67.6	48.5	19.1	58.0	- 1.2	52.6	47.3	10.7	22.8	1.2	68	135.0	35.5	59.4	0.000	9.3	13.3
7	30.113	70.0	46.4	23.6	57.8	- 1.2	51.7	45.6	12.2	23.3	1.6	63	136.0	32.0	59.3	0.000	7.1	13.2
8	30.085	73.4	53.9	19.5	62.5	+ 3.7	57.0	52.4	10.1	20.9	3.3	70	134.0	44.8	59.3	0.000	11.8	13.1
9	30.130	70.0	53.5	16.5	60.6	+ 2.0	57.6	55.2	5.4	13.3	1.1	82	102.5	43.2	59.0	0.014	2.0	13.1
10	30.228	71.1	49.5	21.6	59.2	+ 0.8	55.0	51.3	7.9	18.4	0.8	75	128.6	33.7	59.0	0.000	8.5	13.0
11	30.042	77.4	48.2	29.2	61.2	+ 3.1	57.5	54.5	6.7	16.4	1.2	79	127.6	29.9	59.0	0.000	6.6	13.0
12	30.010	71.7	53.5	18.2	61.9	+ 3.9	58.7	56.2	5.7	11.0	1.0	82	117.6	40.4	58.7	0.000	3.5	12.9
13	30.062	65.6	57.1	8.5	60.6	+ 2.8	56.6	53.3	7.3	10.8	4.3	77	93.4	55.1	58.8	0.014	0.1	12.9
14	29.986	66.1	57.3	8.8	60.9	+ 3.2	58.8	57.3	3.6	6.2	1.7	87	94.5	52.0	58.8	0.000	0.0	12.8
15	29.972	67.7	50.8	16.9	59.9	+ 2.3	54.0	48.6	11.3	25.5	2.1	66	122.4	40.0	58.8	0.028	6.9	12.7
16	30.058	67.1	46.2	20.9	56.0	- 1.5	50.3	44.3	11.7	21.9	3.2	65	129.6	35.3	58.7	0.000	8.1	12.7
17	29.943	66.2	51.2	15.0	59.3	+ 2.1	55.8	52.9	6.4	11.2	1.8	79	100.9	41.4	58.7	0.000	0.4	12.6
18	29.904	67.6	55.2	12.4	60.5	+ 3.6	56.6	53.4	7.1	13.9	1.3	78	121.7	47.9	58.6	0.000	3.1	12.5
19	29.790	72.0	53.8	18.2	61.3	+ 4.8	56.5	52.5	8.8	17.5	3.0	73	129.0	46.0	58.6	0.000	4.5	12.5
20	29.521	67.6	58.6	9.0	62.2	+ 6.0	59.6	57.7	4.5	9.5	2.1	85	105.3	52.0	58.4	0.069	0.9	12.4
21	29.322	62.6	52.5	10.1	57.8	+ 1.9	56.0	54.5	3.3	6.6	0.0	89	88.9	51.2	58.5	0.278	0.0	12.3
22	29.351	58.1	52.4	5.7	55.3	- 0.3	52.8	50.6	4.7	10.7	1.4	84	83.9	47.0	58.3	0.000	0.0	12.3
23	29.255	66.0	50.6	15.4	56.2	+ 0.8	51.0	45.7	10.5	21.7	5.1	68	125.4	40.2	58.5	0.005	5.7	12.2
24	29.271	64.0	45.6	18.4	52.3	- 3.0	48.9	45.3	7.0	18.2	1.8	77	123.6	34.0	58.4	0.020	5.5	12.1
25	29.408	59.4	42.3	17.1	49.2	- 6.0	46.6	43.7	5.5	14.9	0.9	81	107.8	30.5	58.1	0.000	1.4	12.1
26	29.572	59.0	44.0	15.0	50.8	- 4.4	48.2	45.4	5.4	11.9	2.4	81	114.5	31.1	57.8	0.056	1.2	12.0
27	29.651	64.8	47.5	17.3	53.8	- 1.3	50.8	47.8	6.0	12.3	2.4	80	118.9	37.0	57.7	0.000	4.3	11.9
28	29.328	54.3	47.3	7.0	51.0	- 3.9	50.1	49.1	1.9	2.4	0.0	93	71.3	33.2	57.5	0.295	0.0	11.9
29	29.304	60.8	45.6	15.2	51.8	- 2.9	50.1	48.4	3.4	8.3	1.0	88	91.9	33.3	57.3	0.064	0.9	11.8
30	29.664	60.0	47.0	13.0	53.1	- 1.3	51.5	50.0	3.1	8.1	1.2	89	89.9	42.6	57.1	0.140	0.4	11.7
Means	29.753	66.9	51.3	15.6	58.2	+ 1.0	54.6	51.3	6.9	14.8	1.9	78.0	114.0	41.5	58.6	Sum 1.129	4.0	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 29.753 in., being 0.065 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 77°.4 on September 11; the lowest in the month was 42°.3 on September 25; and the range was 35°.1.

The mean of all the highest daily readings in the month was 66°.9, being 0°.7 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 51°.3, being 1°.6 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 15°.6, being 0°.9 less than the average for the 65 years, 1841-1905.

The mean for the month was 58°.2, being 1°.0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Sept.1	0.9	0.10	0.5	0.05	Calm:W	WSW:SW:SSW	2.0	0.18	224	c	c *Ast Acu Stcu* bc *Frcu*	bc *Ci Frcu* y c	c rr c
2	7.9	0.93	7.7	0.90	SW	SSW:S	2.0	0.15	243	c r c	c *Ci Frcu Acu Stcu*	c bc *Cicu Acu Cu* y b	b
3	2.1	0.24	1.1	0.14	SSE:S	SSW:SW	5.3	0.53	317	c b w	b c *Ast Stcu Frcu* ir_o *Nbst*	d_o r_o c *Frst*	1 r c
4	8.5	1.00	8.5	1.00	SW:WSW	SW	2.7	0.23	270	c b	b bc *so-ha Ci Frcu* y	c *Frcu Ast so-ha* y	b
5	6.2	0.69	6.1	0.68	SW	SW:W	6.8	0.86	407	b w	b *Frst* bc *Acu Ci* y	c *Ast Nbst* y	d_o d r c b
6	8.3	0.92	7.1	0.79	WSW:NW	NW:NNW	1.7	0.13	211	b	b bc *Cu Frcu* y	bc c *Acu* bc	bc b
7	1.3	0.15	1.3	0.14	Calm:WSW	WSW:SW	1.6	0.08	170	b c b w	b bc *Ci Cist so-ha* y	bc *Acu Ci* c y	c bc c
8	9.0	1.00	9.0	1.00	WSW:W	WSW:SW	2.5	0.12	226	c b w	b bc *Frcu Ci* b y	b *Ci* y	b
9	5.1	0.57	4.9	0.54	WSW	NNW:Calm	1.3	0.03	157	b	c dd *St Frst* o m	o c *Acu Frcu Ci* bc b	b c
10	8.2	0.91	8.1	0.89	Calm	ESE:Calm	0.3	0.02	104	c b m w	b f w b *Ci* y	b *Ci* y	b
11	8.8	0.98	4.9	0.55	Calm	Calm	0.3	0.01	83	b fe Fe	Fe b z_o y	b *Frst Stcu* z_o y c	c b
12	1.0	0.10	0.1	0.01	Calm	ENE:NE	2.0	0.10	161	b bc m w	c *St* w m_o	c b *Frst* c	c
13	0.0	0.00	0.0	0.00	NE	NE:ENE	2.0	0.23	268	c	c *Stcu Frst*	c *Stcu*	c r c
14	5.3	0.54	3.9	0.41	NNE:Calm	Calm	0.4	0.04	113	c m_o	c *St* r_o c m_o	c *St Stcu* m_o	c b
15	9.4	0.96	9.0	0.92	WSW:NW	NW:WNW:W	3.8	0.41	327	b bc c	c *Nbst Frst* ir_o p b y	b y	b c b
16	7.9	0.81	7.5	0.77	WSW	W:WSW	4.2	0.35	311	b	b *Frcu Cu Frst* y	b c *Frcu Stcu* y	c b
17	1.9	0.19	1.4	0.14	WSW	W:Calm	1.9	0.22	253	b c b c	bc *Cist so-ha* c *Stcu Frst*	c *Stcu Frst*	bc c
18	2.1	0.21	1.6	0.17	WSW	WSW:SW	1.8	0.21	235	c	c *Frst Ci*	c *Stcu Frst Acu Ci*	c
19	0.9	0.09	0.6	0.06	WSW	SW:SSW	1.6	0.17	229	c bc	bc c *Stcu Acu Ci*	bc c *Stcu Cicu* y	c r_o c
20	0.7	0.07	0.5	0.05	SSW	SW	5.0	0.56	311	c ir_o	c *Nbst Frst* ir_o	c *Nbst Frst* ir c	c
21	0.1	0.01	0.0	0.00	SW:SSW	SW:WSW	2.3	0.11	188	c	c *Nbst* d_o r_o ir	c ir *Stcu Frcu*	ir rr c
22	2.7	0.27	2.0	0.20	W:WNW	WSW:SW	3.0	0.29	318	c	c *Nbst Stcu* r_o c *Frst*	c *Frst*	c *Acu*
23	10.0	1.00	10.0	1.00	SW:WSW	WSW:SW	6.2	0.44	349	c	c bc *Acu Frcu* y	bc p b *Stcu Frst*	b
24	8.7	0.87	8.4	0.84	SW	SW	2.3	0.17	243	b	b *Ci Acu* c *Cicu Ast so-ha* y	c *Cumb Ast* p t p c	c b
25	5.2	0.52	3.4	0.34	SW:Calm	SW:Calm	0.3	0.02	131	b c w m	c *St* m c *Acu Frcu* m_o	c *Frst Cumb Acu* m_o	b m c
26	1.8	0.17	1.7	0.16	NE	NE:NNE	2.0	0.19	241	bc c	c *Stcu Frst* r_o c *Acu Frcu*	c r_o r ir *Nbst*	c bc *Acu* c
27	9.3	0.95	3.3	0.31	NNE:Calm	ENE:Calm	0.6	0.03	143	c m	c *Stcu Nbst* r_o c *Cu Acu*	c bc c b	b bc
28	1.5	0.14	0.7	0.07	Calm	NW:Calm	0.5	0.02	135	bc c w f	c f rr *Nbst* m_o	rr *Nbst* m_o	r_o f c
29	4.2	0.40	3.7	0.35	SE:ESE	SE:S	4.5	0.25	218	c	c *Nbst* rr c	c r_o r_o c b	b c
30	0.0	0.00	0.0	0.00	Calm	SSE:Calm	0.3	0.02	116	c rr	rr r_o *Nbst* c *Stcu Acu*	c *Ast Ci Frcu*	c r_o r_o
Means	4.6	0.49	3.9	0.42	..	..	..	0.21	223				
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°.6, being 0°.5 higher than
The mean *Temperature of the Dew Point* for the month was 51°.3, being 0°.2 higher than
The mean *Degree of Humidity* for the month was 78.0, being 1.9 less than
The mean *Elastic Force of Vapour* for the month was 0.381 in., being 0.002 in. greater than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.315. The maximum daily amount of *Sunshine* was 11.8 hours on September 8.

The highest reading of the *Solar Radiation Thermometer* was 136°.0 on September 7: and the lowest reading of the *Terrestrial Radiation Thermometer* was 29°.9 on September 11.

The *Proportions of Wind* referred to the cardinal points were N.10, E.9, S.24, W.35, calm or nearly calm conditions 22, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 6.8 lbs. on the square foot on September 5. The mean daily *Horizontal Movement of the Air* for the month was 223 miles; the greatest daily value was 407 miles on September 5 and the least daily value was 83 miles on September 11.

Rain (0.005 in. or over) fell on 15 days in the month, amounting to 1.129 in., as measured by gauge No. 6 partly sunk below the ground; being 1.019 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Oct.1	29.889	68.2	47.2	21.0	56.8	+ 2.7	53.0	51.3	5.5	17.0	1.0	82	122.7	36.0	57.0	0.185	6.1	11.7
2	30.121	69.3	41.8	27.5	54.3	+ 0.6	50.4	46.5	7.8	19.3	0.9	75	119.4	29.6	57.0	0.000	9.0	11.6
3	30.078	67.6	43.4	24.2	53.8	+ 0.5	51.0	48.3	5.5	16.9	0.9	81	109.1	30.6	56.8	0.001*	4.9	11.5
4	29.843	68.5	49.5	19.0	58.5	+ 5.5	56.9	55.6	2.9	8.0	0.0	90	95.9	34.1	56.7	0.003*	1.5	11.5
5	29.789	65.6	54.5	11.1	59.9	+ 7.1	58.1	56.8	3.1	6.5	1.0	89	91.9	52.4	56.6	0.073	0.2	11.4
6	30.033	56.0	50.9	5.1	53.6	+ 1.1	49.4	45.0	8.6	11.3	4.7	78	85.6	48.8	56.5	0.000	0.0	11.4
7	29.853	67.1	55.0	12.1	60.5	+ 8.2	58.8	57.6	2.9	5.1	0.7	90	100.1	52.1	56.7	0.070	0.2	11.3
8	29.705	60.4	45.4	15.0	55.1	+ 3.1	51.6	48.1	7.0	18.9	2.0	78	97.0	37.7	56.5	0.043	3.1	11.2
9	29.874	57.8	42.6	15.2	51.2	- 0.4	47.3	42.8	8.4	10.9	4.3	73	91.9	34.9	56.6	0.000	1.3	11.2
10	29.615	63.4	50.0	13.4	56.7	+ 5.4	51.9	47.2	9.5	24.2	4.2	70	93.9	42.7	56.5	0.014	3.4	11.1
11	29.939	56.8	42.8	14.0	50.0	- 0.9	45.9	41.0	9.0	18.5	2.2	71	109.9	33.0	56.4	0.000	7.6	11.0
12	30.022	59.0	35.8	23.2	48.7	- 1.9	45.3	41.0	7.7	16.2	1.1	75	107.4	23.6	56.2	0.000	2.2	11.0
13	30.013	58.4	44.0	14.4	51.8	+ 1.5	48.0	45.8	6.0	13.6	1.3	80	89.1	33.3	56.0	0.048	1.5	10.9
14	30.008	66.0	44.1	21.9	55.1	+ 5.0	52.5	50.1	5.0	10.6	1.3	84	107.2	33.4	56.0	0.000	1.9	10.8
15	30.002	61.4	48.7	12.7	56.0	+ 6.1	51.3	46.6	9.4	17.7	4.4	71	119.7	41.4	55.8	0.021	7.8	10.8
16	30.091	60.9	46.6	14.3	53.3	+ 2.5	49.6	45.7	7.6	12.3	3.1	75	100.5	39.3	55.7	0.000	4.3	10.7
17	30.001	59.1	49.1	10.0	54.9	+ 5.3	51.6	48.4	6.5	7.9	2.2	79	94.9	42.1	55.7	0.000	0.4	10.7
18	29.885	61.6	55.9	5.7	58.5	+ 9.2	56.0	53.9	4.6	7.4	2.2	85	86.4	50.0	55.5	0.000	0.0	10.6
19	29.927	64.7	53.9	10.8	57.1	+ 8.0	55.3	53.8	3.3	10.9	0.0	89	89.4	44.0	55.5	0.000	2.8	10.5
20	29.794	59.0	46.4	12.6	53.1	+ 4.3	51.3	49.6	3.5	7.0	0.3	88	82.9	33.6	55.6	0.787	0.1	10.5
21	29.909	56.0	44.9	11.1	50.5	+ 1.9	46.8	42.5	8.0	14.6	3.7	74	100.9	37.0	55.5	0.053	5.3	10.4
22	29.818	62.1	52.0	10.1	57.9	+ 9.6	55.5	53.5	4.4	5.7	2.9	85	73.8	49.0	55.4	0.054	0.0	10.3
23	29.742	64.4	55.3	9.1	60.7	+12.6	57.9	55.7	5.0	7.2	1.7	83	87.5	53.0	55.5	0.212	0.3	10.3
24	29.520	57.0	43.5	13.5	51.7	+ 3.8	48.3	44.6	7.1	14.8	2.8	77	115.2	34.0	55.2	0.312	5.7	10.2
25	29.341	55.6	37.0	18.6	46.4	- 1.3	43.8	40.6	5.8	10.2	0.0	80	107.9	27.1	55.2	0.279	3.8	10.1
26	29.080	51.2	40.6	10.6	44.4	- 3.2	43.2	41.7	2.7	3.3	0.4	90	57.4	33.8	55.0	0.848	0.0	10.1
27	29.288	54.4	35.3	19.1	44.1	- 3.4	42.5	40.5	3.6	9.4	0.7	87	100.9	26.6	54.9	0.045	2.6	10.0
28	29.424	49.2	38.4	10.8	44.2	- 3.2	43.6	42.9	1.3	3.2	0.0	95	59.3	26.9	54.4	0.180	0.0	9.9
29	29.375	47.8	41.4	6.4	45.0	- 2.3	43.8	42.4	2.6	4.9	1.2	91	57.4	33.2	54.2	0.455	0.0	9.9
30	29.326	56.9	45.6	11.3	50.6	+ 3.4	49.6	48.6	2.0	3.6	1.1	93	83.2	42.3	54.0	0.448	2.1	9.8
31	29.435	49.5	42.5	7.0	47.0	- 0.1	44.8	42.2	4.8	7.4	2.2	83	92.3	34.0	53.6	0.056	1.3	9.8
Means	29.766	59.8	45.9	13.9	52.9	+ 3.0	50.2	47.4	5.5	11.1	1.8	81.8	94.5	37.7	55.7	Sum 4.187	2.6	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.

* Rainfall (Column 16). The amounts entered on October 3 and 4 are derived from dew.

The mean reading of the *Barometer* for the month was 29.766 in., being 0.038 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 69°.3 on October 2; the lowest in the month was 35°.3 on October 27; and the range was 34°.0.

The mean of all the highest daily readings in the month was 59°.8, being 2°.8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 45°.9, being 2°.1 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 13°.9, being 0°.7 greater than the average for the 65 years, 1841-1905.

The mean for the month was 52°.9, being 3°.0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Oct. 1	10.5	1.00	10.5	1.00	Calm: SW	W: Calm	0.6	0.05	137	r_o rr c	c *Frst Frcu*	bc *Frcu* y b	b m
2	9.7	0.93	4.9	0.47	Calm	Calm	0.2	0.01	88	b m w	b *Ci* m b	b *Ci Cist so-ha* y	b m f
3	6.4	0.58	6.4	0.58	Calm	Calm: SE	0.0	0.00	101	b m f w	b *Ci* m bc z_o y	bc *Ci* z_o y	b m f w
4	0.0	0.00	0.0	0.00	Calm: SSW	Calm: SW	0.2	0.02	102	c m f w	c *St* m m_o	c b *Frst* m_o b	c
5	0.0	0.00	0.0	0.00	SW: Calm	Calm: NNE	2.0	0.07	151	c	c r_o c ir *St*	c *Acu Stcu*	c r c
6	0.0	0.00	0.0	0.00	NE	ENE: E	1.4	0.15	227	c	c *Ast Acu*	c *Stcu Ast*	c
7	0.0	0.00	0.0	0.00	Calm	SSW	0.7	0.05	133	c m f dd	dd m f c m_o	c *Frst* m_o	c rr ir_o
8	10.3	0.93	10.3	0.93	WSW	WNW: WSW	4.8	0.53	348	r_o r_o c	c *Stcu Frst* d_o r c *St*	c bc *Frst* y b	bc b
9	0.4	0.04	0.0	0.00	WSW	SW	8.8	1.04	438	b bc	c bc c *Acu Stcu Frst*	c *Ast Acu Frst*	c q b c
10	9.5	0.82	9.2	0.80	SW	WSW	8.6	1.71	493	c r c q	c *Frst* q r_o c	c ir_o b *Ci Frcu* y	b
11	7.5	0.66	7.5	0.66	WSW: W: WNW	NW: Calm	3.0	0.17	225	c b w	b bc *Stcu* y	c y	c b
12	1.0	0.09	0.1	0.01	Calm: SSW	SW: SSW	1.3	0.07	203	b x c m	c m *Acu Ci Cicu* c *so-ha*	c *Ast Acu Stcu*	c
13	3.7	0.33	0.5	0.04	Calm: NNW	Calm	0.2	0.00	115	c rr c m_o	c *Nbst Stcu* m_o	c bc *Frcu* c	bc c
14	0.3	0.03	0.1	0.01	SSW: SW	SW	3.6	0.36	307	c	c *Stcu Acu Cicu*	c *Acu Stcu*	c
15	11.5	1.00	11.5	1.00	SW: WNW	WSW	17.0	0.96	439	c bc c	c q r c b y	b *Ci Frcu* y	b
16	5.8	0.50	4.9	0.43	WSW	WSW: SW	5.7	0.56	370	b	b c bc *Ci Acu Frcu so-ha*	c *Stcu Acu*	c bc
17	1.9	0.16	0.8	0.07	SW: WSW	SW: WSW	4.2	0.31	319	bc c	c *St Frst* c *Stcu Ci*	c d_o c	c
18	3.2	0.27	2.9	0.24	WSW: W	W: WSW	3.0	0.25	298	c b c	c *Ast Frst* r_o c *Stcu*	c *Stcu Frst*	c
19	12.0	1.00	12.0	1.00	WSW	WSW: SW	0.8	0.09	214	b c o fe	o *St* fe m	o m b m_o	b m
20	5.1	0.43	4.9	0.41	SW	SW: WNW	9.0	0.26	259	b m w	b c *St* m c *Frst*	c *Nbst* rr R	R r c q
21	0.0	0.00	0.0	0.00	W	W: SW	3.7	0.38	356	b c b	b c *Frst*	c *Stcu Cu Ast Acu* y	c rr
22	0.0	0.00	0.0	0.00	SW: WSW	WSW	4.5	0.55	416	rr c	c *Nbst* r_o c	c *St Frst*	c
23	0.8	0.07	0.5	0.04	WSW: SW	SW: WSW	5.0	0.57	385	c	r_o d c *Frst*	c *Frst Stcu* r_o c	c rr R
24	11.7	0.97	11.2	0.94	SW: WSW	WSW	6.2	0.61	397	R rr r_o R r_o	r c *Ast Acu Ci* bc *Cu* y	bc *Cu Frcu* y b	b w
25	10.1	0.84	9.8	0.81	SW: S	S: SW	11.3	0.52	317	b c x	c bc *Acu Cicu Ci* p *so-ha*	c *Nbst* r R q	b
26	8.0	0.67	7.4	0.62	SSW: S	NE: SW: WSW	6.6	0.29	279	b c	c rr R *Nbst* m_o	r R *Nbst* m f c ir	c b
27	8.4	0.70	8.3	0.69	SSW	S: Calm	1.3	0.07	202	b bc c r	r c *Acu Ci Stcu* bc *so-ha*	c *Cist Cumb* t bc *so-ha* b	b m
28	4.8	0.40	2.1	0.17	Calm	NE: NNW	1.0	0.01	108	bc b fe Fe	Fe fe f r_o	c f r_o rr m	c bc m
29	0.3	0.03	0.0	0.00	Calm: NE	ENE: NE	2.0	0.12	213	bc c m	c *Ast Stcu* r c m m_o	c *Stcu St* id_o m_o m	c R r m
30	0.0	0.00	0.0	0.00	E: Calm	NNE	1.4	0.09	158	c m f F	c F b f *Ci* c f Fe	F c m_o *St Frst* d_o	c r R
31	3.9	0.33	0.0	0.00	NNE: N	NNE: Calm	2.3	0.13	206	r c r c m_o	c *Stcu Frst* bc c m_o	c *Stcu*	c
Means	4.7	0.41	4.1	0.35	..	..	..	0.32	258				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 50°.2, being 2°.3 higher than
The mean *Temperature of the Dew Point* for the month was 47°.4, being 1°.8 higher than
The mean *Degree of Humidity* for the month was 81.8, being 3.1 less than
The mean *Elastic Force of Vapour* for the month was 0.329 in., being 0.021 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.6.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.239. The maximum daily amount of *Sunshine* was 9.0 hours on October 2.

The highest reading of the *Solar Radiation Thermometer* was 122°.7 on October 1; and the lowest reading of the *Terrestrial Radiation Thermometer* was 23°.6 on October 12.

The *Proportions of Wind* referred to the cardinal points were N.9, E.7, S.25, W.39, calm or nearly calm conditions 20, 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 October 15. The mean daily *Horizontal Movement of the Air* for the month was 258 miles; the greatest daily value was 493 miles on October 10 and the least daily value was 88 miles on October 2.

Rain (0.005 in. or over) fell on 19 days in the month, amounting to 4.187 in., as measured by gauge No. 6 partly sunk below the ground; being 1.405 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Nov. 1	29.535	47.0	38.1	8.9	42.0	- 5.0	40.6	38.7	3.3	8.4	2.8	88	56.7	28.1	53.4	0.560	0.0	9.7
2	29.684	49.9	34.9	15.0	41.7	- 5.1	39.0	34.8	6.9	14.3	1.7	77	89.9	28.5	53.3	0.000	5.7	9.7
3	29.732	49.5	35.3	14.2	43.7	- 2.9	42.1	40.0	3.7	7.2	0.0	87	75.9	28.0	53.0	0.143	0.8	9.6
4	29.820	42.7	34.9	7.8	38.9	- 7.5	38.7	38.4	0.5	1.3	0.0	98	46.1	27.6	52.7	0.001*	0.0	9.5
5	29.450	49.0	40.9	8.1	45.6	- 0.5	45.4	45.2	0.4	1.3	0.0	98	51.2	35.9	52.5	0.678	0.0	9.5
6	29.492	51.8	44.5	7.3	47.3	+ 1.5	44.8	41.9	5.4	12.5	0.0	81	80.7	36.2	52.3	0.390	5.7	9.4
7	29.602	54.6	42.0	12.6	50.5	+ 5.1	48.2	45.7	4.8	10.3	1.2	84	78.8	33.0	52.1	0.267	1.6	9.4
8	29.993	51.4	36.5	14.9	43.1	- 1.9	40.9	37.7	5.4	13.2	1.2	82	75.8	28.6	52.0	0.000	6.9	9.3
9	30.196	52.5	32.9	19.6	40.4	- 4.2	39.0	37.1	3.3	11.3	0.0	87	74.2	22.8	51.8	0.003*	4.2	9.2
10	30.116	54.2	35.3	18.9	41.7	- 2.6	40.1	37.9	3.8	11.4	0.9	86	88.9	26.5	51.7	0.000	7.6	9.2
11	30.127	44.0	31.1	12.9	37.1	- 6.9	36.8	36.4	0.7	1.5	0.0	97	43.5	26.0	51.1	0.000	0.3	9.1
12	29.994	45.7	36.7	9.0	40.1	- 3.6	39.4	38.4	1.7	5.7	0.7	94	76.8	29.1	51.0	0.000	2.0	9.1
13	30.259	47.0	38.0	9.0	42.9	- 0.6	41.6	39.8	3.1	5.0	0.2	89	58.8	29.1	50.7	0.000	0.0	9.0
14	30.395	41.6	32.3	9.3	37.7	- 5.6	37.0	35.9	1.8	2.8	0.6	93	53.8	23.9	50.4	0.000	0.5	9.0
15	30.275	46.8	37.7	9.1	43.2	+ 0.1	42.2	40.9	2.3	2.9	1.6	92	48.7	33.0	50.1	0.000	0.0	8.9
16	30.279	47.0	37.5	9.5	43.2	+ 0.4	40.5	36.7	6.5	13.8	2.4	78	64.8	30.0	50.0	0.000	1.1	8.9
17	30.313	44.0	35.7	8.3	39.7	- 2.9	37.3	33.5	6.2	9.0	3.8	78	68.8	29.0	49.9	0.000	2.7	8.8
18	30.190	48.0	33.3	14.7	41.6	- 0.8	39.6	36.7	4.9	9.2	1.8	83	71.8	26.1	49.8	0.000	3.0	8.8
19	30.200	46.0	43.3	2.7	45.3	+ 3.0	43.7	41.6	3.7	6.7	1.0	87	49.7	41.0	49.7	0.000	0.0	8.7
20	30.161	50.0	43.6	6.4	46.4	+ 4.2	43.9	40.8	5.6	8.5	3.7	81	66.8	41.8	49.5	0.028	0.1	8.7
21	30.182	46.9	32.8	14.1	42.5	+ 0.4	40.3	37.1	5.4	7.2	3.3	81	55.7	24.0	49.4	0.000	0.0	8.6
22	30.354	36.7	28.4	8.3	32.3	- 9.8	31.1	29.0	3.3	5.2	1.5	87	48.9	18.0	49.2	0.000	0.3	8.6
23	30.321	43.3	26.5	16.8	34.5	- 7.5	33.2	31.0	3.5	6.9	1.0	86	45.7	15.5	49.0	0.000	0.0	8.5
24	30.429	44.8	36.3	8.5	41.3	- 0.7	40.3	39.1	2.2	4.4	0.7	91	46.7	28.6	49.0	0.005	0.0	8.5
25	30.404	48.4	43.8	4.6	45.6	+ 3.7	44.2	42.4	3.2	5.9	0.7	89	59.9	39.0	48.8	0.000	0.0	8.4
26	30.313	46.7	40.5	6.2	43.2	+ 1.4	41.5	39.2	4.0	7.0	1.5	86	58.7	35.7	48.6	0.000	0.0	8.4
27	30.087	46.8	41.3	5.5	43.9	+ 2.2	42.7	41.3	2.6	3.7	1.6	90	49.9	37.6	48.5	0.041	0.0	8.4
28	29.957	43.7	34.4	9.3	41.7	+ 0.2	38.9	34.6	7.1	9.6	4.3	76	55.4	24.9	48.5	0.000	0.7	8.3
29	29.813	46.8	34.3	12.5	41.7	+ 0.5	38.9	34.6	7.1	8.9	4.1	76	57.7	24.7	48.4	0.015	0.7	8.3
30	29.845	42.5	33.3	9.2	38.9	- 2.1	36.9	33.8	5.1	11.8	1.4	81	58.3	26.3	48.1	0.002	0.9	8.2
Means	30.051	47.0	36.5	10.4	41.9	- 1.6	40.3	38.0	3.9	7.6	1.5	86.1	62.0	29.3	50.5	Sum 2.133	1.5	8.9
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the autographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841-1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of 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, and that on November 9 from hoar frost.

The mean reading of the *Barometer* for the month was 30.051 in., being 0.286 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 54°.6 on November 7; the lowest in the month was 28°.5 on November 23; and the range was 28°.1.

The mean of all the highest daily readings in the month was 47°.0, being 1°.9 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 36°.5, being 1°.9 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 10°.4, being 0°.1 less than the average for the 65 years, 1841-1905.

The mean for the month was 41°.9, being 1°.6 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Nov. 1	0.0	0.00	0.0	0.00	Calm: NE: E	NNE: NNW: WNW	1.6	0.08	206	c bc c m	c *Stcu Ast Nbst* ir$_o$ d$_o$ m$_o$	r R *Nbst* c ir g	ir c
2	0.0	0.00	0.0	0.00	W: WSW	Calm	1.2	0.05	175	c m	bc b *Ci so-ha* m	bc *Ci Cicu Acu* m f	o f
3	1.9	0.15	0.0	0.00	N: NNW	NNW: Calm	2.6	0.11	193	o m m$_o$ rr	rr$_o$ r *Nbst* c *Frst Acu Ci*	c *Stcu Frst* m$_o$ m	b f c f w
4	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	94	f Fe	Fe fe	fe fe m	o m c
5	0.0	0.00	0.0	0.00	ENE	ENE: NNW	2.8	0.09	186	c m f	rr f m *Nbst Frst*	rr d$_o$ m	rr c r
6	1.9	0.16	1.0	0.08	NNW: NW	W: SW	3.7	0.51	335	r R r c	c bc *Acu Frst Frcu* m$_o$	bc *Ci*	bc c
7	11.5	0.89	10.8	0.83	SSW: W	WSW	2.3	0.21	278	c r d$_o$	d$_o$ d$_o$ ir *Nbst* c *Stcu*	c *Stcu* bc	bc b
8	13.0	1.00	13.0	1.00	WSW	W: SW	0.3	0.04	201	b w f	b f m	b *Frcu Acu* m$_o$ b m	b m
9	8.5	0.65	7.7	0.59	SW: Calm	Calm	0.0	0.00	108	b m x	b ff	f bc *Cicu Acu* m$_o$ b m	b c b m f
10	7.9	0.61	5.1	0.39	Calm	Calm	0.2	0.00	90	b c m f w	bc b ff m$_o$	b *Frcu* b m	b f F c f
11	2.8	0.22	2.3	0.18	Calm	Calm	0.0	0.00	79	c b f F Fe x	Fe Fe x	Fe ff	Fe Fe
12	1.9	0.15	0.9	0.07	Calm	Calm: N	0.8	0.02	102	c ff	c *St* f c *Stcu Ast* m	c m Ff c	c
13	8.0	0.62	6.8	0.52	NNE: N	N	1.3	0.12	193	c w f	c *St Stcu* f *Frst* m	c *Stcu Frcu* m$_o$	c bc m$_o$ b
14	0.0	0.00	0.0	0.00	N: Calm	Calm	0.1	0.00	116	b m	b fF x	FF c f	c ff
15	2.7	0.21	2.0	0.15	Calm	WSW	0.2	0.01	127	o ff	o *St* ff	o f m$_o$	c b c m$_o$ m
16	..	..	..	..	NNW	NNW	2.1	0.17	244	c w m	c *Stcu Ast Acu* m m$_o$	c *so-ha* b *Ci Cicu*	b
17	6.3	0.48	5.1	0.39	NNW	NNW	2.0	0.20	265	b c	c bc *Ci Acu* m$_o$	b *Ast Frst* c	c bc b c
18	0.0	0.00	0.0	0.00	WSW: NNW	NNW	1.0	0.07	198	bc b x	b f x bc *Acu* m	c *Stcu* m$_o$ m	o 1d$_o$ m
19	0.0	0.00	0.0	0.00	NNW	NNW: Calm	0.5	0.03	136	o 1d$_o$ m	o *Frst Nbst* d$_o$ m o	o *St* 1g	o *St*
20	0.5	0.04	0.3	0.02	Calm: NW	W: WSW	0.2	0.03	158	o	o f bc *Stcu* m	c *Stcu* r$_o$ r m	r c m
21	11.3	0.84	11.1	0.83	NNW	N	1.8	0.18	242	c m	c *Stcu* m	c *Stcu Frst*	c bc *Acu*
22	11.8	0.87	10.0	0.74	N: NNW: Calm	Calm: NNW	1.1	0.01	130	b x	b f F x	F F f	f b m f
23	5.4	0.40	4.5	0.33	WSW	Calm: N	0.6	0.03	164	b ff x	b x c ff *Acu*	c ff *St*	c ff
24	0.0	0.00	00.0	0.00	NNE: Calm	Calm	0.7	0.02	95	c b ff x	c ff *Stcu*	c *Acu Frst* f F	F r c m
25	1.5	0.11	0.8	0.06	NNW: N: NNE	NNE	2.0	0.19	242	c m	c *St Frst* m c	c ir$_o$	c ir$_o$ c
26	0.7	0.05	0.3	0.02	NNE	NNE	1.3	0.11	223	c	c *Nbst*	c *Frst Stcu*	c
27	0.0	0.00	0.0	0.00	NNE: NE	NE: NNE	1.0	0.10	211	c ir r$_o$	rr$_o$ c *St* 1d$_o$ d m$_o$	c 1d$_o$ m$_o$	c m$_o$
28	3.4	0.25	2.9	0.21	N	N: NW	1.9	0.14	213	c m$_o$	c *Frst* m$_o$	bc c *Stcu Frst*	c b
29	0.0	0.00	0.0	0.00	WSW	NW: W: Calm	1.3	0.13	247	b c m	c *Acu Stcu* m f	c *Stcu* f m	c r c m
30	2.9	0.22	2.4	0.18	Calm: N	Calm: SW	0.5	0.02	128	c m	c bc *Ci Acu Stcu* m	bc m f	c f p b
Means	3.6	0.27	3.0	0.23	..	..	..	0.09	179				
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°.3, being 1°.6 lower than
The mean *Temperature of the Dew Point* for the month was 38°.0, being 1°.7 lower than
The mean *Degree of Humidity* for the month was 86.1, being 0.5 less than
The mean *Elastic Force of Vapour* for the month was 0.229 in., being 0.017 in. less than
} the average for the 65 years, 1841-1905.

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

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.167. The maximum daily amount of *Sunshine* was 7.6 hours on November 10.

The highest reading of the *Solar Radiation Thermometer* was 89°.9 on November 2; and the lowest reading of the *Terrestrial Radiation Thermometer* was 15°.5 on November 23.

The *Proportions of Wind* referred to the cardinal points were N.33, E.7, S.6, W.21, calm or nearly calm conditions 33, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 3.7 lbs. on the square foot on November 6. The mean daily *Horizontal Movement of the Air* for the month was 179 miles; the greatest daily value was 335 miles on November 6 and the least daily value was 79 miles on November 11.

Rain (0.005 in. or over) fell on 9 days in the month, amounting to 2.133 in., as measured by gauge No. 6 partly sunk below the ground; being 0.087 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No.6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deduced Mean Daily Value	Mean	Greatest	Least		Highest in Sun's Rays	Lowest on the Grass				
	in.	°	°	°	°	°	°	°	°	°	°		°	°	°	in.	hours	hours
Dec. 1	29.612	49.0	40.2	8.8	44.5	+ 3.6	41.9	38.4	6.1	9.5	3.8	79	72.8	36.0	48.2	0.044	3.0	8.2
2	29.818	40.2	26.6	13.6	34.7	- 6.2	32.1	27.4	7.3	11.9	2.8	73	45.3	21.1	48.0	0.100	0.1	8.2
3	29.033	38.2	28.2	10.0	34.1	- 7.0	32.4	29.5	4.6	6.9	3.1	82	38.0	22.7	48.0	0.008	0.0	8.2
4	29.879	47.0	35.6	11.4	40.3	- 1.0	37.9	34.1	6.2	9.5	3.1	78	63.9	27.6	47.8	0.000	4.7	8.1
5	29.387	49.5	39.1	10.4	45.0	+ 3.5	42.1	38.1	6.9	15.3	1.0	77	57.3	34.0	47.6	0.458	2.0	8.1
6	29.788	50.6	42.3	8.3	47.0	+ 5.5	44.7	42.0	5.0	7.5	2.3	82	61.7	34.7	47.4	0.000	2.0	8.1
7	29.878	52.7	49.2	3.5	51.1	+ 9.8	48.2	45.1	6.0	9.6	2.8	80	56.7	46.0	47.5	0.000	0.0	8.0
8	29.974	53.6	51.3	2.3	52.7	+11.7	50.4	48.1	4.6	5.7	2.6	84	68.8	44.5	47.5	0.013	0.3	8.0
9	29.913	52.2	45.9	6.3	48.9	+ 8.3	46.2	43.1	5.8	9.2	2.6	80	80.8	38.0	47.6	0.000	3.7	8.0
10	29.634	53.2	49.1	4.1	50.5	+10.1	48.2	45.7	4.8	8.5	2.0	84	63.8	42.9	47.7	0.000	0.0	8.0
11	29.370	54.0	47.3	6.7	51.0	+10.8	48.1	45.0	6.0	8.2	2.6	80	69.5	41.6	47.8	0.031	1.0	7.9
12	29.681	50.5	43.3	7.2	46.9	+ 6.6	45.1	43.0	3.9	8.5	2.0	86	71.7	32.7	47.8	0.090	4.5	7.9
13	29.598	53.8	48.1	5.7	51.0	+10.5	48.9	46.6	4.4	5.3	3.0	85	59.7	44.0	48.0	0.000	0.0	7.9
14	29.493	53.3	48.3	5.0	49.9	+ 9.2	48.3	46.5	3.4	5.5	2.2	88	73.8	41.0	48.0	0.190	2.1	7.9
15	29.347	50.2	45.6	4.6	48.2	+ 7.4	46.5	44.6	3.6	6.0	0.4	87	57.3	36.9	48.1	0.087	0.1	7.9
16	29.353	49.7	46.3	3.4	48.4	+ 7.7	46.8	45.0	3.4	5.3	2.0	88	53.7	42.1	48.1	0.042	0.0	7.8
17	29.223	53.3	44.2	9.1	49.6	+ 9.2	48.1	46.4	3.2	6.7	1.2	89	66.7	34.6	48.3	0.080	0.9	7.8
18	29.342	47.7	43.6	4.1	45.8	+ 5.8	45.3	44.7	1.1	1.7	0.0	96	52.5	34.0	48.3	0.368	0.0	7.8
19	29.493	48.1	41.6	6.5	45.4	+ 5.9	44.4	43.3	2.1	5.6	1.1	92	54.7	39.0	48.1	0.100	0.0	7.8
20	29.846	51.3	37.3	14.0	45.0	+ 6.0	42.7	39.6	5.4	9.0	2.8	81	63.0	29.8	48.3	0.000	1.6	7.8
21	29.900	53.7	48.0	5.7	51.9	+13.2	50.4	48.8	3.1	4.7	0.9	89	60.7	39.4	48.2	0.180	0.0	7.8
22	29.918	54.2	40.0	14.2	50.0	+11.6	47.8	45.4	4.6	10.5	1.7	84	54.7	32.0	48.3	0.121	0.0	7.8
23	30.364	51.9	34.2	17.7	42.7	+ 4.5	41.5	39.9	2.8	9.0	0.6	90	65.7	26.2	48.3	0.000	5.6	7.8
24	30.223	50.6	35.5	15.1	43.0	+ 4.8	41.5	39.4	3.6	8.9	1.1	87	81.8	26.3	48.1	0.014*	6.3	7.8
25	30.182	39.4	31.9	7.5	36.1	- 2.3	35.1	33.3	2.8	4.3	1.2	90	54.5	25.5	48.0	0.004*	0.7	7.8
26	30.205	35.2	31.7	3.5	33.3	- 5.3	32.4	30.9	2.4	2.7	1.1	91	35.4	27.8	47.6	0.000	0.0	7.8
27	30.199	38.0	32.3	5.7	35.6	- 3.2	34.7	33.1	2.5	4.8	1.2	91	45.1	28.9	47.5	0.000	0.0	7.9
28	29.979	46.9	37.0	9.9	41.2	+ 2.3	39.9	38.2	3.0	4.6	1.7	89	47.7	36.0	47.4	0.139	0.0	7.9
29	29.678	44.6	31.9	12.7	38.0	- 1.0	34.6	28.7	9.3	13.8	1.7	68	57.6	27.1	47.1	0.000	1.7	7.9
30	29.915	38.0	31.3	6.7	33.6	- 5.3	30.8	26.1	7.5	8.8	4.3	72	49.8	26.5	46.9	0.000	2.2	7.9
31	29.667	44.3	31.4	12.9	39.4	+ 0.7	37.2	33.7	5.7	9.0	2.4	80	53.9	27.1	46.7	0.240	2.8	7.9
Means	29.767	48.2	39.9	8.3	44.3	+ 4.4	42.4	39.8	4.6	7.6	2.0	83.9	59.3	33.7	47.8	Sum 2.309	1.5	7.9
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

* Rainfall (Column 16). The amounts entered on December 24 and 25 are derived from heavy dew and frost.

The mean reading of the *Barometer* for the month was 29.767 in., being 0.025 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR.

The highest in the month was 54°.2 on December 22; the lowest in the month was 26°.6 on December 2; and the range was 27°.6.

The mean of all the highest daily readings in the month was 48°.2, being 4°.0 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 39°.9, being 4°.4 higher than the average for the 65 years, 1841-1905.

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

The mean for the month was 44°.3, being 4°.4 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1942	RECORD OF THE NIGHT SKY: Polaris Duration	Polaris Fraction of Total Exposure	δ URSÆ MINORIS Duration	δ URSÆ MINORIS Fraction of Total Exposure	WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS: OSLER'S General Direction A.M.	OSLER'S General Direction P.M.	OSLER'S Pressure on the Square Foot Greatest	OSLER'S Pressure on the Square Foot Mean of 24 Hourly Measures	Robinson's Horizontal Movement of the Air	CLOUDS AND WEATHER 0h to 6h	6h to 12h	12h to 18h	18h to 24h
	hours		hours				lbs.	lbs.	miles				
Dec. 1	0.2	0.02	0.1	0.01	WSW	WSW:NNW	3.0	0.32	322	c b	b c b *Acu Ci* c *Stcu*	*Nbst* 1 d	1d
2	3.6	0.27	0.9	0.07	NNW	Calm	0.9	0.04	150	rr c r c	c bc m *Ci Ast so-ha* m_o	bc *Cist Ast* b f	b bc f x
3	0.2	0.01	0.0	0.00	Calm	Calm	0.1	0.01	89	c ff x	c *Stcu St* ff	o $1d_o$ ff	o $1d_o$ c m
4	5.8	0.43	4.8	0.35	Calm	SSE:S	2.0	0.07	159	c m_o	c bc *Acu Ci* m_o	bc c *Ci Cicu Acu so-ha* b	b c
5	2.9	0.21	2.5	0.18	SSW:WSW	WSW:W	6.7	0.99	462	c	c r_o r R g *Nbst* r c	bc *Acu Frst* c y	c b c
6	0.4	0.03	0.3	0.02	W:WSW	WSW:SW	2.3	0.18	284	c	c *Ci Acu* m_o	b c *Acu* m c	c
7	1.9	0.14	0.5	0.04	SW:WSW	SW	5.0	0.71	427	c	c *Stcu Frst*	c *Frst Stcu*	c 1d c
8	0.1	0.01	0.0	0.00	SW:WSW	SW	3.1	0.40	342	c bc	c *Acu Ci Ast*	c *Ast Stcu*	c d_o c
9	2.3	0.17	1.9	0.14	SW:SSW	SSW	3.5	0.38	352	c	c b *Ci* c b *Frst*	b c *Frst*	c b c
10	2.0	0.15	1.6	0.12	SSW	SSW:S	6.4	0.95	446	c	c $1d_o$ c *St Ast Stcu*	c *Acu Ast* $1r_o$	b c $1r_o$
11	..	..	..	..	SSW	SSW	9.5	0.78	375	c $1r_o$	c *Frst*	c bc *Frst Frcu* p bc	bc p c
12	2.4	0.17	0.9	0.06	SSW:WSW	SW:SSW	2.4	0.12	247	rr c m	c *Acu* m b m_o	b bc b m_o	c r c
13	3.6	0.26	2.7	0.20	SSW	SSW	6.5	1.16	476	c	c *Ast Frst Cist*	c *Acu Frst*	c
14	1.8	0.13	0.8	0.06	SSW	SE:SSE	1.7	0.21	262	rr b c	bc c *Ci Frst Stcu*	c *Stcu Acu Frst* $1r_o$	c
15	6.5	0.47	5.2	0.38	SSE:SSW	SSW	2.3	0.18	254	c d_o	d_o r_o rr *Nbst* c *Ast so-ha*	c *Ci Cicu Acu Ast* b	bc c p
16	2.0	0.15	1.6	0.12	SSW:S	SSW:S	5.0	0.59	378	bc c	c *Frst Nbst* rr	rr_o $1d_o$ *Nbst*	$1d_o$ b c
17	6.0	0.44	5.3	0.39	S:SSW	SSW	2.2	0.17	259	c r_o	rr_o c *Frst* r_o	$1r_o$ *Frst Ci Frcu*	$1r_o$ r_o c b
18	0.0	0.00	0.0	0.00	S:Calm	ENE:Calm:N	0.6	0.04	165	b bc c	c rr_o *Frst* m_o m	$1r_o$ r m rr ff	rr ff o m
19	5.6	0.40	5.6	0.40	NW:WSW	SSW:NW	4.5	0.27	309	o m	c *St* m_o	c *Ast Acu Nbst* rr_o	r_o r c
20	3.1	0.22	1.5	0.11	WSW:SW	SW:SSW	8.5	0.41	323	b x	bc *Ci* x f *prhn*	bc c *Ci Acu*	bc *lu-ha* c q
21	0.0	0.00	0.0	0.00	SSW:SW	SSW	8.6	0.77	410	c r q c	c *Frst Stcu*	c *Ci Cist Frst* r_o c d_o	d_o $1r_o$ r
22	14.0	1.00	14.0	1.00	SSW:WSW	WNW:WSW	7.6	0.70	387	$1r$ r_o	rr_o *Nbst* c	c b *Ci*	b
23	12.2	0.87	11.3	0.80	SW	SW:SSW	1.0	0.07	217	b x	b x f b m_o *Acu Ci*	b *Acu Ci* m_o c	bc c bc
24	10.1	0.72	9.7	0.69	SSW:SW	SSW:Calm	1.0	0.07	211	bc W m_o	bc b *Ci*	b *Ci* m_o	b x c m f
25	0.0	0.00	0.0	0.00	S:Calm	Calm	0.0	0.00	109	bc m f x	bc *Acu* c *Stcu* m	c *Stcu* m	c m
26	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	67	o m w	o *St* m	o *St* m	o m
27	0.0	0.00	0.0	0.00	Calm	Calm	0.0	0.00	52	o m f w	c *Stcu* f m	o *St* m	o m
28	4.1	0.30	3.9	0.28	Calm:SW	SW	2.7	0.17	248	o m	o *St* m	c *Stcu* m m_o d_o	$1d_o$ rr
29	10.2	0.74	8.7	0.63	NW:W	NNW	7.2	0.90	443	c b c m	c r_o c *Ci Cicu Acu* m_o	c *Acu Frcu Stcu*	b bc q b
30	2.4	0.17	1.3	0.10	NNW	NNW:SW	6.3	0.93	409	b c $1s_o$	c $1s_o$ c *Acu Stcu Frst*	bc b *Ci Cist so-ha* c	c
31	0.0	0.00	0.0	0.00	SW:W:NW	NW:W	3.3	0.30	334	c ss c	b *Cicu Frcu* m_o	b m c m_o	c m m_o
Means	3.4	0.25	2.9	0.21	..	..	..	0.38	289				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 42°.4, being 3°.9 higher than
The mean *Temperature of the Dew Point* for the month was 39°.8, being 3°.4 higher than
The mean *Degree of Humidity* for the month was 83.9, being 3.6 less than
The mean *Elastic Force of Vapour* for the month was 0.246 in., being 0.030 in. greater than
} the average for the 65 years, 1841-1905.

The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8.0.

The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.184. The maximum daily amount of *Sunshine* was 6.3 hours on December 24.

The highest reading of the *Solar Radiation Thermometer* was 81°.8 on December 24, and the lowest reading of the *Terrestrial Radiation Thermometer* was 21°.1 on December 2.

The *Proportions of Wind* referred to the cardinal points were N.9, E.2, S.42, W.30, calm or nearly calm conditions 17, the whole month being represented by 100.

The *Greatest Pressure of the Wind* in the month was 9.5 lbs. on the square foot on December 11. The mean daily *Horizontal Movement of the Air* for the month was 289 miles; the greatest daily value was 476 miles on December 13 and the least daily value was 52 miles on December 27.

Rain (0.005 in. or over) fell on 17 days in the month, amounting to 2.309 in., as measured by gauge No. 6 partly sunk below the ground; being 0.482 in. greater than the average fall for the 65 years, 1841-1905.

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

MAXIMA		MINIMA		MAXIMA		MINIMA		MAXIMA		MINIMA	
U.T., 1942.	Reading	U.T., 1942.	Reading	U.T., 1942.	Reading	U.T., 1942.	Reading	U.T., 1942.	Reading	U.T., 1942.	Reading
d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.	d. h. m.	in.
January		January		May		May		September		September	
7. 10. 10	30.155	4. 14. 45	29.494	8. 0. 0	29.877	12. 18. 0	29.334	16. 7. 05	30.094	21. 16. 55	29.211
10. 22. 0	30.124	9. 16. 50	29.601	14. 23. 50	29.878	16. 4. 25	29.698	22. 11. 40	29.408	23. 16. 15	29.183
15. 9. 0	29.944	13. 14. 0	29.300	17. 9. 15	29.837	18. 19. 0	29.580	27. 9. 0	29.689	29. 6. 0	29.212
17. 19. 25	30.012	16. 12. 30	29.594	19. 21. 20	30.024	21. 4. 20	29.675	October		October	
19. 10. 30	30.015	18. 07. 0	29.892	22. 10. 30	29.798	24. 0. 25	29.446				
22. 9. 30	30.178	20. 1. 20	29.802	24. 21. 15	29.799	26. 16. 03	29.077	2. 8. 40	30.159	5. 4. 30	29.738
24. 9. 15	29.479	24. 0. 28	29.340	27. 12. 15	29.381	28. 3. 35	29.260	6. 9. 45	30.088	8. 3. 40	29.631
27. 3. 0	29.999	24. 20. 43	29.030	June		June		9. 8. 05	29.970	10. 13. 10	29.551
28. 4. 10	29.467	27. 18. 30	29.364					11. 22. 0	30.100	13. 1. 55	29.951
30. 3. 0	29.862	29. 7. 30	29.209	3. 7. 20	30.300	6. 23. 20	29.804	14. 1. 05	30.060	15. 5. 20	29.857
31. 21. 20	29.992	30. 21. 40	29.081	8. 1. 50	29.993	13. 2. 40	29.512	16. 21. 40	30.114	18. 3. 0	29.841
				16. 7. 15	29.783	17. 17. 30	29.684	18. 23. 15	29.946	20. 20. 0	29.646
February		February		20. 8. 05	30.115	23. 18. 30	29.745	21. 18. 30	29.989	24. 15. 05	29.475
				25. 22. 15	30.141	28. 17. 35	29.929	24. 22. 35	29.553	25. 17. 0	29.056
		2. 4. 20	29.676	29. 7. 0	30.043	30. 17. 30	29.857	26. 1. 20	29.224	26. 18. 0	28.855
2. 21. 40	30.057	3. 21. 45	29.551					29. 4. 12	29.467	29. 15. 30	29.300
5. 20. 0	30.011	7. 4. 0	29.908	July		July					
8. 10. 15	30.212	10. 19. 50	29.638					November		November	
11. 21. 0	29.927	13. 1. 0	29.627	1. 22. 50	29.946	6. 4. 05	29.537				
16. 22. 0	30.548	17. 16. 50	30.333	8. 23. 15	29.903	10. 16. 0	29.532	2. 10. 38	29.738	3. 3. 15	29.613
18. 23. 5	30.458	24. 4. 55	29.405	13. 8. 0	29.968	14. 5. 25	29.862	3. 23. 20	29.881	6. 0. 15	29.227
26. 20. 0	29.825	28. 14. 50	29.667	15. 12. 25	30.034	17. 16. 15	29.623	6. 18. 40	29.627	7. 6. 50	29.535
				21. 8. 25	29.991	23. 4. 15	29.508	9. 9. 30	30.224	10. 14. 45	30.080
March		March		24. 0. 0	29.836	25. 17. 0	29.725	11. 9. 05	30.174	12. 14. 0	29.938
				26. 10. 40	29.792	27. 7. 25	29.403	14. 8. 30	30.435	15. 15. 45	30.210
2. 20. 55	29.924	4. 14. 30	29.321	28. 8. 45	30.013	29. 16. 55	29.843	17. 10. 35	30.337	18. 13. 30	30.154
6. 8. 45	29.716	7. 3. 15	29.490	30. 9. 20	30.065			19. 10. 20	30.221	21. 4. 10	30.117
8. 8. 35	29.903	9. 17. 0	29.704					22. 9. 30	30.386	23. 17. 20	30.301
10. 21. 20	29.854	13. 16. 0	29.366	August		August		24. 10. 50	30.472	29. 14. 0	29.775
16. 8. 15	29.740	18. 18. 0	29.311					30. 10. 35	29.911		
23. 8. 20	30.280	27. 16. 15	29.643			2. 18. 30	29.556				
28. 20. 12	29.883	31. 18. 45	29.485	6. 8. 10	30.098	8. 23. 0	29.625				
				9. 21. 55	29.817	10. 17. 55	29.589	December		December	
April		April		17. 9. 15	30.025	19. 4. 40	29.547				
				21. 6. 45	29.893	22. 17. 20	29.670			1. 14. 30	29.560
2. 21. 05	29.903	5. 4. 15	29.166	23. 23. 10	29.825	25. 4. 35	29.662	4. 8. 45	29.969	5. 9. 25	29.233
6. 2. 45	29.488	7. 12. 0	29.186	27. 9. 15	29.936	29. 18. 45	29.565	7. 9. 45	29.925	7. 22. 35	29.843
9. 0. 05	29.671	9. 20. 40	29.310	31. 0. 15	29.690			8. 20. 05	30.036	11. 9. 0	29.280
11. 9. 50	30.140	13. 6. 0	29.716					12. 17. 40	29.802	15. 5. 15	29.266
15. 11. 45	30.293	18. 14. 45	29.481	September		September		15. 23. 05	29.451	17. 9. 05	29.189
24. 9. 15	30.003	27. 17. 25	29.708					19. 10. 05	29.542	19. 18. 35	29.441
30. 9. 20	30.111					1. 2. 0	29.592	20. 11. 45	29.918	21. 0. 02	29.811
				2. 20. 15	29.753	3. 12. 0	29.489	21. 10. 05	29.976	22. 7. 15	29.694
May		May		4. 19. 40	29.971	5. 17. 45	29.738	23. 10. 40	30.423	25. 4. 20	30.158
				7. 9. 40	30.146	8. 17. 0	30.047	26. 9. 50	30.228	29. 8. 30	29.619
		2. 4. 25	29.825	10. 9. 0	30.287	11. 18. 0	29.968	30. 18. 0	29.985	31. 5. 30	29.555
4. 9. 45	30.197	7. 17. 20	29.751	13. 9. 0	30.085	15. 3. 55	29.896	31. 18. 45	29.735		

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 1942

	January	February	March.	April	May	June	July	August	September	October	November	December
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
HIGHEST	30.178	30.548	30.280	30.293	30.197	30.300	30.065	30.098	30.287	30.159	30.472	30.423
LOWEST	29.030	29.405	29.311	29.166	29.077	29.512	29.403	29.547	29.183	28.855	29.227	29.189
RANGE	1.148	1.143	0.969	1.127	1.120	0.788	0.662	0.551	1.104	1.304	1.245	1.234

The highest reading in the year was 30.548 ins. on Feb.16. The lowest reading in the year was 28.855 ins. on Oct.26. The range of reading in the year was 1.693 ins.

TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1942

Month 1942	Mean Reading of the Barometer	TEMPERATURE OF THE AIR								Mean Temperature of Evaporation	Mean Temperature of Dew Point	Mean Degree of Humidity (Saturation = 100)
		Highest	Lowest	Range in the Month	Mean of all the Highest	Mean of all the Lowest	Mean of the Daily Ranges	Monthly Mean	Excess of Mean above the Average of 65 Years			
	in.	°	°	°	°	°	°	°	°	°	°	
January	29.806	51.5	14.9	36.6	37.9	28.4	9.5	33.5	-5.1	31.9	29.1	82.9
February	29.927	47.0	22.0	25.0	36.4	28.0	8.3	32.2	-7.3	30.5	27.3	80.8
March	29.749	62.4	24.1	38.3	48.6	34.9	13.7	41.2	-0.7	39.0	35.6	80.5
April	29.753	66.4	37.1	29.3	57.5	41.9	15.6	49.1	+1.8	44.0	37.0	63.6
May	29.740	74.4	37.3	37.1	62.8	44.9	17.9	53.3	+0.2	48.3	42.3	67.6
June	29.934	86.2	40.4	45.8	71.0	49.7	21.3	60.5	+1.1	54.0	47.8	63.4
July	29.813	79.5	45.4	34.1	70.7	54.0	16.7	61.7	-0.9	56.4	51.9	70.6
August	29.781	88.2	48.3	39.9	73.0	55.4	17.6	63.3	+1.7	58.6	54.9	74.3
September	29.753	77.4	42.3	35.1	66.9	51.3	15.6	58.2	+1.0	54.6	51.3	78.0
October	29.766	69.3	35.3	34.0	59.8	45.9	13.9	52.9	+3.0	50.2	47.4	81.8
November	30.051	54.6	26.5	28.1	47.0	36.5	10.4	41.9	-1.6	40.3	38.0	86.1
December	29.767	54.2	26.6	27.6	48.2	39.9	8.3	44.3	+4.4	42.4	39.8	83.9
		Highest	Lowest	Annual Range								
Means	29.820	88.2	14.9	73.3	56.7	42.6	14.1	49.3	-0.2	45.9	41.9	76.1

Month 1942	Mean Elastic Force of Vapour	Mean Temperature of the Earth 4 feet below the surface of the Soil	Mean Amount of Cloud (0-10)	RAIN		WIND										From Robinson's Anemometer
				Number of Rainy Days (0.005 in. or over)	Amount collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	From Osler's Anemometer								Number of Calm or Nearly Calm Hours	Mean Daily Pressure on the Square Foot	Mean Daily Horizontal Movement of the Air
						Number of Hours of Prevalence of each Wind referred to different Points of Azimuth										
						N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			
	in.	°			in.	h	h	h	h	h	h	h	h	h	lbs.	miles
January	0.159	43.8	7.7	13	2.127	112	70	70	68	76	129	105	40	74	0.34	271
February	0.146	40.4	8.5	7	0.975	122	283	35	20	24	59	37	38	54	0.30	284
March	0.208	41.1	7.6	11	2.135	33	96	193	65	66	130	16	9	136	0.22	239
April	0.220	45.4	5.3	6	0.890	9	114	201	31	27	186	75	8	69	0.96	375
May	0.271	49.5	6.6	20	2.834	60	99	54	12	117	200	65	23	114	0.52	276
June	0.334	53.7	5.5	4	0.341	82	87	64	13	18	65	65	92	234	0.13	182
July	0.389	56.6	7.6	12	1.865	86	17	35	12	12	218	162	124	78	0.30	269
August	0.435	57.9	6.9	18	1.977	33	5	10	26	55	270	106	25	214	0.16	206
September	0.381	58.6	6.9	15	1.129	16	68	15	27	44	230	118	41	161	0.21	223
October	0.329	55.7	7.6	19	4.187	33	44	24	6	47	274	137	27	152	0.32	258
November	0.229	50.5	7.3	9	2.133	166	63	20	3	8	64	79	80	237	0.09	179
December	0.246	47.8	8.0	17	2.309	40	2	6	21	169	262	71	46	127	0.38	289
Sums	..	..	..	151	22.902	792	948	727	304	663	2087	1036	553	1650	..	..
Means	0.279	50.1	7.1	..	..	..	..	..	..	..	..	..	..	..	0.33	254

The greatest recorded pressure of the wind on the square foot in the year was 21.0 lbs. on Apr. 28.
The greatest recorded daily horizontal movement of the air in the year was 690 miles on Apr. 28.
The least recorded daily horizontal movement of the air in the year was 52 miles on Dec. 27.

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
0^h	29.806	29.946	29.760	29.744	29.748	29.942	29.825	29.791	29.763	29.775	30.048	29.770	29.827
1	29.804	29.943	29.759	29.743	29.743	29.941	29.820	29.788	29.760	29.773	30.044	29.764	29.823
2	29.808	29.937	29.754	29.741	29.741	29.939	29.813	29.785	29.754	29.768	30.042	29.762	29.820
3	29.811	29.931	29.747	29.741	29.739	29.937	29.807	29.781	29.746	29.763	30.039	29.757	29.817
4	29.810	29.924	29.744	29.741	29.738	29.936	29.803	29.778	29.742	29.764	30.038	29.751	29.814
5	29.808	29.922	29.744	29.745	29.740	29.940	29.805	29.779	29.743	29.762	30.040	29.751	29.815
6	29.807	29.919	29.746	29.755	29.747	29.945	29.809	29.787	29.747	29.764	30.042	29.752	29.818
7	29.812	29.921	29.753	29.763	29.752	29.949	29.812	29.791	29.751	29.774	30.048	29.755	29.823
8	29.819	29.928	29.760	29.768	29.756	29.951	29.814	29.794	29.757	29.782	30.057	29.762	29.829
9	29.825	29.930	29.764	29.772	29.756	29.949	29.814	29.795	29.761	29.784	30.064	29.771	29.832
10	29.829	29.935	29.763	29.772	29.756	29.946	29.814	29.793	29.761	29.786	30.067	29.782	29.834
11	29.828	29.935	29.761	29.768	29.753	29.942	29.815	29.791	29.755	29.780	30.067	29.783	29.831
12	29.816	29.929	29.756	29.760	29.747	29.937	29.814	29.786	29.749	29.770	30.056	29.776	29.825
13	29.806	29.920	29.746	29.757	29.743	29.933	29.812	29.781	29.743	29.761	30.051	29.770	29.819
14	29.800	29.913	29.738	29.751	29.733	29.927	29.810	29.775	29.741	29.754	30.045	29.764	29.813
15	29.800	29.909	29.733	29.744	29.723	29.919	29.807	29.769	29.735	29.747	30.042	29.765	29.808
16	29.797	29.911	29.729	29.739	29.714	29.913	29.803	29.766	29.736	29.746	30.044	29.768	29.805
17	29.795	29.914	29.729	29.738	29.713	29.910	29.803	29.765	29.740	29.745	30.047	29.771	29.806
18	29.792	29.923	29.736	29.740	29.716	29.912	29.806	29.764	29.746	29.749	30.052	29.773	29.809
19	29.793	29.928	29.743	29.747	29.723	29.916	29.812	29.768	29.758	29.756	30.054	29.774	29.814
20	29.796	29.930	29.749	29.756	29.734	29.923	29.819	29.777	29.766	29.764	30.055	29.774	29.820
21	29.797	29.932	29.752	29.761	29.745	29.932	29.826	29.781	29.769	29.769	30.058	29.775	29.825
22	29.795	29.935	29.755	29.762	29.747	29.936	29.827	29.781	29.771	29.771	30.057	29.774	29.826
23	29.796	29.936	29.756	29.762	29.749	29.937	29.828	29.782	29.770	29.771	30.055	29.772	29.826
24	29.795	29.935	29.754	29.761	29.749	29.936	29.826	29.781	29.769	29.767	30.055	29.768	29.825
Means 0^h-23^h	29.806	29.927	29.749	29.753	29.740	29.934	29.813	29.781	29.753	29.766	30.051	29.767	29.820
Means 1^h-24^h	29.806	29.927	29.749	29.754	29.740	29.933	29.813	29.781	29.753	29.765	30.051	29.767	29.820
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
	°	°	°	°	°	°	°	°	°	°	°	°	°
0^h	33.0	31.0	38.4	45.3	48.2	54.7	57.5	59.1	54.8	50.5	40.8	43.7	46.4
1	32.8	30.7	38.0	44.8	47.7	53.3	56.7	58.6	54.4	50.0	40.5	43.6	45.9
2	32.4	30.5	37.5	44.4	47.1	52.2	56.1	58.1	53.9	49.8	40.3	43.4	45.5
3	32.0	30.3	37.2	43.8	46.4	51.4	55.6	57.3	53.6	49.6	39.9	43.3	45.0
4	31.7	30.2	36.9	43.4	46.1	50.8	55.3	56.7	53.2	49.4	39.6	43.5	44.7
5	31.9	30.5	37.0	43.2	46.1	51.0	55.7	56.9	53.1	49.1	39.7	43.4	44.8
6	32.0	30.7	37.1	43.3	47.4	53.3	56.9	57.4	53.2	49.3	39.8	43.5	45.3
7	32.1	30.9	37.5	45.0	49.9	56.2	58.5	59.5	54.3	49.6	39.8	43.4	46.4
8	32.3	31.3	38.8	47.6	52.3	59.3	60.5	62.0	56.2	50.6	39.8	43.4	47.8
9	32.6	31.7	40.4	50.3	54.5	62.2	62.6	64.6	58.3	52.9	40.5	43.4	49.5
10	33.4	32.5	42.1	52.5	56.9	64.6	64.5	66.9	60.3	54.7	42.1	44.2	51.2
11	34.4	33.2	43.6	53.6	58.5	66.2	65.7	68.8	61.7	56.1	43.6	45.6	52.6
12	35.3	34.0	45.2	54.6	59.4	67.4	66.5	69.6	63.3	56.8	44.9	46.3	53.6
13	35.9	34.6	46.4	55.2	60.3	68.2	67.4	70.3	64.0	57.6	45.5	46.8	54.3
14	36.0	35.0	47.3	55.7	60.3	68.8	68.2	70.5	64.5	57.9	45.5	46.8	54.7
15	35.7	35.0	47.1	55.7	60.8	69.4	68.7	70.0	64.9	57.9	45.1	46.2	54.7
16	35.3	34.7	46.5	55.0	60.6	68.9	68.4	69.2	64.3	57.2	44.4	45.4	54.2
17	34.7	34.0	45.6	54.1	59.3	67.9	67.2	68.0	62.9	56.4	43.5	44.8	53.2
18	34.1	33.3	43.8	52.5	57.8	66.6	65.8	66.8	61.1	55.0	42.7	44.5	52.0
19	33.9	32.5	42.3	50.3	55.3	64.5	63.9	64.9	59.1	53.7	42.1	44.2	50.4
20	33.7	32.1	41.2	48.7	53.1	62.0	62.0	62.8	57.7	52.8	41.9	43.9	49.3
21	33.4	31.8	40.5	47.4	51.3	59.6	60.4	61.4	56.7	51.9	41.6	43.6	48.3
22	33.2	31.5	40.0	46.6	50.2	57.8	59.2	60.6	55.9	51.2	41.4	43.6	47.6
23	32.9	31.2	39.4	45.7	49.3	56.3	58.1	59.9	55.3	50.6	41.0	43.7	46.9
24	32.8	31.1	39.0	45.1	48.5	55.1	57.3	59.3	54.6	50.1	40.7	43.6	46.4
Means 0^h-23^h	33.5	32.2	41.2	49.1	53.3	60.5	61.7	63.3	58.2	52.9	41.9	44.3	49.3
Means 1^h-24^h	33.5	32.2	41.3	49.1	53.3	60.5	61.7	63.3	58.2	52.9	41.9	44.3	49.3
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
	°	°	°	°	°	°	°	°	°	°	°	°	°
0^h	31.7	29.6	37.0	42.2	45.8	51.5	54.5	56.9	52.9	48.8	39.6	42.1	44.4
1	31.4	29.5	36.8	42.0	45.4	50.6	54.0	56.5	52.6	48.4	39.4	42.0	44.1
2	31.2	29.5	36.6	41.7	45.0	49.8	53.8	56.1	52.4	48.4	39.2	41.9	43.8
3	30.9	29.4	36.2	41.3	44.6	49.3	53.6	55.8	52.2	48.2	38.9	41.8	43.5
4	30.7	29.2	35.9	41.1	44.3	48.9	53.5	55.4	51.9	48.1	38.8	41.9	43.3
5	30.7	29.4	36.0	40.7	44.2	48.8	53.6	55.3	51.7	47.9	38.7	41.7	43.2
6	30.6	29.5	35.9	40.6	45.1	50.3	54.2	55.5	51.6	47.8	38.7	41.9	43.5
7	30.6	29.6	36.2	41.8	46.7	51.8	55.1	56.8	52.4	48.0	38.6	41.8	44.1
8	30.7	29.7	37.2	43.6	47.9	53.4	56.1	58.3	53.6	48.6	38.6	41.8	45.0
9	31.0	30.0	38.6	45.2	48.9	54.8	57.0	59.5	54.8	50.4	39.3	41.9	45.9
10	31.7	30.6	39.6	46.2	49.8	55.7	57.7	60.1	55.7	51.6	40.3	42.4	46.8
11	32.5	31.0	40.6	46.4	50.7	56.2	58.2	60.7	56.3	52.3	41.4	43.1	47.5
12	33.0	31.5	41.6	47.0	51.1	56.6	58.7	60.8	57.0	52.7	42.3	43.6	48.0
13	33.3	31.9	42.5	47.1	51.4	57.2	58.9	61.3	57.4	53.1	43.0	43.9	48.4
14	33.6	32.2	43.0	47.4	51.6	57.6	59.0	61.4	57.7	53.1	42.9	43.8	48.6
15	33.4	32.2	42.8	47.3	51.9	58.0	59.2	61.3	57.9	53.0	42.5	43.3	48.6
16	33.1	32.0	42.4	46.7	52.1	57.7	59.1	61.4	57.6	52.7	41.9	42.8	48.3
17	32.6	31.6	41.9	46.2	51.7	57.4	58.9	60.8	57.1	52.4	41.4	42.6	47.9
18	32.4	31.1	40.8	45.5	51.0	57.1	58.6	60.6	56.2	51.6	40.8	42.6	47.4
19	32.4	30.7	39.8	44.6	49.9	56.4	57.7	59.8	55.2	50.9	40.6	42.4	46.7
20	32.3	30.5	39.1	43.9	48.8	55.6	56.7	59.0	54.6	50.3	40.4	42.2	46.1
21	32.0	30.2	38.7	43.2	47.8	54.7	55.9	58.4	54.2	49.8	40.2	42.0	45.6
22	31.7	30.0	38.3	42.7	47.0	53.6	55.3	57.9	53.6	49.2	40.1	42.1	45.1
23	31.5	29.9	37.9	42.3	46.5	52.7	54.6	57.5	53.1	48.7	39.7	42.1	44.7
24	31.4	29.8	37.5	41.9	46.0	52.0	54.3	57.1	52.7	48.4	39.5	42.1	44.4
Means 0^h–23^h	31.9	30.5	39.0	44.0	48.3	54.0	56.4	58.6	54.6	50.2	40.3	42.4	45.9
Means 1^h–24^h	31.9	30.5	39.0	44.0	48.3	54.0	56.4	58.6	54.6	50.2	40.3	42.4	45.9
No. of Days Employed	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
	°	°	°	°	°	°	°	°	°	°	°	°	°
0^h	29.7	27.4	34.9	37.9	43.1	48.4	51.9	55.1	51.1	47.0	37.9	40.0	42.0
1	29.2	27.5	34.9	38.1	42.7	47.9	51.6	54.8	50.9	46.6	37.9	39.9	41.8
2	29.1	27.8	35.1	38.0	42.5	47.3	51.9	54.4	51.0	46.9	37.7	39.9	41.8
3	29.0	27.9	34.5	37.9	42.4	47.1	51.9	54.6	50.9	46.7	37.4	39.8	41.7
4	29.0	27.4	34.1	37.9	42.1	46.9	51.8	54.3	50.7	46.7	37.6	39.8	41.5
5	28.7	27.5	34.3	37.1	41.9	46.4	51.8	54.0	50.4	46.7	37.2	39.4	41.3
6	28.3	27.5	33.9	36.7	42.4	47.2	51.9	53.9	50.1	46.1	37.0	39.8	41.2
7	28.1	27.5	34.1	37.3	42.9	47.5	52.2	54.6	50.6	46.2	36.9	39.7	41.5
8	28.1	27.1	34.9	38.4	42.9	47.8	52.4	55.4	51.3	46.4	36.9	39.7	41.8
9	28.5	27.2	36.0	38.8	42.7	48.0	52.3	55.6	51.7	47.9	37.7	39.9	42.2
10	29.1	27.5	35.9	38.3	41.9	47.5	52.1	54.9	51.7	48.6	37.8	40.1	42.1
11	29.3	27.3	36.4	37.3	42.2	47.1	52.0	54.6	51.6	48.6	38.4	39.8	42.1
12	29.0	27.6	36.4	37.5	41.8	46.7	52.4	54.1	51.6	48.7	38.7	40.2	42.1
13	28.8	27.7	37.3	36.8	41.8	47.3	52.0	54.5	52.0	48.9	39.7	40.3	42.3
14	29.5	27.3	37.3	36.9	42.3	47.7	51.5	54.6	52.1	48.6	39.5	40.1	42.3
15	29.4	27.3	37.1	36.7	42.4	47.9	51.4	54.8	52.1	48.4	39.0	39.6	42.2
16	29.3	27.6	36.9	36.0	43.2	47.8	51.5	55.7	52.3	48.5	38.5	39.3	42.2
17	28.9	27.8	36.7	35.8	43.6	48.1	52.2	55.4	52.2	48.5	38.5	39.7	42.3
18	29.5	27.3	36.6	36.4	43.7	48.7	52.7	55.9	52.1	48.3	38.1	40.1	42.5
19	30.0	27.7	36.1	37.0	44.1	49.3	52.6	56.0	51.9	48.1	38.5	40.1	42.6
20	30.0	27.9	36.0	37.6	44.1	49.8	52.2	56.1	51.9	47.8	38.4	40.0	42.7
21	29.8	27.6	36.1	37.7	43.9	50.3	52.0	56.0	52.1	47.7	38.3	39.9	42.6
22	29.5	27.6	35.9	37.5	43.3	49.8	52.0	55.7	51.6	47.1	38.4	40.1	42.4
23	29.4	27.8	35.8	37.7	43.2	49.3	51.4	55.5	51.1	46.7	38.0	40.0	42.2
24	29.2	27.7	35.4	37.4	43.2	49.0	51.6	55.3	50.9	46.5	38.0	40.1	42.0
Means 0^h–23^h	29.1	27.5	35.7	37.4	42.8	48.0	52.0	55.0	51.5	47.6	38.1	39.9	42.1
Means 1^h–24^h	29.1	27.5	35.7	37.4	42.8	48.0	52.0	55.0	51.5	47.6	38.1	39.9	42.1

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means
0^h	87	85	87	75	82	79	82	87	88	88	89	87	85
1	86	86	89	77	82	82	83	87	88	88	90	87	85
2	87	88	91	78	84	83	85	88	90	90	90	87	87
3	88	89	91	79	86	85	87	90	91	90	91	87	88
4	89	88	91	81	86	87	88	91	91	90	93	87	89
5	87	87	91	79	85	85	86	90	91	91	91	86	87
6	85	86	89	78	82	80	83	88	89	89	90	87	85
7	84	85	87	75	77	72	79	84	87	88	89	87	83
8	83	82	85	70	70	65	74	79	84	86	89	87	79
9	83	82	84	65	64	59	69	73	79	83	89	87	76
10	81	80	79	58	57	54	64	65	73	80	84	85	72
11	80	77	75	54	55	50	61	61	70	76	82	80	68
12	77	75	72	53	53	47	60	58	66	75	79	79	66
13	74	73	70	50	51	47	58	57	65	72	80	78	65
14	76	71	68	49	51	47	55	57	64	71	80	77	64
15	77	71	68	49	51	46	54	59	63	70	80	78	64
16	78	73	68	49	53	47	55	62	65	72	80	80	64
17	79	76	71	50	56	49	59	64	68	75	83	82	68
18	82	77	75	54	60	53	63	68	72	78	84	85	71
19	84	81	79	61	66	58	67	73	77	81	87	85	75
20	85	83	82	65	71	65	71	78	81	83	87	86	78
21	85	83	84	68	76	71	74	83	85	85	88	87	81
22	84	84	85	70	77	75	77	84	86	86	89	87	82
23	85	85	87	74	80	77	79	86	86	87	89	87	83
24	86	85	86	75	81	80	82	87	88	88	89	87	85
Means 0^h-23^h	83	81	81	65	69	65	71	75	79	82	86	84	77
Means 1^h-24^h	83	81	81	65	69	65	71	75	79	82	86	84	77

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 1942

Month 1942	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				
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		°
January	-	-	-	-	0.5	3.0	3.2	3.1	5.1	3.9	1.1	0.5	-	-	-	-	20.4	260.7	0.078	18
February	-	-	-	-	1.0	2.9	3.7	4.3	3.7	3.8	4.2	0.6	0.0	-	-	-	24.2	278.5	0.087	26
March	-	-	0.3	3.1	6.3	7.3	10.1	10.8	10.4	11.9	10.7	7.1	3.6	0.5	-	-	82.1	367.5	0.223	37
April	-	0.3	8.5	16.4	17.7	20.9	19.9	20.5	20.7	21.8	17.3	16.6	16.7	10.8	1.6	-	209.7	415.1	0.505	48
May	1.1	8.6	16.1	17.0	16.7	17.3	18.1	16.9	16.1	13.2	16.5	14.3	13.4	16.7	8.7	0.8	211.5	483.5	0.437	57
June	4.1	14.7	16.6	18.8	20.3	20.5	19.7	18.4	16.7	16.6	17.3	16.3	13.3	14.0	10.5	3.3	241.1	496.2	0.486	62
July	0.9	5.7	9.3	10.3	11.4	10.9	11.5	13.7	13.2	14.4	15.1	14.6	12.5	11.3	9.5	0.6	164.9	500.1	0.330	60
August	-	1.9	8.5	11.6	12.3	14.6	15.8	13.6	14.7	13.7	10.4	10.3	9.5	10.9	3.8	-	151.6	452.6	0.335	52
September	-	0.5	6.4	8.4	9.4	12.0	11.6	13.5	12.4	11.8	10.8	11.0	7.5	4.3	0.1	-	119.7	380.5	0.315	41
October	-	-	-	1.5	7.7	9.1	10.5	10.6	8.5	10.0	8.2	8.9	4.3	0.1	-	-	79.4	332.2	0.239	30
November	-	-	-	-	2.5	5.1	8.1	8.2	7.2	6.0	6.2	1.5	-	-	-	-	44.8	267.7	0.167	20
December	-	-	-	-	0.7	5.3	7.5	8.4	9.9	8.2	5.1	0.2	-	-	-	-	45.3	245.7	0.184	16
For the Year	6.1	31.7	65.7	87.1	106.5	128.9	139.7	142.0	138.6	135.3	122.9	101.9	80.8	68.6	34.2	4.7	1394.7	4480.3	0.311	..

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 21h)

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maximum	Minimum	9h	12h	15h	21h	9h	12h	15h	21h
JANUARY										
	°	°	°	°	°	°	°	°	°	°
1	42.4	36.2	38.8	41.6	42.4	41.8	37.2	39.0	39.0	38.8
2	46.5	41.8	43.7	45.6	45.6	45.0	40.5	41.8	42.5	42.3
3	45.7	42.4	43.6	45.2	45.5	44.0	42.1	42.4	42.6	42.6
4	51.5	44.0	47.9	50.8	50.5	44.4	47.1	48.2	47.5	41.7
5	44.4	33.9	35.4	38.6	37.2	34.5	34.2	35.9	34.5	32.8
6	37.4	30.6	31.8	35.0	37.4	33.1	30.3	32.0	33.3	29.9
7	35.7	25.5	27.2	32.8	35.7	33.6	26.0	30.7	33.2	32.8
8	39.9	33.6	36.0	38.0	39.1	36.0	34.8	36.3	37.2	34.2
9	39.7	34.3	37.6	37.4	38.4	36.5	34.4	33.2	34.0	35.1
10	36.5	29.2	33.6	34.6	35.0	29.2	29.2	32.0	32.0	28.2
11	33.3	21.3	21.8	30.5	33.0	22.2	21.6	28.1	31.0	21.7
12	33.7	19.3	23.0	31.2	33.1	31.3	21.4	28.0	30.3	30.3
13	36.4	30.6	35.9	34.4	33.1	30.6	34.1	33.3	32.1	30.4
14	31.4	27.0	29.2	30.7	31.3	27.9	28.2	28.7	30.1	26.7
15	32.7	16.8	18.1	29.6	30.1	32.7	16.8	27.8	28.7	31.1
16	34.0	30.5	32.3	32.1	32.6	33.2	31.6	30.4	30.7	31.4
17	33.2	26.0	29.9	29.7	29.0	26.6	28.3	27.5	26.9	25.8
18	33.1	23.3	27.8	31.5	33.1	32.6	26.8	30.1	31.5	31.5
19	32.8	26.0	32.1	32.6	31.2	26.0	31.3	31.6	30.2	25.2
20	28.0	21.8	24.2	27.0	27.5	26.0	22.2	25.5	26.5	25.5
21	27.2	14.9	21.3	26.8	26.8	24.8	21.1	24.5	25.0	23.4
22	25.5	19.1	21.0	23.9	23.5	21.5	19.7	22.5	22.5	21.0
23	41.8	21.5	32.3	34.1	36.8	41.8	31.3	32.8	36.1	41.1
24	44.9	40.0	43.7	43.8	42.6	44.6	41.4	41.7	40.6	44.1
25	44.8	37.5	39.2	44.2	44.2	38.5	36.4	39.2	38.4	34.8
26	38.8	24.4	38.4	29.3	26.8	24.4	33.7	27.1	23.8	23.3
27	40.4	19.1	23.2	30.0	32.2	38.8	20.9	27.8	31.4	37.6
28	43.3	35.2	36.9	41.6	42.2	35.2	36.5	38.2	39.1	33.2
29	40.0	30.8	38.0	39.6	36.6	30.8	37.1	38.2	35.7	29.6
30	40.0	27.0	32.6	38.2	39.7	35.8	31.0	35.5	38.1	35.2
31	36.8	29.6	35.6	35.3	33.7	31.4	34.8	32.6	31.7	29.6
Means	37.8	28.8	32.6	35.3	35.7	33.4	31.0	33.0	33.4	32.0
FEBRUARY										
	°	°	°	°	°	°	°	°	°	°
1	34.2	27.3	29.0	31.2	34.2	33.6	28.4	30.7	32.5	32.7
2	34.0	27.3	32.0	30.2	31.1	28.2	31.5	29.7	29.4	26.9
3	42.2	25.6	31.2	35.4	38.2	41.4	30.7	34.2	37.7	40.7
4	41.9	29.2	33.9	33.2	33.2	30.5	33.4	30.4	30.4	28.0
5	32.6	28.9	31.1	31.9	32.0	31.2	29.4	31.4	31.3	30.9
6	31.7	29.6	30.6	31.1	31.6	29.8	30.3	30.1	29.9	28.3
7	29.8	25.1	29.4	28.3	27.0	26.4	26.9	26.8	26.0	25.4
8	30.1	24.3	26.2	28.3	29.9	24.8	24.1	25.8	27.3	24.0
9	38.1	24.8	33.3	37.3	37.8	35.6	32.3	34.1	36.4	35.0
10	44.5	33.4	37.1	42.2	43.6	42.4	35.4	39.6	40.9	39.8
11	42.7	28.6	30.2	34.1	35.0	30.0	28.5	30.9	31.0	28.4
12	46.1	27.2	34.7	40.3	46.1	44.0	32.7	37.3	42.6	42.0
13	44.0	33.5	37.1	39.1	39.0	33.5	32.7	32.9	32.5	29.0
14	40.7	28.9	32.0	38.0	40.0	36.0	29.2	32.5	34.8	32.5
15	40.2	34.0	35.8	38.6	39.5	36.2	33.0	35.6	36.0	34.0
16	36.2	28.9	31.2	33.3	33.2	30.1	28.6	30.4	29.7	28.6
17	34.9	30.1	32.2	34.1	34.4	31.7	30.2	32.3	32.2	29.7
18	32.2	28.5	30.1	31.2	31.2	29.2	28.2	29.8	29.1	28.0
19	35.6	26.7	28.4	31.1	35.1	31.0	26.4	28.5	32.1	29.0
20	34.0	28.3	30.6	33.1	33.6	32.0	28.4	31.0	31.7	30.6
21	32.0	22.3	29.2	28.4	27.6	23.1	27.4	26.8	25.3	21.4
22	30.6	22.0	25.8	30.3	30.4	26.0	23.4	27.3	26.5	24.3
23	32.4	24.6	29.6	31.2	32.2	30.0	27.6	28.8	29.2	28.4
24	35.7	28.9	31.9	34.6	35.0	31.0	30.4	32.1	32.3	29.6
25	36.0	30.1	33.1	34.7	34.6	30.4	31.8	32.1	33.1	29.8
26	33.5	29.3	31.6	31.6	33.5	32.4	31.3	31.1	31.1	30.9
27	36.6	27.9	32.2	33.6	35.6	28.6	30.8	31.2	32.0	27.8
28	47.0	27.9	37.7	44.4	46.2	32.4	36.0	38.4	39.4	30.6
Means	36.8	28.0	31.7	34.0	35.0	31.8	30.0	31.5	32.2	30.2

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maximum	Minimum	9h	12h	15h	21h	9h	12h	15h	21h
MARCH										
	°	°	°	°	°	°	°	°	°	°
1	36.0	31.4	32.6	34.6	35.8	32.2	30.7	31.7	32.5	29.5
2	43.6	30.5	34.3	38.5	43.2	32.5	33.4	36.3	39.3	31.7
3	53.6	29.3	34.5	50.2	49.5	42.8	33.1	44.3	44.3	39.3
4	42.8	38.4	39.3	40.8	39.3	39.0	38.8	40.2	38.9	38.0
5	39.0	28.9	32.4	31.1	30.6	29.6	31.2	30.2	29.3	28.8
6	30.4	24.7	30.0	30.1	29.2	25.8	28.7	27.9	28.3	25.0
7	34.4	25.8	29.7	31.3	32.6	32.0	28.3	29.7	30.6	30.3
8	50.9	24.1	36.2	46.5	50.0	38.2	32.2	40.2	41.9	35.0
9	57.0	36.5	44.4	51.8	53.9	39.0	39.2	43.8	45.1	37.0
10	45.1	32.6	34.6	40.0	44.5	36.8	33.6	37.3	40.6	35.2
11	41.5	29.6	35.2	40.9	40.0	37.7	34.8	40.2	39.4	36.2
12	38.8	33.6	35.3	38.0	38.2	34.0	33.8	35.3	35.4	32.5
13	44.2	31.8	36.6	41.6	43.7	37.8	33.8	37.5	39.5	36.5
14	62.4	37.8	51.8	54.8	62.2	52.0	50.0	51.0	55.3	49.8
15	59.8	42.5	49.4	56.6	58.6	51.4	48.1	52.5	53.1	48.8
16	54.0	45.7	53.2	52.6	51.9	51.8	50.2	50.2	50.5	50.6
17	57.1	48.7	51.4	55.2	53.7	48.7	50.1	51.6	50.9	47.7
18	56.0	46.8	49.4	53.6	52.8	48.8	48.0	50.4	50.2	47.6
19	55.6	41.2	48.3	52.7	49.1	41.2	47.3	49.3	47.2	40.7
20	48.9	38.7	41.4	44.5	48.2	45.2	40.8	43.4	46.7	44.6
21	45.2	38.4	41.8	44.3	44.1	38.4	41.5	42.7	42.5	37.5
22	39.5	34.6	35.4	37.0	39.0	37.8	34.7	35.9	37.6	36.2
23	50.3	31.9	38.1	46.1	50.2	39.3	35.6	40.9	44.3	36.8
24	52.8	32.5	34.1	43.2	52.1	38.8	33.6	39.8	45.2	37.0
25	62.0	29.8	45.6	55.7	61.2	45.2	41.5	47.5	50.1	42.0
26	50.5	37.1	41.0	49.6	47.9	40.4	40.2	43.6	40.4	36.0
27	48.4	35.3	41.3	44.9	48.0	40.4	38.3	40.9	42.8	38.4
28	45.5	35.0	38.6	44.0	44.7	37.0	34.6	36.6	35.7	34.2
29	55.6	32.6	41.2	50.0	55.0	42.6	38.2	43.8	48.8	40.2
30	58.8	36.5	45.0	49.1	58.2	48.6	42.0	44.7	50.3	46.8
31	53.4	47.4	51.6	52.8	52.6	50.2	50.6	51.3	51.0	48.7
Means	48.8	35.2	40.4	45.2	47.1	40.5	38.6	41.6	42.8	38.7
APRIL										
	°	°	°	°	°	°	°	°	°	°
1	56.8	44.7	51.1	56.1	50.5	45.1	45.3	46.6	43.3	39.6
2	55.0	40.5	44.6	51.6	52.2	46.2	41.0	43.4	43.2	40.2
3	55.6	37.1	47.9	54.6	52.0	44.8	43.4	46.7	45.0	41.0
4	54.3	38.0	47.4	51.8	52.6	45.1	43.8	45.9	47.1	43.6
5	57.3	43.9	49.7	54.8	52.6	47.8	45.7	46.1	46.6	45.2
6	57.3	42.9	50.2	54.0	57.0	47.4	47.4	48.3	49.7	45.4
7	56.0	46.4	51.9	54.6	54.1	48.8	47.3	48.7	47.8	45.2
8	53.1	41.7	49.2	46.7	50.9	42.8	43.5	43.2	45.0	40.0
9	52.1	40.9	48.2	49.1	50.0	49.2	46.2	46.9	48.1	46.4
10	58.6	46.8	50.2	54.1	57.4	48.8	44.1	45.1	47.0	42.6
11	61.3	37.4	52.9	55.9	60.6	49.6	49.1	51.7	55.2	47.1
12	64.6	42.3	58.0	62.6	59.4	49.0	49.3	53.3	51.0	45.2
13	58.5	44.6	52.4	53.7	57.1	49.9	46.6	47.4	48.6	46.1
14	58.1	43.2	50.2	53.9	57.2	47.3	45.4	46.3	46.3	42.6
15	57.0	42.2	51.6	55.2	56.6	45.0	44.9	42.8	42.7	38.4
16	56.0	38.6	49.3	54.7	55.5	46.7	43.2	45.7	43.5	38.0
17	57.5	39.6	51.6	56.1	55.6	49.5	46.2	48.5	48.4	46.0
18	66.4	41.8	50.6	60.4	64.7	51.8	46.3	52.3	56.2	47.8
19	65.6	41.2	54.6	61.3	62.6	50.1	47.5	51.8	51.0	46.7
20	62.9	44.1	54.6	58.1	59.7	53.4	48.8	50.6	49.7	49.8
21	54.0	45.3	46.6	48.1	52.3	47.2	45.0	46.0	48.3	45.2
22	61.3	44.1	49.7	56.7	60.0	52.0	46.0	49.8	50.8	47.8
23	58.9	42.6	49.2	57.9	56.4	44.2	47.7	50.0	48.9	41.4
24	54.1	38.3	44.8	51.2	53.4	42.0	38.8	42.0	43.3	37.8
25	53.7	40.0	49.3	52.9	52.0	43.3	44.1	45.9	45.0	38.9
26	56.7	41.1	50.0	55.2	56.5	47.0	44.8	47.7	48.7	42.1
27	60.0	44.5	53.4	58.5	59.6	52.4	46.7	49.7	49.4	44.8
28	54.5	45.7	49.1	52.5	53.9	48.0	42.4	43.1	43.6	41.5
29	52.7	43.0	48.8	52.0	51.5	44.8	41.2	42.2	40.7	39.2
30	56.2	39.4	51.2	54.6	56.1	44.0	42.9	42.2	43.6	39.5
Means	57.5	42.1	50.3	54.6	55.7	47.4	45.2	47.0	47.3	43.2

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.			
	Maximum	Minimum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h		Maximum	Minimum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h
	MAY											JULY									
	°	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°
1	56.3	37.3	48.6	53.4	55.3	42.0	43.5	45.1	46.1	38.2	1	71.2	56.4	61.8	69.6	69.3	56.4	58.3	61.5	61.4	53.0
2	56.6	38.3	43.3	49.1	56.3	44.0	40.7	42.7	47.1	41.5	2	72.6	53.6	64.9	68.0	72.6	61.4	60.5	62.7	63.3	57.8
3	67.4	37.7	52.6	62.0	66.6	46.0	42.5	47.7	51.6	41.8	3	74.3	55.3	68.5	72.6	66.1	62.5	59.8	62.8	61.1	58.1
4	64.0	38.7	49.3	56.1	62.8	46.4	43.1	46.7	49.1	43.0	4	72.4	59.0	62.5	69.9	71.5	63.8	59.1	59.9	61.1	58.7
5	71.1	39.9	60.2	68.2	70.6	58.7	50.4	54.0	51.3	47.4	5	79.5	56.5	70.2	75.9	77.7	63.5	62.4	64.7	65.0	56.0
6	74.4	43.3	58.0	69.6	74.2	58.6	45.9	49.9	52.3	49.0	6	73.2	56.9	63.2	67.7	73.0	60.6	56.5	59.0	58.7	54.9
7	74.1	45.4	62.0	69.8	74.1	50.1	49.1	49.7	53.7	45.9	7	73.6	55.8	64.2	71.8	72.8	60.6	56.4	59.1	59.6	55.2
8	53.8	41.1	48.9	53.3	53.0	41.4	43.2	44.8	42.8	38.4	8	71.3	52.3	63.8	64.9	68.8	57.3	55.2	54.7	56.8	54.4
9	58.0	39.3	48.8	56.2	57.4	47.6	43.6	45.7	44.4	41.6	9	74.5	55.0	60.1	67.0	74.5	61.5	55.6	58.0	60.7	56.5
10	58.6	39.4	51.6	57.6	52.8	49.4	46.1	48.5	47.8	48.0	10	61.5	53.9	57.2	57.4	58.0	54.3	56.2	56.2	55.5	52.7
11	64.8	49.2	54.4	59.9	63.2	52.3	52.0	53.5	54.4	50.0	11	67.0	50.5	56.7	58.6	66.2	58.2	52.2	53.2	56.4	52.4
12	53.0	44.6	47.6	50.2	53.0	47.5	45.2	47.2	48.7	46.5	12	68.8	48.4	62.6	65.3	67.0	56.0	54.9	55.0	58.0	52.7
13	57.0	44.4	45.9	46.6	55.9	48.0	45.1	45.6	51.8	46.2	13	72.9	50.8	66.0	68.6	69.7	63.2	56.7	58.8	59.7	59.0
14	58.0	46.5	49.9	55.1	54.5	50.9	46.9	49.9	49.4	48.3	14	70.7	58.6	65.6	67.7	68.3	61.8	58.8	59.1	57.2	54.7
15	64.1	42.4	51.0	61.6	62.0	54.9	48.9	54.8	53.0	50.0	15	71.0	53.3	63.1	65.6	68.2	61.5	54.1	54.9	56.3	55.1
16	68.5	51.4	58.9	65.1	67.7	55.7	54.2	56.3	57.9	51.3	16	74.0	54.8	64.1	71.0	72.1	61.6	61.2	63.7	60.5	56.2
17	66.7	45.6	61.3	66.2	64.0	56.6	54.2	55.8	55.2	52.0	17	61.2	53.5	56.8	54.3	55.6	53.8	51.2	53.0	54.6	52.0
18	69.9	54.8	62.4	68.1	67.4	56.4	58.3	61.4	58.7	53.0	18	58.0	52.1	52.9	58.0	57.4	54.4	51.5	55.4	55.1	52.4
19	68.8	52.1	58.3	64.6	68.4	55.3	52.9	55.5	57.2	51.2	19	70.1	50.8	53.6	64.8	69.9	60.7	49.1	55.5	57.5	56.5
20	67.8	46.4	62.0	67.2	62.4	52.0	54.9	57.2	56.0	49.8	20	68.9	57.3	60.2	66.0	67.2	66.3	57.0	60.3	61.1	61.6
21	56.4	46.8	53.0	53.1	54.0	51.8	50.4	52.1	52.4	50.4	21	77.6	62.9	66.0	70.3	76.0	68.9	61.5	63.1	63.7	63.1
22	64.9	43.2	60.2	60.5	61.3	52.6	54.7	55.1	56.5	51.1	22	68.9	59.7	64.2	65.5	66.9	62.2	60.0	59.6	60.7	58.2
23	60.3	48.1	57.8	59.4	58.6	54.2	51.4	53.2	53.3	52.4	23	68.2	57.8	62.3	64.6	65.8	62.4	56.1	56.7	57.5	57.3
24	58.6	46.1	53.7	55.6	58.2	52.8	47.1	49.5	51.7	49.9	24	73.6	55.7	65.1	65.3	71.3	60.0	58.4	60.6	63.2	57.0
25	61.0	46.9	55.8	56.9	55.6	47.2	50.2	50.8	52.0	46.0	25	74.3	57.5	63.4	72.1	73.4	61.6	56.4	60.3	60.2	53.0
26	58.3	45.4	52.6	55.6	51.7	49.2	47.3	48.0	50.6	46.8	26	70.2	51.0	63.7	66.2	67.0	60.0	56.2	55.7	56.5	55.0
27	63.2	48.1	57.9	60.9	60.3	56.6	51.6	52.5	52.9	53.6	27	64.0	54.1	62.1	58.1	60.6	56.7	61.7	56.1	56.4	53.4
28	63.9	52.2	56.5	62.1	62.0	52.6	50.8	54.1	52.7	49.6	28	73.4	45.4	62.6	69.7	69.1	58.2	57.4	60.3	59.1	53.4
29	62.0	50.2	57.1	61.5	61.0	50.5	50.4	53.3	52.4	48.6	29	74.0	52.3	62.3	64.1	69.3	64.6	58.5	61.0	62.9	58.1
30	63.6	46.2	55.6	56.1	61.6	54.6	49.5	51.5	53.5	51.8	30	73.9	50.7	64.3	69.5	73.0	59.8	57.1	58.9	59.7	58.2
31	61.9	48.8	55.0	60.1	59.6	53.2	50.7	53.3	51.3	47.9	31	72.7	52.4	67.9	72.5	71.3	58.8	58.3	59.9	56.1	55.8
Means	62.8	45.2	54.5	59.4	60.8	51.3	48.9	51.1	51.9	47.8	Means	70.9	54.3	62.6	66.5	68.7	60.4	57.0	58.7	59.2	55.9
	JUNE											AUGUST									
	°	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°
1	70.6	40.4	60.3	64.8	69.6	57.6	51.0	52.6	57.3	53.1	1	79.3	51.4	65.7	74.2	78.8	65.0	61.3	61.9	65.7	61.6
2	75.5	51.6	59.7	64.8	74.1	65.2	54.7	57.9	62.6	60.1	2	71.8	53.9	60.5	68.0	70.8	60.5	59.2	60.5	61.8	57.4
3	81.2	51.9	70.2	76.3	79.6	65.6	60.7	62.5	64.4	61.4	3	75.0	54.5	63.5	71.9	68.0	56.0	59.3	60.9	60.0	52.8
4	82.0	53.9	73.4	79.6	80.4	65.6	64.2	62.9	66.2	59.2	4	61.2	52.0	55.3	58.5	59.8	54.3	50.2	50.2	52.4	49.9
5	82.1	54.4	72.7	81.0	81.2	66.3	61.0	65.8	63.2	58.3	5	65.1	48.3	57.3	60.6	63.5	57.7	50.3	51.8	52.5	52.4
6	86.2	55.5	71.9	82.1	82.9	71.7	64.1	66.1	70.9	65.3	6	67.5	52.3	60.5	64.0	65.2	57.4	53.6	54.5	55.2	53.6
7	71.7	54.6	59.2	66.1	66.4	57.5	49.8	51.9	53.6	48.7	7	67.4	52.3	64.6	65.2	63.8	63.6	58.6	60.1	61.3	60.6
8	64.5	47.9	56.2	58.9	63.2	55.4	48.4	49.9	51.2	47.8	8	65.4	59.2	63.2	64.6	62.6	60.2	59.5	58.3	59.5	58.7
9	60.0	48.6	57.3	57.0	57.6	52.9	48.1	47.6	49.7	48.1	9	74.0	56.2	64.3	68.4	70.6	60.0	59.3	59.2	60.8	58.6
10	59.1	45.4	54.9	55.8	57.3	51.0	47.7	48.5	49.7	47.2	10	65.4	54.3	63.0	63.6	64.2	61.2	59.4	59.0	60.7	58.4
11	60.9	42.4	54.3	57.6	60.0	50.1	46.7	48.5	50.2	45.3	11	71.2	56.2	62.9	69.2	57.9	60.0	57.3	57.9	56.3	55.0
12	53.0	48.4	52.3	52.2	51.9	49.0	50.9	51.2	50.2	48.4	12	69.1	53.6	63.4	63.8	64.9	59.6	57.0	56.8	56.1	54.6
13	60.2	48.3	55.7	57.9	57.5	54.2	50.1	51.0	51.0	49.8	13	68.3	55.4	60.1	67.3	66.2	60.9	55.2	57.6	57.2	56.7
14	63.6	44.8	55.4	59.8	60.7	50.0	50.2	49.2	49.5	48.2	14	74.0	55.7	64.4	71.2	72.2	62.6	60.0	61.7	62.7	60.0
15	57.8	43.9	52.2	57.0	57.0	54.2	48.7	50.1	50.3	49.4	15	73.7	58.9	69.0	73.3	69.0	64.8	62.2	64.1	63.5	62.2
16	65.5	49.2	52.5	63.3	65.2	52.9	47.8	52.3	53.6	50.3	16	75.0	60.0	63.0	66.9	74.0	60.0	61.5	61.6	63.4	56.8
17	67.8	49.3	58.9	65.0	66.6	62.0	51.6	53.5	53.5	54.0	17	75.8	50.3	62.4	70.1	75.2	61.3	55.1	58.1	59.4	57.7
18	62.4	51.2	58.6	59.1	61.1	58.0	53.3	54.7	55.5	55.7	18	83.2	50.1	67.9	77.8	81.4	68.7	57.4	63.2	68.3	64.7
19	64.6	52.1	54.6	59.2	63.0	52.8	51.6	53.7	55.9	50.0	19	77.0	63.4	71.4	75.0	72.0	64.0	61.3	63.6	63.0	61.6
20	74.5	45.2	59.6	69.1	73.4	62.0	54.9	59.7	62.9	58.2	20	71.3	55.5	63.7	68.0	68.6	57.7	56.3	58.0	58.6	54.1
21	79.3	51.6	69.9	76.7	79.2	66.2	61.7	63.4	66.2	60.2	21	69.6	53.1	64.9	69.1	64.3	61.0	58.4	58.3	57.6	59.0
22	81.4	54.4	73.6	78.4	81.4	65.6	62.1	63.2	64.2	60.2	22	71.4	55.4	64.6	70.5	66.6	55.4	59.0	60.0	58.0	54.4
23	85.4	55.3	75.1	81.4	84.2	68.4	62.5	65.0	64.9	61.4	23	66.5	55.2	59.6	61.7	63.0	56.5	55.6	56.5	58.0	55.0
24	72.0	57.2	64.1	70.2	70.6	57.4	55.1	58.3	59.0	54.1	24	72.8	54.1	60.9	66.5	71.1	56.2	58.5	59.9	61.4	53.4
25	63.9	52.6	60.6	62.9	61.7	52.6	53.3	53.6	53.5	49.9	25	71.7	54.6	63.9	68.6	70.0	65.6	63.0	65.6	66.8	64.3
26	74.1	42.2	59.7	70.2	70.7	64.0	51.9	57.4	59.2	56.5	26	73.5	61.7	68.2	69.6	70.2	62.8	65.0	66.6	66.1	62.0
27	70.8	47.8	65.9	68.2	68.3	62.1	57.5	57.2	57.2	55.3	27	85.0	60.5	71.8	81.4	83.9	68.3	67.7	71.3	68.7	64.7
28	74.5	53.3	65.3	68.4	73.0	63.8	58.0	60.4	61.2	57.8	28	88.2	61.7	76.6	86.6	87.7	70.5	68.0	70.9	69.7	65.4
29	83.8	53.3	68.9	78.2	83.0	69.6	59.6	62.6	65.4	62.9	29	84.8	60.3	75.5	82.5	84.3	66.4	67.4	67.9	69.0	65.4
30	84.0	59.3	73.4	80.5	80.1	65.3	65.5	65.9	67.6	62.8	30	74.5	61.8	67.2	69.4	69.4	61.8	64.2	64.0	63.2	59.7
											31	74.0	56.4	64.6	68.9	71.1	62.0	63.5	65.3	64.8	60.4
Means	71.1	50.2	62.2	67.4	69.4	59.6	54.8	56.6	58.0	54.7	Means	73.0	55.8	64.6	69.6	70.0	61.4	59.5	60.8	61.3	58.4

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.			
	Maximum	Minimum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h
SEPTEMBER										
1	74.8	60.2	64.3	70.3	74.6	62.2	61.8	62.9	64.2	60.2
2	71.7	56.3	63.5	67.4	69.6	57.8	57.7	59.4	60.6	56.0
3	69.4	56.0	69.1	65.6	68.9	62.7	63.6	64.0	64.2	60.2
4	69.7	52.8	61.1	68.3	68.4	57.2	54.5	56.5	58.4	54.5
5	71.3	55.5	64.6	69.9	65.5	60.0	57.3	59.2	57.5	58.4
6	67.6	48.5	59.4	66.2	63.6	57.0	53.9	55.7	54.6	51.6
7	70.0	46.4	61.0	65.7	67.4	59.5	53.8	54.2	55.6	54.5
8	73.4	53.9	62.2	69.6	73.4	59.4	56.9	60.0	61.6	57.0
9	70.0	53.5	58.5	62.0	67.9	61.5	57.7	60.7	62.0	57.4
10	71.1	49.5	56.2	68.6	70.1	53.7	54.6	58.6	60.3	53.0
11	77.4	48.2	56.6	71.2	76.1	63.3	55.6	62.5	66.1	61.2
12	71.7	53.5	60.3	65.4	71.7	62.2	58.3	62.3	65.0	57.0
13	65.6	57.1	59.8	63.6	64.4	60.2	56.1	58.4	59.0	56.5
14	66.1	57.3	58.8	62.5	65.5	61.7	57.6	59.9	61.8	60.7
15	67.7	55.8	60.2	63.4	67.4	55.8	57.3	52.6	54.8	49.7
16	67.1	46.2	56.8	63.3	64.3	57.0	50.1	52.9	54.1	53.0
17	66.2	51.2	59.9	63.6	65.6	61.8	56.5	58.2	59.3	58.8
18	67.6	55.2	61.6	64.8	65.6	58.8	58.0	58.3	58.0	55.3
19	72.0	53.8	60.6	67.0	71.7	58.8	54.4	59.2	61.7	57.1
20	67.6	57.8	63.8	66.0	64.0	61.4	61.3	62.5	61.7	58.7
21	62.6	55.3	57.4	60.5	62.0	55.3	56.6	58.6	58.3	54.8
22	58.1	52.4	55.7	54.4	57.3	56.0	52.8	50.2	52.9	53.6
23	66.0	51.2	59.4	64.1	60.0	51.2	53.8	54.4	53.3	47.6
24	64.0	46.4	56.7	61.6	54.0	46.4	51.7	52.9	49.9	45.6
25	59.4	42.3	49.0	55.5	56.2	46.2	47.4	51.2	49.8	44.4
26	59.0	44.0	49.6	57.1	55.3	52.3	46.7	51.3	51.5	50.0
27	64.8	47.5	50.8	60.6	63.0	51.8	48.8	55.2	56.4	50.3
28	54.3	47.3	50.6	53.1	53.7	50.6	49.8	52.3	52.7	50.0
29	60.8	46.8	51.6	52.9	59.8	46.8	49.6	51.8	55.4	45.8
30	60.0	45.6	51.2	55.6	59.4	53.5	50.6	54.0	55.1	52.6
Means	66.9	51.6	58.3	63.3	64.9	56.7	54.8	57.0	57.9	54.2
OCTOBER										
1	68.2	50.2	57.3	61.2	67.1	50.2	56.0	57.6	57.9	49.2
2	69.3	41.8	53.5	65.6	68.7	52.4	51.2	57.1	58.3	51.3
3	67.6	43.4	51.9	64.2	64.6	52.0	50.7	55.4	57.6	51.1
4	68.5	49.5	56.9	62.2	68.2	59.5	56.3	60.0	63.4	58.4
5	65.6	57.0	60.1	61.4	65.2	59.7	58.2	59.7	61.4	57.7
6	59.7	50.9	52.4	54.6	55.3	54.1	47.5	49.2	50.4	51.1
7	67.1	54.1	60.0	66.2	64.1	61.0	59.6	63.4	62.1	59.8
8	61.0	48.2	59.4	53.1	56.6	48.2	56.3	50.2	48.3	45.0
9	57.8	42.6	51.4	55.4	56.9	55.2	46.6	50.1	51.9	50.9
10	63.4	51.8	58.3	60.4	62.5	51.8	54.5	56.4	52.8	48.5
11	56.8	45.5	50.6	53.7	55.6	46.5	45.9	46.2	47.4	44.0
12	59.0	35.8	51.4	56.6	55.7	52.0	46.5	50.0	49.9	49.7
13	58.4	45.9	52.1	55.9	56.7	45.9	49.7	51.5	50.2	44.4
14	66.0	44.0	56.4	62.6	61.5	58.4	52.7	58.7	58.0	55.7
15	61.4	50.2	52.5	58.6	59.6	50.2	47.6	50.6	51.2	47.8
16	60.9	46.6	54.0	58.8	58.5	53.4	49.5	52.6	52.5	50.7
17	59.1	49.1	53.8	58.4	57.5	58.7	50.3	54.2	54.7	55.6
18	61.6	56.5	58.9	60.2	61.3	58.1	56.2	56.2	57.7	56.2
19	64.7	53.9	54.5	56.1	63.9	57.8	54.3	55.0	57.9	55.4
20	59.0	46.4	51.4	58.5	56.4	51.3	50.2	55.3	55.6	47.9
21	56.0	44.9	49.0	54.2	54.6	50.8	45.7	48.3	47.9	48.2
22	62.1	50.3	57.4	59.8	61.6	60.2	55.1	57.0	58.5	57.2
23	64.4	57.7	60.6	63.4	62.3	59.8	58.3	59.3	59.7	57.2
24	59.8	45.6	51.8	56.0	52.4	45.6	48.6	49.1	46.4	43.0
25	55.6	37.0	47.4	52.0	52.0	45.7	43.9	48.8	48.0	43.5
26	51.2	40.6	45.6	43.9	45.3	40.6	45.0	42.8	45.0	39.4
27	54.4	35.3	44.8	53.1	52.7	40.7	43.3	48.8	48.6	40.1
28	49.2	38.4	42.5	48.3	48.5	45.9	42.3	46.8	47.7	45.2
29	47.8	41.4	44.0	46.6	47.6	46.6	42.7	44.9	45.5	45.4
30	56.9	45.6	53.0	52.6	54.6	50.7	51.9	51.8	52.8	49.5
31	50.7	45.3	46.9	48.6	47.8	45.3	44.5	45.3	44.8	43.2
Means	60.1	46.6	52.9	56.8	57.9	51.9	50.4	52.7	53.0	49.8

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground.						Wet-Bulb Thermometers, 4 ft. above the Ground.			
	Maximum	Minimum	9^h	12^h	15^h	21^h	9^h	12^h	15^h	21^h
NOVEMBER										
1	47.0	38.1	43.1	47.0	43.8	39.8	41.7	43.3	42.3	38.2
2	49.9	34.9	38.8	46.9	47.6	42.2	36.9	41.4	42.3	40.2
3	49.5	37.5	44.6	47.8	48.0	37.5	43.6	45.2	44.8	37.1
4	42.2	34.9	36.3	39.0	40.7	42.2	36.2	38.6	40.4	41.8
5	48.7	40.9	45.4	47.5	47.6	48.7	45.0	47.1	47.1	48.6
6	51.5	44.5	45.6	49.3	50.1	46.7	43.6	45.3	44.7	44.7
7	54.6	44.0	52.2	52.4	52.0	44.0	51.3	50.4	47.2	42.6
8	51.4	38.4	42.4	49.4	50.7	39.0	40.4	45.2	45.0	38.5
9	52.5	32.9	36.4	48.1	51.2	39.0	35.7	45.4	47.3	38.4
10	54.2	35.3	42.6	52.4	50.2	37.9	41.9	47.4	46.2	37.2
11	44.0	31.1	32.2	38.5	43.5	35.8	32.0	38.3	42.9	35.8
12	45.7	35.0	38.3	43.8	42.6	38.1	37.7	41.7	41.4	37.8
13	47.0	38.0	41.6	45.6	46.4	42.8	40.8	44.2	44.4	41.8
14	42.8	32.3	32.9	38.1	39.3	39.3	32.4	37.3	38.3	38.5
15	46.8	37.7	42.6	46.0	46.8	45.8	41.9	44.7	45.7	44.6
16	47.0	39.4	41.9	45.2	45.0	39.4	39.8	42.1	40.6	36.1
17	44.0	36.6	38.3	43.5	43.6	40.5	36.1	39.9	40.3	38.3
18	48.0	33.3	37.0	45.6	47.2	46.5	36.1	42.0	43.2	45.2
19	46.5	44.2	45.5	46.0	45.6	44.6	44.5	43.8	43.5	41.8
20	50.0	43.3	45.1	49.0	49.2	47.2	42.5	45.4	46.0	45.5
21	47.2	36.2	44.6	44.7	43.0	36.4	42.1	41.7	40.4	34.5
22	36.7	29.4	32.0	34.5	31.8	33.0	30.9	33.3	31.2	31.8
23	41.6	26.5	29.3	37.2	40.2	41.6	28.3	34.7	38.2	40.0
24	44.8	36.3	37.7	40.5	44.1	44.8	37.2	39.6	42.2	44.3
25	48.4	43.8	45.8	48.4	47.2	45.2	44.7	45.7	45.3	43.4
26	46.7	40.5	42.0	45.6	45.8	42.4	40.9	43.3	42.8	40.9
27	46.8	41.3	43.2	45.4	46.2	44.6	42.5	44.4	44.8	42.3
28	44.6	39.4	42.3	42.6	42.3	39.4	40.5	39.3	39.1	35.8
29	46.8	34.3	38.7	45.6	46.7	45.2	36.7	41.9	43.9	43.4
30	45.2	33.3	37.8	40.0	35.6	39.2	35.4	35.7	34.2	38.0
Means	47.1	37.1	40.5	44.9	45.1	41.6	39.3	42.3	42.5	40.2
DECEMBER										
1	49.0	39.2	42.3	48.7	49.0	43.2	40.0	44.5	44.9	41.4
2	43.2	26.6	34.6	37.0	36.2	26.6	32.8	32.8	31.8	25.7
3	37.7	26.6	33.2	36.8	36.8	37.2	31.5	34.3	34.7	35.7
4	47.0	35.6	38.6	45.2	43.2	36.7	37.0	41.9	39.3	34.7
5	49.5	36.7	44.8	44.3	46.0	46.5	43.9	42.7	40.4	43.2
6	49.7	42.3	42.6	47.0	49.0	49.2	41.3	44.0	45.6	47.4
7	52.7	49.2	50.5	52.0	52.7	50.8	47.1	48.1	48.2	49.4
8	53.6	50.4	51.7	52.8	52.8	53.4	49.7	50.0	50.0	51.6
9	53.4	46.2	46.7	50.3	46.6	46.3	44.7	46.7	44.0	43.7
10	53.2	45.9	50.6	52.3	50.8	50.0	49.6	50.0	47.8	46.6
11	54.0	48.0	52.2	53.3	52.6	48.8	48.7	49.9	48.8	47.4
12	50.5	43.3	45.1	48.1	49.0	47.6	43.6	45.0	46.2	45.3
13	53.8	47.6	50.7	53.6	53.0	51.4	48.7	50.9	50.8	49.4
14	53.3	48.3	50.0	52.3	50.6	48.8	48.4	49.6	48.3	47.7
15	50.2	45.7	46.7	49.9	49.9	45.7	46.2	48.3	47.1	44.0
16	49.5	45.6	48.6	47.9	46.6	48.8	46.6	45.7	45.7	47.8
17	53.3	46.0	50.2	52.3	50.5	46.0	48.8	49.4	48.3	45.2
18	47.7	43.6	46.8	46.9	46.7	46.0	46.4	46.4	46.3	45.5
19	48.1	41.6	42.2	44.6	47.6	45.6	41.6	43.4	46.2	44.4
20	51.3	37.3	40.1	48.8	50.3	48.0	39.0	45.7	46.2	45.6
21	53.7	48.0	52.0	53.5	53.3	51.6	50.7	51.1	51.6	51.1
22	54.2	42.0	52.7	51.7	50.5	42.0	51.6	49.0	46.3	40.0
23	51.9	34.2	34.7	49.4	48.7	44.8	34.5	46.2	46.3	44.2
24	50.6	35.5	43.4	48.1	47.3	36.3	42.4	44.6	44.4	35.8
25	39.4	31.9	34.8	39.3	38.6	35.0	33.7	37.9	36.9	34.3
26	35.2	31.7	33.6	32.1	32.4	33.0	32.7	31.1	31.5	32.1
27	38.0	32.3	35.1	37.1	38.0	37.4	34.3	35.3	36.4	36.4
28	46.9	37.0	38.3	41.1	43.7	46.5	37.0	39.2	42.0	45.3
29	46.5	33.7	39.2	39.5	38.1	33.7	36.6	34.7	33.3	30.0
30	38.0	31.3	32.6	36.5	37.0	32.7	30.4	33.6	33.8	30.6
31	44.3	31.4	40.3	43.2	43.6	41.4	38.2	39.6	40.2	38.8
Means	48.4	39.8	43.4	46.3	46.2	43.6	41.9	43.6	43.3	41.9

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

1942	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	39.1	36.5	36.0	26.9	47.4	31.7	53.6	45.8	58.3	36.2	64.4	39.2	85.2	58.3	75.6	49.5	75.4	59.1	61.2	51.2	51.1	36.2	42.2	33.2
2	44.0	38.3	34.5	28.5	36.5	29.5	56.6	40.2	58.8	37.5	72.0	50.9	73.5	53.2	82.0	52.5	75.6	55.9	69.5	41.2	47.3	34.2	49.3	33.1
3	46.9	42.5	32.0	27.1	44.4	28.2	56.6	36.8	59.2	35.7	78.0	50.9	74.1	54.2	73.9	53.7	72.0	55.6	69.9	42.8	49.2	37.9	37.0	26.2
4	47.6	42.9	42.3	31.2	53.5	34.0	55.9	37.2	69.5	37.1	84.0	52.4	75.6	58.3	78.0	50.9	69.5	52.5	67.8	47.6	51.1	34.3	41.1	33.4
5	52.1	34.7	34.4	29.2	41.0	32.2	54.5	43.9	65.2	39.0	84.2	53.1	74.0	55.5	63.4	46.2	70.9	55.2	69.3	56.7	45.2	35.9	49.4	35.2
6	39.3	30.7	32.3	30.1	32.2	29.1	58.0	42.3	72.7	42.9	84.2	53.9	81.1	56.6	66.3	51.4	71.5	47.4	66.5	50.8	49.1	44.4	47.4	41.8
7	37.3	24.3	31.8	28.5	30.6	25.0	57.4	45.7	76.2	45.4	88.9	55.3	74.5	55.2	69.1	51.6	69.5	45.6	60.0	52.2	53.6	44.9	51.3	42.0
8	38.0	26.2	..	24.9	36.9	23.1	56.1	41.5	76.3	40.3	71.0	47.1	75.7	52.0	68.7	58.9	70.7	53.5	68.2	54.2	55.0	37.8	52.9	50.1
9	40.0	34.1	33.2	23.4	51.7	36.3	53.7	40.3	56.2	38.7	66.3	47.8	72.7	54.0	67.5	55.9	74.0	53.2	60.7	42.2	51.2	32.2	53.7	45.8
10	39.0	32.6	39.1	33.1	57.5	31.7	52.5	47.0	60.3	38.7	62.0	43.4	75.6	55.0	75.6	53.8	71.7	48.2	58.3	51.8	52.0	34.1	51.6	45.3
11	37.2	19.6	45.5	28.4	45.5	29.7	59.7	36.8	59.9	48.6	61.7	41.4	58.7	50.2	65.8	55.7	72.3	46.3	64.8	44.8	53.0	30.9	53.3	49.1
12	33.4	18.3	36.7	26.3	42.0	34.6	63.3	40.7	66.6	44.7	64.2	48.1	68.2	47.4	72.2	53.2	78.3	52.3	57.9	35.3	44.2	32.4	53.9	44.5
13	36.7	22.7	46.5	34.8	39.4	31.4	65.4	44.2	54.0	44.2	58.0	47.8	71.3	50.1	70.5	55.2	72.7	57.0	58.9	51.2	44.9	37.2	50.9	43.2
14	35.9	26.9	40.6	28.2	51.9	36.3	59.8	42.7	57.6	46.0	62.7	44.3	74.6	58.2	69.9	55.2	67.1	57.1	59.1	43.2	47.1	31.2	53.8	47.9
15	31.3	16.2	41.2	31.5	..	..	58.9	41.6	59.0	41.2	65.6	41.6	72.3	52.5	74.8	58.7	66.3	56.4	66.0	51.1	43.0	32.2	52.9	46.2
16	34.0	17.6	41.2	28.3	..	..	58.3	37.5	67.0	51.2	59.7	49.2	73.1	54.6	74.7	60.4	68.0	45.9	61.2	46.2	47.5	40.2	50.3	45.2
17	33.3	28.5	36.0	30.5	53.7	50.6	57.7	38.5	71.1	44.8	66.6	48.8	75.0	54.7	77.5	49.4	68.3	50.6	61.4	48.7	45.7	35.8	50.4	46.4
18	30.4	22.9	34.8	29.0	58.5	46.6	58.9	41.2	68.0	54.5	70.0	51.2	58.1	52.0	78.2	49.4	66.6	54.7	59.2	54.0	44.4	32.8	53.0	43.3
19	33.3	27.8	31.6	27.2	57.0	47.0	67.7	41.2	71.3	51.4	63.2	52.0	58.4	50.4	85.2	62.0	68.6	53.3	62.2	53.8	48.1	35.9	47.5	42.2
20	32.8	22.2	35.6	28.2	56.5	38.6	67.4	43.5	70.2	45.5	66.9	44.4	71.6	53.8	78.1	55.2	73.5	57.2	64.4	45.2	46.3	43.2	48.0	36.9
21	28.8	13.8	33.9	28.7	48.8	40.9	63.9	45.3	70.0	45.2	76.6	51.1	70.6	60.5	72.5	52.6	68.5	55.6	59.2	44.3	50.2	43.2	52.2	39.2
22	27.7	19.6	30.2	21.7	44.7	34.7	56.9	43.8	62.5	42.6	81.2	53.4	79.0	59.2	70.5	56.5	63.6	52.4	57.1	48.9	45.0	28.3	54.5	51.3
23	32.6	18.7	31.9	23.5	39.8	31.2	62.1	42.1	67.8	47.1	83.7	54.7	69.2	57.3	71.9	53.9	60.6	52.4	62.2	57.2	36.8	25.6	52.3	34.5
24	44.6	32.5	33.0	29.2	51.5	32.6	60.8	38.4	61.4	45.6	87.0	56.7	69.7	55.3	68.3	53.2	66.2	47.7	65.0	51.2	43.5	28.4	50.4	35.7
25	44.6	37.2	36.0	29.6	54.5	29.0	56.0	39.0	60.3	47.2	74.2	52.7	74.7	57.2	74.9	54.4	63.7	41.5	57.5	37.3	46.0	36.5	49.0	30.8
26	45.1	35.5	37.2	29.3	62.4	36.4	55.3	40.4	61.8	44.7	66.1	41.1	75.7	50.4	73.7	60.8	60.4	43.9	55.3	41.5	48.7	39.8	39.6	33.4
27	38.0	17.2	..	..	52.3	34.8	58.0	44.2	60.1	47.6	76.5	46.5	71.5	53.4	75.0	59.8	61.0	47.2	51.2	36.0	47.2	41.2	35.4	31.9
28	40.3	23.2	38.0	27.6	49.9	34.8	61.2	45.5	64.4	51.8	72.9	52.6	64.8	44.3	87.0	60.1	66.1	45.5	53.7	37.2	46.5	41.3	38.9	35.3
29	43.0	32.2			47.0	31.6	55.3	42.8	65.0	49.3	76.6	51.6	75.1	51.3	89.6	59.7	53.6	48.6	50.0	40.3	44.1	33.5	47.1	36.3
30	40.3	26.7			57.0	36.2	53.3	38.3	63.1	45.8	84.9	58.2	75.9	49.2	86.8	63.2	61.3	45.2	53.0	43.4	47.1	36.4	39.8	31.0
31	40.6	32.6			59.4	45.7			65.7	48.4			76.9	50.2	75.1	55.3			56.0	45.1			40.2	31.3
Means	38.3	27.6	36.4	28.3	48.4	34.6	58.5	41.6	64.5	44.5	72.4	49.4	72.5	53.7	74.6	55.1	68.2	51.2	60.9	46.7	47.5	35.9	48.0	39.4

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1942

Gauges partly sunk in the Ground in the Christie Enclosure	Monthly Amount of Rain collected in each Gauge													Height of Receiving Surface	
	Number of Gauge	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Sums	Above the Ground	Above Mean Sea Level
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
	6	2.127	0.975	2.135	0.890	2.834	0.341	1.865	1.977	1.129	4.187	2.133	2.309	22.902	0 5	149 6
	8	2.075	0.945	2.124	0.890	2.810	0.340	1.827	1.956	1.088	4.193	2.121	2.273	22.642	1 0	150 1
Number of Rainy Days (0.005 in. or over)		13	7	11	6	20	4	12	18	15	19	9	17	151	..	..

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

Hour Ending	January	February	March	April	May	June	July	August	September	October	November	December	Mean for the Year
h	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles	miles
1	10.5	11.4	9.3	13.4	10.0	6.9	9.3	7.5	7.7	10.5	7.2	12.8	9.7
2	10.7	10.7	9.0	12.4	9.6	6.4	9.1	7.2	7.8	9.9	7.3	12.3	9.4
3	10.8	10.4	8.8	12.6	9.4	6.2	8.9	6.5	7.5	10.1	7.5	12.1	9.2
4	11.4	10.5	9.3	12.7	9.1	6.1	8.6	6.8	8.1	9.8	7.5	12.2	9.3
5	11.5	10.9	9.3	12.9	9.2	6.2	9.4	6.6	7.8	9.8	7.4	12.3	9.4
6	12.0	11.0	8.7	12.5	9.4	6.0	9.7	6.4	8.0	9.2	7.2	11.9	9.3
7	11.6	11.3	9.3	12.8	10.9	6.3	9.9	6.5	8.2	9.4	7.5	11.9	9.6
8	10.4	11.9	9.2	14.2	11.4	6.9	10.8	6.7	8.7	9.4	7.1	12.2	9.9
9	11.1	12.5	9.6	15.8	11.8	7.5	11.3	7.7	9.8	10.0	7.5	11.5	10.5
10	11.2	12.4	10.0	16.7	11.7	7.5	11.7	8.5	10.0	10.3	7.0	11.5	10.7
11	11.2	12.9	10.7	17.4	12.5	8.1	12.0	9.1	10.9	10.9	7.2	11.5	11.2
12	11.8	12.8	10.9	18.4	13.0	8.3	13.1	10.0	10.9	12.0	7.4	12.3	11.7
13	12.2	12.5	11.5	18.9	13.3	7.8	12.1	10.0	11.1	11.7	7.5	12.6	11.8
14	12.1	12.3	10.9	19.4	13.1	8.3	13.4	10.7	11.0	12.0	7.4	12.4	11.9
15	12.2	13.0	10.9	19.9	13.6	8.9	14.3	11.4	11.0	11.9	7.3	12.7	12.3
16	12.1	12.3	10.7	19.9	13.6	9.0	14.5	11.4	11.2	11.6	7.8	11.9	12.2
17	12.4	12.7	10.9	18.9	13.8	9.6	13.9	11.3	10.8	11.5	7.5	11.8	12.1
18	11.9	12.5	10.8	18.2	13.6	9.5	13.0	10.1	10.3	11.2	8.0	11.6	11.7
19	11.6	12.3	10.1	16.7	12.8	9.5	12.5	9.1	9.5	11.4	8.0	11.5	11.3
20	11.7	12.1	10.2	15.3	11.9	8.4	11.9	9.2	9.0	11.8	8.1	12.0	11.0
21	10.8	11.6	10.0	15.0	11.2	8.0	10.4	8.8	8.8	11.5	8.0	12.1	10.5
22	10.5	11.6	10.3	13.6	11.0	7.3	10.3	8.3	8.7	10.7	7.5	12.1	10.2
23	9.5	11.7	9.6	13.9	10.5	6.7	9.7	8.4	8.8	10.8	7.3	12.0	9.9
24	9.5	11.0	9.3	13.2	9.6	7.0	9.0	7.4	8.0	10.9	7.1	12.1	9.5
Means	11.3	11.8	10.0	15.6	11.5	7.6	11.2	8.6	9.3	10.8	7.5	12.1	10.6
Greatest Hourly Measures	30	26	24	41	34	19	30	23	24	28	21	31	..

* 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.xvi.

C.B.H. 25583 - Wt. 3421 - Dd. - 360 - 12/54