

RESULTS OF THE MAGNETIC
AND METEOROLOGICAL
OBSERVATIONS

*Made at the Abinger Magnetic Station, Surrey,
and the Royal Observatory, Greenwich
respectively for the year*

1947

UNDER THE DIRECTION OF
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ASTRONOMER ROYAL

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CONTENTS

INTRODUCTION	Page
PERSONAL ESTABLISHMENT AND ARRANGEMENTS	v
 MAGNETIC SECTION	
GENERAL DESCRIPTION OF BUILDINGS AND INSTRUMENTS	v
REDUCTION AND ARRANGEMENT OF RESULTS	xi
 METEOROLOGICAL SECTION	
GENERAL	xiv
DESCRIPTION OF INSTRUMENTS	xiv
REDUCTION AND ARRANGEMENTS OF RESULTS	xviii
NOTATION AND SYMBOLS	xx
 RESULTS OF OBSERVATIONS IN TABULAR ARRANGEMENT	
MAGNETIC	
TABLE I. - Hourly Means of Declination West for each day of the year	D 2
TABLE II. - Hourly Means of Horizontal Component of Magnetic Intensity	D 8
TABLE III. - Hourly Means of Vertical Component of Magnetic Intensity	D 14
TABLE IV. - Daily Mean and Extreme Values of Magnetic Elements recorded by the Magnetographs	D 20
TABLE IV(A). - Three-Hour-Range Indices "K"	D 26
TABLE V. - Mean Diurnal Inequalities of the Magnetic Elements. All Days	D 28
TABLE VI. - Mean Diurnal Inequalities of the Magnetic Elements. International Quiet Days	D 30
TABLE VII. - Mean Diurnal Inequalities of the Magnetic Elements. International Disturbed Days	D 32
TABLE VIII, IX. - Harmonic Components of the Diurnal Inequality of Magnetic Intensity	D 34
TABLE X. - Range of Diurnal Inequalities for the Months, Years and Seasons	D 35
TABLE XI. - Monthly and Annual Value of Non-Cyclic Change in the Magnetic Elements	D 35
TABLE XII. - Mean Monthly and Annual Values of Magnetic Elements	D 35
TABLE XIII. - Daily Mean Value of the Base-Line of the Declination Magnetograms	D 36

MAGNETIC - <i>continued.</i>	Page
TABLE XIV. - Absolute Observations of Horizontal Intensity with the <i>Schuster-Smith</i> Coil Magnetometer; and Deduced Values of the Base-Line of the Horizontal Intensity Magnetograms	D 37
TABLE XV. - Absolute Observations of Vertical Intensity with the Dye Coil Magnetometer; and Deduced Values of the Base-Line of the Vertical Intensity Magnetograms	D 39
TABLE XV(A). - Daily Value of the Base-Line of the Vertical Intensity Magnetograms deduced from Observations of Dip with the Earth Inductor	D 41
TABLE XVI(A). - Magnetic Elements Determined at Greenwich between 1818-1925	D 42
TABLE XVI(B). - Magnetic Elements Determined at Greenwich between 1925-1947	D 43
Notes on Magnetic Activity	D 44
PLATES I - VI. - Photo-lithographed from tracings of the Photographic Registers of Magnetic Disturbances. (Following D 50).	
METEOROLOGICAL	
TABLE XVII. - Daily Results of the Meteorological Observations	D 58
TABLE XVIII(A). - Highest and Lowest Readings of the Barometer	D 82
TABLE XVIII(B). - Highest and Lowest Readings of the Barometer for each Month	D 82
TABLE XIX. - Monthly Results of Meteorological Elements	D 83
TABLE XX. - Monthly Mean Readings of the Barometer at every Hour of the Day	D 84
TABLE XXI. - Monthly Mean Temperature of the Air at every Hour of the Day	D 84
TABLE XXII. - Monthly Mean Temperature of Evaporation at every Hour of the Day	D 85
TABLE XXIII. - Monthly Mean Temperature of the Dew-Point at every Hour of the Day	D 85
TABLE XXIV. - Monthly Mean Degree of Humidity at every Hour of the Day	D 86
TABLE XXV. - Total Amount of Sunshine registered in each Hour of the Day in each Month	D 86
TABLE XXVI. - Readings of Thermometers in the Stevenson Screen in the Christie Enclosure	D 87
TABLE XXVII. - Readings of Thermometers of the Revolving Stand in the Christie Enclosure	D 90
TABLE XXVIII. - Amount of Rain collected in each Month by Gauges No.6 and No.8	D 90
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	D 91

THE ROYAL OBSERVATORY, GREENWICH,

AND

ABINGER MAGNETIC STATION, SURREY.

MAGNETIC AND METEOROLOGICAL OBSERVATIONS, 1947.

INTRODUCTION

STAFF

During the year 1947 the staff serving in the Magnetic and Meteorological Department consisted of W. M. Witchell, Superintendent, E. A. Chamberlain, W. Jackson, G. F. Wells, P. L. Rickerby, B. R. Leaton and Miss J. Mounteney. Mr. Chamberlain, resident observer and assistant-in-charge, and his assistant Mr. Rickerby, were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

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

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

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

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

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

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

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

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

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

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

A small Helmholtz-Gaugain coil, having a field of 7.43 gamma per milliamper and made to envelop the variometer, is used both to orientate the magnet correctly with respect to the earth's field and to determine the scale-value of the record. The orientation of the magnet was last examined on 1947 December 2 and was then correct within $0^{\circ}.6$. The adopted scale-value during 1947 was 4.35 gamma per millimetre.

The La Cour Declination Variometer. The general features of this instrument correspond closely to those of the variometer just described. The scale-value adopted during 1947 was $0'.92$ per millimetre. Expressed as magnetic intensity the scale-value would be 4.97 gamma per millimetre at the present time.

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

The Quick-run Variometers. These consist of a set of instruments closely resembling those described above and adapted by La Cour's method to record on a time scale of 3 mm. to one minute, i.e. twelve times as great as the normal scale. This recorder has been in regular use since 1938 November.

The Wide-range Variometers. Instruments formerly serving as standard variometers for Hand 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 con-

stitutes 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 $3'$. The telescope has a six-inch circle on which azimuths are read by means of two microscope-micrometers to $1''$. An azimuth mark is fixed on the top of a concrete pillar 10 feet high, erected at the northern extremity of the Observatory grounds at a distance of approximately 300 feet from the observing pier. Determinations of the azimuth of this mark are made at intervals by means of observations of Polaris. During each observation both direct and reflected views of the star are taken. The effect of error of level of the telescope is thus entirely eliminated. Reflection is obtained from the surface of mercury contained in a shallow copper dish.

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

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

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

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 1947 is based were verified in June 1947. 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 .

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 1947 for the measurement of the current were verified at the National Physical Laboratory in June 1947. The factor adopted for the conversion from international units to c.g.s. units was the same as for the *Schuster-Smith* coil (see p. x). The change on 1938 January 1 introduces a discontinuity of -3.9γ into the deduced values of Z .

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

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

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

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

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

K - Indices. In conformity with a resolution passed at the Washington Assembly of the International Association of Terrestrial Magnetism and Electricity in 1939 September, the magnetic character of each day is estimated by means of three-hour-range indices, the index "K" for each three-hour period from 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 Tables V to VII for the months, the year and the seasons. In 1932 a change was made which was inadvertently not noted at the time. Thenceforth the figures given for the *year and the seasons* are derived from Table X itself by meaning the values of the months constituting the particular group.

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

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

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

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.

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

The Photographic Barometer. A siphon barometer is employed which, at its open end, operates a plunger resting on the surface of the mercury. On account of the optical magnification associated with a moving mirror at some distance from the recording drum, the motion of the plunger must be mechanically reduced in being transferred to the arm which carries the mirror. In the actual arrangement two levers are used. One is connected to the stem of the plunger resting on the free surface of the mercury and is 12 inches long from plunger to pivot. A pin with a rounded conical point is screwed into this lever at a distance of 1 inch from the pivot. On this pin rests the plane under-surface of a shorter lever, which is

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

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

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

The photographic sheets being $9\frac{1}{2}$ inches wide, a range of over 3 inches barometric motion can be included and re-adjustment of position of the trace is unnecessary.

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

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

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

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

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

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. DB 3544. The thermometer for radiation to the sky is a spirit minimum thermometer, Negretti and Zambra No. DC 30597. The thermometers are laid on short grass, freely exposed to the sky.

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

Osler Anemometer. This self-registering instrument, devised for continuous registration of the direction and pressure of the wind together with the amount of rain, is fixed above the north-western turret of the ancient part of the Observatory. The direction of the wind is registered by means of a large vane (9 ft. 2 in. in length), connected by shaft and pinion with a rack-work carrying a pencil; the latter marks on a flat sheet of paper, moving horizontally. The vane is 25 feet above the roof of the Octagon Room, 60 feet above the adjacent ground and 215 feet above the mean level of the sea. A fixed mark near the north-eastern turret in azimuth 90° east, as determined by celestial observation, is used for examining at any time the position of the direction-plate over the registering table to which reference is made by means of a direction pointer when adjusting a new sheet on the travelling board.

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

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

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

After certain structural alterations were carried out in 1941 October, which included the introduction of a ball bearing for the revolving shaft, a series of comparisons was made between wind speed deduced from the pressure recorded by the Osler anemometer and the velocity of the cups, known from the above-mentioned relation. These comparisons established a new empirical formula, valid at all ordinary speeds and very close to $V = 2.70 v$. 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 1947 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 90 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 in the courtyard to the north of the Transit Pavilion, and permanently directed towards the

celestial pole. The lens is of 18.8 inches focal length and 0.8 inch aperture. The actual camera is enclosed in a larger box about twice its length, extending nine inches beyond the lens. The lens itself is further surrounded by a hood. Adequate protection from dew is thus obtained, and also from rain, except when hard driven from the north. The photographic plates used are ordinary quarter-plate ($3\frac{1}{4}$ by $4\frac{1}{4}$ inches). Exposure is intended to be made during the period that the sun remains more than 10° below the horizon. The period is thus centred approximately on apparent midnight, but in practice the mean times of commencing and ending the exposure are not varied at intervals of less than seven days.

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

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

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

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

The barometer results are not reduced to sea-level, neither are they corrected for the effect of gravity by reduction to the latitude of 45° . The monthly mean barometer reading is, however, corrected for the effect of the change of site of 1917 April before deducing the deviation from the mean of sixty-five years 1841-1905 (pp. D 58-81). 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 85 and D 86) have been calculated from the corresponding mean hourly values of air and evaporation temperatures (pp. D 84 and D 85).

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 83 and D 90, 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 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 58-81, 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 59 to D 81, and in the abstract table, page D 83, is the mean found from observations made at 9^h, 12^h (noon), 15^h and 21^h each day.

The following are the symbols which have been adopted for clouds and weather.

BEAUFORT WEATHER NOTATION

(modified in conformity with the usage of the British Meteorological Office)

b	blue sky (less than one quarter covered with cloud)
bc	sky partially cloudy (less than three quarters covered)
c	sky generally cloudy, but not completely overcast
d	drizzle
e	wet air without falling rain
f	fog, with objects invisible distant more than 1100 yards
F	fog, with objects invisible distant more than 2200 yards
g	gloom
h	hail
i	intermittent
k	storm (in combination with other symbols)
l	lightning
m	mist, with limit of visibility between 1100 and 2200 yards
o	sky overcast with unbroken cloud
p	passing showers
q	squall
r	rain
s	snow
rs	sleet
t	thunder
u	threatening sky
v	exceptional visibility; i.e. abnormal transparency of air
w	dew
x	hoar frost
y	dry air; i.e. relative humidity less than 60 per cent
z	haze

A capital letter indicates "intense"

The suffix *o* indicates "slight"

A letter repeated indicates "continuous"

CLOUD FORMS

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

ADDITIONAL SYMBOLS.

<i>lu-ha</i>	lunar halo	<i>prhn</i>	Parhelion	<i>so-ha</i>	solar halo
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ROYAL OBSERVATORY, GREENWICH

ABINGER MAGNETIC STATION

Results of Magnetic Observations

1947

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
January																										
9° + Tabular Quantities																										
1	47.0	47.3	47.8	47.0	46.3	46.6	47.1	47.0	46.5	45.6	47.6	49.0	50.5	51.6	52.0	51.1	50.4	48.8	48.3	47.6	47.2	46.6	46.6	46.7	46.7	46.7
2	46.7	47.0	46.7	46.8	47.1	46.7	46.5	46.3	45.7	45.6	46.5	48.3	49.3	51.8	51.0	50.8	49.6	43.7	48.1	47.5	46.6	46.5	46.5	46.5	46.7	46.7
3	47.2	47.1	47.0	47.2	47.1	46.9	48.6	48.0	45.7	45.1	46.2	49.1	50.2	51.3	52.3	52.1	46.6	51.5	51.2	47.7	47.7	45.1	38.7	45.5	45.5	45.5
4 **	45.6	44.6	46.1	46.0	47.1	46.4	46.3	46.0	45.1	45.7	47.5	51.6	52.2	51.4	55.0	55.0	53.6	48.9	48.0	43.6	41.6	43.1	44.7	44.6	44.6	44.6
5 **	46.3	43.6	44.5	44.6	44.9	48.1	45.1	44.1	44.2	45.7	47.1	48.2	49.6	50.5	51.5	51.7	41.8	51.1	48.4	46.5	45.2	44.0	43.0	43.1	43.1	43.1
6	42.7	47.6	45.2	44.5	46.9	47.7	48.2	46.8	47.1	47.8	48.1	48.0	49.1	49.2	47.6	46.7	46.6	47.0	47.1	43.2	42.9	44.2	42.8	45.2	45.2	45.2
7	46.0	45.4	47.4	47.8	47.1	45.7	46.1	45.7	45.5	45.7	47.1	49.2	50.0	50.6	50.1	48.9	47.8	49.1	47.8	46.7	47.1	46.1	43.9	45.0	45.0	45.0
8	45.6	44.6	43.6	44.6	45.1	46.4	46.4	45.2	45.3	46.7	47.2	48.1	49.6	49.2	48.6	48.8	48.1	48.5	47.7	47.0	46.3	46.1	46.4	46.0	46.0	46.0
9 *	45.6	46.1	46.7	47.0	47.3	46.7	47.0	46.5	45.2	44.8	45.4	46.7	48.7	49.6	48.9	48.5	48.5	48.4	47.7	47.0	46.1	46.1	46.1	46.1	46.1	46.1
10 *	46.2	46.2	46.5	46.9	46.9	46.5	46.3	45.6	44.9	45.0	46.0	47.0	48.1	48.6	48.0	48.1	48.0	47.9	47.7	47.1	46.5	46.2	46.1	45.9	45.9	45.9
11 *	46.1	46.5	47.1	47.2	46.6	46.4	46.1	45.7	45.6	45.5	46.0	47.0	48.6	49.1	48.5	48.3	48.5	47.9	47.7	46.9	46.3	46.0	45.8	46.1	46.1	46.1
12 *	45.9	46.2	46.6	46.5	47.0	46.5	46.2	45.4	45.5	45.8	46.1	47.8	49.0	49.1	47.9	47.6	48.0	48.0	47.5	46.9	46.5	46.0	46.0	46.2	46.2	46.2
13 *	46.4	46.5	46.4	46.4	46.0	46.0	45.8	45.8	45.5	46.0	46.9	48.5	50.5	50.2	49.5	48.5	48.5	48.6	48.5	47.5	47.0	46.9	45.6	45.8	45.8	45.8
14	45.8	45.1	45.1	45.1	45.9	46.0	45.8	46.0	45.2	45.5	46.6	48.5	50.5	50.5	49.5	50.4	51.1	50.5	49.9	48.0	47.0	46.5	46.5	46.0	46.0	46.0
15	45.7	46.1	46.9	46.2	46.5	46.7	46.8	45.1	44.8	44.9	46.4	48.1	50.5	50.5	48.5	48.2	48.5	48.9	48.7	47.8	46.9	44.5	43.5	43.0	43.0	43.0
16 **	42.9	44.0	45.0	50.9	40.1	40.5	43.1	44.4	43.9	44.1	45.1	47.5	50.1	49.6	49.3	48.9	53.5	51.9	46.5	40.1	39.9	41.1	44.6	43.8	43.8	43.8
17	43.1	40.8	43.6	44.9	45.4	44.5	45.5	45.6	45.7	45.5	45.3	47.4	49.1	48.5	47.7	47.8	47.8	47.9	48.1	47.5	46.8	46.5	44.9	43.5	43.5	43.5
18	44.1	43.9	44.0	45.0	45.5	45.1	45.2	45.0	44.5	44.4	46.1	47.5	49.5	51.1	50.0	47.5	49.2	48.9	45.4	47.4	45.8	45.5	45.6	44.6	44.6	44.6
19	42.4	43.3	44.4	46.6	46.5	46.3	45.8	45.0	43.6	44.2	45.2	47.2	49.1	50.6	50.5	49.7	49.1	48.0	47.8	47.1	46.6	45.9	45.5	42.9	42.9	42.9
20	43.2	44.4	45.0	44.9	45.5	45.0	45.6	45.4	44.7	44.8	45.9	47.1	49.1	49.1	48.1	48.6	48.9	49.6	48.9	47.6	46.2	46.1	46.0	45.8	45.8	45.8
21	45.5	43.6	43.1	44.0	44.9	45.5	45.5	44.8	44.5	45.1	46.2	46.6	47.6	48.5	47.2	47.8	48.6	48.5	48.1	46.9	45.5	46.3	46.4	46.1	46.1	46.1
22	46.7	46.4	46.5	46.1	46.1	45.8	45.5	44.5	44.5	44.8	45.7	46.9	48.9	49.6	48.5	49.2	49.6	50.6	49.1	48.1	45.7	44.2	45.9	44.9	44.9	44.9
23	44.1	43.9	44.0	45.5	44.9	45.1	45.4	45.0	44.2	44.1	44.6	45.9	47.5	48.5	48.0	48.5	48.5	48.6	47.0	47.0	46.6	45.2	45.8	46.4	46.4	46.4
24	46.6	46.6	46.7	46.4	46.3	46.2	45.7	46.3	46.7	45.6	44.9	44.7	47.0	47.4	44.3	44.6	45.6	46.2	46.8	43.1	45.1	43.1	44.0	45.3	45.3	45.3
25 **	46.0	45.6	45.2	49.0	49.5	52.6	50.1	51.1	50.1	46.6	47.9	49.1	52.5	51.2	50.6	49.0	48.0	47.1	42.5	46.5	45.7	43.8	39.1	37.3	37.3	37.3
26 **	38.6	39.6	40.0	36.3	38.5	41.8	45.6	45.2	43.0	43.6	47.0	49.3	51.5	53.6	51.3	51.1	45.1	51.1	46.9	41.6	42.6	44.9	43.8	44.5	44.5	44.5
27	43.5	45.0	46.8	47.2	48.6	46.6	45.6	44.3	43.1	43.7	46.0	48.6	50.9	50.7	48.1	49.6	50.2	50.9	49.6	46.5	39.8	43.2	43.4	42.2	42.2	42.2
28	46.7	43.0	46.8	44.3	44.2	45.3	45.2	44.7	44.6	44.7	45.1	46.1	48.2	50.8	49.1	48.5	47.7	47.9	47.6	47.1	45.1	42.8	42.3	43.7	43.7	43.7
29	44.6	44.6	44.2	45.2	42.2	43.2	44.1	44.7	44.0	45.2	46.1	48.1	49.8	51.0	51.8	50.5	49.6	48.1	47.3	47.0	46.2	45.7	45.5	45.1	45.1	45.1
30	43.7	43.2	42.8	43.3	44.3	44.5	44.3	44.6	43.8	43.3	47.7	49.1	50.3	51.1	50.2	48.8	48.2	48.1	47.7	47.0	46.3	46.3	41.7	39.4	39.4	39.4
31	42.2	42.8	44.0	45.2	45.7	45.4	45.4	45.1	44.4	44.7	46.0	46.5	48.2	49.2	49.6	49.2	48.8	48.7	48.1	47.2	46.8	46.3	44.7	43.2	43.2	43.2
Mean	44.9	44.9	45.3	45.8	45.7	45.9	46.0	45.6	45.1	45.3	46.3	47.8	49.5	50.1	49.5	49.2	48.5	48.7	47.8	46.4	45.5	45.2	44.6	44.5	44.5	44.5
Mean *	46.0	46.3	46.7	46.8	46.8	46.4	46.3	45.8	45.3	45.4	46.1	47.4	49.0	49.3	48.6	48.2	48.3	48.2	47.8	47.1	46.5	46.2	45.9	46.0	46.0	46.0
Mean **	43.9	43.5	44.2	45.4	44.0	45.9	46.0	46.2	45.3	45.1	46.9	49.1	51.2	51.3	51.5	51.1	48.4	50.0	46.5	43.7	43.0	43.4	43.0	42.7	42.7	42.7
February																										
9° + Tabular Quantities																										
1	40.3	42.7	44.3	43.9	44.7	45.7	44.7	44.8	43.7	43.7	44.8	47.1	49.1	50.6	49.7	48.4	47.7	47.3	47.2	47.1	46.4	46.1	45.8	45.8	45.8	45.8
2	46.7	46.8	46.8	46.4	46.3	46.2	45.7	44.8	43.8	43.3	45.2	47.7	49.5	51.7	51.4	50.5	48.7	48.2	48.0	47.8	47.7	47.6	47.1	46.2	46.2	46.2
3	45.7	45.1	45.0	45.1	45.0	45.1	44.8	44.7	45.7	44.9	46.1	47.9	49.5	50.9	50.7	51.5	50.5	50.3	50.6	48.3	46.9	46.2	46.3	46.4	46.4	46.4
4	46.2	43.0	42.0	43.2	43.6	45.3	46.0	45.6	44.0	44.3	45.6	47.9	50.4	49.7	50.4	49.6	48.2	47.8	47.6	46.9	46.3	45.0	45.2	46.2	46.2	46.2
5	44.6	45.6	45.6	46.0	45.6	45.6	45.5	45.2	44.1	44.0	46.2	49.6	51.5	51.7	49.6	48.7	47.9	47.7	47.4	47.2	46.2	45.8	45.0	44.7	44.7	44.7
6	46.1	45.7	46.1	45.8	45.3	46.2	47.0	47.1	44.7	43.1	43.6	45.8	49.9	52.0	51.5	50.7	48.8	48.0	45.2	45.5	44.0	43.6	45.5	46.1	46.1	46.1
7	46.0	46.1	46.2	46.1	46.0	45.6	45.5	44.6	43.7	44.1	47.2	50.3	54.0	54.4	52.7	50.7	49.2	49.7	49.6	47.3	45.6	44.6	44.2	44.7	44.7	44.7
8 **	45.1	46.0	45.0	44.2	44.1	44.5	45.0	44.4	46.7	48.3	48.9	51.1	52.4	54.2	56.7	55.2	55.1	48.2	46.5	39.6	39.9	39.3	33.8	36.8	36.8	36.8
9 **	42.1	41.0	46.4	41.5	44.5	44.6	43.8	43.5	42.1	42.2	45.4	46.6	48.1	49.5	50.0	48.7	47.2	47.1	47.6	47.6	39.1	35.2	37.7	37.6	37.6	37.6
10	39.2	40.6	41.6	44.2	44.3	44.6	44.7	44.6	43.3	43.4	45.6	48.4	50.6	54.1	55.8	52.6	50.1	48.3	47.9	46.8	46.1	45.2	44.0	44.5	44.5	44.5
11	44.0	45.1	45.3	45.5	45.2	44.8	44.9	44.2	42.0	41.5	43.6	46.0	48.6	50.3	51.1	50.6	49.5	49.1	48.6	47.8	47.7	45.5	43.7	44.6	44.6	44.6
12	46.2	46.2	45.7	45.8	46.0	45.8	45.6	44.5	42.4	40.7	42.5	45.8	48.9	50.7	51.3	50.3	49.0	48.7	47.8	47.2	46.8	46.3	45.6	43.1	43.1	43.1
13	44.8	45.6	45.7	45.8	46.4	46.1	45.2	44.7	42.8	42.1	43.4	47.0	50.7	51.1	51.1	49.8	48.7	47.7	48.2	47.9	47.0	46.8	46.5	46.2	46.2	46.2
14 *</																										

MAGNETIC OBSERVATIONS, ABINGER 1947.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h			
March																												
9° + Tabular Quantities																												
1 *	45.4	43.6	43.5	43.1	42.8	42.6	43.0	42.6	41.6	41.8	44.6	48.6	50.7	52.1	51.1	49.0	47.3	47.0	46.6	46.2	46.2	45.5	43.6	43.6	43.6	43.6	43.6	
2 **	44.1	43.1	42.0	43.0	44.6	41.4	41.2	42.0	39.6	47.0	44.6	49.6	55.1	54.1	53.2	53.6	50.4	53.2	51.5	52.9	46.0	44.5	35.6	25.9	25.9	25.9	25.9	
3 **	30.2	27.1	27.4	40.2	41.1	41.2	46.2	46.0	47.0	47.2	50.7	51.3	52.2	54.1	53.1	54.7	51.0	49.3	33.6	25.6	25.7	27.6	34.6	41.1	41.1	41.1	41.1	
4	31.6	39.2	40.8	40.1	49.1	54.2	52.3	46.6	41.1	51.0	43.0	46.1	49.1	49.9	47.6	47.8	46.0	43.9	35.6	38.6	41.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0
5	45.0	47.2	45.2	43.6	43.1	43.2	43.0	42.0	39.8	39.6	41.7	45.5	48.3	50.3	49.1	48.0	46.2	46.0	45.5	45.0	44.6	44.0	44.6	44.1	44.1	44.1	44.1	44.1
6 *	43.9	45.1	44.3	44.2	43.7	43.6	43.2	41.7	39.6	39.1	41.9	46.7	51.7	53.1	52.1	49.5	47.5	46.6	45.3	45.0	44.1	43.5	44.5	44.7	44.7	44.7	44.7	44.7
7	44.7	45.1	45.5	45.1	44.2	43.6	42.9	39.6	37.6	38.2	41.3	46.6	54.6	55.4	54.2	51.5	48.7	48.3	47.1	45.8	45.6	44.6	44.1	44.5	44.5	44.5	44.5	44.5
8 **	44.6	44.7	46.5	48.1	45.2	45.6	49.6	48.1	45.3	49.5	49.1	54.9	58.6	59.7	63.0	53.7	52.8	43.0	41.3	43.5	38.0	36.9	36.3	37.5	37.5	37.5	37.5	37.5
9	42.1	32.0	34.4	36.2	39.0	41.2	42.6	48.1	41.2	43.2	46.2	49.6	53.7	54.4	53.1	50.0	48.7	46.9	44.2	43.1	41.1	40.9	43.6	44.6	44.6	44.6	44.6	44.6
10 *	44.6	44.9	44.7	44.3	44.1	44.1	43.3	41.6	39.4	40.4	43.6	48.1	53.1	55.1	52.9	51.1	48.6	47.1	45.6	45.6	45.5	44.5	44.5	44.1	44.1	44.1	44.1	44.1
11 *	44.4	45.1	45.1	44.8	44.6	44.0	43.1	40.9	39.2	39.5	42.1	47.1	50.6	52.5	51.6	49.9	48.1	47.1	46.6	46.0	45.6	45.3	44.9	44.9	44.9	44.9	44.9	44.9
12	45.0	43.7	44.4	44.5	46.8	46.2	42.6	40.8	39.3	39.3	42.7	49.1	51.8	52.8	55.0	52.9	49.1	47.7	47.0	47.0	46.6	45.3	44.2	44.4	44.4	44.4	44.4	44.4
13	44.5	44.3	44.1	44.5	44.5	44.5	44.0	41.5	39.6	40.0	42.7	47.5	51.0	53.5	54.0	52.6	50.6	47.3	46.8	46.7	46.2	46.4	45.9	44.6	44.6	44.6	44.6	44.6
14	45.6	46.2	46.3	47.0	47.7	47.6	44.0	40.7	41.3	41.6	42.6	46.6	50.0	50.6	50.6	50.6	48.7	46.1	46.8	46.1	44.0	45.2	44.6	43.2	43.2	43.2	43.2	43.2
15 **	44.7	42.9	43.5	43.3	44.1	46.4	47.0	43.9	38.8	36.0	36.6	45.6	54.3	56.7	57.6	57.9	51.6	49.6	48.1	46.1	45.7	43.3	43.2	41.6	41.6	41.6	41.6	41.6
16	42.6	42.8	42.6	43.2	43.1	42.6	41.1	40.4	40.0	40.6	43.2	47.0	49.1	50.8	51.2	51.0	47.9	44.9	39.9	44.3	44.5	42.0	36.3	35.4	35.4	35.4	35.4	35.4
17	41.1	39.0	39.2	41.7	39.4	43.6	45.3	42.6	39.6	42.1	45.7	47.7	48.3	47.7	48.6	47.4	46.5	43.6	43.2	44.6	42.2	42.1	43.6	43.0	43.0	43.0	43.0	43.0
18	43.4	44.5	43.2	45.1	44.0	43.0	41.3	39.9	39.1	39.7	42.3	45.5	48.7	50.5	50.6	50.2	46.2	46.6	45.7	45.6	43.0	43.2	44.5	45.0	45.0	45.0	45.0	45.0
19	44.1	41.7	41.1	41.2	42.0	42.0	40.0	39.6	39.6	39.4	42.1	45.8	50.0	51.1	51.0	50.0	48.6	45.6	45.6	44.7	41.3	42.5	43.0	41.7	41.7	41.7	41.7	41.7
20	44.6	42.4	40.6	41.7	42.0	42.6	40.7	40.2	38.9	38.6	42.1	47.2	50.1	51.5	51.6	51.4	49.7	47.6	46.2	43.7	42.7	43.5	42.7	41.3	41.3	41.3	41.3	41.3
21 *	42.1	43.2	43.5	44.2	44.0	43.3	42.5	40.6	40.1	41.7	45.3	50.7	52.3	52.6	53.0	50.6	49.6	47.1	46.2	46.0	45.6	43.6	39.6	41.7	41.7	41.7	41.7	41.7
22	43.5	43.5	42.1	43.6	41.7	41.1	41.7	40.1	41.0	44.9	48.1	51.6	53.7	55.0	54.1	50.2	49.5	47.1	39.6	41.6	44.8	46.0	45.8	45.2	45.2	45.2	45.2	45.2
23	44.2	43.6	41.7	42.4	42.6	44.9	43.0	41.5	40.7	43.1	46.3	52.1	54.1	52.3	51.4	48.0	43.1	42.6	44.6	45.2	43.6	43.6	43.0	43.9	43.9	43.9	43.9	43.9
24	45.1	41.9	40.8	47.1	50.6	52.1	52.6	42.2	39.6	39.6	42.4	44.7	47.9	49.6	49.9	49.6	47.6	47.1	45.7	44.6	45.6	44.6	44.3	46.2	46.2	46.2	46.2	46.2
25	44.8	43.9	43.1	42.1	42.1	43.7	44.0	42.1	40.7	41.6	44.4	48.6	51.1	51.6	50.5	49.2	47.3	45.1	44.8	43.5	43.5	42.0	42.0	42.5	42.5	42.5	42.5	42.5
26	37.2	42.6	43.9	46.6	47.6	45.3	44.6	42.0	39.6	41.5	44.4	48.8	53.0	54.5	53.6	52.9	49.9	45.8	47.5	45.0	45.1	42.8	45.4	42.0	42.0	42.0	42.0	42.0
27	41.3	42.0	40.3	42.3	42.1	41.1	43.7	43.9	40.5	44.4	48.3	49.2	50.8	51.5	51.2	50.7	50.1	48.1	45.6	41.8	45.6	44.4	47.2	46.0	46.0	46.0	46.0	46.0
28 **	38.2	27.7	28.6	31.6	35.6	41.6	44.6	50.6	47.2	49.1	48.5	50.9	54.1	54.0	52.1	48.7	46.1	38.6	43.2	46.6	46.5	41.6	39.3	42.5	42.5	42.5	42.5	42.5
29	39.4	40.7	40.6	40.5	40.2	40.6	39.3	37.5	37.6	39.4	43.4	48.1	52.1	51.4	51.1	50.4	48.1	46.6	43.7	41.3	42.7	42.6	42.0	37.9	37.9	37.9	37.9	37.9
30	42.8	39.6	32.6	36.9	34.1	36.2	39.0	38.1	38.1	38.4	43.7	48.3	52.1	53.1	55.3	54.6	50.6	46.0	45.2	43.6	44.6	44.7	44.4	43.7	43.7	43.7	43.7	43.7
31	42.8	41.6	42.6	40.8	43.1	44.1	44.6	40.1	39.6	42.7	44.4	50.6	53.0	53.6	52.3	49.7	46.9	44.7	45.2	45.6	45.3	45.2	44.5	44.3	44.3	44.3	44.3	44.3
Mean	42.5	41.8	41.4	42.7	43.2	43.8	43.7	42.2	40.4	41.9	44.1	48.4	51.8	52.7	52.4	50.9	48.5	46.3	44.6	44.2	43.6	43.0	42.8	42.5	42.5	42.5	42.5	42.5
Mean *	44.1	44.4	44.2	44.1	43.8	43.5	43.0	41.5	40.0	40.5	43.5	48.2	51.7	53.1	52.1	50.0	48.2	47.0	46.1	45.8	45.4	44.5	43.4	43.8	43.8	43.8	43.8	43.8
Mean **	40.4	37.1	37.6	41.2	42.1	43.2	45.7	46.1	43.6	45.8	45.9	50.5	54.9	55.7	55.8	53.7	50.4	46.7	43.5	42.9	40.4	38.8	37.8	37.7	37.7	37.7	37.7	37.7
April																												
9° + Tabular Quantities																												
1 *	44.2	43.6	43.0	42.5	42.3	42.0	41.5	39.3	39.6	40.6	43.5	48.6	51.7	54.8	54.1	52.1	50.6	48.2	46.7	46.0	44.9	42.7	43.2	44.1	44.1	44.1	44.1	44.1
2	44.1	44.2	44.3	44.6	43.2	43.5	43.0	39.6	37.6	38.1	41.5	46.1	51.0	53.3	52.2	50.6	48.1	44.6	44.5	45.1	45.6	45.1	45.0	44.4	44.4	44.4	44.4	44.4
3	44.6	44.6	45.4	46.7	42.0	42.0	40.2	37.2	36.2	37.2	42.5	48.6	53.0	55.5	54.7	53.6	50.1	47.6	46.6	46.0	45.6	46.6	44.2	42.5	42.5	42.5	42.5	42.5
4	40.6	42.1	42.3	43.1	43.6	45.6	43.1	40.8	39.5	41.6	47.1	53.6	57.2	54.8	54.0	50.6	44.6	44.2	43.6	42.1	38.8	40.8	39.0	38.6	38.6	38.6	38.6	38.6
5	40.5	41.2	42.7	43.1	43.0	42.7	40.5	37.6	36.1	37.3	43.6	49.0	53.0	52.5	50.7	47.7	45.4	43.9	44.1	44.6	44.0	44.7	44.6	44.1	44.1	44.1	44.1	44.1
6	44.6	44.8	46.4	45.1	42.2	43.1	40.1	39.5	37.3	39.7	43.9	50.3	55.0	55.0	53.5	49.4	45.6	44.1	43.6	42.9	45.1	44.4	44.5	45.0	45.0	45.0	45.0	45.0
7	44.5	44.3	44.6	44.0	43.9	43.6	42.0	39.6	37.4	37.8	41.3	47.9	53.9	56.5	54.7	53.0	48.1	46.2	46.0	46.0	45.6	45.6	45.0	41.6	41.6	41.6	41.6	41.6
8	43.6	44.2	43.9	43.6	43.4	43.2	41.5	38.8	36.6	37.8	42.2	47.1	55.0	56.3	54.5	51.0	48.4	46.4	45.3	45.6	45.5	45.6	46.2	45.7	45.7	45.7	45.7	45.7
9 **	40.6	40.6	40.4	43.0	44.7	46.9	43.6	42.6	38.4	41.7	43.7	43.2	50.0	52.1	48.6	46.6	44.2	44.5	44.4	44.7	44.6	45.1	44.0	42.6	42.6	42.6	42.6	42.6
10	42.4	43.2	44.6	42.9	41.8	41.7	40.6	41.1	39.0																			

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h			
May																												
9° + Tabular Quantities																												
1	43.9	46.6	44.3	43.8	46.2	47.6	44.0	41.3	39.2	38.8	41.1	43.7	48.3	50.7	49.3	46.0	43.0	42.0	42.2	43.3	45.9	46.7	45.7	45.7	45.5	45.5	44.2	
2 *	43.7	44.1	43.3	42.1	40.7	39.3	38.0	37.0	37.2	39.2	43.2	47.0	48.2	49.4	48.0	46.7	45.3	43.9	43.8	43.7	44.2	44.7	44.7	44.7	44.7	44.2	44.2	44.2
3	43.8	44.6	44.0	44.2	42.2	41.5	40.4	39.8	39.7	41.3	44.5	49.1	52.2	52.8	50.7	47.6	44.8	43.2	43.3	44.3	44.7	44.7	44.6	44.7	44.7	44.7	44.7	44.7
4	44.3	43.9	43.3	42.5	41.1	38.3	36.3	36.1	38.3	42.5	46.0	49.5	51.7	52.1	50.1	47.4	45.1	43.7	43.2	43.1	43.8	45.2	45.0	44.7	44.7	44.7	44.7	44.7
5	44.3	44.7	45.6	44.8	42.1	39.5	37.8	37.0	38.3	40.2	44.5	48.0	51.2	52.7	51.7	49.9	46.7	43.2	44.1	44.8	45.3	45.7	44.9	44.9	45.1	45.1	45.1	45.1
6	44.7	44.4	44.1	43.5	42.6	41.6	40.2	38.6	39.3	42.7	47.2	50.0	52.2	52.7	50.8	47.4	44.4	43.4	44.5	46.1	46.1	45.9	45.5	46.8	46.8	46.8	46.8	46.8
7	44.7	43.8	44.2	43.7	42.7	41.2	39.5	38.7	39.0	41.2	45.2	49.3	52.3	52.8	50.3	47.8	46.3	44.7	43.8	44.7	45.3	44.4	44.7	44.4	44.4	44.4	44.4	44.4
8 *	44.2	44.1	43.6	43.0	41.9	40.2	38.7	38.0	38.2	40.7	44.1	47.6	49.3	51.3	50.9	49.5	46.8	44.7	43.9	44.7	45.3	45.1	45.2	44.7	44.7	44.7	44.7	44.7
9 *	44.6	44.1	44.2	42.7	42.1	39.7	38.5	37.6	37.7	40.7	44.7	48.3	51.1	52.1	51.2	49.1	47.1	46.0	45.4	45.7	45.7	44.6	45.0	44.9	44.9	44.9	44.9	44.9
10 *	44.7	44.3	43.7	43.2	42.2	40.4	37.7	36.8	36.7	39.2	44.3	49.7	53.0	53.6	52.8	49.8	47.1	45.2	44.7	45.1	45.1	44.7	43.6	43.1	43.1	43.1	43.1	43.1
11	41.7	41.7	41.7	40.6	39.1	37.1	35.7	36.6	37.4	40.8	45.7	50.3	54.2	54.7	52.8	51.2	48.5	45.2	44.3	44.6	43.8	44.1	43.3	41.7	41.7	41.7	41.7	41.7
12	40.6	41.0	41.3	38.4	38.1	36.7	35.7	36.5	38.7	42.2	45.7	49.7	51.2	52.4	51.9	49.6	47.2	45.6	44.9	46.1	45.6	44.7	44.1	45.6	45.6	45.6	45.6	45.6
13	40.7	41.2	42.1	41.3	39.7	36.3	34.2	34.7	38.0	42.3	46.0	49.2	50.8	50.8	49.7	48.9	48.7	46.8	44.7	45.7	42.2	38.3	40.7	41.7	41.7	41.7	41.7	41.7
14 **	39.4	37.7	37.3	36.3	35.7	34.2	35.3	34.1	39.2	44.6	48.3	50.7	51.8	50.7	50.7	48.1	46.6	43.4	42.9	43.3	43.2	43.8	45.0	44.8	44.8	44.8	44.8	44.8
15 **	44.5	43.1	44.4	41.6	40.1	37.7	35.7	35.6	38.0	44.7	48.5	51.1	53.7	54.2	53.0	49.1	47.3	46.7	45.9	44.8	39.7	42.7	42.5	41.9	41.9	41.9	41.9	41.9
16 *	37.8	36.7	43.3	38.2	38.7	41.7	39.2	37.1	37.7	38.5	41.7	45.1	47.8	51.4	49.2	47.3	47.8	46.3	43.8	42.2	43.7	44.3	45.4	42.0	42.0	42.0	42.0	42.0
17	42.2	39.3	39.6	40.4	38.8	38.3	38.1	38.8	39.4	42.4	47.2	50.8	53.7	53.2	52.4	51.7	48.3	47.2	44.7	43.8	44.1	44.2	44.4	44.2	44.2	44.2	44.2	44.2
18	43.3	43.2	40.1	39.8	41.2	39.7	37.7	36.7	38.7	42.2	45.7	49.1	51.1	52.8	53.7	52.5	49.7	46.7	44.7	43.2	43.7	44.8	42.8	40.7	40.7	40.7	40.7	40.7
19	40.7	41.3	41.8	40.2	37.8	36.7	34.3	36.1	40.7	43.3	47.2	51.8	54.7	56.6	54.6	51.2	48.2	45.5	43.7	44.3	44.5	43.7	42.7	42.1	42.1	42.1	42.1	42.1
20	41.8	41.8	41.7	41.0	40.7	37.7	36.7	38.2	39.7	43.1	48.3	52.1	53.7	54.3	53.3	50.7	47.6	45.8	45.3	45.5	45.3	44.7	43.5	43.2	43.2	43.2	43.2	43.2
21	42.8	43.3	42.2	40.9	39.7	37.1	35.8	35.2	35.2	37.6	42.3	47.7	50.7	52.3	52.3	50.3	47.3	45.7	43.8	44.1	45.1	45.2	44.0	44.8	44.8	44.8	44.8	44.8
22	42.3	42.3	43.3	42.2	41.8	40.2	39.2	39.6	41.0	43.8	48.5	52.2	55.0	55.0	53.2	50.7	48.2	45.7	43.3	43.5	44.6	44.7	45.2	43.5	43.5	43.5	43.5	43.5
23	42.7	42.6	44.5	46.0	31.0	28.7	37.8	36.6	34.7	36.2	39.8	45.2	49.6	52.5	52.9	53.3	51.1	46.8	44.6	44.1	44.8	44.3	44.1	43.4	43.4	43.4	43.4	43.4
24 *	43.3	43.1	43.2	42.8	42.5	42.3	40.3	38.7	28.1	46.8	43.9	47.8	50.7	51.5	52.6	51.0	49.1	46.7	45.6	44.7	43.7	43.7	43.2	42.7	42.7	42.7	42.7	42.7
25 *	42.1	42.6	42.7	39.8	38.7	38.2	37.1	37.3	37.5	40.9	46.1	50.7	54.0	52.7	51.5	50.6	47.2	44.7	43.0	43.7	44.3	45.1	44.8	46.7	46.7	46.7	46.7	46.7
26	44.7	46.2	47.2	47.1	47.7	44.6	40.5	37.7	38.5	38.9	43.1	46.8	51.2	53.0	53.1	50.2	45.2	43.3	43.2	43.2	44.5	46.6	43.1	44.2	44.2	44.2	44.2	44.2
27	45.8	46.1	47.7	44.6	42.7	39.7	38.6	34.7	38.1	39.0	43.7	48.7	52.8	52.8	51.3	49.7	46.9	44.3	41.7	43.1	43.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
28	44.2	44.2	42.9	41.2	40.2	37.6	35.0	35.2	36.2	39.0	42.6	46.7	52.2	54.7	56.1	51.6	50.7	47.2	44.6	44.7	45.2	46.1	42.3	43.5	43.5	43.5	43.5	43.5
29	42.7	43.3	43.7	43.7	42.7	42.9	42.2	42.3	42.2	41.3	45.1	48.8	50.2	51.1	49.7	43.7	43.5	43.6	42.2	43.1	40.7	45.3	45.9	45.6	45.6	45.6	45.6	45.6
30 *	45.1	44.1	42.8	41.2	39.1	35.7	32.6	32.1	34.3	37.5	42.2	46.7	49.9	50.6	49.5	47.2	45.4	43.5	42.7	43.2	43.3	44.2	44.6	44.6	44.6	44.6	44.6	44.6
31	44.1	43.6	42.6	41.6	40.6	38.2	36.7	36.7	38.6	43.2	48.0	51.5	53.0	52.7	51.5	50.0	47.9	46.0	45.1	45.2	44.1	40.7	42.9	46.2	46.2	46.2	46.2	46.2
Mean	43.1	43.0	43.1	42.0	40.7	39.1	37.7	37.1	37.9	41.1	45.0	48.9	51.7	52.6	51.6	49.3	47.1	45.1	44.0	44.2	44.2	44.4	44.1	44.1	44.1	44.1	44.1	44.1
Mean *	44.5	44.1	43.5	42.4	41.2	39.1	37.1	36.3	36.8	39.5	43.7	47.9	50.3	51.4	50.5	48.5	46.3	44.7	44.1	44.5	44.7	44.7	44.6	44.3	44.3	44.3	44.3	44.3
Mean **	41.5	40.6	42.5	41.0	37.6	36.9	37.7	36.4	35.5	42.2	44.4	48.0	50.7	52.1	51.7	49.8	48.4	46.0	44.6	43.8	43.0	43.8	44.0	43.0	43.0	43.0	43.0	43.0
June																												
9° + Tabular Quantities																												
1 **	47.9	40.0	38.7	35.2	35.9	37.1	35.5	32.1	31.8	38.2	42.7	47.1	50.9	50.6	49.2	47.1	44.3	42.0	40.7	42.2	43.5	44.5	44.6	44.7	44.7	44.7	44.7	44.7
2 *	44.3	44.0	43.2	41.9	39.6	36.7	34.3	34.0	35.6	39.1	43.8	47.6	51.6	53.6	53.1	50.2	47.1	43.6	41.1	41.9	43.2	43.6	44.6	45.1	45.1	45.1	45.1	45.1
3	45.6	45.1	45.2	46.6	43.6	39.1	34.5	33.3	35.1	40.2	45.6	51.1	54.8	56.6	54.2	50.6	47.7	45.7	45.3	44.9	44.7	44.7	44.8	44.6	44.6	44.6	44.6	44.6
4	44.2	44.1	43.1	41.7	40.2	38.7	37.2	38.6	40.7	45.0	49.1	51.5	52.2	52.5	51.1	48.2	46.8	44.2	44.6	45.1	45.2	45.6	44.7	44.8	44.8	44.8	44.8	44.8
5 **	44.4	44.1	43.6	41.6	41.0	39.2	37.7	35.0	42.3	48.1	50.3	52.3	52.5	53.1	52.1	52.2	49.7	50.1	50.5	47.7	47.0	46.7	43.6	41.2	41.2	41.2	41.2	41.2
6	37.0	42.4	40.6	38.8	37.7	35.2	34.7	36.1	36.9	40.1	43.7	47.3	50.5	51.3	50.6	49.1	47.6	45.6	44.6	44.0	42.7	41.5	41.7	40.2	40.2	4		

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
July																										
9° + Tabular Quantities																										
1	44.7	44.8	42.7	40.7	40.1	38.3	37.1	35.7	36.8	39.7	43.2	47.0	51.1	52.5	51.7	50.1	48.5	46.0	42.7	43.2	44.2	45.1	44.7	43.1		
2	40.7	41.5	41.7	42.0	42.5	36.2	34.6	36.3	37.4	37.5	41.9	47.3	50.1	51.2	50.2	50.1	47.1	44.4	42.1	44.2	45.0	45.6	43.2	42.9		
3 *	42.4	41.8	41.1	39.7	38.3	35.2	36.7	38.7	37.8	41.2	44.4	45.7	48.6	49.2	48.2	46.7	44.9	44.7	43.5	43.2	43.2	42.6	44.0	43.7		
4 *	42.9	42.7	41.6	40.7	39.6	37.1	34.8	34.8	35.8	37.7	41.4	46.7	51.3	52.3	52.2	49.3	47.2	45.3	43.4	43.2	43.3	42.8	42.8	43.2		
5 *	42.7	42.4	41.5	41.5	39.9	36.8	34.3	33.8	34.0	37.0	41.3	47.0	50.3	50.8	51.3	50.9	49.2	46.7	45.8	44.9	44.3	43.9	42.7	42.3		
6	42.2	42.8	41.3	39.8	39.4	38.4	36.3	35.8	36.9	39.1	42.4	46.8	51.3	53.8	53.1	51.9	51.1	48.7	47.3	45.9	45.2	43.9	42.9	41.9		
7	38.8	38.9	38.8	39.4	37.3	34.8	35.3	34.5	35.8	37.4	40.8	45.6	50.6	53.8	54.3	52.8	49.2	47.6	46.6	45.1	43.8	43.9	44.4	41.3		
8	40.8	39.7	40.3	39.7	39.0	36.8	37.7	37.4	39.3	38.7	39.9	43.9	48.3	52.3	52.8	51.8	48.8	47.3	44.1	43.0	44.4	44.4	43.0	40.9		
9	39.9	40.1	38.9	39.2	38.1	35.5	34.4	35.1	34.2	37.2	41.2	46.6	50.0	51.6	52.6	51.6	49.6	47.6	47.2	46.0	43.6	43.0	43.2	43.3		
10	38.6	40.6	39.5	40.6	37.9	36.9	37.1	37.6	38.2	39.1	41.5	45.8	47.7	48.4	49.4	49.6	48.0	46.3	45.8	45.9	44.9	43.2	40.8	42.4		
11	40.4	37.8	39.1	38.7	38.7	36.5	36.6	35.1	35.5	38.1	41.9	46.0	48.0	48.0	50.1	51.5	49.1	45.8	43.7	44.2	44.1	44.1	42.2	41.2		
12	40.1	41.0	40.9	42.8	42.5	39.3	36.9	37.4	37.7	39.5	43.2	46.4	49.9	51.8	51.0	48.8	47.2	45.6	44.3	43.9	43.8	43.8	43.8	43.5		
13	40.8	37.8	37.9	38.8	38.0	36.7	35.1	34.9	36.4	39.8	43.3	46.4	49.4	52.6	51.4	50.3	47.8	44.1	42.5	43.8	44.9	44.5	42.3	42.8		
14 *	43.2	42.9	41.8	40.5	39.0	37.3	35.8	34.9	36.2	38.8	42.3	46.8	50.1	50.8	50.4	50.0	48.8	45.8	44.8	44.3	45.2	44.8	44.2	42.7		
15	42.7	40.4	39.3	38.6	38.8	38.9	37.3	37.3	37.2	39.4	43.8	47.8	50.8	51.3	50.3	48.3	45.8	43.2	43.2	43.8	43.7	44.8	44.3	43.8		
16	43.9	45.4	40.1	39.8	37.8	36.6	35.3	35.8	37.4	40.6	43.7	47.1	50.3	52.1	50.7	48.6	46.0	43.3	42.3	43.3	43.2	43.1	43.6	43.1		
17 **	42.6	42.0	41.2	40.2	38.9	36.7	35.3	34.4	34.5	36.1	39.6	45.9	51.1	54.0	52.8	50.5	49.0	49.1	55.3	51.1	50.6	48.6	47.7	43.0		
18 **	33.6	35.3	38.3	34.1	34.6	29.1	26.9	29.2	29.9	34.6	39.6	45.9	47.2	51.7	55.1	52.1	50.1	48.1	41.8	44.0	43.0	45.3	42.5	39.6		
19 **	39.8	41.7	46.2	39.6	35.6	35.2	37.6	37.1	39.0	39.3	41.4	43.6	47.5	48.8	46.1	45.0	44.3	41.7	40.6	42.2	42.8	43.0	43.2	43.3		
20 **	44.5	44.6	42.1	43.7	43.6	35.4	36.7	38.1	36.7	37.5	41.6	44.7	48.7	48.9	47.4	47.7	42.6	43.1	40.8	40.1	41.5	42.9	41.6	43.6		
21	42.7	43.2	43.3	44.6	40.9	39.1	37.8	35.1	35.6	38.2	42.9	48.0	49.6	49.6	50.7	50.6	49.1	46.4	44.6	44.1	43.4	42.3	42.5	42.1		
22	41.2	40.6	40.2	41.8	39.7	38.9	37.2	37.0	38.1	39.7	40.8	44.6	47.6	51.7	53.0	51.2	48.6	46.0	44.2	43.1	40.1	40.8	44.1	43.6		
23 **	40.6	42.2	42.4	44.6	41.1	40.1	37.6	37.8	35.6	37.5	38.8	42.8	46.6	50.3	48.9	49.6	48.2	46.2	43.6	43.2	42.6	41.2	39.6	42.1		
24	42.2	42.7	41.3	42.0	42.6	37.7	36.5	35.2	35.6	37.8	41.6	44.7	47.0	48.6	48.5	48.2	46.6	44.3	43.5	43.7	43.6	43.8	43.7	42.9		
25	40.6	42.7	39.4	38.1	38.8	37.2	36.5	35.7	37.3	39.6	42.3	47.0	51.2	52.1	49.4	48.5	46.0	45.2	44.1	43.6	42.7	42.5	43.1	43.0		
26	41.1	41.0	42.6	49.1	44.1	39.6	39.6	39.8	39.5	40.2	41.1	47.1	49.5	49.9	51.3	48.8	45.6	42.4	41.4	42.1	42.4	42.4	42.7	42.6		
27	42.8	42.5	42.5	45.5	46.5	46.0	48.0	43.7	38.5	38.5	42.0	45.6	48.7	49.5	50.1	48.5	46.9	45.0	42.9	42.5	41.9	42.4	42.4	42.6		
28	41.4	41.0	42.3	41.5	40.6	38.6	37.5	36.5	36.5	38.1	41.9	45.9	44.9	47.1	48.5	48.5	46.1	43.9	42.0	43.3	43.5	42.5	41.9	42.6		
29	42.3	41.1	41.5	43.2	42.0	40.4	38.6	37.4	37.1	38.1	41.5	46.0	48.8	50.7	51.0	49.8	46.5	44.8	42.0	42.9	43.0	42.7	42.0	41.5		
30 *	41.3	41.4	41.7	41.4	41.3	40.2	38.5	37.4	39.3	40.7	42.0	44.8	49.1	51.3	50.3	47.8	45.9	44.4	44.3	43.9	43.8	43.8	43.4	42.3		
31	42.3	41.8	40.3	38.7	37.3	36.3	35.7	35.4	36.3	38.1	40.9	45.8	50.9	52.7	53.8	51.7	48.6	45.3	42.7	42.7	43.7	43.0	41.0	39.3		
Mean	41.4	41.4	41.0	41.0	39.8	37.5	36.6	36.3	36.6	38.5	41.6	45.8	49.2	50.9	50.9	49.7	47.5	45.4	44.0	43.9	43.7	43.6	43.0	42.5		
Mean *	42.5	42.2	41.5	40.8	39.6	37.3	36.0	35.9	36.6	39.1	42.3	46.2	49.9	50.9	50.5	48.9	47.2	45.4	44.4	43.9	44.0	43.6	43.4	42.8		
Mean **	40.2	41.2	42.0	40.4	38.8	35.3	34.8	35.3	35.1	37.0	40.2	44.6	48.2	50.7	50.1	49.0	46.8	45.6	44.4	44.3	44.1	44.2	42.9	42.3		
August																										
9° + Tabular Quantities																										
1	41.8	40.1	35.7	34.5	35.8	30.3	30.1	34.3	39.0	42.1	44.6	46.8	51.3	54.8	54.1	53.3	48.3	45.4	44.8	43.3	39.3	41.4	42.2	41.9		
2	41.3	40.2	39.2	38.5	39.3	38.3	35.4	38.3	38.3	38.8	42.7	47.7	51.6	53.7	54.2	49.9	46.5	45.0	42.1	42.6	43.3	39.9	39.4	41.0		
3	41.3	41.7	41.2	40.3	38.7	36.3	35.2	34.2	35.4	38.6	41.2	46.0	51.1	53.7	53.3	50.5	46.4	43.9	42.3	39.9	42.4	43.3	42.4	41.4		
4	40.3	41.5	40.7	39.3	38.8	37.7	35.8	35.5	35.3	37.6	42.7	47.9	51.4	53.7	52.8	50.7	46.8	43.6	42.4	43.2	43.2	42.5	42.0	41.4		
5 *	40.3	40.7	40.8	41.5	38.7	37.3	36.7	36.3	36.7	38.4	41.6	46.3	50.7	52.6	52.3	51.9	50.3	47.2	45.2	44.5	43.9	43.4	42.7	41.7		
6	41.9	41.0	40.9	40.0	39.2	37.4	35.0	34.2	34.3	37.9	42.8	48.3	51.7	53.7	51.9	50.0	46.8	45.0	43.6	44.4	41.9	40.0	41.1	42.9		
7	42.9	41.5	41.8	41.4	41.5	37.8	34.4	33.5	34.1	36.5	39.8	44.1	49.9	53.9	53.9	52.4	49.5	47.3	44.8	44.7	44.4	43.4	43.4	43.2		
8 *	43.0	39.3	38.3	39.9	39.3	36.8	37.8	36.9	37.0	38.5	41.4	46.2	50.5	53.3	52.8	50.5	47.5	44.9	43.9	44.1	43.9	43.5	43.4	42.6		
9 *	42.0	41.4	40.0	40.8	39.4	37.7	37.6	36.4	35.0	36.0	38.4	44.1	49.5	50.6	50.8	49.2	46.8	45.0	44.4	44.4	44.4	44.5	42.4	42.4		
10 *	42.3	41.9	40.6	40.4	39.4	39.3	38.0	35.4	35.3	38.1	42.4	47.0	51.5	53.0	53.0	50.2	47.9	44.9	43.5	43.5	43.5	43.4	42.9	41.0		
11	40.9	39.4	38.8	39.4	37.9	35.9	34.4	34.4	35.4	39.5	44.8	48.8	51.1	54.5	54.8	51.6	48.2	45.4	43.9	43.9	44.1	43.2	40.3	41.4		
12	40.8	37.3	34.2	38.6	38.4	37.8	37.3	37.5	36.8	38.9	40.5	44.9	49.1	50.0	51.5	47.8	45.4	45.4	44.9	44.9	43.9	43.4	43.4	40.0		
13	38.3	40.1	39.6	39.2	38.4	35.9	36.5	37.6	40.4	41.4	42.6	46.2	50.9	51.5	51.9	50.3	52.4	46.9	43.3	44.1	41.9	45.6	45.2	38.2		
14	38.3	39.0	43.3	39.5	39.8	37.8	38.4	38.4	37.3	38.8	41.0	44.1	46.9	49.3	48.9	46.2	44.4	44.3	43.1	43.8	44.4	43.3	44.4	41.8		
15 **	41.3	41.3	41.1	41.4	40.3	38.4	36.5	36.4	38.0	40.0	43.8	51.0	56.4	55.7	56.8	57.4	55.4	52.4	50.4	47.9	46.4	45.0	36.1	30.9		
16 **	36.7	31.4	34.7	34.2																						

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
September																										
9° + Tabular Quantities																										
1 *	38.2	38.5	36.8	36.9	36.4	36.6	35.8	35.0	35.3	37.8	43.1	49.3	53.3	53.6	51.2	48.4	46.3	44.7	44.8	44.3	42.3	42.7	41.4	41.2		
2	41.3	40.6	39.8	39.3	38.2	37.3	35.2	33.3	34.4	37.4	42.2	47.7	50.9	50.7	48.2	45.4	42.7	41.6	42.3	42.7	43.3	43.5	41.7	40.3		
3 **	39.2	37.2	35.3	34.3	31.3	33.9	30.7	28.0	23.7	39.4	48.2	48.3	52.9	53.6	49.3	44.5	46.6	44.3	39.5	37.3	37.3	37.4	42.5	39.3		
4	43.9	41.2	37.3	35.5	36.9	35.3	36.3	35.2	36.2	38.3	41.0	45.3	48.2	50.1	50.4	49.0	46.3	45.8	44.1	39.1	40.3	40.6	39.3	38.9		
5	38.9	40.6	38.6	38.7	39.2	39.2	36.8	34.4	36.3	39.4	45.3	50.1	53.3	51.4	48.8	45.4	41.1	39.9	42.2	43.4	43.8	43.3	42.6	41.6		
6	40.1	37.1	37.3	37.0	37.4	35.9	33.9	32.7	33.7	35.8	39.9	45.9	50.8	52.4	52.3	51.3	49.2	46.8	44.1	41.0	38.4	41.7	41.9	38.9		
7	32.8	40.0	37.6	38.3	39.8	34.9	34.8	34.4	35.9	38.3	42.7	47.4	50.3	51.3	54.8	49.9	49.3	48.3	42.9	32.4	36.6	35.3	38.3	36.8		
8	35.1	32.8	35.2	38.1	39.7	38.9	35.2	33.4	32.3	35.3	39.1	44.8	47.7	49.3	48.2	46.6	44.9	42.8	42.0	41.9	42.2	42.7	41.9	41.4		
9 *	40.0	38.5	39.3	38.7	38.4	38.4	36.5	35.3	35.0	36.2	39.8	45.1	47.9	48.7	48.4	47.0	44.8	42.8	41.7	42.1	42.4	42.4	41.4	40.3		
10 *	39.3	38.6	38.6	38.1	38.4	37.9	36.7	35.3	34.3	36.0	40.4	45.1	48.3	49.3	49.3	47.4	45.0	42.8	41.9	42.2	42.3	42.4	41.9	41.8		
11	41.1	40.9	40.8	40.2	39.3	38.3	36.2	34.3	35.3	37.3	42.4	48.9	51.8	51.4	50.3	47.1	49.0	44.3	41.9	37.4	38.6	40.8	39.3	39.8		
12	40.8	40.9	40.3	38.8	38.1	36.8	34.5	33.9	35.3	40.1	43.8	47.3	48.4	46.4	44.4	42.8	41.3	41.3	42.2	44.3	45.3	39.3	38.4	35.6		
13	33.0	29.7	34.3	36.3	40.1	42.6	41.8	40.0	44.3	45.7	49.9	49.8	52.0	51.3	47.0	45.3	41.2	40.4	41.0	38.4	37.5	32.8	28.7	34.5		
14 **	37.9	41.1	33.0	37.5	43.7	44.4	43.5	42.3	39.8	40.0	45.8	48.8	51.0	47.0	47.3	44.3	44.4	30.4	38.9	41.4	35.3	40.7	33.6	33.7		
15 **	33.2	41.1	37.9	42.3	38.0	35.0	34.4	34.8	39.6	41.4	43.9	46.4	48.3	50.2	49.6	49.5	43.3	43.3	43.3	43.4	31.8	43.5	39.4	39.5		
16	40.5	42.0	40.5	38.9	38.3	38.3	39.0	38.1	36.9	38.4	41.6	45.4	47.6	47.1	46.8	44.4	41.9	40.4	39.8	41.3	36.3	36.8	36.3	41.3		
17	35.3	36.6	42.4	36.3	36.5	38.3	38.1	36.8	36.8	37.8	43.3	45.9	50.7	50.7	49.3	46.6	42.6	42.9	37.8	35.2	37.9	36.8	31.9	44.8		
18	37.2	32.8	37.8	39.1	35.8	39.3	39.9	37.3	37.1	39.7	42.3	46.3	49.2	47.6	46.6	46.3	44.3	36.3	42.4	38.8	38.1	39.2	40.4	37.3		
19	38.3	39.3	41.7	45.0	42.7	40.1	40.9	39.3	39.9	39.3	42.5	44.7	47.4	48.4	48.4	48.4	43.7	38.8	42.2	37.3	36.3	36.9	39.3	42.8		
20	35.7	37.6	41.1	41.2	41.7	43.7	42.4	37.8	37.2	37.3	39.3	41.4	45.9	47.7	48.2	46.9	40.3	41.0	41.4	41.9	40.9	38.4	34.4	34.9		
21	37.8	39.9	41.4	44.3	46.3	45.8	43.5	39.2	37.9	38.3	39.0	42.3	46.6	47.8	48.4	48.3	44.3	39.8	36.4	41.1	38.9	37.3	37.7	38.1		
22	39.3	40.0	40.6	40.9	42.0	44.8	42.1	43.4	40.3	36.9	40.9	43.0	47.3	49.6	50.4	49.7	42.2	44.0	42.2	36.2	35.3	32.6	35.6	33.4		
23	39.3	36.3	38.8	40.9	41.1	50.0	44.2	40.8	42.5	42.8	44.3	46.8	47.9	48.4	48.3	46.9	44.8	43.4	42.8	42.3	41.9	41.4	40.7	40.7		
24 **	35.5	34.3	36.6	41.5	44.3	42.8	42.4	40.3	38.8	40.4	44.9	46.1	51.1	53.6	54.4	54.5	41.7	42.5	27.6	29.7	31.3	32.5	33.2	39.9		
25 **	28.8	18.8	22.8	30.0	38.9	38.8	34.5	25.8	32.3	35.7	44.0	48.8	51.8	50.4	51.3	49.8	46.8	45.2	38.6	39.1	31.3	35.4	32.6	36.8		
26	38.3	36.9	38.6	34.9	35.5	36.4	36.2	34.5	34.9	36.9	41.3	46.7	48.9	49.3	46.4	44.7	43.3	43.6	43.2	40.3	41.3	41.8	38.3	36.8		
27	39.9	37.7	31.3	32.4	34.8	36.7	35.3	35.3	35.0	36.9	41.0	46.3	49.6	49.3	45.9	43.3	41.4	41.3	42.2	42.7	42.3	41.3	39.8	37.9		
28 *	38.7	37.6	37.3	37.7	38.5	38.2	36.4	34.4	33.9	35.4	38.7	45.3	50.7	49.4	47.5	44.3	43.4	43.1	43.1	43.0	43.8	40.7	38.9	39.2		
29 *	39.3	38.9	38.4	38.3	38.6	36.9	35.3	34.0	32.6	35.6	39.8	43.3	45.3	46.4	46.7	46.2	43.5	41.3	41.3	41.3	40.9	37.3	35.0	35.5		
30	35.4	39.1	39.6	38.0	38.3	38.5	37.8	34.9	32.8	33.3	35.6	39.7	43.3	45.3	46.6	46.3	45.2	43.9	44.4	46.8	42.2	41.8	40.6	39.4		
Mean	37.8	37.6	37.7	38.3	38.6	39.1	37.7	35.8	36.0	38.1	42.2	46.1	49.6	49.6	48.8	47.0	44.2	42.2	41.3	40.3	39.2	39.3	38.2	38.7		
Mean *	39.1	38.4	38.1	37.9	38.1	37.6	36.1	34.8	34.2	36.2	40.4	45.6	49.1	49.5	48.6	46.7	44.6	43.0	42.6	42.6	42.3	41.1	39.7	39.6		
Mean **	34.9	34.5	33.1	37.1	39.2	39.0	37.1	34.2	34.8	39.4	45.4	47.7	51.0	51.0	50.4	48.5	44.6	41.1	37.6	38.2	33.4	37.9	36.3	37.8		
October																										
9° + Tabular Quantities																										
1	31.3	33.3	32.8	28.5	35.8	37.9	38.8	36.8	35.1	36.1	41.3	43.2	45.4	47.9	48.3	45.8	45.2	44.3	43.0	45.4	40.4	44.6	33.3	34.3		
2 **	28.3	27.9	27.4	30.3	31.8	35.4	35.0	37.2	38.1	39.9	45.9	49.3	54.0	53.4	51.4	43.3	45.5	44.8	43.7	36.2	37.6	31.3	26.7	27.9		
3	31.0	33.2	29.6	32.8	40.3	33.9	36.2	31.9	29.7	32.7	37.7	42.1	45.3	50.9	47.3	45.2	42.7	42.1	41.4	41.2	40.9	38.9	32.5	35.3		
4	37.3	37.9	38.9	39.3	38.2	38.3	36.3	33.5	32.0	32.9	36.9	42.4	46.9	48.5	48.8	46.6	44.0	42.7	42.3	41.8	40.9	40.2	39.6	39.2		
5	39.3	39.3	39.3	39.9	39.3	39.3	38.2	35.1	33.6	34.9	39.6	42.8	47.4	48.7	49.3	46.6	44.4	43.7	42.6	42.1	41.7	40.5	39.4	37.3		
6	37.9	37.8	39.1	38.7	39.4	39.7	37.8	35.2	32.8	33.0	36.4	41.3	47.2	49.8	49.6	48.4	46.3	44.2	43.0	42.3	41.8	39.3	39.3	39.0		
7	38.7	39.1	39.3	39.8	39.7	39.6	39.3	37.3	35.3	35.4	37.8	41.3	45.3	47.0	47.9	47.7	47.3	47.0	42.7	45.9	39.7	32.0	39.3	39.8		
8	38.8	37.9	38.3	37.3	39.3	38.5	39.2	38.1	36.3	35.8	38.3	40.9	45.4	48.3	48.0	46.2	45.4	42.7	43.0	42.2	42.4	41.9	41.1	39.2		
9 **	35.3	37.7	33.3	33.7	37.4	39.3	41.1	42.0	43.2	41.1	43.3	47.2	52.2	52.7	50.9	46.3	50.8	48.9	41.4	39.0	37.9	35.7	35.5	30.2		
10 **	33.1	37.9	35.8	35.4	35.8	40.1	41.8	42.1	40.0	40.7	46.0	46.7	49.7	50.6	51.7	50.3	43.6	41.3	42.3	40.8	27.3	35.0	28.0	31.3		
11	35.2	33.6	39.6	39.9	42.0	39.8	39.3	36.5	35.2	38.7	41.9	43.8	46.8	48.3	49.2	38.0	38.0	43.1	40.8	42.0	35.7	31.8	31.9	30.8		
12 **	37.1	31.2	32.4	39.3	38.7	41.2	48.5	47.7	39.8	38.8	42.3	45.0	49.2	50.1	46.9	43.9	37.3	40.1	33.7	32.7	34.4	36.2	38.2	38.3		
13	37.3	40.6	42.1	38.2	42.6	46.3	44.4	40.9	38.3	37.2	40.8	42.7	44.7	45.2	44.4	43.3	34.3	31.3	31.3	38.7	39.3	31.6	31.4	33.6		
14	35.9	38.4	42.8	39.7	39.3	47.4	53.2	40.7	37.3	38.8	41.3	45.3	47.9	48.4	48.4	44.6	43.0	40.9	33.4	35.0	27.3	28.3	31.4	33.3		
15 **	37.3	39.0	39.3	39.3	43.3	44.7	42.9	40.0	39.9	36.6	40.3	44.8	48.3	48.7	43.7	44.3	46.2	40.8	37.7	41.4	39.7	33.8	36.9	36.3		
16	34.1	33.8	37.2	40.4	40.9	41.2	40.6	40.3	38.6	37.7	39.9	43.5	46.4	48.8	47.2	39.8	42.5	41.3	40.4	41.3	40.5	39.4	39.3	40.3		
17	42.4	40.3	38.4	39.3	40.9	39.9	39.7	37.7	36.0	38.1	42.4	46.5	49.3	47.5	47.4	42.4	43.4	41.5	35.3	38.6	39.3	39.8	39.4	38.9		
18	39.1	40.4	40.5	41.3	40.3	40.3	39.4	37.8	37.9	39.3	42.9	46.3	49.0	50.3	48.											

MAGNETIC OBSERVATIONS, ABINGER 1947.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
November																										
9° + Tabular Quantities																										
1	37.9	38.9	39.9	39.3	39.3	39.3	39.3	38.2	36.9	37.9	40.7	44.4	44.5	45.4	44.3	43.8	43.0	42.3	42.1	41.8	41.3	38.3	36.8	38.3	36.8	38.3
2	39.3	38.8	40.3	38.0	37.3	38.4	38.3	38.0	36.3	36.8	39.7	42.8	45.3	45.7	45.1	43.5	42.3	42.3	42.0	41.7	41.0	40.4	39.3	39.8	39.3	39.8
3 *	40.3	40.3	40.3	40.2	40.1	39.4	39.3	38.4	37.0	36.8	39.7	41.7	43.8	44.4	43.8	43.9	42.8	42.8	42.8	40.8	40.3	40.0	38.9	37.5	38.9	37.5
4	36.2	37.4	38.9	39.8	39.3	39.3	39.3	38.3	37.3	38.3	41.7	44.4	46.8	47.1	47.3	41.9	43.7	43.7	42.8	41.4	40.8	40.3	39.2	38.6	39.2	38.6
5 *	39.7	39.3	40.6	39.4	40.1	39.7	38.9	38.3	37.4	38.9	41.8	43.9	44.8	44.2	43.4	42.3	42.2	42.0	42.2	41.5	41.2	40.5	40.3	39.2	39.8	39.8
6 *	39.9	39.9	39.8	40.1	39.7	39.3	39.0	38.9	37.8	38.3	40.1	42.1	43.6	43.3	42.3	41.8	41.9	41.6	41.9	41.7	40.9	40.8	40.3	40.4	40.4	40.4
7 *	40.0	40.1	39.9	40.3	40.3	40.0	40.0	39.8	39.1	39.2	41.4	43.3	43.8	43.5	42.9	42.2	42.4	42.3	41.6	41.4	41.8	40.8	39.4	39.4	37.1	37.1
8 **	37.9	36.4	38.2	37.2	38.3	38.9	40.8	41.8	39.3	38.6	42.3	43.8	45.7	47.9	49.0	46.4	42.8	41.8	40.1	37.3	34.8	32.9	36.4	36.6	36.6	36.6
9 **	39.8	36.6	36.4	38.7	37.9	40.3	41.2	39.3	37.5	39.5	42.8	47.2	48.3	51.7	46.7	49.4	44.3	41.7	36.7	40.3	31.9	24.0	30.5	35.0	35.0	35.0
10 **	25.9	31.9	32.6	37.3	38.3	39.3	42.4	39.3	37.9	37.8	39.2	41.9	43.5	42.3	40.3	43.0	42.7	34.9	37.2	39.3	40.3	38.2	30.9	36.3	36.3	36.3
11 **	32.9	37.0	32.4	38.3	38.2	37.9	38.7	39.1	39.1	38.8	41.3	44.0	43.6	50.3	44.4	48.6	44.0	33.9	42.1	40.1	38.8	36.8	35.4	38.4	38.4	38.4
12	37.3	36.9	36.6	35.8	39.9	39.5	39.7	40.1	39.8	38.2	38.9	41.3	43.8	44.2	42.7	42.7	40.8	38.6	38.6	38.8	38.2	38.7	38.2	36.4	36.4	36.4
13	36.5	38.0	39.8	39.6	39.3	38.5	38.3	37.8	36.7	38.8	41.2	42.9	42.9	44.2	43.3	42.3	40.3	40.7	36.6	38.3	39.4	39.3	38.4	37.7	37.7	37.7
14	38.4	39.7	40.4	40.4	40.1	39.4	39.0	39.3	38.4	38.0	40.1	43.0	45.4	46.9	46.4	44.8	42.4	38.7	40.5	38.4	36.4	36.2	35.8	38.3	38.3	38.3
15	39.0	38.8	39.9	38.4	39.4	39.4	39.3	39.2	38.4	38.1	39.4	42.6	44.2	45.5	44.4	42.9	42.1	41.5	39.4	40.4	39.8	38.5	37.0	35.0	35.0	35.0
16	39.2	35.9	36.6	38.3	38.8	39.7	40.5	40.8	40.2	40.5	41.1	43.9	45.1	45.8	45.2	43.6	42.7	42.8	41.3	40.2	39.5	39.1	39.0	39.0	35.9	35.9
17	36.9	38.0	38.9	40.6	41.2	39.4	39.0	38.4	37.9	38.0	39.8	42.4	43.0	44.4	44.4	43.8	43.0	43.4	42.0	41.4	40.5	39.7	39.0	39.1	39.1	39.1
18	39.7	38.5	40.4	40.5	38.9	38.4	38.4	38.4	38.7	37.9	39.7	41.4	44.2	45.1	45.0	45.0	44.9	44.8	42.3	40.2	39.8	38.0	36.4	36.3	36.3	36.3
19 **	37.9	39.5	39.5	40.3	41.4	41.4	40.3	41.9	40.5	39.4	40.9	43.1	45.0	45.6	44.0	42.4	40.8	42.4	39.8	38.0	36.4	35.8	36.0	36.8	36.8	36.8
20	38.4	38.4	38.0	39.4	39.3	38.3	38.4	37.8	37.0	36.8	39.3	41.9	43.4	45.3	44.6	43.0	41.4	40.4	40.1	40.4	40.1	37.1	35.8	37.9	37.9	37.9
21	38.7	39.5	40.0	38.9	38.7	38.9	38.4	38.4	37.5	37.0	38.9	41.8	45.3	45.3	44.9	43.9	40.1	44.4	44.9	42.4	40.0	39.1	39.5	39.7	39.7	39.7
22	39.8	39.4	39.1	38.6	38.8	38.9	38.5	38.4	37.9	38.2	39.5	41.0	43.2	45.1	44.2	42.3	40.9	41.0	41.2	40.5	40.4	39.7	39.6	39.8	39.8	39.8
23	40.0	39.4	39.4	38.5	39.3	38.4	38.6	40.4	43.3	41.3	41.1	42.5	44.4	44.4	44.0	43.5	42.8	42.4	41.5	40.6	40.5	39.5	38.3	38.1	38.1	38.1
24	37.4	37.6	38.0	38.4	38.4	38.5	38.3	38.0	37.0	37.5	39.6	41.0	42.8	43.3	42.7	42.6	41.8	41.6	44.9	37.4	36.3	37.7	37.0	32.8	32.8	32.8
25	35.1	38.5	39.5	38.4	37.9	37.8	38.5	37.9	38.5	38.5	38.5	40.9	42.3	43.0	42.2	42.0	41.0	40.9	40.8	40.6	40.6	40.0	39.5	39.0	39.0	39.0
26 *	38.5	37.6	38.3	38.4	38.6	38.4	38.5	39.0	38.6	37.2	38.9	41.1	42.9	43.2	42.7	42.2	42.1	41.7	42.0	41.0	41.0	40.0	37.4	36.0	36.0	36.0
27	36.2	37.6	38.8	39.6	38.7	38.6	38.6	38.1	37.1	36.6	37.7	40.6	43.0	44.5	43.7	43.0	42.0	41.6	41.6	41.1	40.5	40.0	39.6	39.6	39.6	39.6
28	39.7	38.9	39.9	40.1	40.3	40.0	39.7	39.2	38.4	37.7	38.8	41.3	42.7	43.7	44.3	44.0	43.7	42.8	42.2	41.2	39.9	39.6	38.8	39.1	39.1	39.1
29	38.8	38.7	38.9	37.7	37.7	37.7	38.6	39.1	38.3	37.4	38.8	40.9	42.9	44.3	44.8	43.8	43.4	43.4	44.2	40.6	39.8	37.1	35.2	37.3	37.3	37.3
30	39.1	39.4	39.7	39.3	39.2	39.0	38.8	38.0	36.9	36.3	38.7	40.2	43.0	43.7	43.9	43.5	42.4	42.2	40.1	37.4	38.2	36.7	38.3	38.2	38.2	38.2
Mean	37.9	38.2	38.7	39.0	39.2	39.1	39.2	39.0	38.2	38.1	40.1	42.4	44.1	45.1	44.2	43.6	42.4	41.5	41.2	40.2	39.3	38.2	37.6	37.7	37.7	37.7
Mean *	39.7	39.4	39.8	39.7	39.8	39.4	39.1	38.9	38.0	38.1	40.4	42.4	43.8	43.7	43.0	42.5	42.3	42.1	42.1	41.3	41.0	40.4	39.3	38.2	38.2	38.2
Mean **	34.9	36.3	35.8	38.4	38.8	39.6	40.7	40.3	38.9	38.8	41.3	44.0	45.2	47.6	44.9	46.0	42.9	38.9	39.2	39.0	36.4	33.5	33.8	36.6	36.6	36.6
December																										
9° + Tabular Quantities																										
1	38.4	38.7	38.4	39.7	39.3	39.3	39.2	39.2	37.7	38.1	39.6	40.1	42.1	43.1	43.2	43.3	41.7	41.3	41.3	40.4	39.5	39.2	38.7	38.7	38.7	38.7
2	38.7	39.0	39.1	39.7	39.7	39.4	39.5	39.6	39.2	38.4	40.2	41.7	45.2	45.0	44.2	44.7	41.8	43.6	41.8	40.0	39.7	37.7	37.1	37.2	37.2	37.2
3 *	37.9	38.4	38.2	38.8	38.8	38.3	38.3	39.3	38.8	38.6	39.8	41.1	42.0	42.9	42.3	42.2	41.7	41.1	41.2	40.2	39.8	39.4	38.8	39.1	39.1	39.1
4	39.1	39.6	38.8	39.1	39.1	39.6	40.1	40.1	39.7	38.5	38.7	40.3	41.7	41.6	42.2	42.3	41.7	42.4	41.7	40.7	39.0	36.6	37.1	38.3	38.3	38.3
5	39.1	42.7	37.8	40.9	37.7	38.2	39.6	39.7	39.4	40.4	41.7	42.1	43.8	44.2	43.6	43.1	42.3	41.5	38.9	40.2	38.9	39.3	37.9	33.1	33.1	33.1
6 **	33.1	25.3	29.0	34.7	40.2	39.6	39.4	39.6	39.3	41.2	44.1	46.3	47.4	45.4	45.5	46.6	44.4	42.2	38.5	35.3	37.6	30.5	28.0	33.2	33.2	33.2
7	37.7	39.6	40.2	40.7	40.1	40.3	40.2	39.8	38.8	38.0	38.5	40.1	42.2	42.6	42.8	43.7	38.9	42.7	42.9	38.3	40.6	39.7	39.4	39.0	39.0	39.0
8	38.8	38.8	39.6	39.3	39.3	39.1	43.9	41.1	38.6	37.7	39.3	40.5	41.2	43.1	41.7	41.1	40.6	40.7	40.6	40.3	39.3	38.7	38.5	38.6	38.6	38.6
9 **	39.3	39.4	39.1	39.8	37.3	39.3	41.7	40.7	40.3	39.2	39.7	43.4	43.7	45.6	41.8	41.5	41.1	37.8	38.6	38.7	35.2	35.2	35.1	36.8	36.8	36.8
10	37.0	38.8	40.6	39.2	37.9	38.6	38.9	39.7	39.7	39.2	39.8	42.7	43.7	44.1	42.8	42.6	40.7	40.7	40.3	39.5	38.7	36.7	33.3	34.7	34.7	34.7
11	35.6	37.7	38.4	40.0	41.2	41.6	40.3	39.2	37.3	37.7	38.7	42.0	43.5	44.3	42.7	42.6	41.8	41.9	41.1	40.2	34.3	38.3	38.3	35.5	35.5	35.5
12 **	35.2	38.3	40.2	38.7	41.5	39.5	40.2	40.3	39.7	39.2	39.7	41.3	45.1	45.1	44.5	43.7	42.7	41.6	41.7	38.4	38.1	36.9	34.8	34.3	34.3	34.3
13 **	37.2	38.2	40.5	40.9	39.3	40.2	40.8	41.7	42.2	41.3	40.5	41.6	42.8	43.1	44.2	42.3	38.8	38.2	38.7	38.3	35.3	34.7	37.6	38.3	38.3	38.3
14	38.9	39.6	39.7	40.7	39.7	39.8	40.4	41.0	41.2	41.0	40.7	43.2	45.8	43.6	41.3	41.3	40.1	38.7	39.2	39.0	36.7	37.7	37.0	37.1	37.1	37.1
15	37.7	36.7	38.6	39.2	39.6</																					

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January		18000 γ + Tabular Quantities (in γ)																							
1	587	588	591	599	601	599	600	598	593	592	579	571	579	573	569	568	577	587	588	588	588	585	581	587	587
2	583	583	583	583	588	593	597	597	587	578	573	572	576	582	576	564	539	560	580	585	584	587	588	589	589
3	585	584	587	587	589	585	585	593	588	578	566	571	568	565	560	561	563	561	539	542	552	571	582	572	572
4 **	570	565	572	571	569	572	573	571	567	557	554	562	552	570	577	540	545	555	550	554	574	576	571	567	567
5 **	573	569	563	571	573	577	590	583	580	561	557	560	562	567	565	567	566	555	559	537	568	544	551	560	560
6	567	569	570	568	569	570	572	560	555	552	548	542	541	546	540	558	553	557	556	563	564	568	567	567	567
7	571	573	581	583	577	576	575	583	573	560	553	547	554	563	567	570	568	576	577	580	580	572	574	578	578
8	577	578	581	578	582	582	582	585	575	572	575	574	577	577	572	573	579	582	581	583	583	582	582	583	583
9 *	582	581	586	587	589	591	592	592	587	579	569	568	568	569	571	573	577	583	585	584	584	584	584	585	585
10 *	589	588	589	589	591	593	595	593	591	586	581	577	580	581	582	587	591	597	594	592	593	591	591	591	591
11 *	587	588	591	593	597	599	602	603	602	596	588	581	586	584	585	589	591	593	596	594	594	592	591	590	590
12 *	590	590	591	592	594	597	596	597	593	587	583	583	587	587	588	591	594	597	598	597	597	597	592	591	591
13 *	591	590	593	592	595	597	601	597	592	581	570	571	577	583	590	597	597	597	597	597	597	592	584	586	586
14	583	589	587	587	589	594	597	597	589	578	572	574	582	587	585	587	581	585	589	591	593	597	593	592	592
15	589	586	587	589	591	598	595	597	585	572	563	567	574	577	583	583	591	593	598	597	582	577	568	571	571
16 **	567	569	568	586	537	567	587	594	597	580	563	567	568	567	572	566	594	547	551	541	517	523	542	543	543
17	533	563	545	547	552	552	554	557	563	551	531	542	552	550	552	557	562	568	569	567	567	583	564	563	563
18	562	568	567	567	570	570	573	572	567	555	551	548	555	559	557	566	570	559	569	567	562	570	574	574	574
19	582	571	563	568	573	580	582	575	572	563	549	541	551	556	554	561	571	577	581	581	582	573	575	583	583
20	571	573	573	575	577	584	591	589	583	572	563	561	563	566	572	577	577	587	571	563	568	578	581	583	583
21	575	585	580	576	576	587	587	583	585	577	571	566	571	575	570	569	576	582	587	587	587	588	587	583	583
22	582	582	587	587	589	589	593	593	584	575	568	561	562	573	582	585	581	567	570	571	577	575	585	584	584
23	577	577	576	577	581	586	587	587	587	583	573	571	573	582	582	583	581	583	586	583	574	580	581	587	587
24	587	588	589	591	592	593	596	557	559	563	551	544	542	548	556	573	574	574	571	561	563	571	575	583	583
25 **	582	581	587	617	611	569	551	531	517	510	488	473	496	513	514	543	517	527	517	517	493	495	502	500	500
26 **	511	511	521	541	577	537	553	527	521	506	501	500	502	508	528	533	543	543	544	541	554	553	555	560	560
27	556	559	555	560	560	561	561	556	549	538	535	533	545	554	550	567	572	584	569	562	592	569	562	559	559
28	581	565	565	568	572	572	572	563	561	558	550	543	545	556	556	567	570	574	574	576	580	572	567	565	565
29	567	568	568	572	583	577	583	579	571	559	543	537	543	554	552	551	561	569	575	582	583	579	581	579	579
30	579	578	574	573	573	579	579	578	579	580	573	565	560	568	572	573	572	577	581	580	582	584	573	567	567
31	562	566	571	577	583	581	579	579	575	564	555	557	561	569	572	571	573	574	579	583	585	583	578	587	587
Mean	574	575	576	579	581	581	583	580	575	567	558	556	560	565	566	569	571	573	574	572	574	574	574	574	574
Mean *	588	587	590	591	593	595	597	596	593	586	578	576	580	581	583	587	590	593	594	593	593	591	588	589	589
Mean **	561	559	562	577	573	564	571	561	556	543	533	532	536	545	551	550	553	545	544	538	541	538	544	546	546
February		18000 γ + Tabular Quantities (in γ)																							
1	587	582	580	580	586	591	589	588	572	563	554	551	551	560	570	576	577	577	580	580	579	577	586	586	586
2	584	584	585	584	587	591	590	587	581	571	561	553	549	557	567	575	579	586	584	587	587	573	578	578	578
3	580	579	581	582	582	584	590	592	593	590	570	553	552	553	558	574	581	583	587	593	591	591	595	594	594
4	597	606	594	584	583	588	599	607	597	577	564	554	538	542	557	563	569	577	578	581	581	574	579	590	590
5	583	582	582	584	585	587	587	587	584	577	567	568	573	576	582	585	578	579	583	583	585	587	583	582	582
6	583	588	590	591	592	590	607	603	582	572	567	563	561	568	575	574	579	577	577	573	583	591	590	590	590
7	588	587	589	592	593	597	597	593	596	586	574	562	565	564	561	581	587	583	562	568	572	580	582	589	589
8 **	591	597	594	587	587	587	592	585	576	569	551	527	527	541	537	531	541	537	531	539	524	543	553	551	551
9 **	553	551	563	577	569	577	564	561	563	547	538	538	557	558	558	561	562	558	575	585	571	574	572	558	558
10	557	561	566	563	566	571	583	593	586	572	542	534	535	540	541	545	561	572	573	573	573	575	580	577	577
11	576	575	576	578	583	582	583	581	571	555	542	540	545	552	564	577	578	583	587	587	592	589	585	587	587
12	589	586	587	587	592	596	598	594	585	568	559	552	553	563	567	573	573	580	582	585	589	588	587	582	582
13	582	585	587	589	593	596	597	597	586	571	551	549	553	557	562	573	581	581	588	590	594	594	593	593	593
14 *	591	590	591	592	593	597	599	595	587	578	567	554	550	562	573	580	580	582	587	592	593	592	591	590	590
15 *	592	592	593	594	595	597	601	598	585	572	557	547	551	561	572	574	577	581	587	590	590	592	593	592	592
16 **	592	591	593	619	621	615	619	620	597	565	524	492	464	476	491	472	472	504	512	513	514	509	512	504	504
17 **	479	537	537	532	518	563	547	519	507	505	503	501	507	501	513	523	531	538	551	551	557	554	554	553	553
18	566	551	556	558	562	563	557	553	547	541	533	536	543	549	554	553	557	563	569	564	556	563	565	553	553
19 **	561	562	561	560	563	565	562	577	570	556	549	540	541	542	560	558	544	560	543	554	563	567	567	565	565
20	586	564	574	584	582	570	564	562	557	552	551	551	554	554	561	563	565	571	573	575	580	579	579	581	581
21 *	581	580	583	583	583	583	587	583	573	557	546	539	547	561	571	575	576	579	581	583	585	584	586	587	587
22 *	587	585	587	587	589	592	593	588	583</																

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
March																										
18000 γ + Tabular Quantities (in γ)																										
1 *	590	588	584	584	587	587	590	592	585	572	565	569	573	577	575	579	581	581	587	590	594	593	596	588		
2 **	589	587	582	581	592	594	593	592	651	655	592	581	556	505	502	524	540	545	524	496	511	506	513	499		
3 **	476	511	511	502	522	532	532	519	477	442	458	447	430	440	478	462	481	517	517	501	437	464	409	377		
4	497	469	501	551	501	569	542	520	450	455	506	511	513	503	498	521	528	534	538	569	529	540	552	552		
5	552	555	552	549	555	560	559	558	562	556	538	541	546	542	536	544	546	555	559	562	568	569	571	571		
6 *	569	576	566	567	573	576	578	578	567	552	542	542	550	552	555	551	558	564	568	570	576	578	576	578		
7	577	576	576	576	578	585	586	580	568	549	533	536	531	526	545	551	566	586	586	582	584	583	582	581		
8 **	591	586	589	602	601	600	609	593	569	520	510	506	509	483	536	542	533	531	497	466	462	464	460	480		
9	488	514	496	536	530	526	500	491	460	470	456	449	455	482	501	517	523	526	542	549	568	568	562	562		
10 *	561	563	563	569	566	572	571	561	543	522	511	512	521	529	536	559	561	561	566	574	579	579	576	573		
11 *	575	574	573	576	579	580	580	576	557	541	531	530	528	543	553	565	570	573	578	581	582	581	581	581		
12	591	589	588	593	597	618	613	606	589	565	551	548	548	559	584	569	566	579	583	588	590	589	586	588		
13	587	587	586	582	591	591	597	585	576	566	557	556	547	558	569	573	581	585	596	605	596	603	602	600		
14	602	591	593	596	609	604	603	605	592	574	562	558	552	534	553	576	579	550	575	577	572	576	570	572		
15 **	580	578	572	571	572	561	560	538	500	469	470	506	539	529	489	521	533	489	521	529	531	529	529	547		
16	534	536	540	536	537	540	541	542	536	530	522	520	521	530	526	526	539	560	567	551	532	536	536	536		
17	529	543	550	540	560	536	538	537	519	518	517	518	531	541	546	543	548	560	566	567	578	574	571	569		
18	572	559	562	559	560	565	566	561	556	549	536	536	549	553	556	549	570	566	576	586	577	579	575	576		
19	581	586	568	572	567	569	571	561	550	545	541	545	551	552	558	564	571	580	578	580	587	566	571	571		
20	585	590	578	581	585	585	585	577	568	558	551	552	559	567	571	572	575	577	585	569	577	584	582	581		
21 *	581	578	576	585	581	589	584	578	571	558	552	561	564	577	586	578	575	580	587	590	593	590	576	570		
22	575	579	585	611	619	627	599	572	563	541	551	559	560	568	569	553	576	571	573	577	580	585	587	588		
23	590	593	586	584	588	588	588	588	585	570	570	575	577	559	572	569	567	540	550	560	555	560	573	573		
24	575	577	585	578	552	608	581	562	555	539	531	530	545	560	567	572	569	572	570	578	575	575	588	585		
25	581	578	578	582	579	575	572	561	552	531	535	541	540	549	562	569	570	571	579	590	588	584	582	592		
26	587	575	590	580	572	573	571	561	538	537	528	518	528	551	556	568	571	563	555	575	580	602	581	572		
27	572	580	575	582	576	591	595	581	563	548	545	552	545	547	551	567	579	579	575	585	572	567	589	585		
28 **	570	555	550	584	581	573	558	533	510	528	515	506	514	555	557	556	576	589	555	532	511	509	535	545		
29	549	545	545	553	555	558	555	545	535	523	515	518	525	525	541	551	560	562	570	581	568	565	578	560		
30	551	575	581	561	564	555	557	550	545	535	524	517	507	529	551	558	548	561	581	575	575	575	574	579		
31	580	581	578	559	562	574	576	571	555	530	543	539	528	529	540	548	558	570	579	577	578	577	578	574		
Mean	566	567	566	570	571	576	573	564	550	537	531	532	534	537	546	552	558	561	564	565	561	563	563	561		
Mean *	575	576	572	576	577	581	581	577	565	549	540	543	547	556	561	566	569	572	577	581	585	584	581	578		
Mean **	561	563	561	568	574	572	570	555	541	523	509	509	510	502	512	521	533	534	523	505	490	494	489	490		
April																										
18000 γ + Tabular Quantities (in γ)																										
1 *	571	570	569	568	571	578	578	579	561	547	536	539	537	550	557	570	583	587	590	587	590	595	593	590		
2	588	585	586	588	588	591	601	597	590	570	559	548	551	558	559	570	585	585	586	592	591	595	595	594		
3	591	591	595	609	592	588	595	591	571	557	547	551	564	574	585	601	598	589	595	601	609	605	602	599		
4	598	585	583	585	591	599	611	600	575	540	530	530	535	539	562	552	571	574	562	575	573	579	565	561		
5	573	570	567	566	571	579	580	571	557	540	527	525	535	542	565	576	581	589	581	581	589	591	591	595		
6	589	591	601	611	597	595	599	579	555	527	517	526	545	555	569	570	561	579	585	595	592	590	594	595		
7	591	588	589	589	591	595	596	587	573	555	542	547	544	556	555	586	569	580	591	590	590	590	595	595		
8	590	590	591	591	594	598	599	592	577	559	536	541	545	552	563	575	590	593	594	595	595	604	621	621		
9 **	602	584	585	590	598	590	571	544	533	508	497	495	531	539	527	545	548	565	578	576	575	581	568	567		
10	570	568	575	564	569	576	577	577	567	551	533	524	532	539	555	575	582	591	590	588	585	585	589	608		
11	596	578	572	575	575	585	579	572	560	545	537	536	538	557	581	590	599	591	582	587	585	587	590	582		
12	574	572	578	580	578	581	579	570	555	538	536	535	540	557	561	577	582	595	592	592	595	596	596	586		
13	576	580	595	578	580	582	588	581	569	559	546	545	559	568	587	583	595	595	595	596	596	604	593	585		
14	590	590	586	590	595	591	587	582	584	581	565	561	566	584	585	595	590	595	609	599	604	592	589	589		
15	598	588	572	584	590	602	599	587	578	559	549	555	555	565	586	602	608	589	594	604	603	590	591	590		
16	585	595	597	578	583	585	584	576	570	565	561	558	550	558	569	579	573	589	598	595	582	588	586	589		
17 **	574	572	581	589	585	592	587	588	579	567	561	565	609	611	574	666	599	602	637	625	527	460	516	496		
18 **	481	514	507	509	515	525	534	527	516	509	505	485	476	508	535	560	529	527	545	565	565	549	541	551		
19 **	549	545	551	546	555	561	558	537	539	529	511	514	538	535	535	557	582	581	577	575	575	580	588	584		
20 **	592	575	579	583	595	574	588	579	574	547	535	536	536	538	555	561	569	597	585	582	575	578	581	579		
21 *	583	585	581	581	585	585																				

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
May																									
18000 γ + Tabular Quantities (in γ)																									
1		597	606	606	595	596	602	586	587	582	572	570	567	574	560	563	579	602	601	584	598	601	599	592	589
2 *		584	583	580	576	581	589	586	579	579	576	573	579	581	590	590	592	599	601	596	596	596	598	602	598
3		596	596	593	596	594	596	592	586	578	564	560	570	582	597	602	612	618	610	602	602	598	598	600	599
4		600	601	600	596	592	586	582	578	576	569	567	570	581	588	594	596	600	602	616	604	605	609	608	604
5		604	606	608	614	606	603	594	579	577	578	570	571	581	588	596	617	612	610	609	608	606	607	602	604
6		601	601	600	601	601	596	595	588	579	572	565	576	588	588	604	600	591	599	610	600	605	603	602	609
7		601	595	599	602	603	601	595	589	581	571	569	569	575	584	591	606	611	610	609	605	607	605	601	601
8 *		601	601	604	604	606	602	598	591	584	575	575	572	579	581	596	605	613	609	604	605	609	607	605	604
9 *		603	601	600	604	605	601	592	582	574	575	580	584	586	585	591	599	597	602	610	613	614	611	607	605
10 *		604	604	605	606	608	609	599	589	577	574	574	568	575	581	588	598	607	608	613	609	609	601	594	594
11		594	594	596	599	596	594	587	578	574	571	565	569	568	570	580	599	610	621	628	618	604	598	591	591
12		593	598	619	588	594	585	571	560	557	554	561	554	559	570	586	594	604	610	609	610	611	608	596	598
13		604	588	589	592	590	585	587	590	594	596	590	581	567	564	573	594	611	629	623	627	610	614	586	586
14 **		574	555	569	564	574	576	578	567	569	578	559	574	564	562	556	553	567	574	590	612	606	598	603	589
15 **		591	589	592	585	589	594	585	583	574	549	567	575	577	587	576	554	576	593	603	604	622	612	601	594
16 **		587	574	580	573	556	574	548	541	554	552	524	532	542	563	557	564	583	601	598	608	600	600	600	594
17		594	591	574	587	584	580	568	570	568	556	563	570	561	554	582	607	604	615	615	608	608	618	598	594
18		593	599	588	578	579	585	580	568	560	569	577	578	576	574	594	596	614	648	640	614	590	594	594	601
19		579	577	582	584	580	578	561	549	549	554	564	558	562	571	556	569	592	608	607	603	605	603	598	589
20		589	590	590	591	592	588	576	561	558	570	577	566	564	577	589	598	594	596	599	608	613	608	608	610
21		604	608	605	607	604	594	584	571	576	579	584	584	580	571	584	601	608	609	607	617	620	619	611	610
22		600	597	601	604	608	602	595	587	577	568	568	569	570	567	576	586	597	609	612	614	618	614	617	631
23 **		628	630	627	627	608	611	631	624	601	584	564	556	559	570	588	617	623	614	616	617	621	616	612	609
24 **		610	609	621	619	620	608	604	568	447	527	551	534	511	523	533	546	577	581	594	586	577	578	584	573
25		566	574	572	572	569	569	559	549	535	522	518	529	532	547	576	592	601	600	609	609	603	602	593	591
26		587	594	599	606	600	604	601	580	566	553	547	529	524	528	544	574	580	620	619	621	614	619	630	610
27		598	598	607	602	605	601	597	574	570	559	552	556	546	547	549	574	598	622	601	608	605	608	604	604
28		605	599	594	597	603	600	593	585	576	564	558	553	561	577	585	574	604	629	623	616	612	616	619	614
29		617	610	608	609	612	611	610	608	598	595	580	575	574	570	588	649	631	610	602	590	590	594	594	590
30 *		590	582	582	584	588	583	573	559	548	543	543	543	549	556	563	580	593	599	605	603	607	607	604	600
31		603	598	602	599	604	602	593	584	573	578	586	591	604	615	620	636	627	620	613	646	630	604	601	611
Mean		597	595	597	595	595	594	587	578	568	566	565	565	566	571	580	592	601	608	609	609	607	605	602	600
Mean *		596	594	594	595	598	597	590	580	572	569	569	569	574	579	586	595	602	604	606	605	607	605	602	600
Mean **		598	591	598	594	589	593	589	577	549	558	553	554	551	561	562	567	585	593	600	605	605	601	600	592
June																									
18000 γ + Tabular Quantities (in γ)																									
1 **		627	609	587	590	572	589	573	544	530	517	519	533	537	539	559	570	579	583	590	592	588	590	589	591
2 *		592	592	592	592	592	583	572	562	552	551	551	551	555	561	568	575	593	597	597	598	601	606	612	606
3		603	597	600	598	598	602	592	582	573	568	566	573	576	586	592	593	596	601	608	613	613	609	609	608
4		610	609	609	610	610	606	593	582	574	574	583	586	598	606	616	617	629	622	606	616	618	612	610	611
5 **		612	614	614	613	611	609	605	581	554	590	611	598	587	596	590	606	622	667	674	642	638	632	613	582
6		563	564	562	567	572	564	555	547	546	546	552	557	566	572	578	584	589	592	601	596	596	598	592	588
7		592	589	595	599	597	593	578	565	552	547	568	575	576	564	572	602	607	606	602	616	617	622	596	576
8		570	578	592	566	578	566	560	552	548	540	538	541	546	553	574	575	576	614	604	605	595	598	593	592
9		586	584	592	599	576	572	565	566	562	548	529	524	527	544	562	583	600	614	609	612	610	604	587	592
10		593	592	600	588	590	598	584	577	567	554	543	557	564	577	578	582	592	602	612	620	616	596	596	592
11		594	594	586	591	589	588	590	574	565	564	558	556	559	576	596	608	606	610	626	608	605	600	598	598
12 *		596	599	601	601	597	587	589	595	592	585	581	582	580	584	598	612	612	622	634	623	606	608	598	593
13		585	593	595	595	595	592	584	581	576	573	571	568	559	560	578	583	595	617	646	626	621	638	624	613
14 **		602	587	595	566	567	568	558	560	532	498	517	533	528	537	537	552	567	594	610	618	620	604	599	604
15		592	578	574	593	589	578	565	556	555	547	542	540	564	557	567	583	590	605	608	606	610	608	605	597
16 *		600	596	591	594	595	595	588	583	576	564	560	563	582	587	589	597	596	602	614	610	612	610	612	618
17 **		614	614	612	627	605	625	602	586	562	567	564	549	555	568	579	577	577	643	617	648	606	605	596	597
18		592	594	596	602	598	590	582	582	578	567	567	574	585	592	587	598	598	599	614	628	612	615	620	612
19		604	597	594	594	594	612	597	579	559	548	556	568	572	588	608	622	618	592	609	612	609	609	611	616
20		601	598	598	605	607	604	588	571	560	548	552	563	575	582	586	609	609	618	622	619	622	622	619	616
21		613	616	617	620	622	614	602	582	558	546	556	568	579	586	588	597	605	619	612	618	628	622	622	612
22		612	617	622	621	622	617	608	597	578	568	566	572	577	594	594	609	626	646	617	622	632	640	622	622
23		628	616	614	616	621	618	608	604	581	568	573													

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	611	606	606	608	616	610	602	588	586	576	566	566	561	561	576	598	621	637	619	608	620	627	620	614	614	616
2	597	596	610	611	611	606	596	579	569	566	570	565	571	581	591	631	634	596	606	616	621	627	612	606	606	606
3 *	600	601	601	604	606	597	582	574	567	568	565	571	574	577	584	605	597	614	611	612	614	611	609	605	605	605
4 *	602	601	601	605	608	606	596	587	581	575	569	566	574	589	606	614	611	608	609	609	610	613	612	610	610	610
5 *	615	610	606	612	611	611	601	592	581	574	573	581	586	589	600	616	621	618	620	620	621	616	611	608	608	608
6	609	609	610	607	608	607	599	583	565	555	559	556	570	570	592	594	624	618	629	620	620	614	614	616	616	616
7	614	606	602	606	613	605	596	590	585	575	569	570	574	589	603	610	604	624	640	642	625	620	615	600	600	600
8	601	501	605	605	609	612	610	604	593	584	569	560	564	576	590	614	619	627	642	623	621	615	611	616	616	616
9	600	599	600	606	613	613	605	593	581	569	566	565	565	575	590	606	615	619	634	626	627	608	606	610	610	610
10	615	600	600	609	606	602	595	584	575	572	564	562	566	579	595	621	620	610	615	624	625	613	604	614	614	614
11	616	603	600	602	606	597	600	594	593	584	575	568	566	572	583	615	618	618	625	638	620	624	605	599	599	599
12	592	594	602	609	595	599	592	581	572	563	553	559	582	594	599	597	603	615	623	603	610	606	603	601	601	601
13	599	595	589	589	596	592	589	576	566	559	552	549	565	588	583	614	612	624	620	610	616	609	607	599	599	599
14 *	603	605	600	598	599	591	579	571	574	581	579	579	584	590	592	605	624	615	622	625	617	606	604	603	603	603
15	609	609	603	594	598	593	584	572	574	570	564	563	581	586	591	601	619	610	621	612	606	608	602	605	605	605
16	609	616	602	601	601	601	591	582	577	570	571	576	585	587	594	605	609	611	609	609	610	615	615	617	617	617
17 **	622	618	616	617	616	614	607	591	581	573	575	590	591	597	600	613	633	663	801	739	694	620	588	549	549	549
18 **	563	586	592	600	619	602	582	576	566	553	553	541	547	592	589	540	575	623	641	600	553	562	576	585	585	585
19 **	559	546	554	573	569	573	558	562	537	507	493	529	539	536	552	571	589	605	604	596	605	593	589	589	589	589
20 **	595	595	585	582	581	585	570	544	555	543	525	504	530	531	552	587	551	567	594	597	602	592	589	577	577	577
21	580	587	586	589	595	605	575	569	560	547	542	549	551	569	589	605	612	621	625	619	612	606	600	595	595	595
22	596	593	587	600	605	599	595	586	566	557	567	571	564	590	579	577	601	612	618	625	614	605	601	595	595	595
23 **	597	596	594	599	595	606	588	574	565	543	540	542	559	571	553	583	579	600	606	613	621	613	595	592	592	592
24	598	594	593	591	589	601	601	582	572	555	546	547	564	555	588	613	619	604	603	610	618	610	609	607	607	607
25	605	604	600	593	596	600	593	573	563	554	559	570	559	579	559	589	589	612	603	619	611	609	613	606	606	606
26	598	586	595	593	606	608	589	582	588	583	569	578	567	561	589	574	604	590	594	606	605	606	609	593	593	593
27	595	600	596	599	600	596	590	591	584	583	570	556	564	570	574	588	584	597	616	601	605	602	599	601	601	601
28	604	599	599	599	599	598	592	583	569	559	561	559	569	587	596	606	612	614	615	604	603	606	602	597	597	597
29	599	594	598	589	589	577	578	579	566	549	535	543	561	582	594	595	599	594	604	603	595	595	594	592	592	592
30 *	592	594	598	600	609	604	596	585	577	578	578	576	581	592	602	610	613	607	613	613	612	615	608	603	603	603
31	608	607	600	600	599	598	601	597	586	579	578	578	578	572	590	611	622	617	608	612	626	620	617	600	600	600
Mean	600	598	598	600	602	600	591	581	573	565	560	561	567	577	586	600	608	613	622	618	615	609	604	600	600	600
Mean *	602	602	601	604	607	602	591	582	576	575	573	575	580	587	597	610	613	612	613	616	615	612	609	606	606	606
Mean **	587	588	588	594	596	596	581	569	561	544	537	541	553	565	569	579	585	612	649	629	615	596	587	578	578	578
August																										
18000 γ + Tabular Quantities (in γ)																										
1	598	619	603	590	597	588	569	578	563	551	544	553	582	587	596	614	600	606	614	620	622	604	601	598	598	598
2	598	597	600	597	599	598	592	578	572	566	561	568	584	586	596	594	604	619	594	602	616	617	598	593	593	593
3	593	595	598	597	593	588	586	579	569	556	549	543	553	562	571	574	583	600	613	620	609	608	608	601	601	601
4	603	603	600	600	597	590	581	575	570	568	552	558	563	568	578	598	598	597	598	603	609	609	606	600	600	600
5 *	601	602	599	604	604	602	593	585	576	575	571	564	570	575	581	588	604	610	606	606	610	611	609	610	610	610
6	609	604	605	603	603	598	596	593	589	573	557	551	578	588	591	608	604	610	612	622	618	612	606	607	607	607
7	615	603	608	602	602	604	598	587	569	553	555	562	568	578	584	594	607	617	607	618	608	608	602	608	608	608
8 *	608	618	595	596	602	601	594	588	574	560	552	555	556	569	574	588	594	600	603	604	609	608	608	604	604	604
9 *	603	601	604	611	608	607	607	597	587	566	554	553	562	572	578	597	607	617	615	613	613	617	600	597	597	597
10 *	609	607	605	603	606	599	597	587	574	558	545	550	561	570	576	580	593	603	612	620	620	621	611	602	602	602
11	599	596	597	604	607	602	595	582	566	555	558	552	560	593	597	601	606	611	616	613	613	613	611	597	597	597
12	607	628	621	594	593	567	561	557	542	540	543	541	549	546	565	602	580	588	589	595	609	605	593	583	583	583
13	591	591	595	594	598	586	572	568	558	553	552	561	568	556	576	598	639	582	606	609	596	600	600	579	579	579
14	578	586	607	586	588	585	585	580	573	564	560	563	570	570	566	581	595	596	583	593	600	598	603	602	602	602
15 **	594	592	591	592	592	586	580	570	562	568	582	600	620	627	627	640	629	605	625	611	637	583	527	511	511	511
16 **	479	540	530	541	535	523	515	518	500	485	470	519	512	511	529	521	521	535	541	549	565	557	565	579	579	579
17 **	573	571	585	578	575	579	555	531	509	509	519	497	501	519	530	531	544	568	605	575	565	594	571	564	564	564
18 **	562	561	551	577	559	564	572	539	514	477	492	516	484	514	540	550	553	540	594	575	570	574	574	591	591	591
19	574	571	573	577	577	587	584	559	539	529	504	524	509	514	558	587	523	558	577	579	586	579	591	567	567	567
20	573	563	555	577	582	569	546	554</																		

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
September																										
18000 γ + Tabular Quantities (in γ)																										
1 *	594	600	599	593	591	581	572	559	548	552	563	576	582	590	593	598	601	605	613	616	601	596	603	601		
2	599	600	598	597	596	596	582	565	546	542	549	568	582	593	601	600	602	606	609	612	612	612	606	607		
3 **	612	607	611	614	604	585	596	580	519	488	471	500	518	503	506	531	552	580	581	542	554	549	585	592		
4	566	574	550	546	547	552	513	520	511	501	512	519	531	557	567	578	586	600	583	571	578	575	574	579		
5	577	563	574	572	573	577	570	544	530	519	509	529	546	540	552	565	571	576	595	601	611	616	608	595		
6	599	598	584	583	583	579	566	554	546	547	548	561	569	573	576	600	618	583	582	570	578	584	576	583		
7	572	578	586	582	578	582	571	542	530	523	513	511	529	526	566	575	587	589	602	598	551	534	543	568		
8	566	574	559	566	572	570	571	578	576	570	556	550	552	559	554	563	570	571	579	586	586	586	586	582		
9 *	586	575	576	580	582	585	581	576	567	558	548	546	550	556	568	577	589	595	600	600	596	586	586	586		
10 *	587	581	580	582	588	587	585	576	563	552	545	545	551	560	568	576	586	593	600	600	604	609	607	605		
11	601	599	600	602	601	602	595	586	577	566	564	566	557	548	569	567	630	576	569	582	583	589	601	600		
12	600	598	599	597	600	601	604	593	567	552	558	568	572	580	580	582	591	592	591	589	573	561	554	548		
13	550	547	579	595	590	594	563	519	509	491	492	476	491	489	490	521	529	556	561	563	579	559	576	564		
14 **	571	591	575	564	570	591	573	535	536	519	475	470	489	505	522	510	530	557	552	573	556	561	575	569		
15 **	551	557	554	559	565	566	559	514	510	510	491	502	522	516	523	546	527	565	551	564	575	553	565	569		
16	573	580	574	573	574	560	549	539	555	550	541	539	547	559	569	571	571	585	562	575	573	585	559	563		
17	583	575	589	576	586	565	553	565	545	536	529	516	525	547	562	561	551	539	575	553	564	549	559	571		
18	565	572	565	589	599	586	562	550	529	524	509	514	525	524	555	555	569	585	589	581	605	581	579	562		
19	577	571	571	571	587	581	559	557	539	529	525	519	537	547	549	565	562	587	589	596	605	586	582	585		
20	586	568	579	579	581	578	582	581	571	554	535	530	540	545	561	565	580	589	580	580	588	585	582	572		
21	579	580	584	581	599	609	598	598	574	559	545	533	535	535	538	552	565	571	588	576	580	566	588	598		
22	586	587	585	585	588	602	580	579	569	522	507	511	531	535	523	544	560	575	585	582	575	561	568	575		
23	580	571	568	579	580	615	609	569	558	535	515	516	530	537	542	548	561	571	579	585	590	595	591	597		
24 **	605	588	595	594	599	597	593	573	554	533	518	508	521	541	599	600	595	549	531	501	456	455	448	455		
25 **	480	439	486	530	549	485	435	428	473	492	505	493	478	532	552	541	542	542	536	552	557	547	531	538		
26	555	559	565	546	552	556	552	540	531	522	518	530	544	558	557	560	560	565	570	579	578	575	580	571		
27	570	570	579	561	563	567	563	557	549	544	541	551	565	584	579	579	575	575	580	584	585	580	579	571		
28 *	576	585	581	579	575	570	566	562	551	546	532	538	549	568	577	577	585	585	589	593	587	595	584	584		
29 *	584	587	587	586	585	580	577	575	565	557	552	541	543	548	552	556	571	579	578	580	585	575	572	585		
30	585	583	588	589	581	580	579	572	559	549	543	535	535	542	554	563	573	581	604	615	591	590	594	590		
Mean	577	575	577	578	581	579	569	556	545	535	527	529	538	547	557	564	573	577	580	580	579	573	575	576		
Mean *	585	586	585	584	584	581	576	570	559	553	548	549	555	564	572	577	586	591	596	598	595	592	590	592		
Mean **	564	556	564	572	577	565	551	526	518	508	492	495	506	519	540	546	549	559	550	546	540	533	541	545		
October																										
18000 γ + Tabular Quantities (in γ)																										
1	586	585	585	590	592	585	596	559	545	543	539	520	535	565	575	574	584	588	595	603	561	565	556	545		
2 **	553	543	540	551	581	569	545	535	525	498	489	496	499	519	535	575	554	555	550	515	529	509	542	500		
3	517	539	536	547	564	561	544	543	521	492	479	475	505	532	539	545	547	554	565	571	572	594	575	560		
4	559	563	566	570	575	572	571	561	543	528	512	514	519	539	555	561	569	575	580	583	583	581	579	580		
5	577	579	579	581	581	585	583	569	553	539	535	533	547	558	572	577	584	590	591	592	592	590	589	595		
6	595	591	589	588	590	593	589	579	560	541	533	523	535	549	559	571	580	591	597	600	597	589	590	592		
7	589	591	590	591	595	595	597	593	580	550	532	535	539	548	558	570	589	594	572	584	578	578	582	583		
8	577	577	579	582	592	600	597	594	577	558	556	545	551	561	561	551	569	581	576	580	590	595	597	589		
9 **	583	607	592	592	587	599	589	590	579	555	531	508	506	491	507	550	561	532	525	506	532	552	532	529		
10 **	541	565	558	553	569	553	561	541	509	506	512	508	507	475	495	506	525	540	550	535	505	551	551	561		
11	562	550	549	557	554	554	558	532	528	530	521	519	539	525	532	545	552	535	535	546	568	531	528	528		
12 **	556	549	586	551	568	558	541	543	535	522	507	512	520	530	523	540	555	551	551	574	541	560	573	581		
13	578	575	582	584	580	592	578	561	554	549	543	532	536	541	548	555	573	551	553	567	562	577	569	552		
14	562	563	571	571	576	575	565	562	551	519	487	501	515	505	522	531	562	554	569	576	550	542	545	580		
15 **	563	563	568	575	572	582	565	581	565	550	540	529	487	526	535	558	548	540	545	560	564	580	657	565		
16	579	568	569	569	582	585	574	571	561	546	525	506	528	534	545	561	561	566	565	571	579	581	580	585		
17	590	579	575	585	589	591	580	562	544	539	530	535	539	537	542	550	565	565	570	564	572	580	585	585		
18	581	582	579	580	584	589	586	589	567	541	545	545	549	555	559	553	570	569	569	555	560	575	572	580		
19	575	579	584	591	581	584	592	584	559	537	525	540	549	531	553	558	552	558	541	568	555	557	565	575		
20	577	584	588	578	584	575	567	566	551	539	531	530	532	537	556	560	568	576	572	577	579	582	579	599		
21	561	568	575	572	575	583	573	565	555	548	545	541	536	547	559	565	562	563	575	581	582	589	591	589		
22	585	599	590	589	585	593																				

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
November																										
18000 γ + Tabular Quantities (in γ)																										
1	599	596	595	595	599	599	596	590	583	578	571	570	572	577	585	589	593	598	599	600	604	589	576	585	585	585
2	589	593	593	605	605	595	595	590	576	560	553	553	558	568	577	581	588	592	598	600	598	598	594	596	596	596
3 *	596	596	598	598	599	600	602	597	586	577	570	563	571	582	587	591	591	600	596	588	591	595	604	614	614	614
4	605	589	589	592	595	598	599	594	585	571	560	550	555	565	569	563	578	582	585	590	596	595	594	597	597	597
5 *	593	591	590	595	592	597	595	591	581	569	558	561	570	579	581	585	589	592	600	601	601	599	596	597	597	597
6 *	595	595	596	597	597	598	598	595	587	578	575	575	577	585	590	595	595	601	606	605	605	601	599	598	598	598
7 *	597	596	597	600	600	601	602	599	596	596	595	593	592	590	591	592	598	594	597	599	602	600	601	610	610	610
8 **	601	596	592	599	599	601	598	598	582	569	565	555	555	551	549	538	552	560	559	559	563	571	579	581	581	581
9 **	589	592	577	582	585	581	590	587	579	562	570	579	515	530	508	500	501	514	542	550	509	525	491	493	493	493
10 **	491	506	523	525	529	525	527	535	535	529	509	521	520	524	542	545	551	529	560	566	614	584	551	541	541	541
11 **	552	529	558	556	559	568	565	571	570	570	568	559	541	552	520	528	516	507	535	548	567	555	559	571	571	571
12	555	564	584	550	561	578	562	555	550	543	546	545	547	540	536	547	555	559	569	572	569	582	584	577	577	577
13	573	567	566	574	580	582	579	571	556	556	536	524	549	551	550	552	565	569	591	581	582	581	583	590	590	590
14	578	580	585	584	581	585	588	584	581	561	551	549	544	539	542	557	550	572	574	566	559	566	567	578	578	578
15	579	580	596	589	589	589	591	588	566	555	554	555	555	561	569	575	585	582	580	583	579	586	581	581	581	581
16	593	588	587	592	592	583	581	585	580	562	548	547	545	549	558	555	559	567	580	583	583	581	590	593	593	593
17	577	581	581	581	586	591	590	585	574	568	556	552	560	571	571	568	578	585	591	593	594	592	593	591	591	591
18	588	590	587	598	591	590	591	585	576	586	581	576	579	578	572	565	571	575	577	580	575	583	582	588	588	588
19 **	583	585	588	590	588	605	579	569	558	546	540	535	531	532	542	546	559	550	557	543	544	558	581	575	575	575
20	575	572	572	572	572	577	578	578	566	555	547	536	550	557	563	571	577	571	577	585	588	585	581	581	581	581
21	582	583	589	590	587	591	591	587	581	572	567	566	569	571	567	573	581	581	562	566	563	576	586	583	583	583
22	581	582	583	582	585	586	588	588	586	580	575	566	565	567	565	565	569	569	572	583	582	588	588	588	587	587
23	585	585	586	591	595	595	590	578	582	589	578	568	571	574	579	571	573	580	580	585	591	590	599	602	602	602
24	586	586	588	586	587	590	596	594	592	592	585	576	577	579	581	586	590	596	604	571	551	566	585	576	576	576
25	570	573	575	574	576	580	580	585	586	580	567	577	576	576	573	578	584	594	596	596	598	594	591	587	587	587
26 *	584	585	587	584	584	582	582	582	586	586	587	578	576	577	583	588	595	601	601	594	597	591	587	587	587	587
27	581	578	581	587	585	590	597	598	597	592	583	573	572	577	588	597	603	604	612	616	610	606	601	600	600	600
28	597	596	597	601	603	605	607	603	600	596	591	587	587	587	591	593	596	593	601	601	602	603	603	603	603	603
29	603	597	595	608	607	603	610	599	596	591	587	588	587	588	593	591	592	598	583	577	587	578	584	590	590	590
30	593	593	592	593	592	597	593	596	594	584	577	572	574	580	584	589	593	599	582	581	574	578	589	590	590	590
Mean	582	581	584	586	587	589	588	585	579	572	565	562	561	565	567	569	574	577	582	582	583	583	583	583	585	585
Mean *	593	593	594	595	594	596	595	593	587	581	577	574	577	583	586	590	594	598	600	597	599	597	597	601	601	601
Mean **	563	562	568	570	572	576	572	572	565	555	550	550	532	538	532	531	536	532	551	553	559	559	552	552	552	552
December																										
18000 γ + Tabular Quantities (in γ)																										
1	593	602	592	593	595	598	598	597	596	569	578	587	582	583	590	591	593	599	601	598	596	595	594	593	593	593
2	589	589	591	595	593	593	594	592	594	587	582	572	577	585	584	576	567	578	586	595	593	590	587	584	584	584
3 *	590	590	587	589	591	593	594	592	596	588	584	588	584	587	592	594	595	597	599	598	597	596	597	592	592	592
4	591	592	592	592	596	599	610	619	619	614	598	597	591	583	590	586	570	577	587	596	596	590	590	591	591	591
5	591	606	599	593	618	602	607	601	596	592	579	581	585	583	576	580	587	586	588	591	591	597	596	573	573	573
6 **	589	568	575	571	581	585	588	591	592	576	564	566	547	541	536	542	546	546	524	538	567	576	589	580	580	580
7	574	576	580	576	580	582	586	586	570	576	571	566	561	561	563	566	570	569	559	557	568	585	588	583	583	583
8	582	586	586	586	587	596	602	597	587	579	576	571	568	576	579	580	580	580	587	586	590	591	591	595	595	595
9 **	590	592	596	610	602	602	602	608	601	590	570	564	570	559	543	576	570	557	546	552	592	575	571	580	580	580
10	576	579	591	587	590	591	581	585	577	566	552	572	576	571	566	572	573	590	594	590	586	592	582	579	579	579
11	580	582	586	588	596	602	596	592	591	582	569	560	558	561	557	567	573	568	556	556	577	586	589	596	596	596
12 **	588	582	592	586	598	595	600	591	590	586	576	570	541	567	560	566	536	560	559	566	575	576	567	582	582	582
13 **	584	585	595	596	596	591	586	585	592	573	563	556	559	547	557	552	551	561	582	580	575	581	586	586	586	586
14	587	588	586	591	596	600	590	580	567	556	551	542	552	560	549	546	556	568	576	572	570	576	587	585	585	585
15	582	597	593	596	595	596	596	587	583	580	579	573	572	571	560	556	561	576	577	581	576	582	588	590	590	590
16	588	589	589	592	604	596	600	600	595	586	572	569	573	580	580	581	585	591	594	594	595	593	592	592	593	593
17 *	591	592	596	598	599	601	601	596	592	589	582	581	587	586	586	582	580	586	591	590	592	592	590	593	593	593
18	596	601	595	597	602	602	601	596	596	596	591	587	583	582	586	589	587	596	596	588	580	586	590	597	597	597
19	590	594	595	593	596	610	601	595	593	586	577	575	575	580	576	571	572	580	582	576	576	586	592	594	594	594
20 *	590	590	593	593	595	597	599	596	596	593	587	581	580	582	580	574	573	578	586	589	590	586	591	596	596	596
21 *	594	594	593	596	598	598	596</																			

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h
January		43000 γ + Tabular Quantities (in γ)																							
1	234	231	231	229	229	230	230	230	229	227	225	222	223	224	231	233	237	236	237	236	237	237	236	234	234
2	230	231	232	232	233	235	234	232	232	229	228	223	220	223	228	236	245	253	247	242	240	237	236	233	233
3	229	230	231	230	230	232	231	231	232	229	227	225	224	227	232	237	244	246	251	261	261	257	252	243	243
4 **	241	239	238	237	236	238	238	238	238	234	234	232	232	234	240	251	253	253	254	257	253	243	237	241	241
5 **	242	241	243	241	239	236	233	232	236	233	237	235	231	234	243	246	251	247	253	254	250	249	251	248	248
6	246	234	232	236	235	235	232	235	235	235	240	240	246	255	261	264	256	254	254	254	251	244	241	243	243
7	242	244	244	236	236	239	239	239	238	239	240	239	241	246	250	249	250	249	246	244	243	244	244	244	244
8	243	243	243	242	242	242	239	239	237	239	239	236	236	244	243	244	245	243	244	243	241	239	239	239	239
9 *	239	239	239	239	239	241	239	236	236	238	235	233	233	239	242	242	242	241	243	243	241	239	238	239	239
10 *	239	236	238	239	239	240	237	235	232	228	225	228	225	232	235	233	235	236	238	236	238	234	235	235	235
11 *	233	233	234	234	235	238	234	232	228	226	224	222	221	226	230	232	233	234	233	233	234	231	232	231	231
12 *	232	233	233	233	232	232	231	232	231	228	228	227	224	230	233	232	232	232	232	233	232	232	232	229	229
13 *	230	232	233	232	233	232	231	229	228	228	225	222	223	229	233	232	231	230	232	234	234	232	237	234	234
14	236	232	231	230	233	232	232	231	229	232	229	229	228	234	232	229	231	232	234	237	237	234	234	233	233
15	234	231	231	231	232	234	232	234	234	234	233	232	228	232	230	229	230	229	233	234	238	240	242	240	240
16 **	237	234	233	228	202	218	225	225	232	231	232	228	228	231	235	238	245	258	273	268	268	272	268	263	263
17	259	252	244	247	248	249	248	248	251	249	250	247	242	244	247	246	248	248	248	248	250	248	247	248	248
18	249	248	244	243	243	244	245	244	245	245	242	240	240	246	247	251	248	249	254	252	252	251	245	246	246
19	241	238	240	241	241	242	241	241	242	238	234	232	230	233	237	240	242	241	241	239	241	242	245	239	239
20	241	242	244	245	243	244	240	239	239	241	240	240	239	241	243	239	238	239	240	248	249	246	244	243	243
21	240	243	239	239	239	240	237	236	235	234	235	237	223	235	239	238	236	239	239	239	239	239	237	235	235
22	235	239	239	239	239	239	236	235	238	238	238	239	234	230	232	233	236	239	243	246	244	244	242	239	239
23	239	240	242	240	240	241	239	237	234	233	229	229	231	235	236	233	235	235	236	238	239	239	237	236	236
24	235	235	234	235	235	236	233	233	239	237	237	235	236	240	249	249	245	244	245	249	250	248	242	242	242
25 **	234	235	238	234	213	213	213	219	219	223	229	242	271	295	304	323	309	295	290	281	281	281	277	271	271
26 **	270	269	269	263	248	235	235	240	248	243	240	235	234	245	255	261	272	266	269	272	266	256	253	252	252
27	248	248	247	245	241	243	245	248	247	247	243	240	242	247	252	254	250	245	249	252	254	249	247	251	251
28	243	241	242	242	243	245	244	244	243	244	243	238	235	241	248	248	247	246	246	246	246	244	244	243	243
29	241	241	242	241	235	235	237	237	236	237	239	237	234	237	244	244	247	247	247	245	245	243	241	241	241
30	241	241	241	241	240	240	239	238	235	232	230	230	229	231	233	235	236	236	239	239	239	239	242	241	241
31	240	240	241	238	235	236	236	239	240	240	233	234	230	229	234	236	237	238	239	240	241	240	242	236	236
Mean	240	239	239	238	236	237	236	236	236	235	234	233	233	238	242	244	245	245	246	247	246	244	243	242	242
Mean *	235	235	235	235	236	237	234	233	231	230	227	226	225	231	235	234	235	235	236	236	236	234	235	234	234
Mean **	245	244	244	241	228	228	229	231	235	233	234	234	239	248	255	264	266	264	268	266	264	260	257	255	255
February		43000 γ + Tabular Quantities (in γ)																							
1	235	231	231	230	230	229	229	230	232	233	232	233	232	233	238	238	237	238	239	241	241	240	238	236	236
2	236	236	236	233	233	233	233	234	237	232	229	228	226	230	236	236	236	235	236	236	238	240	241	241	241
3	241	241	242	239	237	239	235	234	231	228	220	220	226	230	232	236	239	240	237	237	237	236	235	234	234
4	233	229	222	223	226	230	230	230	230	228	224	224	223	230	231	236	238	236	236	236	237	239	240	239	239
5	236	238	240	236	236	236	236	232	232	231	222	223	222	227	232	233	233	233	235	233	234	235	235	236	236
6	238	239	238	236	235	233	230	226	226	229	228	229	227	230	231	236	240	242	242	242	241	237	235	233	233
7	235	237	236	236	236	236	233	232	230	227	217	215	218	225	232	233	236	237	238	244	244	242	238	237	237
8 **	236	231	230	230	233	235	234	235	232	227	228	227	229	238	246	256	264	272	279	276	264	255	248	240	240
9 **	240	238	236	228	227	226	232	238	240	236	238	238	237	236	239	241	250	249	246	246	249	247	240	234	234
10	236	243	246	247	246	246	242	242	241	236	230	227	226	236	249	252	250	249	246	247	247	246	241	241	241
11	241	240	241	241	241	241	239	239	243	233	222	220	220	224	228	229	233	237	238	238	238	239	238	236	236
12	234	235	236	237	237	239	237	238	240	238	231	225	224	225	229	234	236	236	236	238	239	238	237	238	238
13	237	235	235	235	236	236	236	236	239	233	227	224	223	223	227	232	233	237	237	237	237	237	237	236	236
14 *	233	233	235	234	234	235	235	234	233	233	230	224	224	224	231	233	231	233	231	230	232	232	232	232	232
15 *	233	233	234	234	233	234	232	231	234	236	230	228	220	222	228	231	231	231	231	231	233	233	232	232	232
16 **	233	234	234	232	227	226	225	223	222	222	218	222	232	254	283	312	318	318	292	280	282	284	272	261	261
17 **	233	246	228	214	219	220	225	234	239	232	228	229	233	238	250	258	272	276	267	261	258	258	258	254	254
18	252	247	244	241	240	238	237	241	239	236	237	237	239	243	249	259	256	256	253	255	259	258	257	255	255
19 **	256	253	252	251	248	246	243	243	242	244	243	241	240	244	261	265	264	266	273	267	264	251	243	238	238
20	223	231	235	221	223	229	234	237	241	242	237	233	229	231	238	243	247	248	247	247	248	247	245	244	244
21 *	243	241	241	241	241	243	242	243	247	238	230	229	232	234	239	242	242	241	242	243	241	241	241	241	241
22 *	241	240	240	239	240	241	241	241	242</																

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
March																										
43000 γ + Tabular Quantities (in γ)																										
1 *	232	232	234	235	237	238	240	243	243	236	230	228	229	233	234	242	244	244	245	244	244	244	243	241		
2 **	238	238	236	235	237	235	233	237	232	210	218	218	226	238	246	257	271	280	307	351	354	328	282	244		
3 **	243	234	225	227	233	248	251	252	251	238	253	262	267	281	307	299	322	340	348	286	241	220	222	162		
4	238	207	202	232	228	197	197	217	227	237	251	260	268	278	292	291	284	283	282	273	264	267	261	259		
5	257	255	247	253	257	257	258	267	267	260	252	252	253	259	261	263	264	263	263	262	261	260	258	258		
6 *	256	253	252	254	254	252	251	257	259	252	237	231	231	236	245	253	259	256	257	255	255	254	252	251		
7	251	250	250	249	251	250	249	250	249	238	228	222	226	228	236	244	253	252	252	252	251	251	251	251		
8 **	248	247	247	242	239	241	240	243	241	237	236	237	253	266	309	372	383	387	353	346	327	300	286	257		
9	227	231	233	231	237	243	252	253	253	260	260	260	268	274	282	291	294	292	288	284	277	268	265	260		
10 *	259	256	257	258	258	260	261	266	266	261	252	248	246	249	256	262	266	264	262	260	256	257	256	255		
11 *	253	252	251	251	252	253	255	261	259	253	246	241	238	237	241	245	253	252	254	253	252	251	250	250		
12	249	243	246	247	246	241	241	246	246	245	241	238	236	236	241	248	252	252	252	252	252	252	251	249		
13	246	245	245	245	245	246	250	259	258	249	241	232	232	239	241	242	250	250	251	251	250	249	246	241		
14	239	236	237	238	240	236	241	255	256	258	259	253	255	262	275	291	312	288	272	268	268	266	263	261		
15 **	253	241	241	243	245	243	242	247	249	251	251	259	251	265	299	328	366	315	294	288	284	282	280	270		
16	266	269	267	266	265	262	265	268	263	261	256	256	256	258	265	279	292	305	302	290	289	287	270	256		
17	244	227	236	228	229	233	242	250	250	253	252	256	260	262	266	270	272	276	274	267	264	262	258	256		
18	248	250	252	251	253	255	260	266	260	253	253	249	247	246	251	259	273	268	262	261	263	259	257	256		
19	253	249	246	247	249	253	259	260	257	255	247	244	243	246	249	252	261	267	265	264	262	262	261	259		
20	252	242	241	244	241	237	244	252	252	248	239	233	234	240	248	256	257	259	261	262	264	261	257	255		
21 *	251	251	251	251	251	250	250	250	246	243	233	230	231	237	241	249	255	256	253	251	251	253	253	252		
22	251	250	250	244	227	211	213	223	227	231	225	227	229	233	241	247	252	254	261	261	256	250	247	247		
23	247	243	241	243	243	241	240	242	239	231	225	221	230	233	247	278	321	310	280	270	267	263	256	250		
24	249	244	238	221	223	223	221	234	245	244	243	240	238	243	246	252	253	253	254	254	251	250	249	238		
25	236	242	245	247	247	247	246	243	240	232	229	223	222	231	242	252	257	260	259	257	251	247	243	227		
26	227	226	218	215	217	221	231	238	240	241	236	236	241	254	266	280	287	291	282	274	263	252	237	243		
27	245	242	242	239	243	242	240	240	234	225	223	221	222	232	242	251	257	263	272	271	267	266	256	248		
28 **	234	234	222	198	213	227	238	238	238	245	248	252	267	296	318	332	338	340	316	303	297	290	280	263		
29	253	257	261	260	262	264	270	271	267	259	243	239	242	251	261	269	272	275	284	277	266	265	257	252		
30	234	223	233	220	217	232	249	255	253	247	236	231	228	231	236	251	262	282	293	291	281	270	264	261		
31	257	249	241	234	246	251	259	267	257	250	244	242	247	262	276	282	279	274	265	261	260	259	258	257		
Mean	246	243	242	240	241	242	245	250	249	245	242	240	242	250	260	271	279	279	276	272	267	263	257	249		
Mean *	250	249	249	250	250	251	251	255	255	249	240	236	235	238	243	250	255	254	254	253	252	252	251	250		
Mean **	243	239	234	229	233	239	241	243	242	236	241	246	253	269	296	318	336	332	324	315	301	284	270	239		
April																										
43000 γ + Tabular Quantities (in γ)																										
1 *	256	254	254	253	254	253	253	250	243	234	226	220	218	227	235	242	245	250	252	253	253	253	251	251		
2	249	249	249	247	247	246	250	250	247	237	232	227	228	241	246	249	253	261	257	253	249	250	250	250		
3	248	249	247	242	236	240	243	243	237	229	223	214	217	222	231	238	241	242	242	243	243	242	241	242		
4	237	239	242	243	243	244	246	247	240	233	226	220	231	248	259	266	281	288	283	278	268	260	249	249		
5	242	243	247	252	254	257	263	268	261	249	234	232	238	246	251	257	257	256	254	253	252	251	248	249		
6	247	247	247	228	227	231	239	247	247	245	233	223	226	238	247	260	261	262	257	256	248	247	247	247		
7	244	245	247	247	249	248	250	249	248	243	227	212	209	223	237	258	268	264	254	250	247	247	247	247		
8	246	246	247	247	248	247	249	248	243	236	224	210	206	218	233	241	246	247	246	244	243	245	241	237		
9 **	210	224	234	240	241	237	234	241	241	242	238	239	243	247	256	266	267	267	266	261	257	254	254	254		
10	253	253	251	249	254	257	257	253	248	240	228	222	221	223	233	241	243	248	251	250	247	247	247	243		
11	233	237	241	245	246	243	244	250	246	240	234	224	222	227	237	249	263	271	267	261	255	252	251	246		
12	244	247	247	247	247	244	245	243	240	231	228	222	221	230	241	250	259	263	262	257	251	249	245	240		
13	241	242	233	236	238	239	242	241	237	226	217	211	208	214	234	243	253	257	257	256	251	248	246	243		
14	243	241	241	241	238	237	239	239	239	232	221	218	225	229	235	245	250	247	250	253	253	247	244	247		
15	241	233	232	231	227	229	233	237	234	228	222	225	227	233	243	252	261	259	257	253	251	251	247	245		
16	245	245	236	238	242	243	244	243	236	228	218	215	219	231	243	255	252	255	264	262	254	252	249	244		
17 **	239	240	242	237	238	231	232	234	232	224	218	214	218	219	224	257	272	301	328	328	280	322	212	274		
18 **	289	279	273	274	269	268	268	268	267	264	255	253	259	277	290	318	314	292	278	273	273	279	269	266		
19 **	262	262	258	254	260	261	259	258	254	246	232	235	242	251	257	259	268	275	268	261	258	256	258	257		
20 **	247	250	253	253	250	246	238	237	237	231	232	232	235	238	245	248	250	257	272	272	262	258	257	255		
21 *	254	254	253	254	247	243	245	247	252	250	243	237	238	241	247	247	247	250	251	248	248	247	247	247		
22 *	247	247	247	250	248	248	250	248	243	237	226	218	222	227	231	237	242	246	246	247	244	243	243	243		
23 *	243	243	244	247	247	248	251	251																		

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	241	240	236	237	243	240	237	239	237	232	223	219	223	227	237	243	254	257	252	248	244	243	242	242	242	242
2 *	243	244	246	247	250	252	250	243	240	231	219	211	213	221	231	234	237	241	241	241	241	242	241	240	241	240
3	241	241	242	243	243	242	237	237	236	231	223	217	217	224	234	242	247	249	247	242	241	241	241	240	241	241
4	241	241	241	241	243	243	242	237	231	219	211	203	204	217	230	234	239	241	243	244	243	239	239	239	239	239
5	240	241	241	238	237	241	237	232	230	223	217	214	217	221	231	241	247	252	250	247	243	241	241	241	241	241
6	241	240	242	246	247	250	247	243	242	236	220	207	207	222	239	249	252	254	251	243	241	240	239	239	239	239
7	236	237	240	244	246	246	243	240	234	224	217	211	214	223	237	241	244	247	244	241	241	240	238	238	237	237
8 *	238	239	241	242	243	243	240	237	231	223	217	211	217	226	232	237	242	243	243	241	239	239	238	238	238	238
9 *	238	239	240	242	243	244	242	238	231	217	204	197	197	204	218	230	234	238	238	237	237	237	236	234	234	234
10 *	234	236	237	240	242	245	246	243	235	225	212	206	207	214	227	238	248	252	252	249	247	243	243	241	241	241
11	240	239	239	239	241	241	238	234	231	219	208	198	196	207	222	233	246	257	259	257	252	247	248	246	246	246
12	245	239	229	228	237	241	242	240	234	226	217	213	219	226	232	240	249	254	253	249	248	245	241	241	241	241
13	237	237	239	242	243	246	240	232	224	221	211	206	209	215	223	232	238	247	253	256	255	249	241	236	236	236
14 **	230	227	223	228	215	227	232	227	221	210	201	200	210	218	229	241	249	256	257	257	251	244	241	237	237	237
15 **	239	239	237	221	221	228	233	234	227	225	218	212	213	228	242	250	252	248	244	244	250	248	239	223	223	223
16 **	223	209	198	196	207	217	222	229	227	222	217	219	222	234	251	257	257	257	257	259	259	254	246	239	231	231
17	233	230	231	236	237	241	240	237	233	227	222	214	215	221	234	246	253	259	266	261	254	244	240	239	239	239
18	239	238	233	237	240	241	240	238	237	233	228	217	221	227	241	247	259	273	278	272	261	253	251	245	245	245
19	243	246	246	244	245	242	238	238	237	227	211	197	205	222	233	242	248	253	253	249	250	246	244	244	244	244
20	245	245	245	247	247	245	241	235	234	225	219	219	228	232	238	244	249	248	247	242	242	242	243	242	242	242
21	240	239	242	244	244	242	239	232	235	225	214	207	213	219	227	237	243	244	243	243	241	240	240	238	238	238
22	237	238	239	243	244	247	244	243	238	227	209	198	202	209	224	238	239	247	249	248	243	238	238	235	235	235
23 **	236	238	237	218	204	217	222	220	222	218	208	203	203	208	222	228	231	238	244	244	241	238	237	236	236	236
24 **	235	235	237	238	242	242	237	224	207	231	222	216	220	230	244	252	259	262	261	259	256	255	254	252	252	252
25	253	253	250	251	254	254	254	251	241	230	224	217	220	229	238	249	260	264	267	265	261	256	252	248	248	248
26	246	248	246	246	243	242	245	240	231	222	219	214	214	224	242	259	268	279	274	268	257	250	243	238	238	238
27	240	242	242	246	242	248	248	244	239	224	214	211	214	228	238	249	260	267	263	260	254	250	247	245	245	245
28	243	242	242	247	250	252	250	245	236	222	213	209	215	228	242	254	261	265	265	258	249	248	242	240	240	240
29	239	239	241	245	249	251	250	248	240	236	228	228	230	241	264	294	305	314	312	293	282	268	259	254	254	254
30 *	252	252	252	255	258	257	253	250	243	237	219	210	212	221	229	237	243	247	247	244	245	244	244	243	243	243
31	242	243	243	244	246	248	243	235	230	224	213	204	208	218	228	238	249	253	253	254	258	253	249	245	245	245
Mean	240	239	239	239	240	242	241	238	233	226	216	210	213	222	234	244	250	255	255	252	249	245	243	240	240	240
Mean *	241	242	243	245	247	248	246	242	236	227	214	207	209	217	227	235	241	244	244	242	242	241	240	239	239	239
Mean **	233	230	226	220	218	226	229	227	221	221	213	210	214	224	238	246	250	252	253	253	250	246	242	236	236	236
June																										
43000 γ + Tabular Quantities (in γ)																										
1 **	223	209	199	195	201	204	212	221	220	210	204	207	215	229	242	253	262	268	265	257	249	247	247	248	248	248
2 *	248	248	249	252	254	258	254	251	245	240	227	216	216	223	233	243	252	258	258	253	252	248	245	245	245	245
3	245	244	242	241	233	237	239	241	238	228	224	218	221	225	234	243	252	252	249	248	248	244	243	244	244	244
4	244	244	244	248	249	249	248	242	235	231	224	218	225	234	242	247	254	260	258	254	248	242	242	241	241	241
5 **	241	241	242	247	248	244	239	232	232	228	222	213	222	234	244	252	254	258	258	252	253	251	249	248	248	248
6	231	234	245	253	258	258	254	248	239	238	228	223	235	234	239	244	249	253	253	248	249	249	248	244	244	244
7	242	239	240	239	234	238	238	235	233	227	219	219	228	234	242	252	259	269	268	263	259	252	233	228	228	
8	228	218	217	216	218	220	229	228	229	222	222	216	225	238	250	258	263	274	273	270	262	253	250	247	247	
9	244	243	240	228	232	240	235	234	234	228	218	215	224	236	248	247	249	258	263	260	254	250	249	242	242	242
10	241	238	234	234	239	230	233	235	234	226	224	222	224	235	244	250	252	254	255	255	256	250	246	243	243	243
11	241	236	238	243	244	242	238	231	231	228	219	213	222	230	241	242	244	248	252	249	247	243	242	242	242	242
12 *	241	241	239	242	243	244	241	235	230	228	228	221	221	222	235	243	243	244	251	251	250	248	245	242	242	242
13	238	238	235	235	239	244	242	235	234	226	218	210	212	222	233	240	250	257	254	251	243	242	238	223	223	223
14 **	205	185	197	171	171	204	208	206	204	201	208	198	223	242	248	256	263	273	277	268	258	249	248	247	247	247
15	244	241	243	241	237	242	250	245	238	230	227	222	228	228	239	245	250	251	254	252	249	245	244	244	244	244
16 *	244	244	245	247	246	244	242	235	234	225	217	213	214	221	228	235	241	244	248	244	240	238	238	239	239	239
17 **	239	239	239	237	224	221	215	219	219	224	220	214	220	229	237	250	263	287	297	292	271	260	251	249	249	249
18	249	251	251	252	252	251	244	239	232	226	222	221	225	233	244	251	260	263	264	259	254	254	249	241	241	241
19	239	239	242	245	241	240	246	246	245	238	225	227	233	235	243	255	261	263	266	259	253	250	247	242	242	242
20	240	242	245	248	248	249	248	245	248																	

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	240	240	240	245	249	249	249	247	244	239	229	224	228	234	241	245	250	257	260	252	248	245	243	242			
2	239	237	238	242	239	239	243	243	236	229	215	208	219	229	234	243	254	255	259	249	244	242	239	240			
3 *	239	240	241	244	246	245	238	230	230	231	228	227	226	231	238	243	242	249	250	249	247	244	241	239			
4 *	239	239	240	242	245	249	244	241	236	225	216	209	212	219	225	233	242	246	247	243	242	239	238	236			
5 *	237	237	239	242	244	245	242	238	233	225	215	208	211	215	222	230	236	243	246	242	241	239	237	236			
6	236	235	233	235	238	239	242	239	234	229	213	201	203	210	226	233	243	245	246	246	242	239	239	238			
7	234	235	234	238	235	234	229	225	226	223	215	212	214	218	223	228	238	248	250	245	243	240	235	233			
8	234	233	235	239	240	240	235	236	232	227	224	221	223	223	232	239	244	248	253	250	245	239	236	233			
9	232	233	235	238	238	238	235	233	224	214	203	197	202	206	217	229	235	239	243	241	244	239	238	236			
10	229	229	227	225	227	229	231	226	225	220	212	215	219	219	225	239	249	249	249	244	248	241	239	239	236		
11	229	229	231	235	235	235	237	235	233	217	212	205	203	205	214	224	234	243	244	246	241	239	233	229			
12	229	230	229	228	224	229	233	231	225	223	222	213	217	225	230	234	238	245	250	247	245	241	238	238			
13	237	235	234	236	242	240	235	231	225	221	208	205	208	215	228	240	251	260	259	249	242	239	239	239			
14 *	239	237	233	238	239	239	231	227	221	219	216	209	204	212	223	230	239	247	251	251	249	244	242	240			
15 *	237	232	230	230	234	235	233	235	227	221	219	209	208	221	233	242	246	248	249	244	244	239	236	236			
16	238	234	233	239	242	244	242	241	235	229	213	201	209	216	225	232	241	245	241	235	234	234	232	233			
17 **	234	234	235	238	239	239	239	235	232	229	225	216	206	203	214	233	243	252	257	273	302	290	268	266			
18 **	255	239	252	254	263	264	260	252	242	233	229	229	232	249	287	302	321	325	329	297	277	264	255	245			
19 **	235	224	217	216	233	251	250	249	253	249	245	246	241	242	248	259	269	282	283	273	266	259	252	249			
20 **	250	244	243	241	240	248	249	239	242	233	229	223	234	244	255	274	286	284	283	278	269	256	251	247			
21	248	249	249	249	245	250	241	239	235	232	228	219	222	219	229	241	250	254	256	255	254	248	244	242			
22	243	241	242	245	247	249	246	245	238	231	223	211	213	222	233	243	253	262	266	265	261	256	248	243			
23 **	239	241	241	243	239	249	249	252	245	235	231	230	224	224	229	242	250	256	258	257	255	248	245	244			
24	243	239	241	245	244	246	252	250	246	241	234	232	232	228	241	254	261	259	259	254	252	249	247	244			
25	241	239	231	232	239	241	241	240	235	230	224	215	203	214	224	242	247	261	264	264	261	252	245	242			
26	240	239	238	232	219	229	236	239	239	235	228	219	213	224	243	251	261	270	266	261	258	252	249	246			
27	245	244	242	242	239	239	236	228	226	227	223	220	229	235	243	251	258	259	261	255	253	250	249	248			
28	244	242	242	243	245	249	248	245	243	236	226	222	222	229	238	248	252	254	256	250	248	246	242	242			
29	241	239	238	236	238	239	239	237	229	225	223	219	219	225	236	246	254	257	256	251	245	243	244	244			
30 *	243	243	243	244	247	248	248	245	236	230	229	226	221	222	230	239	245	244	244	244	243	241	242	242			
31	240	239	238	239	244	247	246	244	237	229	220	212	206	208	220	237	247	253	254	251	245	245	245	242			
Mean	239	237	237	239	240	242	241	239	234	229	222	216	217	222	232	243	251	256	258	254	251	247	243	241			
Mean *	239	239	239	242	244	245	241	236	231	226	221	214	215	220	228	235	241	246	248	246	244	241	240	239			
Mean **	243	236	238	238	243	250	249	245	243	236	232	229	227	232	247	262	274	280	282	276	274	263	254	250			
August																											
43000 γ + Tabular Quantities (in γ)																											
1	241	229	228	234	242	241	240	234	223	214	216	218	213	214	228	239	242	249	248	248	250	247	242	241			
2	241	240	239	241	241	239	238	238	238	229	220	202	199	204	218	235	243	249	245	243	244	242	237	236			
3	238	239	241	242	244	245	244	238	232	218	205	201	204	211	227	239	246	249	251	248	243	240	239	239			
4	237	235	237	238	239	243	240	236	229	220	215	211	209	219	234	243	245	244	239	236	236	236	237	235			
5 *	239	235	238	236	237	239	239	239	235	225	220	217	219	219	225	233	233	239	240	238	239	237	233	235			
6	235	235	236	237	239	241	239	235	230	223	215	213	211	219	227	236	242	246	243	240	243	240	237	236			
7	232	229	233	235	234	234	233	230	225	219	208	199	193	193	209	224	230	235	239	239	238	236	234	234			
8 *	233	229	227	233	239	240	239	236	230	227	219	206	205	218	234	249	249	247	242	239	238	236	235	235			
9 *	235	235	234	236	239	239	237	233	225	220	209	193	193	206	219	229	235	239	239	239	238	236	237	238			
10 *	235	233	234	235	239	239	237	230	222	210	200	196	198	208	218	230	235	239	239	239	238	237	236	237			
11	237	237	237	237	238	236	235	233	227	221	213	208	209	215	220	238	245	253	253	248	246	241	238	235			
12	238	233	228	212	210	208	208	203	205	210	214	214	216	218	225	238	245	245	243	243	244	245	246	246			
13	249	244	242	241	243	241	235	227	225	224	222	219	215	221	235	254	268	262	271	264	263	260	253	244			
14	244	236	229	231	239	244	249	244	235	231	225	223	221	229	239	255	262	267	268	259	253	249	248	242			
15 **	243	244	244	245	246	246	246	243	236	231	210	202	195	198	215	227	233	235	238	236	243	251	209	232			
16 **	170	223	238	240	248	256	262	263	260	258	259	260	265	285	309	329	339	333	309	299	289	269	264	251			
17 **	243	231	233	229	238	229	248	253	248	251	245	239	245	258	269	288	298	322	320	299	285	258	243	248			
18 **	250	229	215	239	244	235	229	239	239	231	229	234	240	255	264	284	297	301	313	293	279	267	259	231			
19	234	246	248	242	241	249	249	245	245	236	242	251	250	258	266	292	309	305	304	292	279	269	250	237			
20	244	217	229	248	253	255	253	253	253	245	239	239	244	249	263	284	299	289	278	270	265	260	255	244			
21	227	236	239	220	229	233	236	240	243	242	240	239	240	243	256	273	283	289	293	283	270	256	252	251			
22 **	249	249	248	249	252	248</																					

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 *	251	248	245	245	246	244	245	243	236	228	217	213	215	224	234	245	249	249	248	249	250	249	248	245	242	242
2	244	245	244	245	245	245	245	244	236	226	220	213	216	230	240	243	244	241	240	242	243	243	242	242	242	242
3 **	241	241	238	236	234	239	241	234	206	217	225	239	239	246	266	289	302	316	336	335	301	278	240	230	230	
4	215	224	234	245	255	257	252	253	253	249	241	236	244	255	257	256	256	263	264	268	266	262	259	255	255	
5	239	236	242	247	252	257	257	254	250	236	227	228	235	246	258	269	276	275	270	262	258	254	249	249	249	
6	249	249	250	252	254	256	258	255	248	239	233	229	228	233	245	266	289	296	306	303	284	269	261	256	256	
7	249	239	232	235	237	237	243	241	241	239	229	226	229	234	252	272	286	285	294	293	259	260	258	258	258	
8	233	244	252	259	261	262	266	264	253	242	239	234	233	234	234	241	250	254	256	256	255	256	254	255	255	
9 *	253	253	253	253	253	253	255	254	251	245	238	233	232	234	237	243	248	253	253	254	254	255	253	253	252	
10 *	250	249	249	249	249	249	253	253	249	243	237	238	233	231	233	238	243	248	248	249	249	249	248	248	246	
11	245	245	244	245	245	248	253	249	243	238	229	228	232	242	250	251	270	279	280	278	272	265	254	250	250	
12	250	251	249	246	248	250	252	249	241	240	234	234	241	250	255	257	256	255	259	262	269	270	269	270	270	
13	269	257	239	231	231	224	216	224	230	228	223	234	259	275	277	289	290	285	278	278	274	259	253	249	249	
14 **	254	243	237	239	234	229	239	237	233	230	233	242	264	280	293	297	306	333	297	280	279	273	253	239	239	
15 **	242	236	229	239	236	246	254	249	247	240	236	240	250	259	269	299	303	313	299	283	269	250	255	258	258	
16	258	256	251	256	258	259	260	260	262	253	243	238	237	243	247	252	258	268	269	270	269	259	245	241	241	
17	233	225	221	213	235	239	245	246	244	240	236	240	248	259	269	289	306	308	300	288	276	269	250	245	245	
18	224	232	233	223	233	234	241	249	244	247	247	247	252	260	269	269	274	290	275	269	260	249	250	219	219	
19	245	248	249	248	242	248	254	258	251	254	252	253	258	263	259	267	275	280	270	269	259	253	252	236	236	
20	229	239	245	249	253	252	254	254	253	253	249	249	247	249	260	272	283	283	273	269	265	262	258	256	256	
21	250	253	251	249	239	234	242	248	250	255	254	249	253	257	265	272	277	285	285	272	269	268	262	249	249	
22	250	252	252	252	254	252	254	259	254	250	254	249	247	253	262	274	289	285	275	275	272	264	261	247	247	
23	227	232	246	251	249	236	232	243	251	250	247	245	242	252	253	257	259	258	258	258	257	256	255	253	253	
24 **	245	244	242	241	240	243	245	255	253	252	249	254	267	292	352	407	470	427	368	278	266	253	262	186	186	
25 **	168	197	213	183	171	174	196	225	258	267	278	275	285	294	305	315	340	341	326	304	294	275	268	270	270	
26	268	260	246	249	261	264	270	271	268	258	252	248	254	263	264	271	272	268	265	268	268	268	268	264	264	
27	263	263	258	255	258	260	264	267	263	256	247	238	238	246	251	257	258	257	256	256	258	261	263	264	264	
28 *	263	258	257	256	256	255	260	260	252	245	240	235	235	242	248	254	258	258	259	259	258	260	258	260	260	
29 *	259	258	258	256	253	251	254	254	248	241	235	228	231	238	245	254	264	269	267	266	263	264	264	254	254	
30	249	251	249	248	252	254	258	259	260	256	244	237	237	242	247	251	254	255	255	253	258	262	263	263	263	
Mean	244	244	244	243	244	245	249	250	248	244	240	238	243	251	260	271	280	283	278	272	266	261	256	249	249	
Mean *	255	253	252	252	251	250	253	253	247	240	233	229	229	234	239	247	252	255	255	255	255	255	254	251	251	
Mean **	230	232	232	228	223	226	235	240	239	241	244	250	261	274	297	321	344	346	325	296	282	266	256	237	237	
October																										
43000 γ + Tabular Quantities (in γ)																										
1	264	262	252	239	235	232	242	242	244	239	232	227	228	230	238	245	249	252	254	254	269	282	272	267	267	
2 **	265	259	258	258	247	238	232	238	240	243	245	248	254	272	292	343	340	328	320	302	291	289	264	228	228	
3	204	229	232	233	218	209	237	252	258	257	254	259	263	278	278	278	277	272	272	270	268	265	252	258	258	
4	261	263	264	262	262	263	268	272	268	262	252	239	237	243	249	258	264	261	263	262	261	261	259	259	259	
5	259	258	258	258	258	258	262	268	262	254	243	237	235	239	244	252	257	258	258	258	258	258	260	259	259	
6	255	254	254	254	258	255	260	265	264	255	247	235	228	238	242	253	255	258	258	256	254	258	258	257	257	
7	254	254	253	253	254	253	256	258	259	255	246	237	231	237	242	251	260	265	270	272	276	273	268	261	261	
8	258	258	258	255	254	250	250	254	256	252	245	240	238	244	247	252	254	262	263	263	261	258	258	257	257	
9 **	253	239	227	228	234	238	244	245	246	242	241	239	247	262	283	312	317	318	326	323	316	299	284	272	272	
10 **	264	228	228	249	251	249	254	255	258	259	258	259	267	274	286	302	318	312	296	289	298	272	239	238	238	
11	247	237	232	225	237	241	251	253	254	249	248	255	264	268	278	308	321	304	300	298	290	264	264	262	262	
12 **	248	241	228	244	253	252	248	244	246	247	248	252	267	290	292	289	298	292	292	277	269	271	266	258	258	
13	253	258	248	249	252	242	244	254	258	257	252	248	250	258	265	272	288	299	293	280	273	268	254	250	250	
14	239	241	249	254	260	252	240	248	258	255	259	261	265	274	287	288	287	281	281	272	262	261	263	243	243	
15 **	244	254	259	259	259	250	252	259	258	259	254	254	259	273	286	298	302	301	294	285	277	272	253	224	224	
16	239	245	248	250	252	253	254	260	264	262	254	253	262	266	276	295	287	281	276	271	267	264	262	258	258	
17	251	242	247	249	248	252	253	258	254	246	239	243	251	259	268	284	283	278	281	274	269	267	265	260	260	
18	258	258	254	257	257	257	258	255	248	245	242	242	241	248	255	270	277	273	273	277	274	270	258	259	259	
19	257	257	255	254	252	254	255	257	254	247	243	244	250	252	262	274	287	294	302	303	271	271	268	264	264	
20	258	254	243	245	252	257	262	262	261	260	258	253	258	263	272	282	282	278	273	269	268	257	255	234	234	
21	234	242	247	248	255	255	258	263	262	256	244	242	242	248	252	259	262	267	272	268	264	261	258	254	254	
22	251	245	244	248																						

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

U.T.	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	
November																										
43000 γ + Tabular Quantities (in γ)																										
1	251	248	247	247	247	247	244	245	244	238	237	237	237	241	247	247	247	247	247	247	247	247	248	252	251	
2	248	247	247	242	241	242	242	245	246	240	235	232	234	239	244	249	250	247	247	247	246	245	245	244	244	244
3 *	244	245	247	247	247	247	244	245	246	241	236	236	234	240	247	247	247	247	247	247	249	251	248	247	241	241
4	234	237	241	243	245	248	248	248	248	242	238	238	241	248	254	262	260	258	258	257	254	252	252	252	250	250
5 *	247	245	246	245	247	250	249	249	250	245	243	247	248	249	253	251	248	248	248	248	248	248	248	248	248	248
6 *	247	246	245	244	244	246	246	248	249	245	238	237	240	241	245	243	242	243	244	244	246	246	246	248	244	244
7 *	243	243	243	243	243	241	241	243	244	242	238	239	238	236	242	241	243	244	244	244	244	244	245	247	248	247
8 **	241	240	241	241	241	243	242	243	242	242	242	246	248	248	254	264	268	269	271	273	268	263	257	250	250	250
9 **	248	237	241	243	243	243	243	244	248	245	247	246	254	272	288	291	297	295	288	278	289	262	238	225	225	225
10 **	233	229	244	257	259	263	261	260	263	263	260	267	271	283	298	285	282	286	285	274	269	246	243	233	233	233
11 **	231	213	239	247	252	255	255	254	250	249	246	252	255	267	305	316	324	324	306	291	274	264	269	261	261	261
12	258	253	241	240	250	252	253	256	256	259	259	260	262	265	274	275	274	269	270	268	267	264	259	254	254	254
13	250	252	249	250	251	254	255	258	259	254	254	259	265	267	269	269	273	269	267	262	260	259	259	257	257	257
14	254	253	254	254	254	256	254	250	253	249	250	258	262	266	268	271	274	278	269	267	269	266	264	264	264	264
15	260	257	253	243	245	249	251	250	247	243	245	249	250	254	258	260	261	259	259	259	259	258	255	256	256	256
16	253	249	249	244	245	246	249	249	249	244	248	252	255	259	262	264	265	264	263	261	260	259	259	249	249	249
17	253	254	254	255	254	255	254	254	255	250	249	249	249	251	255	258	260	259	258	256	256	256	256	255	255	255
18	253	252	252	250	250	253	253	254	253	246	240	239	242	248	253	256	260	263	264	263	263	262	259	258	258	258
19 **	254	252	252	251	252	244	240	244	244	251	257	259	257	264	269	274	277	278	279	280	284	279	269	259	259	259
20	255	253	253	253	255	259	259	260	259	255	253	254	258	258	260	262	264	260	264	263	261	259	258	258	258	258
21	256	255	254	252	252	254	253	255	256	252	249	246	252	255	261	259	266	263	265	272	276	274	268	263	263	263
22	260	259	258	257	258	259	258	256	254	252	252	251	249	253	259	259	260	263	264	263	263	260	258	256	256	256
23	255	254	254	253	249	249	249	249	249	243	243	242	243	245	249	253	255	258	259	258	257	258	256	250	250	250
24	250	253	253	253	253	253	253	251	249	244	240	239	241	247	253	250	252	249	249	263	269	272	269	266	266	266
25	263	259	258	255	255	254	252	249	246	247	245	244	246	245	251	254	256	253	252	254	255	255	255	255	255	255
26 *	255	255	254	253	253	254	252	250	252	250	246	247	246	249	254	253	254	254	251	253	254	255	256	256	256	256
27	255	254	254	253	251	252	250	245	244	241	240	237	240	244	254	254	254	250	251	246	249	250	250	252	252	252
28	250	251	250	249	246	249	249	244	244	242	236	235	238	240	246	250	250	250	250	250	250	250	250	250	250	250
29	250	250	250	249	244	245	244	244	245	241	235	234	233	239	245	250	251	250	250	250	257	258	260	255	255	255
30	252	251	250	250	250	249	246	246	246	241	240	238	236	243	247	250	253	252	253	258	260	257	256	253	253	253
Mean	250	248	249	249	249	250	250	250	250	247	245	246	247	252	259	261	262	262	261	260	260	257	255	252	252	252
Mean *	247	247	247	246	247	248	246	247	248	245	240	241	241	243	248	247	247	247	247	248	249	249	249	247	247	247
Mean **	241	234	243	248	249	250	248	249	249	250	250	254	257	267	283	286	290	290	286	279	277	263	255	246	246	246
December																										
43000 γ + Tabular Quantities (in γ)																										
1	253	245	245	249	249	250	249	244	244	238	242	243	240	238	244	246	252	250	250	252	251	250	250	250	250	250
2	250	249	250	249	249	250	250	248	246	243	240	239	237	240	245	250	259	263	259	256	254	252	252	251	251	251
3 *	250	250	250	250	249	249	248	248	246	243	242	241	240	240	244	244	248	250	250	250	250	249	248	247	247	247
4	245	244	243	244	245	246	245	241	241	240	236	236	234	234	240	244	254	255	255	254	250	250	249	248	248	248
5	244	236	233	233	228	233	239	241	241	242	236	236	237	240	244	247	251	252	253	252	253	251	250	248	248	248
6 **	239	225	229	230	236	241	246	249	251	250	250	249	250	256	264	266	270	275	282	286	276	269	258	252	252	252
7	251	250	250	250	250	250	250	249	249	245	241	240	243	246	250	256	260	263	266	269	270	261	258	257	257	257
8	255	254	252	250	250	250	246	244	250	250	249	248	249	254	254	255	254	252	252	254	254	253	253	252	252	252
9 **	250	247	249	242	242	244	242	240	241	244	245	246	248	251	256	257	260	264	269	274	260	254	258	255	255	255
10	250	254	247	241	244	248	245	248	247	248	248	250	249	251	256	259	260	258	254	254	254	254	254	254	256	256
11	255	254	250	247	246	244	240	244	246	244	245	249	250	250	254	260	261	261	264	269	270	260	256	251	251	251
12 **	250	250	249	241	241	243	241	244	244	235	238	240	241	249	250	259	266	276	274	270	270	264	261	260	260	260
13 **	256	253	250	240	240	244	245	246	243	241	241	243	243	249	255	263	270	271	264	260	260	257	256	252	252	252
14	251	250	250	248	246	246	244	244	246	245	246	249	248	254	260	266	270	266	264	260	260	256	254	250	250	250
15	250	241	247	246	244	244	246	247	247	246	248	250	247	250	254	261	263	260	260	260	260	258	254	247	247	247
16	250	250	250	249	248	247	249	249	247	246	248	249	245	245	251	252	256	254	252	252	253	251	250	250	248	248
17 *	246	248	247	248	249	249	247	247	246	244	241	243	241	245	246	249	254	252	253	251	251	250	250	248	248	248
18	245	244	243	244	245	246	245	244	243	237	236	236	240	241	247	248	250	250	250	250	256	253	251	248	248	248
19	245	244	245	244	246	245	244	246	244	240	236	239	240	240	247	253	256	255	257	259	261	260	255	251	251	251
20 *	251	251	251	249	250	251	251	250	246	242	237	240	240	237	241	250	255	256	257	258	257	254	253	251	251	251
21 *	247	246	247	247	247	246	244	246																		

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
January	9°+	U.T.	9°+	9°+	U.T.		18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	48.0	12 58	53.2	44.9	9 43	8.3	586	6 4	604	561	15 21	43	231	16 18	242	219	11 31	23
2	47.4	13 32	53.2	36.3	17 20	16.9	580	7 13	601	527	17 10	74	234	17 29	262	216	12 21	46
3	47.7	18 13	55.4	32.7	22 19	22.7	572	22 24	604	520	18 32	84	237	19 35	266	220	12 0	46
4 **	47.5	15 5	58.1	37.3	19 42	20.8	564	11 23	602	528	15 20	74	241	15 43	261	226	11 49	35
5 **	46.4	18 46	53.7	37.9	16 20	15.8	565	18 32	611	521	18 51	90	242	20 3	265	228	7 31	37
6	46.3	12 0	51.0	39.9	0 13	11.1	559	21 51	585	520	12 9	65	244	15 2	271	229	6 21	42
7	47.2	12 3	51.8	41.4	22 26	10.4	571	7 18	591	541	11 34	50	243	16 16	253	235	11 5	18
8	46.7	12 59	51.0	43.1	2 32	7.9	579	7 10	591	565	9 8	26	241	16 18	250	232	12 4	18
9 *	46.9	13 40	50.1	44.3	9 50	5.8	581	7 6	598	564	10 27	34	239	18 35	247	227	12 0	20
10 *	46.8	13 32	49.5	44.2	9 13	5.3	589	17 43	601	575	10 40	26	235	5 10	244	222	12 8	22
11 *	46.9	13 10	49.9	44.8	9 7	5.1	592	8 2	608	574	11 17	34	231	5 47	241	217	12 10	24
12 *	46.8	13 16	50.0	45.0	7 55	5.0	592	18 8	602	578	11 19	24	231	18 45	238	221	12 28	17
13 *	47.2	12 58	51.2	44.4	7 57	6.8	590	6 40	604	565	10 50	39	231	22 36	239	219	12 0	20
14	47.4	16 22	52.1	44.4	8 9	7.7	587	6 40	601	567	10 56	34	323	19 30	243	225	17 3	18
15	46.8	12 56	51.7	42.4	23 11	9.3	584	18 33	605	556	10 50	49	233	22 30	246	225	17 0	21
16 **	45.5	3 46	61.4	33.8	4 59	27.6	563	3 30	638	497	20 34	141	241	18 46	281	197	4 10	84
17	46.0	13 0	51.2	38.9	1 10	12.3	556	21 30	603	519	10 18	84	248	0 9	263	238	12 55	25
18	46.3	13 39	52.5	42.0	1 50	10.5	565	23 41	586	540	11 22	46	246	18 20	257	235	12 10	22
19	46.4	13 48	51.3	39.9	23 28	11.4	569	23 1	601	532	11 38	69	239	22 7	249	227	12 45	22
20	46.5	17 50	51.5	41.6	0 0	9.9	575	6 40	597	557	18 53	40	242	20 36	251	231	16 3	20
21	46.1	16 52	49.5	41.6	1 40	7.9	580	1 48	595	562	11 30	33	238	1 19	246	230	12 59	16
22	46.8	17 29	52.9	42.8	20 54	10.1	579	7 8	601	554	17 40	47	238	18 13	248	226	13 23	22
23	46.0	17 52	49.9	42.8	1 34	7.1	581	8 2	592	565	11 40	27	236	5 26	244	225	10 21	19
24	45.6	7 30	50.0	40.9	19 19	9.1	571	23 59	625	534	7 49	91	240	19 28	255	226	6 58	29
25 **	47.3	4 55	59.1	35.1	23 2	24.0	531	3 51	658	461	11 30	197	258	15 14	342	200	6 45	142
26 **	44.9	13 35	55.4	30.2	3 48	25.2	532	4 31	588	494	10 30	94	254	16 35	278	230	5 6	48
27	46.4	13 10	52.9	35.4	20 20	17.5	559	20 21	621	526	11 23	94	247	20 8	262	235	11 48	27
28	45.9	13 31	52.3	41.3	22 22	11.0	566	0 10	590	538	11 41	52	244	0 2	254	232	12 23	22
29	46.4	14 33	54.8	40.5	4 42	14.3	567	20 6	591	531	11 9	60	241	18 35	252	231	12 39	21
30	45.9	13 31	51.9	36.0	23 10	15.9	575	21 24	592	555	23 53	37	237	22 44	249	226	12 59	23
31	46.1	13 57	50.5	40.1	23 50	10.4	574	23 10	591	550	10 57	41	237	8 0	245	223	13 3	22
Mean	46.6	-	52.5	40.2	-	12.4	572	-	602	541	-	61.3	240	-	256	225	-	31.3
Mean *	46.9	-	50.1	44.5	-	5.6	589	-	603	571	-	31.4	233	-	242	221	-	20.6
Mean **	46.3	-	57.5	34.9	-	22.7	551	-	619	500	-	119.2	247	-	285	216	-	69.2
February	9°+	U.T.	9°+	9°+	U.T.		18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	45.9	13 16	51.5	38.3	0 22	13.2	576	5 20	596	544	11 48	52	234	20 26	246	225	6 51	21
2	47.3	13 27	52.5	42.0	9 26	10.5	577	19 6	592	540	12 40	52	235	22 38	245	222	12 31	23
3	47.2	17 51	53.2	43.2	9 30	10.0	580	19 53	605	547	10 58	58	234	0 3	243	210	10 58	33
4	46.3	12 47	51.9	40.1	2 40	11.8	578	1 27	611	520	13 0	91	231	23 12	244	216	2 40	28
5	46.7	13 31	53.6	43.0	9 37	10.6	581	18 51	591	558	10 40	33	233	18 30	239	217	10 54	22
6	46.6	13 49	52.8	41.8	9 23	11.0	582	6 36	615	551	12 0	64	234	18 30	245	217	12 0	28
7	47.4	13 9	56.4	42.6	8 17	13.8	581	8 22	607	550	14 10	57	233	19 29	246	208	11 4	38
8 **	46.3	14 18	59.9	29.6	22 13	30.3	558	1 38	604	501	18 41	103	244	18 54	289	222	10 58	67
9 **	44.0	14 33	50.5	27.9	21 5	22.6	562	21 40	591	529	10 58	62	239	20 44	260	224	2 59	36
10	46.3	14 20	57.3	58.4	0 30	18.9	564	8 3	602	520	11 31	82	242	15 18	257	219	12 6	38
11	46.2	14 19	52.0	40.5	8 56	11.5	574	20 21	600	534	11 15	66	235	8 15	248	214	12 3	34
12	46.4	14 42	52.4	39.5	9 17	12.9	580	6 30	601	544	11 30	57	235	7 47	245	220	12 55	25
13	46.7	14 5	53.2	41.3	9 36	11.9	581	7 2	602	543	11 32	59	234	8 3	243	218	13 42	25
14 *	46.9	14 0	52.8	40.7	9 38	12.1	584	6 51	601	546	12 19	55	232	6 20	239	220	12 2	19
15 *	46.5	13 50	51.9	39.5	9 21	12.4	583	6 41	605	541	11 15	64	231	9 20	241	215	12 11	26
16 **	46.3	14 9	60.8	34.0	21 13	26.8	541	4 10	630	451	12 25	179	254	17 3	341	212	10 45	129
17 **	43.9	15 42	55.0	25.6	0 54	29.4	528	5 13	568	464	0 17	104	243	16 48	280	201	3 46	79
18	45.6	12 31	53.2	39.7	1 16	13.5	555	0 38	583	527	10 42	56	247	16 8	264	233	11 59	31
19 **	44.1	15 22	59.9	32.5	21 31	27.4	558	23 59	618	529	18 20	89	252	18 30	278	232	23 59	46
20	45.5	12 53	51.8	38.2	0 13	13.6	568	0 0	618	545	11 11	73	238	19 29	252	216	3 31	36
21 *	45.5	13 30	49.7	39.0	9 6	10.7	575	23 46	591	534	11 40	57	240	8 35	250	225	11 0	25
22 *	45.8	13 24	50.4	40.9	9 4	9.5	585	6 10	596	561	11 18	35	237	8 13	247	221	12 10	26
23 *	46.0	14 22	51.0	40.8	9 22	10.2	584	0 18	596	552	11 21	44	234	8 30	245	219	13 30	26
24	45.9	14 5	53.7	39.7	9 23	14.0	588	6 18	611	542	12 18	69	235	19 29	247	219	12 15	28
25	46.0	13 10	53.3	36.3	21 56	17.0	580	7 9	607	535	13 30	72	236	18 38	251	220	11 48	31
26	45.0	13 22	52.9	33.2	2 24	19.7	578	0 20	618	546	12 37	72	235	16 36	249	214	12 4	35
27	45.5	13 14	52.4	39.8	0 11	12.6	580	7 7	598	557	11 55	41	238	16 20	249	219	12 26	30</

MAGNETIC OBSERVATIONS, ABINGER 1947.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
March	9°+	U.T.	9°+	9°+	U.T.	'	18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1 *	45.5	13 25	53.1	40.5	8 5	12.6	584	22 3	601	561	10 13	40	238	17 36	248	223	12 4	25
2 **	45.8	19 6	65.9	23.9	23 16	42.0	559	8 46	714	457	13 46	257	256	20 47	366	190	10 6	176
3 **	41.6	23 31	65.8	6.2	18 59	59.6	477	18 29	645	233	23 41	412	259	18 29	443	99	23 41	344
4	44.4	5 2	61.6	16.6	0 0	45.0	519	19 6	600	427	8 31	173	250	14 37	296	176	2 2	120
5	44.8	13 48	52.3	38.1	9 1	14.2	554	22 59	577	529	14 14	48	259	7 53	273	244	2 20	29
6 *	45.2	12 52	54.7	38.5	9 30	16.2	565	21 42	584	536	10 36	48	251	16 19	264	226	11 42	38
7	45.8	13 21	58.0	36.2	9 1	21.8	568	17 58	610	503	12 52	107	245	16 50	259	218	12 0	41
8 **	47.3	14 54	72.3	13.2	23 46	59.1	535	14 50	657	389	23 10	268	281	17 18	420	226	23 10	194
9	44.2	13 59	55.3	26.5	1 9	28.8	511	0 0	587	426	0 49	161	262	16 48	301	209	0 44	92
10 *	45.9	13 40	56.4	38.4	8 44	18.0	555	20 19	587	507	10 59	80	258	8 29	274	244	12 20	30
11 *	45.5	14 8	54.2	38.1	8 22	16.1	566	24 0	588	518	12 13	70	250	7 25	267	235	13 21	32
12	46.2	15 11	58.1	37.0	8 1	21.1	582	5 45	631	511	12 17	120	246	18 50	257	223	12 18	34
13	46.1	13 59	57.3	37.8	8 30	19.5	582	19 30	627	512	12 22	115	246	7 57	264	220	12 23	44
14	46.0	12 59	52.9	37.6	8 1	15.3	578	5 23	620	518	13 29	102	260	16 30	326	232	0 43	94
15 **	46.2	14 29	62.7	31.6	10 38	31.1	532	0 43	596	440	8 51	156	270	16 16	386	237	8 58	149
16	43.6	15 20	52.8	32.2	22 18	20.6	536	18 27	596	513	12 22	83	271	17 47	311	248	23 54	63
17	43.7	0 40	52.3	34.5	0 0	17.8	546	20 53	588	510	9 55	78	254	17 48	278	215	0 58	63
18	44.6	14 4	52.3	36.2	20 52	16.1	562	20 56	624	528	11 33	96	256	16 25	280	241	12 6	39
19	43.9	13 8	53.5	37.5	20 4	16.0	566	20 12	603	536	10 16	67	255	17 22	271	238	12 16	33
20	44.3	14 49	52.7	38.0	9 0	14.7	575	7 0	590	544	10 49	46	249	20 7	268	226	11 5	42
21 *	45.4	14 43	55.5	38.7	22 42	16.8	578	21 20	598	546	10 28	52	247	17 30	261	224	11 55	37
22	45.6	14 1	55.8	37.2	18 36	18.6	578	5 30	635	534	9 33	101	240	18 41	266	204	5 52	62
23	45.1	12 40	57.5	38.3	8 0	19.2	573	14 55	613	527	17 30	86	253	16 40	335	215	11 18	120
24	45.9	6 2	56.4	36.7	2 31	19.7	568	5 51	634	525	10 48	109	242	18 38	258	212	3 37	46
25	44.8	13 24	52.8	37.9	24 0	14.9	568	19 56	609	526	9 18	83	243	17 47	265	220	12 18	45
26	45.9	13 40	55.6	35.8	0 24	19.8	564	21 27	631	506	11 16	125	247	17 29	295	211	4 4	84
27	45.5	16 1	52.6	37.9	8 18	14.7	571	22 8	629	533	12 40	96	245	18 26	277	215	11 54	62
28 **	43.6	13 20	57.4	24.3	2 29	33.1	546	17 18	613	482	21 0	131	268	17 10	354	191	3 3	163
29	43.2	13 15	54.1	35.2	19 39	18.9	549	19 53	603	507	10 51	96	262	18 28	289	234	11 57	55
30	43.6	14 9	57.1	29.6	2 21	27.5	555	19 1	604	497	12 39	107	249	18 48	298	210	1 6	88
31	45.3	13 5	55.5	36.7	7 50	18.8	562	1 41	590	517	13 40	73	257	15 22	288	231	3 37	57
Mean	45.0	-	56.6	33.1	-	23.5	557	-	612	497	-	115.7	254	-	298	217	-	80.7
Mean *	45.5	-	54.8	38.8	-	15.9	570	-	592	534	-	58.0	249	-	263	230	-	32.4
Mean **	44.9	-	64.8	19.8	-	45.0	530	-	645	400	-	244.8	267	-	394	189	-	205.2
April	9°+	U.T.	9°+	9°+	U.T.	'	18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1 *	45.4	13 37	56.5	37.8	7 45	18.7	571	21 45	600	527	10 28	73	245	4 50	260	213	12 12	47
2	45.0	13 19	54.9	36.4	9 23	18.5	581	6 20	606	543	11 41	63	247	17 39	265	222	11 52	43
3	45.6	13 51	56.4	35.1	8 47	21.3	588	19 58	629	541	10 34	88	237	1 20	251	211	11 9	40
4	44.6	12 50	58.5	35.3	20 30	23.2	570	6 39	619	517	12 21	102	251	17 20	291	215	11 43	76
5	44.0	13 8	53.7	35.2	8 40	18.5	568	17 56	602	518	11 16	84	251	7 24	272	225	11 3	47
6	45.2	12 3	56.5	35.1	8 1	21.4	576	2 59	629	500	11 55	129	244	15 46	266	213	11 57	53
7	45.5	13 29	57.8	36.2	8 44	21.6	579	22 44	603	532	10 43	71	244	16 26	275	203	12 9	72
8	45.5	13 42	57.7	35.1	9 5	22.6	584	21 52	686	529	10 23	157	239	21 53	265	201	12 10	64
9 **	44.2	13 9	54.0	35.9	0 12	18.1	558	0 21	628	476	11 21	152	246	16 29	274	207	0 4	67
10	44.4	14 48	53.7	36.2	9 20	17.5	570	23 24	616	517	11 43	99	244	6 50	261	218	13 10	43
11	43.7	14 23	55.5	34.4	8 14	21.1	574	0 18	609	522	11 52	87	245	17 29	276	218	11 54	58
12	44.1	13 46	57.8	33.5	21 53	24.3	573	21 57	615	531	11 20	84	244	17 54	268	218	11 59	50
13	43.5	12 52	54.2	36.0	2 12	18.2	581	21 16	609	540	11 34	69	238	17 34	261	208	13 4	53
14	43.4	13 22	54.5	36.1	20 38	18.4	587	20 42	624	556	12 13	68	240	20 22	259	214	10 57	45
15	44.4	13 42	55.2	35.3	1 33	19.9	585	15 50	618	542	10 51	76	240	16 29	267	220	10 49	47
16	43.9	14 29	53.3	37.3	24 0	16.0	579	1 57	616	545	12 33	71	242	18 36	269	212	11 56	57
17 **	44.3	15 21	66.1	-1.2	22 28	67.3	578	15 38	705	332	22 17	373	251	21 52	374	29	22 11	345
18 **	44.6	13 35	60.2	20.3	21 27	39.9	524	21 32	588	459	11 59	129	276	15 47	329	249	11 55	80
19 **	44.6	13 11	55.7	37.7	7 6	18.0	554	23 56	627	482	10 53	145	256	17 27	282	225	10 55	57
20 **	44.5	5 33	51.0	34.9	18 55	16.1	571	0 0	624	524	11 14	100	248	19 0	282	226	11 25	56
21 *	44.5	13 56	49.6	37.6	7 51	12.0	577	5 10	600	549	7 50	51	247	3 20	257	236	11 48	21
22 *	44.2	13 51	52.8	36.0	9 8	16.8	584	23 55	600	552	10 17	48	241	7 1	253	216	11 46	37
23 *	45.2	12 33	54.7	36.4	8 10	18.3	595	17 52	618	561	10 17	57	238	6 40	255	212	12 5	43
24 *	45.4	13 53	56.3	36.5	8 20	19.8	591	21 6	610	540	11 40	70	238	5 40	251	215	12 0	36
25	44.8	13 51	53.5	35.8	9 11	17.7	602	16 39	668	551	11 41	117	237	16 39	271	205	12 24	66
26	44.1	13 30	53.6	36.1	8 20	17.5	602	17 2	646	571	13 53	75	239	19 1	264	205	12 13	59
27	43.3	14 28	51.7	34.0	8 47	17.7	591	19 47	622	543	11 37	79						

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
May	9°+ '	U. T. h m	9°+ '	9°+ '	U. T. h m	'	18000 Y +	U. T. h m	18000 Y +	18000 Y +	U. T. h m	Y	43000 Y +	U. T. h m	43000 Y +	43000 Y +	U. T. h m	Y
1	44.5	13 42	53.4	37.5	8 17	15.9	588	3 1	617	549	13 16	68	239	17 36	261	216	11 26	45
2 *	43.4	13 50	50.3	36.4	7 54	13.9	588	17 23	608	570	10 20	38	237	6 2	257	207	12 4	50
3	44.7	13 40	53.8	38.7	7 51	15.1	593	16 22	624	555	10 39	69	237	17 36	254	210	12 7	44
4	44.1	13 30	52.9	35.5	7 21	17.4	593	18 23	625	562	9 31	63	234	18 36	248	200	11 50	48
5	44.7	13 49	53.8	36.4	7 46	17.4	598	15 53	627	563	10 39	64	236	17 37	257	212	12 18	45
6	45.2	13 4	54.7	37.8	7 50	16.9	595	18 27	623	552	10 17	71	239	17 24	259	202	11 57	57
7	44.8	13 23	54.1	38.0	7 8	16.1	595	0 10	621	565	11 1	56	236	16 20	250	210	12 4	40
8 *	44.4	13 22	52.3	37.2	7 50	15.1	597	16 12	618	568	11 17	50	235	4 6	248	208	11 17	40
9 *	44.7	13 22	52.8	36.7	8 17	16.1	597	20 46	617	570	8 41	47	230	5 30	247	194	12 16	53
10 *	44.6	13 48	54.3	35.8	6 43	18.5	596	18 19	618	565	11 16	53	236	17 40	256	201	11 53	55
11	44.0	13 30	55.7	35.1	6 17	20.6	591	18 51	637	562	10 25	75	235	18 38	264	192	12 7	72
12	43.9	13 11	53.3	34.7	7 5	18.6	587	2 14	635	542	11 44	93	237	17 42	260	211	11 9	49
13	43.1	11 58	51.9	32.2	7 6	19.7	595	18 49	644	555	13 24	89	235	20 58	261	203	11 30	58
14 **	42.8	12 8	54.3	31.3	5 56	23.0	575	19 23	620	540	1 42	80	230	18 14	261	197	11 32	64
15 **	44.4	13 29	55.8	32.9	7 10	22.9	586	20 41	638	535	15 23	103	234	16 20	256	208	11 34	48
16 **	42.8	13 28	53.0	33.9	1 5	19.1	571	22 32	621	505	10 29	116	231	16 30	263	184	2 50	79
17	44.5	12 33	54.7	36.6	6 59	18.1	586	21 12	631	545	13 1	86	238	18 45	271	210	12 14	61
18	44.3	14 20	54.9	35.6	7 20	19.3	591	18 3	669	555	8 26	114	244	18 13	287	213	11 32	74
19	44.3	13 50	58.2	33.4	6 4	24.8	578	17 0	614	539	7 39	75	238	17 14	258	193	11 48	65
20	44.8	13 52	55.2	35.6	6 27	19.6	588	20 51	620	553	8 20	67	240	16 34	255	216	11 30	39
21	43.6	13 43	53.2	34.2	7 56	19.0	597	19 59	629	566	13 15	63	235	17 22	249	204	11 28	45
22	45.4	12 59	56.2	38.6	6 57	17.6	595	22 48	670	561	13 32	109	234	18 25	252	194	11 42	58
23 **	43.2	15 20	54.9	24.4	5 5	30.5	606	6 44	645	549	10 32	96	226	18 43	248	195	4 12	53
24 **	44.5	9 11	55.8	18.0	8 26	37.8	570	6 45	702	374	8 28	328	240	17 35	267	187	8 27	80
25	44.3	12 22	55.7	36.4	6 43	19.3	570	19 9	618	509	10 13	109	248	18 38	271	211	11 47	60
26	45.2	14 3	55.4	36.1	7 35	19.3	585	22 10	648	508	12 8	140	244	17 19	284	209	12 8	75
27	44.6	12 42	53.7	33.1	7 21	20.6	587	17 20	643	533	13 16	110	242	17 22	271	205	11 50	66
28	44.3	14 53	57.6	34.0	6 25	23.6	594	17 10	655	545	12 59	110	242	17 12	271	205	11 50	66
29	44.4	13 51	52.3	37.7	20 20	14.6	601	15 26	633	560	13 30	73	259	17 30	320	224	11 2	96
30 *	42.6	13 23	51.3	31.0	7 13	20.3	579	20 44	609	535	10 1	74	241	4 20	261	206	11 51	55
31	44.6	12 48	54.2	35.7	8 16	18.5	606	19 24	658	563	8 14	95	238	20 30	264	198	12 2	66
Mean	44.2	-	54.2	34.5	-	19.7	590	-	633	544	-	89.8	238	-	262	204	-	58.3
Mean *	43.9	-	52.2	35.4	-	16.8	591	-	614	562	-	52.4	236	-	254	203	-	50.6
Mean **	43.5	-	54.8	28.1	-	26.7	582	-	645	501	-	144.6	232	-	259	194	-	64.8
June	9°+ '	U. T. h m	9°+ '	9°+ '	U. T. h m	'	18000 Y +	U. T. h m	18000 Y +	18000 Y +	U. T. h m	Y	43000 Y +	U. T. h m	43000 Y +	43000 Y +	U. T. h m	Y
1 **	41.9	0 20	53.7	27.4	8 2	26.3	571	0 21	680	508	9 18	172	229	17 38	271	191	3 20	80
2 *	43.5	13 31	54.7	33.0	7 8	21.7	581	22 33	614	545	11 13	69	245	17 30	262	212	12 4	50
3	45.2	13 30	57.8	32.5	6 53	25.3	594	19 54	620	562	10 20	58	239	17 29	257	217	11 35	40
4	45.0	13 44	53.0	36.7	6 48	16.3	604	16 17	644	569	9 10	75	243	17 45	263	217	11 22	46
5 **	46.1	13 46	55.2	29.9	7 43	25.3	611	18 6	701	511	8 15	190	242	18 6	266	207	11 6	59
6	42.5	13 0	52.3	26.7	0 12	25.6	573	18 49	608	542	9 15	66	244	4 10	259	220	11 5	39
7	42.9	12 48	55.5	33.1	23 34	22.4	588	21 48	644	534	9 10	110	241	17 38	274	210	11 0	64
8	42.1	14 40	53.4	32.7	2 55	20.7	573	17 41	630	529	9 57	101	239	17 44	282	212	3 40	70
9	43.5	14 12	52.5	34.3	8 3	18.2	577	17 10	636	517	11 49	119	240	18 44	266	214	11 16	52
10	42.4	13 57	51.9	33.5	6 54	18.4	586	19 33	624	536	10 20	88	240	20 40	259	219	11 35	40
11	43.4	14 12	51.3	34.0	6 56	17.3	589	18 20	631	550	11 32	81	238	18 20	255	211	11 24	44
12 *	43.5	13 55	52.4	35.6	5 34	16.8	599	18 4	641	573	12 21	68	239	19 13	255	219	12 59	36
13	42.9	14 51	53.6	34.2	6 46	19.4	595	17 52	693	556	13 38	137	236	17 53	274	207	11 51	67
14 **	41.9	3 49	55.2	22.6	7 12	32.6	569	20 48	707	481	9 38	226	225	17 34	290	142	4 0	148
15	41.9	14 3	52.5	29.7	5 38	22.8	580	20 44	618	521	10 54	97	241	18 19	261	218	11 25	43
16 *	43.6	13 22	54.8	34.1	7 44	20.7	593	23 7	630	553	11 8	77	236	18 35	252	210	12 2	42
17 **	46.3	15 33	59.7	34.9	7 35	24.8	596	17 56	693	537	11 29	156	242	18 44	304	209	5 53	95
18	44.9	13 5	55.0	37.0	22 28	18.0	595	19 22	635	557	10 6	78	245	18 44	270	217	11 50	53
19	43.6	14 7	56.3	32.9	7 43	23.4	595	15 49	635	543	9 40	92	245	18 10	272	223	10 55	49
20	44.3	14 34	53.6	35.2	8 12	18.4	596	18 45	636	544	9 36	92	248	18 45	272	223	11 50	49
21	43.9	13 2	54.3	33.6	8 57	20.7	600	20 6	633	543	9 15	90	243	6 40	263	200	11 8	63
22	43.6	13 41	55.1	32.2	7 36	22.9	608	17 41	673	558	10 24	115	241	17 42	273	206	11 25	67
23	45.1	14 52	55.1	37.9	7 0	17.2	604	15 37	647	563	9 6	84	244	17 31	275	215	10 30	60
24	43.8	14 58	49.2	36.5	7 53	12.7	601	17 42	636	564	10 10	72	247	19 1	267	222	11 4	45
25 **	44.3	13 19	51.1	38.1	4 36	13.0	589	0 52	635	528	14 5	107	246	17 38	274	219	4 33	55
26	44.1	13 53	52.1	38.1	8 16	14.0	588	19 14	629	543	11 44	86	251	17 38	284	227	11 18	57
27 *	42.4	14 4	51.2	34.1	5 57	17.1	594	19 35	626	559	12 55	67	248	18 39	262	231	12 59	31
28	43.8	13 16	52.0	36.4	7 20	15.6	599	18 2	636	554	10 9	82	242	18 38	267	211	12 5	56
29 *	43.3	14 1	52.1	34.5	8 18	17.6	599	19 52	631	565	10 3	66	240	5 54	258	214	11 42	44
30	44.6	13 30	51.1	38.7	8 18	12.4	596	19 58	625	562	9 32	63	243	17 33	267	222	11 48	45
Mean	43.7	-	53.6	33.7	-	19.9	591	-	643	544	-	99.5	241	-	268	212	-	56.3
Mean *	43.3	-	53.0	34.3	-	18.8	593	-	628	559	-	69.4	242	-	258	217	-	40.6
Mean **	44.1	-	55.0	30.6	-	24.4	587	-	683	513	-	170.2	237	-	281	194	-	87.4

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
July	9°+	U.T.	9°+	9°+	U.T.	'	18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m		Y +	h m	Y +	Y +	h m		Y +	h m	Y +	Y +	h m	
1	43.9	13 48	53.3	34.9	7 21	18.4	600	17 11	658	554	12 40	104	243	18 37	264	220	11 5	44
2	43.2	13 20	52.1	33.6	6 54	18.5	599	16 5	658	559	11 15	99	238	18 37	265	204	11 26	61
3 *	42.7	13 43	50.3	33.4	5 25	16.9	594	17 46	625	559	10 26	66	239	18 19	253	222	12 24	31
4 *	43.0	14 3	53.5	33.7	6 50	19.8	598	15 20	620	563	10 56	57	235	5 41	253	203	11 47	50
5 *	43.1	14 50	52.0	32.7	6 56	19.3	604	20 26	626	569	10 14	57	233	18 37	251	203	12 5	48
6	44.1	13 28	54.7	35.0	7 10	19.7	598	18 31	642	550	11 25	92	233	17 10	251	198	11 18	53
7	43.0	13 51	56.3	33.6	5 24	22.7	603	18 57	653	565	11 35	88	231	18 26	253	209	11 30	44
8	43.1	14 1	54.7	35.5	5 34	19.2	603	17 52	658	549	12 2	109	236	18 53	257	217	11 40	40
9	42.9	14 55	53.8	32.7	6 40	21.1	600	18 46	646	560	11 33	86	229	20 39	249	193	11 25	56
10	42.7	14 1	50.7	35.5	6 10	15.2	599	0 10	641	557	11 21	84	231	16 45	257	210	10 48	47
11	42.4	15 12	53.5	34.0	7 55	19.5	601	19 6	645	556	11 48	89	229	19 8	251	198	12 0	53
12	43.5	13 43	52.5	34.2	6 13	18.3	594	18 3	631	546	10 38	85	232	18 38	256	208	11 57	48
13	42.6	14 0	53.7	33.4	6 7	20.3	592	17 54	633	539	11 10	94	234	17 47	267	201	11 10	66
14 *	43.4	13 51	51.9	34.3	7 45	17.6	598	19 11	639	569	7 20	70	233	18 37	256	202	12 0	54
15	43.1	13 22	52.1	35.7	8 0	16.4	595	16 55	638	557	11 13	81	233	18 19	252	201	12 10	51
16	43.0	13 11	52.8	34.5	7 2	18.3	598	1 30	627	566	9 56	61	232	17 24	252	197	11 33	55
17 **	44.6	18 57	60.4	33.5	7 47	26.9	621	18 11	992	519	22 56	473	242	20 49	328	197	13 5	131
18 **	40.5	14 18	57.3	20.2	6 40	37.1	580	18 32	667	482	15 11	185	265	18 28	341	206	11 13	135
19 **	41.9	13 21	50.1	32.8	5 6	17.3	564	18 31	628	470	10 32	158	250	18 28	290	210	2 50	80
20 **	42.4	13 20	50.4	32.8	5 52	17.6	568	15 40	619	495	11 21	124	252	16 49	292	220	11 9	72
21	43.6	14 58	51.9	34.0	7 2	17.9	587	18 53	640	536	10 54	104	242	18 54	263	214	12 5	49
22	43.1	14 21	54.1	35.6	7 39	18.5	592	19 0	637	550	9 11	87	243	18 48	271	209	11 36	62
23 **	42.6	13 30	51.8	33.4	8 30	18.4	584	20 55	638	526	10 2	112	243	18 35	263	217	12 57	46
24	42.7	13 50	49.5	33.9	5 58	15.6	590	16 14	640	536	10 42	104	246	16 21	267	226	13 8	41
25	42.8	13 35	53.5	34.4	7 22	19.1	590	19 13	635	538	14 26	97	239	17 37	272	198	12 30	74
26	43.6	14 46	52.4	37.4	7 50	15.0	591	22 28	619	548	13 30	71	241	17 13	275	206	12 9	69
27	44.4	14 3	51.7	36.6	9 14	15.1	590	18 24	627	545	11 20	82	242	18 30	266	216	11 20	50
28	42.0	14 33	49.6	34.3	7 46	15.3	593	18 6	622	549	10 56	73	242	18 20	260	220	11 33	40
29	43.1	14 54	52.1	36.0	8 21	16.1	584	14 56	617	526	10 38	91	238	18 34	262	215	11 17	47
30 *	43.3	13 28	52.0	36.8	7 17	15.2	598	16 24	623	569	11 48	54	239	6 1	250	218	12 35	32
31	42.7	13 44	54.6	35.0	7 15	19.6	600	16 32	634	562	13 15	72	237	17 51	260	203	13 5	57
Mean	43.0	-	52.9	33.9	-	18.9	594	-	648	544	-	103.5	239	-	266	208	-	57.6
Mean *	43.1	-	51.9	34.2	-	17.8	598	-	627	566	-	60.8	236	-	253	210	-	43.0
Mean **	42.4	-	54.0	30.5	-	23.5	583	-	709	498	-	210.4	250	-	303	210	-	92.8
August	9°+	U.T.	9°+	9°+	U.T.	'	18000	U.T.	18000	18000	U.T.	Y	43000	U.T.	43000	43000	U.T.	Y
	'	h m	'	'	h m		Y +	h m	Y +	Y +	h m		Y +	h m	Y +	Y +	h m	
1	42.3	15 19	59.9	27.7	6 15	32.2	592	18 7	636	527	9 50	109	234	20 22	255	208	12 50	47
2	42.8	14 21	56.0	31.3	6 58	24.7	593	17 29	632	550	10 55	82	233	17 31	254	193	12 5	61
3	42.5	13 50	54.9	33.2	7 1	21.7	585	19 28	630	530	11 27	100	234	18 39	254	198	11 29	56
4	42.8	13 21	55.3	34.4	8 3	20.9	589	21 47	617	540	10 30	77	233	16 25	250	205	12 15	45
5 *	43.4	13 0	53.7	35.0	6 40	18.7	594	17 54	619	560	12 18	59	233	18 27	246	211	11 57	35
6	42.7	13 12	56.2	32.4	6 42	23.8	597	17 50	635	532	11 2	103	233	17 53	253	206	11 5	47
7	43.3	13 50	55.1	32.6	7 40	22.5	594	19 23	629	547	10 20	82	226	18 37	245	189	12 56	56
8 *	43.1	13 26	54.5	35.0	5 48	19.5	590	1 36	623	549	10 38	74	233	15 39	253	201	11 56	52
9 *	42.6	14 16	51.7	34.2	8 45	17.5	595	21 8	629	547	10 58	82	228	20 59	243	183	12 6	60
10 *	43.3	14 20	54.5	33.5	8 19	21.0	592	21 8	628	531	11 25	97	228	18 51	245	192	11 26	53
11	43.0	13 55	57.0	31.7	8 12	25.3	594	18 11	622	544	11 51	78	233	18 15	259	203	11 25	56
12	42.2	14 35	53.3	32.1	9 10	21.2	577	1 21	644	513	9 7	131	227	17 6	253	197	9 8	56
13	43.3	16 35	54.1	34.6	5 34	19.5	585	16 53	669	544	10 16	125	243	18 39	276	210	12 35	66
14	42.4	14 5	50.0	35.1	0 2	14.9	584	2 30	627	552	10 20	75	243	17 40	273	218	12 48	55
15 **	45.0	16 8	60.3	27.8	22 45	32.5	594	16 12	711	474	24 0	237	231	21 35	257	184	22 29	73
16 **	39.6	0 15	60.1	20.1	0 39	40.0	527	23 16	605	398	0 29	207	270	16 43	347	50	0 22	297
17	42.1	14 18	52.4	25.8	21 31	26.6	552	18 23	641	480	15 52	161	259	18 3	334	224	3 35	110
18 **	42.2	14 50	53.9	31.0	8 32	22.9	548	18 22	622	460	9 20	162	254	18 23	323	192	2 0	131
19	43.1	15 48	53.6	30.5	22 54	23.1	559	23 2	621	478	12 59	143	260	16 21	318	221	0 0	97
20	42.1	14 10	53.0	31.8	2 10	21.2	560	16 12	615	505	11 27	110	255	16 25	308	199	1 48	109
21	42.2	14 24	50.9	28.0	20 36	22.9	566	21 22	626	487	10 28	139	251	18 14	300	213	3 22	87
22 **	41.6	9 11	57.6	3.3	10 32	54.3	534	9 11	651	238	10 41	413	260	16 44	317	174	10 32	143
23 **	41.0	14 12	53.9	28.0	2 45	25.9	552	0 12	701	473	11 9	228	248	18 1	310	193	2 7	117
24	42.0	13 49	51.8	35.1	18 55	16.7	563	19 6	613	521	9 33	92	256	19 7	285	236	4 52	49
25	42.4	13 48	54.1	35.3	7 26	18.8	568	22 1	617	498	9 37	119	250	17 26	288	222	3 32	66
26	41.9	13 18	49.3	35.5	8 0	13.8	572	23 48	630	520	11 44	110	251	18 25	271	221	12 5	50
27	41.3	12 59	49.0	33.2	3 45	15.8	580	0 21	619	539	7 47							

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
September	9°+	U. T.	9°+	9°+	U. T.		18000	U. T.	18000	18000	U. T.	Y	43000	U. T.	43000	43000	U. T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1 *	42.2	13 10	54.7	33.7	7 46	21.0	589	19 4	630	544	8 54	86	240	0 3	254	209	11 2	45
2	41.7	13 1	52.3	32.6	7 43	19.7	591	23 29	650	535	8 58	115	238	23 30	255	210	11 32	45
3 **	39.8	13 25	59.3	12.8	8 0	46.5	558	7 58	636	419	9 15	217	257	19 8	347	181	8 30	166
4	41.4	14 8	54.0	33.5	5 16	20.5	554	16 51	629	491	9 6	138	251	19 35	277	212	0 6	65
5	42.3	12 40	54.7	33.6	7 19	21.1	567	21 49	634	499	10 22	135	251	18 6	287	223	10 23	64
6	41.5	12 45	54.4	31.3	6 52	23.1	577	16 30	631	537	10 18	94	259	19 27	312	221	11 59	91
7	41.0	14 53	57.2	26.8	19 5	30.4	560	16 14	654	502	10 56	152	251	19 10	310	224	11 48	86
8	40.5	13 52	50.7	28.1	7 5	22.6	570	1 20	595	537	11 53	58	249	7 15	273	225	0 36	48
9 *	41.3	14 2	50.1	34.2	8 47	15.9	577	19 10	606	542	11 25	64	248	7 24	259	229	12 50	30
10 *	41.4	14 24	50.1	33.7	8 17	16.4	580	21 25	613	540	10 28	73	245	6 43	256	229	13 4	27
11	41.9	12 55	53.4	32.4	19 46	21.0	585	16 35	645	536	13 15	109	251	17 20	287	222	11 56	65
12	40.8	12 7	49.8	32.6	8 23	17.2	581	6 18	618	542	24 0	76	252	21 35	274	227	11 10	47
13	40.7	13 10	54.8	17.3	22 6	37.5	541	3 34	606	463	11 13	143	253	16 33	295	212	6 16	83
14 **	41.1	12 52	52.9	24.8	17 10	28.1	545	5 16	608	447	11 3	161	260	17 11	344	223	5 30	121
15 **	41.4	15 1	61.5	25.6	20 28	35.9	542	20 29	617	482	11 14	135	258	15 54	323	222	2 8	101
16	40.7	12 42	48.5	31.4	21 9	17.1	564	21 20	608	526	7 44	82	255	19 20	275	227	23 57	48
17	40.5	13 24	52.0	27.5	22 29	24.5	557	2 50	636	496	11 20	140	255	18 15	322	200	3 0	122
18	40.5	13 53	51.0	26.9	17 41	24.1	561	17 50	640	493	13 20	147	250	17 45	303	212	23 11	91
19	41.8	13 34	49.8	32.9	20 27	16.9	566	20 2	620	512	11 32	108	256	17 18	285	226	24 0	59
20	40.8	14 9	49.5	31.1	22 58	18.4	570	16 52	610	522	11 27	88	257	16 48	294	225	0 15	69
21	41.7	14 10	49.8	34.1	18 26	15.7	572	22 57	618	523	14 26	95	258	17 50	294	231	5 55	63
22	41.4	13 49	52.2	28.5	19 53	23.7	563	5 31	608	499	10 1	109	260	16 54	303	242	11 51	61
23	43.2	5 22	54.6	34.0	0 0	20.6	568	5 31	637	469	12 32	168	249	16 28	263	219	0 39	44
24 **	40.8	15 38	79.0	12.4	18 30	66.6	546	15 32	714	415	23 27	299	283	16 19	486	144	23 49	342
25 **	37.8	12 34	54.5	12.1	1 50	42.4	510	17 6	599	406	7 33	193	259	17 5	356	147	0 45	209
26	40.4	13 20	50.7	33.6	3 37	17.1	555	19 49	585	512	10 15	73	263	7 23	277	240	2 38	37
27	40.0	13 29	51.6	28.2	2 34	23.4	569	13 27	600	535	10 40	65	257	7 14	270	234	11 54	36
28 *	40.8	12 8	52.6	32.7	8 42	19.9	572	21 31	606	526	10 29	80	254	0 43	266	231	11 34	35
29 *	39.7	14 52	47.8	31.3	8 10	16.5	571	23 29	593	538	11 17	55	253	17 20	274	227	12 1	47
30	40.4	19 45	48.4	31.7	8 54	16.7	574	18 10	632	532	11 46	100	252	18 10	268	234	11 49	34
Mean	41.0	-	53.4	28.7	-	24.7	564	-	623	504	-	118.6	254	-	296	217	-	79.4
Mean *	41.1	-	51.1	33.1	-	17.9	578	-	610	538	-	71.6	248	-	262	225	-	36.8
Mean **	40.2	-	61.5	21.9	-	39.5	540	-	642	446	-	196.0	263	-	353	198	-	154.8
October	9°+	U. T.	9°+	9°+	U. T.		18000	U. T.	18000	18000	U. T.	Y	43000	U. T.	43000	43000	U. T.	Y
	'	h m	'	'	h m	'	Y +	h m	Y +	Y +	h m	Y	Y +	h m	Y +	Y +	h m	Y
1	39.5	19 39	51.8	25.8	3 19	26.0	570	19 18	650	505	11 40	145	248	21 32	287	220	11 20	67
2 **	38.4	12 12	55.5	18.4	22 33	37.1	534	15 5	626	474	23 54	152	271	15 42	354	219	23 49	135
3	38.1	13 22	53.2	18.9	0 41	34.3	541	21 34	612	463	10 30	149	253	13 10	283	174	0 30	109
4	40.2	13 24	50.4	31.1	8 51	19.3	560	18 2	591	509	10 30	82	259	7 13	276	232	12 27	44
5	41.0	14 39	50.4	32.7	8 26	17.7	574	23 56	604	524	11 2	80	255	7 18	271	234	12 22	37
6	40.8	13 3	52.0	30.7	8 48	21.3	576	20 0	611	519	11 1	92	253	7 13	269	225	12 34	44
7	41.0	17 32	49.8	29.7	21 21	20.1	576	17 32	625	525	10 58	100	256	20 58	282	228	12 20	54
8	41.0	14 9	51.3	34.9	9 1	16.4	576	5 11	613	537	11 16	76	254	17 44	270	235	12 16	35
9 **	41.5	13 21	56.7	24.6	21 10	32.1	551	1 16	615	466	13 43	149	268	17 59	356	224	2 30	132
10 **	40.3	14 35	54.5	22.5	20 32	32.0	532	4 30	583	459	13 26	124	267	16 51	334	214	1 45	120
11	39.2	14 27	52.2	26.8	21 32	25.4	541	20 34	581	504	11 30	77	265	16 7	328	222	3 14	106
12 **	40.1	6 59	53.6	20.3	18 48	33.3	547	2 18	615	496	10 40	119	263	16 37	304	222	2 15	82
13	39.7	5 1	48.0	20.7	21 35	27.3	562	21 41	617	523	18 16	94	261	17 44	304	236	5 34	68
14	40.1	6 11	55.5	24.8	20 15	30.7	548	18 59	611	471	10 16	140	262	14 20	292	235	0 34	57
15 **	41.1	12 47	50.4	30.3	22 6	20.1	559	22 36	686	470	12 18	216	266	16 46	306	219	23 30	87
16	40.6	13 22	50.1	32.3	1 15	17.8	562	4 56	596	492	11 20	104	262	15 40	306	232	0 3	74
17	41.0	12 22	50.5	32.6	18 14	17.9	565	0 24	596	523	10 46	73	259	15 43	292	238	10 42	54
18	40.7	13 44	51.5	31.0	22 53	20.5	568	21 50	600	533	11 22	67	259	15 48	283	238	12 14	45
19	41.8	12 43	52.2	22.4	19 42	29.8	562	19 49	647	512	10 3	135	264	19 20	314	239	10 3	75
20	40.7	12 48	50.4	27.4	21 0	23.0	566	23 0	621	524	10 28	97	261	15 37	291	227	23 40	64
21	39.7	12 58	47.7	29.8	0 55	17.9	567	23 2	607	531	12 20	76	255	18 15	274	233	0 16	41
22	41.2	13 18	49.8	34.8	8 39	15.0	578	1 46	606	541	12 28	65	252	19 35	262	240	12 30	22
23	40.7	13 20	48.8	33.6	19 44	15.2	569	6 26	605	521	11 32	84	258	19 33	284	235	10 55	49
24	40.6	12 20	49.4	31.6	1 15	17.8	576	1 15	622	542	9 53	80	252	23 13	266	229	10 52	37
25	40.3	13 15	48.6	33.7	8 50	14.9	580	0 34	602	545	11 28	57	252	8 19	262	238	11 32	24
26 *	40.9	13 20	46.4	36.0	8 56	10.4	583	19 51	604	542	10 21	62	249	7 21	255	238	12 5	17
27 *	41.1	12 35	47.7	34.3	8 52	13.4	589	23 9	606	551	10 44	55	247	7 34	259	233	11 46	26
28 *	40.9	12 31	45.8	34.9	8 16	10.9	590	22 1	613									

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
November	9°+	U.T.	9°+	9°+	U.T.		18000	U.T.	18000	18000	U.T.	γ	43000	U.T.	43000	43000	U.T.	γ
	'	h m	'	'	h m	'	γ +	h m	γ +	γ +	h m		γ +	h m	γ +	γ +	h m	
1	40.6	13 4	48.8	34.8	22 0	14.0	589	20 16	611	556	11 55	55	245	22 11	258	231	11 52	27
2	40.5	13 5	46.7	34.8	8 14	11.9	586	4 11	614	547	10 27	67	244	16 13	256	229	11 25	27
3 *	40.6	15 25	45.6	35.8	23 36	9.8	591	23 20	619	557	11 10	62	245	20 30	256	229	12 5	27
4	41.0	12 35	48.6	35.2	0 53	13.4	583	0 3	617	545	11 18	72	248	15 46	270	231	0 52	39
5 *	40.9	12 17	46.3	36.9	8 30	9.4	588	19 36	606	552	10 47	54	248	14 44	260	240	9 44	20
6 *	40.6	13 1	44.6	37.1	8 43	7.5	593	18 10	612	571	10 40	41	244	8 44	255	232	11 17	23
7 *	40.9	13 0	45.2	35.2	23 34	10.0	597	23 2	626	588	13 44	38	243	23 0	253	234	13 2	19
8 **	40.2	13 27	51.5	30.8	21 33	20.7	574	0 0	609	527	15 30	82	252	19 35	278	239	1 16	39
9 **	39.9	13 21	54.3	17.3	21 2	37.0	548	1 2	614	449	23 6	165	259	20 40	304	190	23 7	114
10 **	38.0	20 57	47.0	21.5	0 52	25.5	537	20 42	656	475	0 41	181	263	14 28	305	219	1 26	86
11 **	39.8	14 11	59.1	27.5	17 41	31.6	551	0 49	605	461	14 21	144	267	16 46	335	209	1 19	126
12	39.4	12 54	46.2	31.5	3 6	14.7	560	22 35	601	530	13 51	71	260	14 45	283	230	3 3	53
13	39.6	13 31	45.1	34.5	18 45	10.6	567	18 49	606	511	11 20	95	259	16 28	280	247	2 14	33
14	40.3	13 56	48.4	34.9	21 53	13.5	568	6 30	593	528	13 16	65	261	17 36	281	247	10 10	34
15	40.1	13 10	48.0	31.8	23 24	16.2	577	2 50	629	546	10 3	83	253	16 20	267	240	9 41	27
16	40.7	13 29	46.8	34.2	23 50	12.6	574	22 53	629	537	10 12	92	254	16 37	269	241	9 50	28
17	40.6	14 34	45.8	34.9	0 0	10.9	580	28 30	596	546	10 50	50	254	16 20	264	244	9 45	20
18	40.5	15 59	47.1	35.1	22 40	12.0	582	3 27	599	559	15 1	40	254	18 30	270	235	11 7	35
19 **	40.4	13 20	48.8	35.1	22 24	13.7	562	5 10	614	522	12 19	92	261	20 12	288	235	6 33	53
20	39.7	14 1	45.9	32.4	21 45	13.5	570	21 50	601	528	11 13	73	258	18 46	269	246	10 50	23
21	40.7	18 16	47.2	35.0	9 34	12.2	578	5 46	595	549	18 29	46	259	20 38	279	240	11 32	39
22	40.3	13 30	46.0	37.0	9 55	9.0	578	21 40	593	556	14 48	37	258	17 27	266	244	10 52	22
23	40.9	12 27	46.5	36.8	22 50	9.7	584	22 56	621	565	11 21	56	251	0 5	265	238	10 44	27
24	39.2	18 45	47.0	23.4	19 54	23.6	584	17 58	639	540	20 41	99	253	22 15	276	236	10 59	40
25	39.7	13 20	43.8	33.0	0 9	10.8	582	20 6	605	562	10 12	43	252	0 20	268	240	11 23	28
26 *	39.8	13 30	44.2	35.3	23 40	8.9	587	17 55	611	572	12 21	39	252	16 28	261	242	12 4	19
27	39.9	13 5	45.5	34.2	8 46	11.3	593	18 39	628	567	11 30	61	249	0 36	260	235	11 58	25
28	40.7	12 59	46.2	37.2	9 52	9.0	598	6 14	613	581	11 54	32	247	2 52	256	231	11 5	25
29	40.0	14 15	47.3	34.3	22 38	13.0	593	6 20	621	572	21 3	49	247	20 20	263	231	12 31	32
30	39.7	14 3	45.2	33.7	19 7	11.5	587	17 39	606	567	21 26	39	249	20 45	264	234	12 32	30
Mean	40.2	-	47.3	33.0	-	14.3	578	-	613	542	-	70.8	253	-	272	234	-	38.0
Mean *	40.6	-	45.2	36.1	-	9.1	591	-	615	568	-	46.8	246	-	257	235	-	21.6
Mean **	39.7	-	52.1	26.4	-	25.7	554	-	620	487	-	132.8	260	-	302	218	-	83.6
December	9°+	U.T.	9°+	9°+	U.T.		18000	U.T.	18000	18000	U.T.	γ	43000	U.T.	43000	43000	U.T.	γ
	'	h m	'	'	h m	'	γ +	h m	γ +	γ +	h m		γ +	h m	γ +	γ +	h m	
1	40.0	15 23	44.2	35.4	8 55	8.8	592	1 5	614	552	9 39	62	247	16 49	256	233	13 20	23
2	40.5	12 32	47.8	36.0	22 18	11.8	586	19 55	603	554	16 32	49	249	17 11	268	234	12 10	34
3 *	39.9	13 24	43.7	37.4	8 38	6.3	592	18 50	603	579	10 31	24	247	19 27	255	236	13 5	19
4	39.9	16 41	45.6	34.5	21 10	11.1	594	8 9	628	557	17 0	71	245	16 45	261	228	12 54	33
5	40.3	13 48	46.2	31.6	23 31	14.6	592	4 20	629	563	23 28	66	243	17 34	258	225	4 41	33
6 **	38.6	12 51	49.2	22.2	1 25	27.0	566	21 49	613	514	18 53	99	254	19 49	290	220	1 15	70
7	40.3	17 46	45.6	33.0	16 43	12.6	573	22 10	593	544	19 46	49	253	20 18	273	237	11 21	36
8	40.0	6 18	46.0	36.9	9 0	9.1	585	6 30	615	563	12 32	52	252	16 36	261	239	6 55	22
9 **	39.6	13 40	47.8	31.8	20 29	16.0	580	8 2	620	525	13 53	95	252	19 48	281	233	8 11	48
10	39.6	13 5	45.5	32.4	22 33	13.1	580	21 14	605	546	10 42	59	251	16 47	267	240	3 20	27
11	39.8	13 4	45.6	32.1	20 27	13.5	578	5 45	614	545	18 10	69	253	19 28	274	239	6 2	35
12 **	40.0	12 30	48.2	32.9	28 26	15.3	575	4 30	607	508	16 45	99	252	17 19	282	229	9 34	53
13 **	39.9	13 1	45.9	33.0	20 40	12.9	576	2 44	623	536	13 24	87	252	17 29	276	237	4 7	39
14	40.1	12 15	47.3	35.8	23 53	11.5	572	5 20	606	534	11 30	72	253	16 44	275	242	7 43	33
15	39.5	15 37	44.2	33.6	0 15	10.6	581	1 11	606	550	14 46	56	251	16 15	268	239	1 23	29
16	39.9	14 3	43.7	37.2	9 42	6.5	589	4 33	611	563	11 13	48	250	16 38	261	241	12 52	20
17 *	40.0	12 59	44.6	35.2	23 58	9.4	591	6 5	606	574	16 21	32	248	16 45	259	237	12 4	22
18	39.8	12 2	44.1	32.4	23 50	11.7	593	23 21	611	574	20 16	37	246	20 44	261	231	12 3	30
19	40.6	13 48	45.6	33.3	0 0	12.3	586	5 33	614	567	15 40	47	248	19 11	267	233	10 57	34
20 *	40.3	13 32	45.6	37.5	22 34	8.1	588	6 7	604	569	16 13	35	249	20 38	260	232	10 58	28
21 *	39.7	14 33	43.3	37.5	8 57	5.8	595	19 5	608	581	10 26	27	244	18 35	252	230	10 23	22
22	40.4	16 10	45.7	31.1	23 29	14.6	595	6 1	613	554	19 36	59	246	20 20	266	229	10 54	37
23 **	39.8	14 7	50.2	32.9	1 23	17.3	591	14 5	614	560	1 22	54	247	18 24	259	227	13 25	32
24	39.4	16 32	42.8	32.0	21 44	10.8	592	21 49	642	579	22 40	63	249	21 44	259	241	13 2	18
25	39.9	13 28	44.1	37.5	22 50	6.6	597	20 55	610	583	1 4	27	245	22 57	255	235	12 20	20
26	40.0	13 58	45.6	34.2	24 0	11.4	598	5 56	619	580	15 21	39	245	18 50	256	238	6 25	18
27	39.2	12 22	44.2	31.5	23 44	12.7	590	5 45	621	567	23 29	54	246	22 38	259	235	9 10	24
28	39.4	14 8	44.6	29.9	22 51	14.7	592	22 57	618	570	23 28	48	246	0 23	259	229</		

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1947.

Date	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	1113 3301	13	3231 3122	17	2122 1112	12	1233 3311	17	3432 4332	24	5543 3231	26
2	0121 2532	16	0112 2221	11	2366 6556	39	1133 3411	17	1211 2111	10	0212 2321	13
3	0223 3445	23	1124 2331	17	6454 5578	44	3333 3443	26	1313 3230	16	2423 2321	19
4	2204 3443	22	3333 3223	22	6665 4353	38	3344 4344	29	1332 1231	16	1233 2331	18
5	3323 4553	28	2012 2211	11	3233 3221	19	3233 3232	21	2322 2331	18	1364 4555	33
6	4332 3343	25	1233 2223	18	2123 2311	15	4444 3331	26	1123 3332	18	5122 1132	17
7	2232 2213	17	1033 3232	17	0234 4443	24	1233 3413	20	3212 2211	14	2334 3335	26
8	2223 1111	13	2234 4455	29	2344 7567	38	1133 3315	20	0111 2210	8	4432 3433	26
9	1111 1210	8	4323 2354	26	6453 4343	32	4344 4333	28	0212 1100	7	3433 3423	25
10	1000 0110	3	3234 4311	21	2232 3221	17	2233 3313	20	1123 1211	12	3323 3332	22
11	0012 1000	4	1122 3223	16	1133 3101	13	3233 4313	22	1122 3332	17	2232 3331	19
12	0001 0111	4	1132 2212	14	2334 5422	25	1223 3334	21	4223 3223	21	2231 3333	20
13	0011 1112	7	1123 2121	13	2234 5343	26	3323 3233	22	3333 3444	27	3233 3545	28
14	1112 1221	11	0022 3221	12	3333 4533	27	2323 3243	22	4433 4343	28	5654 4563	38
15	1112 1232	13	1033 3111	13	3355 5633	33	4323 4323	24	3334 4444	29	4433 3322	24
16	2633 3554	31	2245 4544	30	1121 2454	20	3222 2333	20	5444 4434	32	2113 3333	19
17	4234 3234	25	5543 3421	27	5432 3333	26	4322 6677	37	3333 4333	25	2444 5653	33
18	2122 2333	18	3213 2233	19	3212 3344	22	5435 5546	37	3323 3553	27	2333 3333	23
19	3123 1214	17	2133 4455	27	3222 2342	20	4334 3414	26	2333 3422	22	3333 3423	24
20	2211 1232	14	4312 2110	14	3332 2232	20	4443 4442	29	1223 3222	17	2133 2331	18
21	3211 2221	14	0023 3111	11	2213 3313	18	1331 1101	11	3233 3222	20	2234 2333	22
22	1021 3333	16	0022 2113	11	2443 3341	24	1122 1100	8	2112 2325	18	2333 3443	25
23	2112 2232	15	0022 2100	7	3334 4533	28	1222 1211	12	3544 4431	28	3232 4431	22
24	0153 2334	21	2223 3232	19	5553 3323	29	0122 3200	10	4376 4433	34	2322 3433	22
25	4554 4655	38	1124 3224	19	2233 3234	22	1123 3542	21	3133 4323	22	3443 5423	28
26	3443 3442	27	4423 2213	21	4433 4334	28	3222 3433	22	3344 4534	30	2334 3433	25
27	3233 3353	25	2312 1111	12	3343 3345	28	2334 4431	24	3433 3532	26	3211 3221	15
28	4221 2233	19	1122 3213	15	5553 5555	38	2332 3332	21	2213 4543	24	1323 3332	20
29	1323 3321	18			3122 3243	20	1223 4211	16	2234 4532	25	1223 1222	15
30	2112 2114	14			5433 4443	30	2323 3332	21	2322 1311	15	3233 3332	22
31	2122 1013	12			2343 3411	21			1233 3444	24		

TABLE IV(A). - THREE-HOUR-RANGE INDICES 'K' FOR THE YEAR 1947

Date	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3222 3433	22	3344 2432	25	3323 2232	20	4554 4255	34	2213 3123	17	3124 1110	13
2	3333 4533	27	1243 3433	23	2134 3224	21	3443 5565	35	3322 2111	15	1012 2331	13
3	1331 2322	17	2223 2333	20	4476 5655	42	6533 4224	29	1112 1223	13	1122 1101	9
4	1313 3210	14	2323 3322	20	4434 5543	32	2233 4321	20	3113 2322	17	1132 3323	18
5	1213 2212	14	1223 3321	17	3233 3344	25	1132 3213	16	1111 2211	10	4422 3123	21
6	2132 3432	20	2234 3333	23	4233 3443	26	2233 3323	21	1012 1211	9	4433 4344	29
7	2312 3333	20	2322 3331	19	4343 5565	35	1133 2454	23	0112 2213	12	3132 2441	20
8	2234 4443	26	3222 2210	14	4343 3310	21	1333 3433	23	2233 3333	22	1232 2111	13
9	2233 3333	22	1233 1213	16	3111 2221	13	4434 5545	34	4334 6466	36	2333 4353	26
10	4222 3433	23	2133 3313	19	1111 1210	8	4454 5555	37	5334 3455	32	3223 2223	19
11	3224 4333	24	2333 4313	22	0123 3543	21	5443 4554	34	5333 5554	33	3333 2343	24
12	3332 3332	22	4435 3434	30	2243 3243	23	5454 3454	34	3432 3323	23	3323 4533	26
13	3222 3432	21	3333 3644	29	4443 3445	31	4433 1455	29	3234 1232	20	4333 3333	25
14	1221 2332	16	4223 3333	23	4445 4545	35	4554 4455	36	2113 3333	19	2233 3322	20
15	3322 2331	19	0225 5656	31	4454 5555	37	3444 5436	33	4333 3223	23	4112 3333	20
16	4121 1211	13	6335 3444	32	3331 3345	25	3334 3421	23	3333 3224	23	1212 1100	8
17	1123 2786	30	4444 4555	35	5544 4555	37	3233 3342	23	2222 2211	14	1101 1102	7
18	5455 6665	42	5555 5444	37	5433 4555	34	1243 2434	23	3221 3223	18	2111 1133	13
19	4334 4442	28	3344 5644	33	3343 3444	28	3243 3464	29	2332 3334	23	3212 1122	14
20	3444 4533	30	5343 4543	31	4333 3414	25	3332 3345	26	2123 2223	17	0111 1111	7
21	3333 4332	24	5434 3544	32	3333 3434	26	4232 2443	24	1113 2432	17	1011 1100	5
22	2233 4433	24	3348 5543	35	2334 4544	29	3332 2212	18	0011 2121	8	0001 2244	13
23	3343 4334	27	6434 5444	34	4544 5323	30	2334 3342	24	1132 2223	16	3123 4322	20
24	2433 4432	25	4334 4344	29	3443 5765	37	4322 2313	20	1011 0454	16	0111 1114	10
25	3233 4443	26	3344 4433	28	6655 5554	41	3112 2121	13	3133 1211	15	1011 1123	10
26	3433 4433	27	2233 3233	21	3333 3233	23	0122 2111	10	1112 2223	14	3222 2223	18
27	2344 4332	25	3343 2211	19	4323 3323	23	0022 2101	8	2122 2232	16	3323 1224	20
28	2132 3232	18	1122 2334	18	3213 3323	20	1121 2211	11	2211 2211	12	3111 2214	15
29	2323 4320	19	4334 3422	25	1223 2213	16	0022 2221	11	2331 3233	20	1211 3434	19
30	1212 1212	12	2332 2221	17	3222 3243	21	1111 2312	12	0112 1243	14	1111 2211	10
31	1112 3333	17	1133 3433	21			1232 3323	19			1011 1120	7

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

All Days

DECLINATION WEST (Unit 0.01)

Month and Season, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	-166	-173	-124	-083	-091	-070	-059	-095	-152	-134	-028	+124	+295	+353	+287	+257	+193	+215	+121	-018	-105	-140	-203	-205
February	-181	-228	-202	-140	-118	-135	-131	-195	-325	-361	-162	+139	+418	+556	+570	+443	+299	+181	+148	+070	-047	-166	-217	-209
March	-248	-321	-355	-230	-179	-120	-124	-280	-458	-304	-085	+340	+680	+777	+746	+590	+350	+135	-035	-076	-135	-198	-218	-253
April	-201	-220	-189	-190	-187	-194	-349	-519	-650	-506	-143	+298	+710	+873	+799	+612	+362	+171	+056	+016	-057	-091	-186	-214
May	-113	-121	-110	-220	-355	-516	-648	-707	-629	-309	+077	+466	+745	+838	+743	+514	+285	+084	-022	+004	+002	+023	-008	-014
June	-116	-150	-208	-247	-410	-558	-669	-725	-640	-374	-007	+392	+650	+787	+775	+641	+431	+263	+104	+055	+055	+044	-006	-094
July	-159	-157	-197	-201	-318	-552	-638	-671	-635	-451	-137	+285	+623	+795	+786	+670	+450	+243	+097	+088	+072	+056	+002	-053
August	-187	-216	-318	-317	-321	-440	-548	-593	-540	-370	-052	+411	+755	+896	+856	+659	+393	+180	+036	+018	-001	-071	-074	-149
September	-318	-343	-328	-267	-237	-185	-330	-517	-497	-288	+122	+509	+863	+861	+784	+604	+318	+127	+029	-070	-178	-167	-275	-223
October	-319	-299	-265	-242	-139	-066	-069	-264	-409	-330	+036	+387	+679	+761	+675	+393	+305	+202	+037	-007	-157	-258	-324	-337
November	-229	-194	-147	-118	-101	-110	-095	-118	-195	-203	-012	+227	+394	+494	+406	+343	+219	+132	+101	+004	-082	-201	-261	-248
December	-232	-182	-127	-062	-064	-060	-022	-038	-077	-087	+019	+158	+301	+364	+331	+288	+182	+144	+079	-025	-130	-212	-249	-294
Year	-206	-217	-214	-193	-210	-251	-307	-394	-434	-310	-031	+311	+593	+696	+647	+501	+316	+173	+063	+005	-064	-115	-168	-191
Winter	-202	-194	-150	-101	-094	-094	-077	-112	-187	-196	-046	+162	+352	+442	+399	+333	+223	+168	+112	+008	-091	-180	-233	-239
Equinox	-272	-296	-284	-232	-186	-141	-218	-395	-504	-357	-018	+384	+733	+818	+751	+550	+334	+159	+022	-034	-132	-179	-251	-257
Summer	-144	-161	-208	-246	-351	-517	-626	-674	-611	-376	-030	+389	+693	+829	+790	+621	+390	+193	+054	+041	+032	+013	-022	-078

INCLINATION (Unit 0.01)

January	-012	-020	-025	-052	-068	-068	-086	-062	-030	+025	+079	+090	+064	+043	+046	+030	+020	+007	+008	+017	+005	+001	000	-010
February	-042	-047	-053	-070	-078	-101	-112	-098	-040	+028	+093	+136	+135	+110	+082	+068	+056	+026	+011	-007	-014	-019	-033	-032
March	-081	-100	-100	-130	-129	-165	-131	-057	+034	+109	+138	+130	+123	+120	+092	+084	+067	+049	+017	-001	+008	-014	-028	-044
April	-043	-030	-031	-034	-047	-065	-070	-017	+048	+127	+180	+173	+113	+082	+050	-016	-023	-039	-060	-069	-059	-044	-068	-057
May	-042	-033	-043	-036	-030	-014	+027	+081	+130	+124	+106	+088	+086	+079	+056	-001	-042	-076	-077	-088	-084	-084	-067	-061
June	-066	-055	-053	-059	-055	-033	+028	+081	+151	+183	+159	+129	+112	+093	+064	+012	-011	-077	-095	-117	-114	-121	-091	-072
July	-042	-037	-032	-041	-053	-033	+023	+083	+123	+166	+178	+155	+113	+064	+032	-032	-058	-077	-137	-119	-106	-081	-060	-036
August	-097	-101	-100	-086	-086	-052	-009	+052	+126	+202	+217	+165	+108	+083	+054	+045	+023	-004	-063	-091	-113	-104	-088	-073
September	-115	-100	-116	-125	-141	-125	-044	+045	+111	+171	+210	+195	+143	+111	+069	+049	+018	-005	-037	-054	-060	-040	-063	-090
October	-082	-100	-107	-111	-128	-138	-099	-045	+048	+135	+176	+184	+160	+140	+094	+067	+026	+015	+009	-019	-015	-049	-083	-073
November	-037	-037	-053	-064	-069	-079	-076	-058	-015	+024	+063	+089	+096	+083	+091	+082	+052	+031	-005	-007	-010	-022	-029	-048
December	+001	-015	-028	-041	-066	-075	-079	-069	-056	-023	+018	+035	+039	+036	+060	+071	+079	+048	+040	+041	+015	-013	-013	-007
Year	-055	-056	-062	-071	-079	-079	-052	-005	+053	+106	+135	+131	+108	+087	+066	+038	+017	-009	-032	-043	-046	-049	-052	-050
Winter	-023	-030	-040	-057	-070	-081	-088	-072	-035	+014	+063	+088	+084	+068	+070	+063	+052	+028	+014	+011	-001	-013	-019	-024
Equinox	-080	-083	-089	-100	-111	-123	-086	-019	+060	+136	+176	+171	+135	+113	+076	+046	+022	+005	-018	-036	-032	-037	-061	-066
Summer	-062	-057	-057	-056	-056	-033	+017	+074	+133	+169	+165	+134	+105	+080	+052	+006	-022	-059	-093	-104	-104	-098	-077	-061

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+20	+29	+34	+70	+84	+88	+111	+74	+30	-56	-142	-163	-124	-73	-59	-27	-09	+11	+15	+04	+21	+18	+15	+24
February	+61	+68	+75	+93	+105	+142	+157	+140	+58	-59	-177	-251	-249	-194	-122	-80	-49	-02	+18	+42	+51	+54	+68	+57
March	+88	+100	+95	+135	+138	+193	+157	+68	-70	-199	-260	-253	-233	-197	-111	-54	+11	+36	+71	+80	+46	+60	+57	+46
April	+68	+49	+50	+57	+76	+102	+112	+34	-74	-224	-342	-354	-261	-182	-93	+46	+81	+118	+151	+157	+122	+100	+111	+97
May	+71	+55	+69	+59	+55	+42	-25	-121	-215	-236	-251	-250	-234	-185	-99	+27	+118	+188	+190	+194	+174	+158	+122	+103
June	+92	+66	+65	+76	+70	+47	-44	-139	-253	-321	-313	-289	-237	-177	-95	+12	+73	+196	+230	+244	+220	+211	+153	+115
July	+64	+47	+40	+60	+83	+66	-23	-123	-203	-291	-339	-328	-262	-167	-74	+66	+138	+189	+286	+242	+211	+155	+108	+64
August	+127	+122	+120	+101	+115	+69	+07	-86	-214	-354	-396	-332	-244	-171	-76	-08	+52	+105	+184	+204	+220	+189	+145	+112
September	+127	+107	+128	+138	+168	+148	+41	-83	-193	-298	-375	-358	-263	-179	-77	-03	+85	+129	+156	+155	+140	+87	+102	+110
October	+98	+118	+122	+132	+164	+171	+124	+56	-81	-228	-313	-333	-283	-220	-122	-39	+37	+49	+57	+86	+67	+105	+132	+96
November	+43	+35	+62	+77	+87	+107	+99	+72	+09	-62	-130	-164	-167	-128	-111	-89	-38	-09	+42	+41	+46	+52	+53	+67
December	+02	+18	+34	+48	+84	+102	+104	+88	+65	+05	-60	-79	-87	-72	-90	-91	-86	-37	-25	-26	+10	+41	+33	+18
Year	+72	+68	+75	+87	+102	+106	+68	-02	-95	-194	-258	-263	-220	-162	-94	-20	+34	+81	+115	+119	+111	+103	+92	+76
Winter	+32	+38	+51	+72	+90	+110	+118	+94	+41	-43	-127	-164	-157	-117	-96	-72	-46	-09	+13	+15	+32	+41	+42	+42
Equinox	+95	+94	+99	+116	+137	+154	+109	+19	-105	-237	-323	-325	-260	-195	-101	-13	+54	+83	+109	+120	+94	+88	+101	+87
Summer	+89	+73	+74	+74	+81	+56	-21	-117	-221	-301	-325	-300	-244	-175	-86	+24	+95	+170	+223	+221	+206	+178	+132	+99

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

All Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	+ 35	+ 44	+ 45	+ 77	+ 91	+ 93	+115	+ 82	+ 43	- 43	-137	-172	-149	-104	- 84	- 50	- 27	- 09	+ 04	+ 06	+ 30	+ 31	+ 33	+ 42
February	+ 77	+ 88	+ 92	+105	+114	+152	+167	+156	+ 87	- 25	-160	-260	-284	-242	-172	-119	- 76	- 19	+ 04	+ 35	+ 55	+ 68	+ 87	+ 75
March	+109	+128	+126	+154	+152	+201	+166	+ 93	- 27	-169	-249	-281	-292	-265	-177	-107	- 21	+ 23	+ 73	+ 86	+ 58	+ 77	+ 76	+ 68
April	+ 85	+ 68	+ 67	+ 74	+ 92	+118	+142	+ 81	- 14	-175	-324	-376	-322	-259	-165	- 10	+ 47	+101	+144	+153	+126	+107	+126	+115
May	+ 80	+ 65	+ 78	+ 78	+ 87	+ 88	+ 34	- 55	-155	-205	-255	-289	-299	-259	-165	- 20	+ 90	+178	+189	+191	+171	+154	+121	+103
June	+101	+ 79	+ 83	+ 97	+106	+ 97	+ 18	- 71	-191	-282	-308	-321	-293	-246	-164	- 47	+ 33	+169	+217	+236	+212	+204	+151	+122
July	+ 78	+ 61	+ 57	+ 78	+111	+115	+ 35	- 60	-142	-246	-322	-349	-315	-237	-145	+ 04	+ 95	+164	+273	+231	+201	+148	+106	+ 68
August	+142	+140	+147	+129	+143	+108	+ 57	- 31	-162	-315	-386	-365	-309	-250	-153	- 68	+ 16	+ 87	+178	+200	+217	+193	+150	+124
September	+154	+137	+156	+160	+187	+163	+ 71	- 35	-145	-268	-381	-399	-338	-255	-147	- 58	+ 55	+116	+151	+159	+154	+101	+126	+129
October	+126	+144	+144	+152	+174	+175	+129	+ 79	- 43	-195	-312	-364	-341	-286	-182	- 74	+ 09	+ 30	+ 53	+ 85	+ 80	+127	+160	+125
November	+ 63	+ 52	+ 75	+ 87	+ 95	+116	+106	+ 82	+ 27	- 43	-127	-182	-201	-171	-146	-119	- 58	- 21	+ 32	+ 40	+ 53	+ 70	+ 76	+ 89
December	+ 23	+ 34	+ 45	+ 53	+ 89	+106	+105	+ 90	+ 71	+ 13	- 61	- 92	-113	-104	-119	-116	-101	- 50	- 32	- 23	+ 22	+ 60	+ 55	+ 45
Year	+ 89	+ 87	+ 93	+104	+120	+128	+ 95	+ 34	- 54	-163	-252	-288	-271	-223	-152	- 65	+ 05	+ 64	+107	+117	+115	+112	+106	+ 92
Winter	+ 50	+ 55	+ 64	+ 81	+ 97	+117	+123	+103	+ 57	- 25	-121	-177	-187	-155	-130	-101	- 66	- 25	+ 02	+ 15	+ 40	+ 57	+ 63	+ 63
Equinox	+119	+119	+123	+135	+151	+164	+127	+ 55	- 57	-202	-317	-355	-323	-266	-168	- 62	+ 23	+ 68	+105	+121	+105	+103	+122	+109
Summer	+100	+ 86	+ 91	+ 96	+112	+102	+ 36	- 54	-163	-262	-318	-331	-304	-248	-157	- 33	+ 59	+150	+214	+215	+200	+175	+132	+104

WEST COMPONENT (Unit 0.1γ)

January	- 85	- 87	- 60	- 32	- 34	- 23	- 13	- 38	- 76	- 81	- 39	+ 39	+136	+176	+143	+132	+101	+116	+ 67	- 09	- 53	- 72	-106	-105
February	- 86	-110	- 95	- 59	- 45	- 48	- 43	- 80	-164	-202	-116	+ 32	+181	+264	+283	+223	+151	+ 96	+ 82	+ 44	- 17	- 79	-104	-102
March	-117	-154	-173	-100	- 72	- 32	- 40	-138	-256	-195	- 89	+139	+323	+381	+379	+305	+188	+ 78	- 07	- 27	- 64	- 95	-107	-127
April	- 96	-109	- 92	- 92	- 87	- 86	-167	-271	-359	-307	-134	+ 99	+335	+435	+410	+334	+207	+111	+ 55	+ 35	- 10	- 32	- 81	- 98
May	- 48	- 55	- 47	-107	-180	-268	-350	-397	-371	-204	- 01	+206	+358	+416	+379	+279	+172	+ 76	+ 20	+ 35	+ 30	+ 39	+ 16	+ 10
June	- 46	- 69	-100	-119	-207	-290	-364	-410	-384	-253	- 56	+160	+307	+390	+397	+344	+242	+173	+ 94	+ 70	+ 66	+ 59	+ 23	- 31
July	- 74	- 76	- 98	- 97	-156	-283	-344	-378	-373	-289	-130	+ 97	+288	+396	+407	+368	+263	+161	+100	+ 88	+ 74	+ 56	+ 19	- 17
August	- 78	- 95	-149	-152	-152	-223	-291	-331	-324	-257	- 94	+163	+361	+449	+443	+350	+218	+114	+ 50	+ 44	+ 37	- 06	- 15	- 61
September	-148	-165	-153	-119	- 98	- 74	-169	-290	-297	-204	+ 02	+211	+416	+429	+405	+321	+184	+ 89	+ 42	- 11	- 71	- 74	-130	-100
October	-154	-140	-121	-107	- 47	- 07	- 16	-131	-232	-214	- 33	+150	+314	+369	+339	+203	+169	+116	+ 29	+ 11	- 72	-120	-151	-164
November	-115	- 98	- 68	- 50	- 39	- 41	- 34	- 51	-102	-119	- 28	+ 93	+182	+242	+198	+168	+110	+ 69	+ 61	+ 09	- 36	- 98	-130	-121
December	-123	- 94	- 62	- 25	- 20	- 15	+ 06	- 06	- 30	- 46	00	+ 71	+146	+182	+161	+138	+ 83	+ 71	+ 38	- 18	- 68	-106	-127	-154
Year	- 98	-104	-102	- 88	- 95	-116	-152	-210	-247	-198	- 60	+122	+279	+344	+329	+264	+174	+106	+ 53	+ 23	- 15	- 44	- 74	- 89
Winter	-102	- 97	- 71	- 42	- 35	- 32	- 21	- 44	- 93	-112	- 46	+ 59	+161	+216	+196	+165	+111	+ 88	+ 62	+ 07	- 44	- 89	-117	-121
Equinox	-129	-142	-135	-105	- 76	- 50	- 98	-208	-286	-230	- 64	+150	+347	+404	+383	+291	+187	+ 99	+ 30	+ 02	- 54	- 80	-117	-122
Summer	- 62	- 74	- 99	-119	-174	-266	-337	-379	-363	-251	- 70	+157	+329	+413	+407	+335	+224	+131	+ 66	+ 59	+ 52	+ 37	+ 11	- 25

VERTICAL COMPONENT (Unit 0.1γ)

January	+ 04	- 05	- 06	- 16	- 40	- 31	- 41	- 40	- 36	- 45	- 54	- 65	- 67	- 20	+ 22	+ 41	+ 50	+ 48	+ 64	+ 68	+ 66	+ 46	+ 35	+ 20
February	- 02	- 05	- 12	- 29	- 28	- 22	- 25	- 15	- 05	- 42	- 90	-110	-110	- 68	- 00	+ 50	+ 79	+ 88	+ 80	+ 73	+ 70	+ 60	+ 44	+ 22
March	- 75	-113	-123	-135	-123	-122	- 90	- 38	- 46	- 85	-123	-138	-113	- 43	+ 62	+167	+256	+253	+224	+184	+136	+ 89	+ 33	- 45
April	+ 10	+ 09	+ 09	+ 13	+ 14	+ 10	+ 17	+ 22	- 08	- 78	-168	-226	-214	-140	- 41	+ 52	+108	+137	+143	+126	+ 80	+ 78	+ 22	+ 29
May	+ 20	+ 15	+ 09	+ 15	+ 25	+ 47	+ 33	- 01	- 50	-119	-214	-278	-246	-156	- 35	+ 60	+127	+173	+173	+144	+114	+ 77	+ 52	+ 26
June	- 14	- 37	- 32	- 26	- 26	- 02	- 07	- 40	- 66	-110	-176	-226	-164	- 91	- 00	+ 70	+135	+192	+204	+164	+118	+ 73	+ 41	+ 16
July	+ 03	- 16	- 18	- 02	+ 12	+ 38	+ 26	- 01	- 44	-101	-169	-225	-218	-166	- 62	+ 41	+122	+174	+190	+149	+125	+ 78	+ 42	+ 23
August	- 41	- 67	- 65	- 62	- 30	- 20	- 13	- 22	- 61	-124	-170	-199	-195	-111	+ 11	+137	+201	+227	+208	+159	+121	+ 79	+ 32	+ 07
September	-103	- 98	-105	-109	- 96	- 91	- 55	- 37	- 65	-102	-145	-157	-114	- 32	+ 58	+164	+261	+285	+235	+174	+117	+ 64	+ 17	- 54
October	- 55	- 74	- 87	- 76	- 63	- 78	- 57	- 24	- 22	- 62	-116	-135	-105	- 27	+ 43	+143	+177	+165	+161	+134	+103	+ 72	+ 21	- 32
November	- 28	- 47	- 38	- 41	- 37	- 25	- 33	- 33	- 32	- 64	- 82	- 73	- 54	- 10	+ 59	+ 77	+ 93	+ 87	+ 78	+ 73	+ 73	+ 45	+ 24	- 09
December	+ 08	- 11	- 17	- 30	- 33	- 24	- 31	- 34	- 43	- 70	- 76	- 62	- 65	- 42	00	+ 34	+ 72	+ 78	+ 81	+ 82	+ 77	+ 52	+ 32	+ 18
Year	- 23	- 37	- 40	- 42	- 35	- 27	- 23	- 22	- 40	- 84	-132	-158	-139	- 76	+ 10	+ 86	+140	+159	+154	+128	+100	+ 68	+ 33	+ 02
Winter	- 05	- 17	- 18	- 29	- 35	- 26	- 33	- 31	- 29	- 55	- 76	- 78	- 74	- 35	+ 20	+ 51	+ 74	+ 75	+ 76	+ 74	+ 72	+ 51	+ 34	+ 13
Equinox	- 56	- 69	- 77	- 77	- 67	- 70	- 46	- 19	- 35	- 82	-138	-164	-137	- 61	+ 31	+132	+201	+210	+191	+155	+109	+ 76	+ 23	- 26
Summer	- 08	- 26	- 27	- 19	- 05	+ 16	+ 10	- 16	- 55	-114	-182	-232	-206	-131	- 22	+ 77	+146	+192	+194	+154	+120	+ 77	+ 42	+ 18

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, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	-089	-063	-027	-013	-017	-051	-065	-113	-159	-151	-085	+047	+205	+239	+163	+127	+137	+123	+089	+015	-045	-069	-101	-091
February	-035	-029	+001	-017	-041	-073	-139	-231	-419	-523	-339	-025	+247	+393	+409	+297	+187	+149	+131	+095	+055	-029	-045	-017
March	-142	-112	-128	-138	-166	-198	-248	-402	-552	-500	-200	+274	+618	+758	+664	+452	+272	+148	+056	+026	-010	-102	-208	-170
April	-086	-118	-118	-142	-106	-238	-404	-592	-716	-580	-206	+270	+608	+786	+712	+538	+344	+162	+060	+034	-002	-060	-070	-068
May	+052	+020	-042	-150	-274	-488	-684	-764	-712	-448	-024	+392	+636	+746	+654	+452	+240	+072	+016	+054	+078	+072	+068	+036
June	+008	-026	-086	-218	-414	-630	-710	-744	-712	-484	-088	+338	+670	+832	+804	+608	+354	+148	+070	+044	+040	+042	+072	+092
July	-062	-088	-158	-236	-350	-580	-710	-720	-650	-404	-084	+308	+676	+776	+736	+582	+408	+226	+124	+078	+084	+046	+030	-028
August	-142	-228	-300	-242	-406	-540	-590	-672	-682	-494	-144	+348	+774	+918	+874	+692	+454	+202	+108	+096	+064	+030	-024	-108
September	-198	-266	-300	-314	-302	-348	-494	-628	-686	-488	-072	+454	+802	+840	+754	+558	+352	+194	+148	+150	+126	+002	-136	-148
October	-087	-123	-115	-135	-173	-205	-257	-379	-515	-415	-095	+245	+431	+429	+361	+235	+221	+231	+179	+137	+081	+015	-027	-045
November	-091	-115	-081	-091	-083	-123	-145	-171	-261	-251	-021	+183	+319	+313	+243	+189	+169	+149	+151	+069	+045	-017	-133	-243
December	-146	-114	-108	-086	-070	-074	-098	-078	-108	-124	-050	+086	+198	+284	+286	+254	+174	+114	+098	+014	-054	-108	-138	-152
Year	-085	-105	-122	-149	-200	-296	-379	-458	-514	-405	-117	+243	+515	+610	+555	+415	+276	+160	+103	+068	+039	-015	-059	-079
Winter	-090	-080	-054	-052	-053	-080	-112	-148	-237	-262	-124	+073	+242	+307	+275	+217	+167	+134	+117	+048	+000	-056	-104	-126
Equinox	-128	-155	-165	-182	-187	-247	-351	-500	-617	-496	-143	+311	+615	+703	+623	+446	+297	+184	+111	+087	+049	-036	-110	-108
Summer	-036	-081	-147	-212	-361	-560	-674	-725	-689	-458	-085	+347	+689	+818	+767	+584	+364	+162	+080	+068	+067	+048	+037	-002

INCLINATION (Unit 0.01)

January	+011	+014	-001	-005	-022	-034	-053	-051	-034	+011	+055	+067	+039	+048	+042	+013	-003	-026	-027	-018	-020	-014	+008	+003
February	-036	-029	-036	-045	-051	-060	-075	-050	+013	+071	+128	+175	+146	+082	+029	+018	+008	-003	-028	-049	-051	-050	-052	-049
March	-034	-042	-018	-042	-047	-071	-066	-031	+050	+139	+170	+141	+110	+063	+041	+025	+022	+001	-036	-066	-095	-090	-071	-054
April	-022	-018	-007	000	-021	-034	-016	+022	+086	+141	+172	+157	+111	+074	+034	-026	-074	-077	-081	-081	-089	-093	-083	-082
May	-021	-003	000	+002	-011	-002	+040	+092	+125	+124	+085	+063	+038	+030	+012	-027	-058	-061	-073	-076	-090	-077	-063	-051
June	-015	-030	-026	-010	-015	+026	+066	+084	+112	+139	+131	+112	+087	+062	+037	-006	-026	-063	-114	-122	-103	-116	-106	-097
July	-017	-015	-009	-018	-031	+004	+065	+112	+136	+127	+128	+096	+064	+027	-013	-081	-085	-065	-064	-088	-085	-077	-058	-042
August	-070	-082	-051	-071	-065	-035	+001	+049	+104	+168	+202	+165	+116	+083	+079	+039	-024	-054	-071	-088	-110	-121	-089	-068
September	-030	-037	-034	-031	-033	-012	+026	+069	+124	+144	+158	+138	+098	+049	+017	+003	-046	-070	-102	-113	-094	-076	-067	-087
October	-033	-025	-031	-033	-038	-051	-027	+004	+080	+152	+164	+123	+080	+049	+012	+014	-028	-037	-041	-051	-065	-071	-083	-063
November	-008	-008	-013	-023	-020	-025	-028	-008	+033	+063	+078	+101	+080	+048	+038	+009	-014	-039	-057	-036	-046	-033	-032	-063
December	+012	+012	+006	-011	-023	-029	-034	-027	-029	-011	+017	+024	+019	+007	+008	+033	+045	+017	-003	+004	-007	-004	-010	-015
Year	-022	-022	-018	-024	-031	-027	-008	+022	+067	+106	+124	+114	+082	+052	+026	+001	-024	-040	-058	-065	-071	-069	-059	-056
Winter	-005	-003	-011	-021	-029	-037	-048	-034	-004	+034	+070	+092	+071	+046	+039	+018	+009	-013	-029	-025	-031	-025	-022	-031
Equinox	-030	-031	-023	-027	-035	-042	-021	+016	+085	+144	+166	+140	+100	+059	+026	+004	-032	-046	-065	-078	-086	-083	-076	-072
Summer	-031	-033	-022	-024	-031	-002	+043	+084	+119	+140	+137	+109	+076	+051	+029	-019	-048	-061	-081	-094	-097	-098	-079	-065

HORIZONTAL INTENSITY (Unit 0.1γ)

January	-11	-15	+11	+17	+43	+65	+83	+75	+41	-31	-107	-129	-93	-81	-57	-15	+11	+45	+51	+39	+41	+23	-05	-03
February	+66	+50	+66	+78	+86	+104	+124	+90	+02	-104	-214	-296	-258	-156	-60	-26	-08	+10	+48	+76	+80	+80	+84	+78
March	+57	+63	+29	+67	+77	+113	+111	+75	-49	-205	-293	-267	-223	-139	-85	-31	-05	+23	+77	+115	+153	+147	+115	+85
April	+60	+52	+38	+36	+60	+76	+54	-08	-116	-226	-314	-320	-248	-170	-80	+32	+114	+132	+142	+138	+148	+150	+132	+128
May	+53	+31	+31	+37	+65	+57	-15	-111	-187	-225	-221	-219	-171	-125	-55	+37	+107	+127	+145	+141	+159	+137	+113	+91
June	+38	+58	+50	+40	+54	+02	-68	-116	-172	-232	-254	-258	-216	-160	-84	+04	+60	+128	+214	+218	+180	+190	+166	+150
July	+40	+38	+28	+54	+82	+34	-76	-166	-224	-232	-256	-238	-186	-110	-16	+116	+148	+140	+146	+174	+164	+138	+104	+74
August	+124	+134	+88	+122	+124	+82	+26	-56	-162	-286	-372	-354	-278	-192	-138	-36	+68	+120	+140	+162	+194	+204	+152	+122
September	+76	+78	+68	+62	+64	+28	-16	-82	-190	-248	-298	-286	-228	-134	-62	-10	+86	+136	+182	+200	+168	+144	+126	+144
October	+66	+54	+62	+64	+74	+84	+48	+08	-112	-240	-282	-240	-170	-94	-22	-14	+46	+56	+64	+98	+106	+116	+132	+104
November	+17	+13	+23	+35	+31	+43	+41	+15	-41	-101	-143	-173	-141	-87	-49	-11	+23	+63	+87	+61	+79	+59	+61	+99
December	-11	-11	-01	+23	+41	+51	+53	+41	+33	-07	-59	-65	-59	-41	-31	-51	-07	+27	+15	+31	+21	+25	+29	
Year	+48	+45	+41	+53	+66	+62	+30	-20	-98	-178	-234	-237	-189	-124	-62	-00	+50	+81	+110	+120	+125	+117	+100	+92
Winter	+15	+09	+25	+38	+50	+66	+75	+55	+09	-61	-131	-166	-138	-91	-49	-26	-06	+28	+53	+48	+58	+46	+41	+51
Equinox	+65	+62	+49	+57	+69	+75	+49	-02	-117	-230	-297	-278	-217	-134	-62	-06	+60	+87	+116	+138	+144	+139	+126	+115
Summer	+64	+65	+49	+63	+81	+44	-33	-112	-186	-244	-276	-267	-213	-147	-73	+30	+96	+129	+161	+174	+174	+167	+134	+109

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

International Quiet Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	-03	-09	+13	+18	+44	+69	+88	+84	+55	-17	-98	-132	-110	-102	-71	-26	-02	+33	+42	+37	+45	+29	+04	+05
February	+68	+52	+65	+78	+89	+109	+135	+110	+40	-55	-180	-290	-277	-190	-97	-53	-25	-04	+35	+66	+74	+82	+87	+78
March	+69	+72	+40	+79	+91	+129	+132	+111	+02	-157	-271	-288	-276	-206	-144	-72	-30	+09	+71	+111	+152	+154	+132	+99
April	+67	+62	+48	+48	+69	+97	+90	+46	-49	-170	-291	-340	-300	-239	-144	-17	+81	+115	+135	+133	+146	+153	+137	+132
May	+48	+29	+34	+50	+89	+101	+48	-40	-120	-181	-216	-252	-227	-191	-114	-05	+84	+119	+142	+134	+150	+129	+105	+86
June	+37	+60	+57	+59	+91	+59	-02	-47	-105	-185	-242	-285	-274	-234	-156	-52	+27	+113	+205	+211	+174	+184	+157	+140
July	+45	+46	+42	+75	+113	+86	-10	-98	-162	-192	-245	-263	-245	-179	-83	+61	+109	+117	+133	+165	+154	+132	+100	+76
August	+135	+153	+114	+142	+159	+130	+79	+06	-98	-237	-354	-381	-345	-273	-216	-99	+26	+100	+128	+151	+186	+198	+152	+130
September	+93	+101	+94	+90	+91	+59	+29	-24	-125	-200	-287	-323	-298	-209	-130	-61	+53	+116	+166	+184	+154	+142	+137	+156
October	+73	+64	+72	+75	+89	+102	+71	+42	-64	-199	-269	-259	-207	-132	-55	-35	+25	+34	+47	+84	+97	+113	+133	+107
November	+25	+23	+30	+43	+38	+54	+54	+30	-17	-77	-139	-187	-168	-114	-70	-28	+07	+49	+72	+54	+74	+60	+72	+120
December	+03	-00	+09	+31	+47	+57	+61	+48	+42	+04	-54	-72	-76	-66	-57	-73	-66	-17	+18	+14	+36	+31	+37	+42
Year	+55	+54	+52	+66	+84	+88	+65	+22	-50	-139	-221	-256	-234	-178	-111	-38	+24	+65	+100	+112	+120	+117	+104	+98
Winter	+23	+17	+29	+43	+55	+72	+85	+68	+30	-36	-118	-170	-158	-118	-74	-45	-22	+15	+42	+43	+57	+51	+50	+61
Equinox	+76	+75	+64	+73	+85	+97	+81	+44	-59	-182	-280	-303	-270	-197	-118	-46	+32	+69	+105	+128	+137	+141	+135	+124
Summer	+66	+72	+62	+82	+113	+94	+29	-45	-121	-199	-264	-295	-273	-219	-142	-24	+62	+112	+152	+165	+166	+161	+129	+108

WEST COMPONENT (Unit 0.1γ)

January	-49	-36	-13	-04	-02	-16	-21	-48	-78	-86	-63	+03	+94	+114	+77	+65	+75	+73	+56	+15	-17	-33	-55	-49
February	-08	-07	+12	+04	-08	-21	-53	-108	-223	-296	-217	-63	+88	+208	+154	+98	+81	+78	+63	+43	-02	-10	+04	+04
March	-66	-49	-63	-62	-76	-87	-114	-202	-302	-301	-156	+101	+292	+381	+340	+236	+144	+83	+43	+33	+20	-30	-92	-76
April	-36	-54	-57	-70	-46	-114	-206	-317	-401	-347	-163	+90	+282	+390	+366	+292	+203	+109	+56	+41	+24	-07	-15	-15
May	+37	+16	-17	-72	-135	-251	-367	-426	-411	-277	-50	+172	+310	+377	+339	+247	+146	+60	+33	+53	+68	+61	+55	+35
June	+11	-04	-37	-110	-212	-336	-390	-416	-408	-297	-90	+137	+321	+417	+414	+325	+200	+100	+73	+60	+52	+54	+66	+74
July	-26	-41	-80	-117	-173	-303	-391	-412	-384	-254	-88	+124	+329	+395	+390	+330	+242	+144	+91	+71	+72	+48	+34	-03
August	-55	-99	-145	-109	-196	-274	-310	-368	-391	-311	-139	+126	+366	+457	+443	+363	+253	+128	+81	+78	+67	+50	+13	-37
September	-93	-129	-149	-157	-150	-181	-266	-349	-398	-302	-89	+194	+389	+425	+392	+296	+202	+126	+110	+114	+95	+25	-51	-55
October	-35	-57	-51	-61	-80	-95	-129	-201	-293	-262	-98	+90	+201	+213	+189	+123	+126	+133	+106	+90	+61	+28	+08	-07
November	-46	-59	-39	-43	-39	-58	-70	-89	-146	-151	-35	+68	+146	+152	+121	+99	+94	+90	+95	+47	+37	+01	-61	-113
December	-80	-63	-58	-42	-30	-31	-43	-35	-52	-67	-37	+35	+96	+145	+147	+127	+84	+60	+57	+10	-24	-54	-69	-76
Year	-37	-49	-58	-70	-96	-147	-197	-248	-291	-246	-102	+90	+243	+304	+286	+221	+156	+99	+73	+56	+42	+12	-15	-27
Winter	-46	-41	-25	-21	-20	-32	-47	-70	-125	-150	-88	+11	+106	+149	+138	+111	+88	+76	+72	+34	+10	-22	-49	-59
Equinox	-58	-72	-80	-88	-88	-119	-179	-267	-349	-303	-127	+119	+291	+352	+322	+237	+169	+113	+79	+70	+50	+04	-38	-38
Summer	-08	-32	-70	-102	-179	-291	-365	-406	-399	-285	-92	+140	+332	+412	+397	+316	+210	+108	+70	+66	+65	+53	+42	+17

VERTICAL COMPONENT (Unit 0.1γ)

January	+14	+14	+22	+22	+24	+34	+12	-04	-22	-36	-58	-68	-80	-20	+14	+10	+14	+14	+24	+26	+26	+04	+16	+04
February	+27	+19	+29	+25	+25	+33	+29	+33	+47	+03	-57	-83	-95	-81	-37	+03	+11	+13	+13	+07	+11	+13	+13	+09
March	+14	00	+02	+10	+16	+18	+26	+66	+58	+02	-92	-132	-138	-104	-54	+14	+66	+56	+54	+38	+28	+30	+20	+10
April	+63	+59	+61	+83	+67	+59	+69	+59	+27	-39	-135	-201	-189	-137	-69	-19	+07	+41	+49	+43	+35	+25	+17	+15
May	+51	+61	+73	+93	+113	+123	+103	+63	+01	-93	-217	-289	-267	-187	-85	-07	+49	+83	+83	+65	+59	+51	+45	+33
June	+36	+30	+26	+60	+74	+92	+70	+20	-10	-60	-136	-210	-200	-156	-66	-10	+48	+78	+104	+82	+64	+38	+16	+10
July	+35	+33	+33	+61	+83	+93	+47	+03	-47	-99	-151	-221	-211	-161	-83	-09	+49	+99	+117	+99	+85	+55	+41	+27
August	+45	+27	+29	+39	+63	+69	+61	+39	-17	-83	-167	-253	-247	-159	-49	+53	+77	+93	+79	+71	+69	+55	+45	+49
September	+71	+51	+43	+37	+33	+23	+53	+47	-09	-77	-147	-187	-189	-143	-87	-13	+43	+73	+69	+73	+67	+73	+61	+33
October	+38	+38	+38	+34	+40	+16	+16	+32	+18	-30	-86	-130	-116	-48	-12	+18	+10	+04	+08	+18	+20	+24	+22	+24
November	+09	+05	+07	+01	+05	+13	+01	+07	+19	-17	-61	-51	-51	-33	+19	+07	+05	+09	+05	+17	+25	+25	+31	+09
December	+19	+19	+19	+15	+17	+19	+07	+05	-23	-57	-81	-69	-71	-71	-45	-03	+37	+43	+53	+47	+47	+33	+23	+13
Year	+35	+30	+32	+40	+47	+49	+41	+31	+04	-49	-116	-158	-155	-108	-46	+04	+35	+51	+55	+49	+45	+36	+29	+20
Winter	+17	+14	+19	+16	+18	+25	+12	+10	+05	-27	-64	-68	-74	-51	-12	+04	+17	+20	+24	+24	+27	+19	+21	+09
Equinox	+47	+37	+36	+41	+39	+29	+41	+51	+24	-36	-115	-163	-158	-108	-56	00	+32	+44	+45	+43	+38	+38	+30	+21
Summer	+42	+38	+40	+63	+83	+94	+70	+31	-18	-84	-168	-243	-231	-166	-71	+07	+56	+88	+96	+79	+69	+50	+37	+30

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, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	-242	-282	-214	-094	-228	-042	-026	-014	-104	-116	+062	+284	+488	+496	+524	+484	+210	+372	+016	-264	-330	-292	-326	-364
February	-221	-401	-339	-229	-161	-193	-131	-215	-283	-197	+061	+357	+627	+821	+965	+761	+605	+195	+191	-005	-331	-647	-645	-595
March	-454	-780	-730	-366	-278	-166	+082	+122	-132	+086	+100	+556	+996	+1082	+1090	+882	+548	+184	-136	-196	-452	-612	-710	-718
April	-434	-468	-300	-356	-310	-114	-200	-294	-410	-198	+056	+330	+736	+940	+854	+748	+530	+288	+228	+124	-222	-322	-672	-542
May	-201	-291	-101	-257	-595	-663	-589	-713	-801	-139	+089	+443	+717	+851	+813	+621	+483	+243	+101	+027	-053	+021	+049	-059
June	-038	-274	-238	-134	-568	-516	-608	-794	-634	-290	+074	+412	+582	+690	+638	+616	+436	+368	+114	+066	+074	+066	000	-050
July	-218	-124	-036	-196	-364	-710	-758	-708	-726	-540	-220	+218	+582	+834	+766	+658	+444	+324	+202	+192	+170	+180	+052	-008
August	-143	-121	-491	-439	-311	-217	-421	-681	-575	-587	-269	+475	+841	+907	+919	+735	+447	+253	+049	-045	+057	-093	-107	-173
September	-526	-568	-706	-306	-094	-120	-308	-594	-534	-080	+518	+750	+1084	+1078	+1020	+834	+438	+096	-260	-200	-678	-228	-392	-234
October	-606	-554	-664	-468	-288	-014	+158	+152	-008	-086	+328	+632	+1040	+1082	+864	+534	+440	+290	-052	-226	-490	-588	-722	-748
November	-478	-338	-384	-130	-084	-010	+102	+062	-080	-084	+164	+434	+556	+790	+522	+630	+326	-072	-048	-066	-322	-612	-582	-304
December	-363	-455	-247	-113	-025	-027	+067	+061	+037	+031	+125	+295	+483	+509	+509	+425	+275	+083	+015	-151	-245	-449	-481	-371
Year	-327	-388	-371	-257	-276	-233	-219	-301	-354	-183	+091	+432	+728	+840	+790	+661	+432	+219	+035	-062	-235	-298	-378	-347
Winter	-326	-369	-296	-142	-125	-068	+003	-027	-108	-092	+103	+343	+539	+654	+630	+575	+354	+145	+044	-122	-307	-500	-509	-409
Equinox	-505	-593	-600	-374	-243	-104	-067	-154	-271	-070	+251	+567	+964	+1046	+957	+750	+489	+215	-055	-125	-461	-438	-624	-561
Summer	-150	-203	-217	-257	-460	-527	-594	-724	-684	-389	-082	+387	+681	+821	+784	+658	+453	+297	+117	+060	+062	+044	-002	-073

INCLINATION (Unit 0.01)

January	-071	-063	-082	-194	-206	-144	-185	-115	-072	+015	+087	+088	+078	+043	+023	+057	+042	+086	+106	+144	+114	+125	+075	+057
February	-057	-138	-164	-214	-193	-258	-225	-187	-120	-033	+067	+158	+169	+162	+146	+196	+211	+154	+121	+065	+074	+050	+004	+020
March	-280	-308	-304	-367	-392	-366	-349	-238	-150	-042	+064	+076	+094	+190	+199	+205	+180	+159	+210	+305	+361	+286	+280	+188
April	-035	-020	-035	-055	-096	-097	-099	-010	+031	+127	+177	+194	+081	+046	+076	-099	-003	-051	-107	-118	-013	+102	-029	+027
May	-108	-072	-124	-114	-093	-090	-059	+019	+187	+128	+138	+121	+155	+115	+148	+138	+027	-014	-064	-099	-105	-087	-094	-057
June	-203	-169	-140	-159	-113	-099	-045	+060	+214	+220	+174	+161	+168	+191	+178	+123	+078	-108	-127	-153	-114	-093	-039	-002
July	-047	-072	-068	-106	-106	-085	+014	+080	+131	+225	+257	+221	+137	+070	+085	+065	+055	-103	-350	-232	-144	-047	-015	+034
August	-160	-203	-139	-137	-139	-103	-101	+002	+123	+329	+363	+185	+176	+124	+031	+097	+077	+063	-100	-098	-160	-079	-045	-115
September	-256	-200	-254	-319	-367	-274	-157	+027	+076	+148	+267	+266	+223	+170	+095	+130	+172	+114	+110	+052	+056	+054	-028	-108
October	-132	-205	-240	-188	-258	-247	-164	-143	-036	+075	+143	+181	+251	+266	+232	+114	+113	+132	+115	+127	+137	+002	-192	-083
November	-114	-124	-138	-144	-150	-177	-152	-151	-101	-035	-002	+012	+138	+130	+213	+229	+209	+237	+099	+062	+014	-021	000	-028
December	-055	-031	-085	-117	-135	-123	-118	-123	-132	-076	-008	+024	+070	+089	+133	+111	+170	+143	+158	+121	+014	+003	-007	-031
Year	-127	-134	-148	-176	-187	-172	-137	-065	+013	+090	+144	+141	+145	+133	+130	+114	+111	+068	+014	+015	+020	+025	-008	-008
Winter	-074	-089	-117	-167	-171	-176	-170	-144	-106	-032	+036	+071	+114	+106	+129	+148	+158	+155	+121	+098	+054	+039	+018	+005
Equinox	-176	-183	-208	-232	-278	-246	-192	-091	-020	+077	+163	+179	+162	+168	+151	+088	+116	+089	+082	+092	+135	+111	+008	+006
Summer	-130	-129	-118	-129	-113	-094	-048	+040	+164	+226	+233	+172	+159	+125	+111	+106	+059	-041	-160	-146	-131	-077	-048	-035

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+ 95	+ 79	+111	+261	+223	+133	+197	+101	+ 53	- 83	-185	-187	-151	- 61	+ 01	- 13	+ 19	- 57	- 69	-131	- 99	-129	- 69	- 51
February	+ 56	+180	+200	+254	+220	+318	+272	+228	+130	- 12	-166	-300	-304	-260	-178	-206	-196	-102	- 72	- 12	- 38	- 02	+ 20	- 34
March	+316	+338	+312	+384	+440	+424	+408	+254	+118	- 68	-206	-204	-200	-272	-172	- 86	+ 30	+ 46	- 68	-248	-392	-352	-404	-400
April	+ 27	+ 11	+ 37	+ 65	+127	+115	+107	- 19	- 87	-249	-351	-379	-189	-107	-117	+209	+ 85	+175	+275	+277	+ 65	- 73	+ 19	- 15
May	+162	+ 96	+160	+118	+ 76	+108	+ 74	- 52	-328	-238	-288	-276	-312	-208	-198	-150	+ 34	+108	+184	+236	+234	+190	+182	+100
June	+273	+191	+149	+149	+ 67	+ 79	- 01	-157	-383	-393	-337	-341	-307	-289	-233	-113	- 11	+309	+345	+357	+265	+209	+115	+ 55
July	+ 38	+ 48	+ 48	+108	+126	+126	- 24	-140	-226	-396	-462	-422	-302	-180	-142	- 46	+ 20	+282	+658	+456	+316	+126	+ 40	- 50
August	+137	+203	+107	+135	+151	+101	+103	- 35	-221	-571	-629	-339	-321	-187	+ 33	- 17	+ 51	+ 79	+303	+247	+309	+161	+ 61	+145
September	+237	+163	+241	+321	+373	+247	+111	-141	-217	-317	-481	-455	-345	-207	+ 03	+ 55	+ 91	+185	+101	+ 63	- 05	- 71	+ 07	+ 45
October	+145	+207	+241	+197	+307	+275	+155	+133	- 21	-185	-289	-341	-409	-365	-257	+ 11	+ 39	- 11	- 05	- 67	-105	+ 57	+263	+ 25
November	+ 89	+ 73	+133	+161	+177	+217	+175	+177	+105	+ 09	- 39	- 45	-219	-165	-221	-229	-185	-223	- 37	- 11	+ 51	+ 43	- 21	- 21
December	+ 71	+ 17	+ 99	+125	+157	+151	+145	+157	+167	+ 73	- 27	- 69	-137	-147	-191	-137	-203	-143	-159	-105	+ 35	+ 33	+ 35	+ 61
Year	+137	+134	+153	+190	+204	+191	+144	+ 42	- 76	-203	-288	-280	-266	-204	-139	- 60	- 19	+ 54	+121	+ 89	+ 53	+ 16	+ 21	- 12
Winter	+ 78	+ 87	+136	+200	+194	+205	+197	+166	+114	- 03	-104	-150	-203	-158	-147	-146	-141	-131	- 84	- 65	- 13	- 14	- 09	- 11
Equinox	+181	+180	+208	+242	+312	+265	+195	+ 57	- 52	-205	-332	-345	-286	-238	-136	+ 47	+ 61	+ 99	+ 76	+ 06	-109	-110	- 29	- 86
Summer	+153	+135	+116	+128	+105	+104	+ 38	- 96	-290	-400	-429	-345	-311	-216	-135	- 82	+ 24	+195	+373	+324	+281	+172	+100	+ 63

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1947	Universal Time. Hour commencing																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	+116	+104	+129	+266	+241	+135	+197	+101	+62	-71	-188	-210	-193	-105	-47	-57	-00	-90	-70	-105	-68	-101	-38	-17
February	+75	+214	+228	+271	+232	+331	+280	+244	+154	+06	-169	-328	-357	-331	-263	-272	-248	-118	-88	-11	-07	+57	+79	+21
March	+353	+404	+374	+412	+459	+433	+395	+239	+128	-75	-212	-252	-288	-367	-269	-165	-20	+29	+55	-227	-345	-291	-334	-329
April	+66	+53	+64	+97	+153	+124	+124	+08	-48	-228	-351	-404	-253	-191	-193	+138	+36	+146	+250	+262	+84	-43	+80	+35
May	+178	+121	+167	+140	+129	+167	+127	+14	-250	-222	-292	-313	-373	-283	-269	-205	-11	+84	+172	+230	+236	+185	+175	+104
June	+273	+213	+169	+159	+118	+125	+54	-83	-320	-361	-339	-374	-356	-348	-288	-168	-51	+271	+330	+346	+255	+200	+113	+59
July	+57	+59	+51	+124	+157	+189	+45	-74	-157	-341	-436	-436	-351	-254	-210	-105	-21	+249	+630	+432	+296	+108	+35	-49
August	+148	+211	+150	+173	+177	+119	+140	+28	-166	-510	-596	-378	-393	-267	-51	-84	+10	+55	+294	+248	+300	+167	+70	+159
September	+282	+212	+302	+344	+376	+254	+138	-85	-165	-305	-522	-517	-439	-302	-90	-22	+50	+174	+123	+80	+57	-49	+43	+66
October	+198	+255	+298	+237	+329	+273	+138	+117	-20	-175	-315	-394	-498	-459	-332	-38	-02	-37	-00	-46	-59	+110	+325	+93
November	+131	+103	+166	+171	+182	+215	+163	+169	+111	+17	-53	-84	-267	-235	-266	-283	-212	-213	-32	-05	+80	+98	+32	+07
December	+103	+58	+120	+134	+157	+151	+137	+149	+161	+69	-38	-95	-179	-191	-235	-174	-225	-149	-158	-90	+57	+73	+78	+94
Year	+165	+167	+185	+211	+226	+210	+162	+69	-43	-183	-293	-315	-329	-278	-209	-120	-58	+33	+116	+93	+74	+43	+55	+20
Winter	+106	+120	+161	+211	+203	+208	+194	+166	+122	+05	-112	-179	-249	-216	-203	-197	-171	-143	-87	-53	+16	+32	+38	+26
Equinox	+225	+231	+260	+273	+329	+271	+199	+70	-26	-196	-350	-392	-370	-330	-221	-22	+16	+78	+80	+17	-66	-68	+29	-34
Summer	+164	+151	+134	+149	+145	+150	+92	-29	-223	-359	-416	-375	-368	-288	-205	-141	-18	+165	+357	+314	+272	+165	+98	+68

WEST COMPONENT (Unit 0.1γ)

January	-113	-137	-96	-06	-84	-00	+19	+10	-47	-76	+02	+120	+235	+254	+280	+256	+115	+189	-03	-163	-193	-177	-185	-203
February	-108	-184	-147	-79	-49	-50	-24	-76	-129	-107	+05	+140	+283	+394	+484	+371	+290	+87	+90	-05	-183	-345	-340	-323
March	-189	-359	-337	-131	-74	-17	+112	+108	-51	+34	+19	+262	+497	+531	+552	+456	+297	+106	-84	-146	-307	-385	-446	-450
April	-227	-248	-154	-179	-144	-42	-89	-160	-233	-147	-29	+112	+361	+483	+436	+434	+297	+183	+168	+113	-107	-184	-355	-291
May	-80	-139	-27	-117	-304	-335	-302	-389	-482	-114	-01	+190	+330	+419	+400	+306	+263	+148	+85	+54	+11	+43	+57	-15
June	+26	-114	-102	-46	-291	-262	-324	-450	-402	-221	-17	+162	+259	+319	+301	+309	+231	+248	+119	+95	+84	+70	+19	-18
July	-110	-58	-11	-86	-173	-357	-408	-401	-425	-354	-195	+45	+260	+414	+384	+343	+240	+220	+218	+179	+144	+117	+34	-13
August	-53	-30	-244	-211	-140	-99	-207	-369	-344	-409	-249	+196	+394	+452	+495	+389	+247	+148	+77	+18	+82	-23	-47	-68
September	-241	-275	-336	-109	+13	-23	-146	-340	-321	-96	+195	+323	+520	+540	+544	+454	+249	+82	-122	-96	-362	-133	-208	-117
October	-299	-261	-313	-216	-102	+39	+110	+103	-08	-77	+126	+280	+486	+515	+417	+286	+241	+153	-29	-132	-279	-304	-341	-395
November	-240	-168	-182	-42	-15	+31	+84	+63	-25	-43	+81	+224	+260	+393	+241	+297	+143	-76	-32	-37	-163	-319	-314	-166
December	-182	-240	-115	-39	+13	+11	+60	+59	+48	+29	+62	+146	+234	+247	+239	+204	+113	+20	-19	-98	-125	-234	-251	-188
Year	-151	-184	-172	-105	-113	-92	-93	-154	-202	-132	-00	+183	+343	+413	+398	+342	+227	+126	+39	-18	-117	-156	-198	-187
Winter	-161	-182	-135	-42	-34	-02	+35	+14	-38	-49	+38	+158	+253	+322	+311	+282	+165	+55	+09	-76	-166	-269	-273	-220
Equinox	-239	-286	-285	-159	-77	-11	-03	-72	-153	-72	+78	+244	+466	+517	+487	+408	+271	+131	-17	-65	-264	-252	-338	-313
Summer	-54	-85	-96	-115	-227	-263	-310	-402	-413	-275	-116	+148	+311	+401	+395	+337	+245	+191	+125	+87	+80	+52	+16	-29

VERTICAL COMPONENT (Unit 0.1γ)

January	-23	-35	-29	-65	-195	-191	-183	-163	-125	-143	-127	-127	-79	+07	+83	+167	+189	+167	+207	+193	+165	+131	+101	+79
February	-67	-59	-103	-153	-155	-157	-145	-117	-113	-141	-153	-149	-121	-43	+95	+201	+273	+299	+251	+197	+171	+127	+59	-09
March	-236	-280	-326	-378	-334	-280	-260	-234	-246	-306	-256	-212	-140	+24	+290	+508	+692	+656	+568	+480	+338	+172	+32	-276
April	-60	-44	-34	-38	-38	-68	-92	-78	-92	-140	-204	-208	-160	-90	-10	+142	+188	+230	+270	+236	+106	+184	+54	+58
May	+03	-27	-59	-121	-145	-61	-31	-55	-115	-111	-191	-223	-187	-87	+53	+133	+173	+199	+203	+203	+181	+139	+97	+35
June	-69	-141	-137	-203	-235	-159	-159	-155	-149	-153	-179	-235	-131	-11	+75	+163	+245	+341	+361	+301	+221	+163	+131	+121
July	-75	-137	-125	-117	-73	+01	-07	-47	-73	-143	-183	-213	-227	-177	-35	+119	+237	+297	+319	+255	+237	+133	+41	+01
August	-237	-231	-231	-159	-131	-121	-111	-71	-87	-187	-205	-147	-135	-05	+183	+297	+385	+403	+357	+237	+163	+101	-15	-63
September	-336	-314	-318	-360	-406	-374	-286	-236	-242	-224	-194	-136	-26	+106	+334	+578	+806	+824	+616	+324	+182	+22	-80	-270
October	-121	-227	-269	-193	-181	-215	-209	-187	-173	-169	-177	-165	-81	+73	+209	+419	+481	+433	+387	+283	+233	+137	-57	-229
November	-188	-260	-168	-124	-108	-106	-120	-112	-108	-102	-98	-62	-32	+66	+226	+258	+294	+302	+256	+190	+166	+26	-50	-146
December	-23	-69	-65	-115	-103	-75	-71	-61	-69	-95	-91	-75	-77	-33	+19	+67	+119	+163	+175	+177	+129	+85	+55	+33
Year	-119	-152	-155	-169	-175	-151	-140	-126	-133	-160	-172	-163	-116	-14	+127	+254	+340	+360	+331	+256	+191	+118	+22	-56
Winter	-75	-106	-91	-114	-140	-132	-130	-113	-104	-120	-117	-103	-77	-01	+106	+173	+219	+233	+222	+189	+158	+92	+41	-11
Equinox	-188	-216	-237	-242	-240	-234	-212	-184	-188	-210	-208	-180	-102	+28	+206	+412	+542	+536	+460	+331	+215	+129	-40	-179
Summer	-95	-134	-138	-150	-146	-85	-77	-82	-106	-149	-190	-205	-170	-70	+69	+178	+260	+310	+310	+249	+201	+134	+64	+24

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			
1947	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
Jan.	+7.8	+4.4	-5.8	-0.5	+2.3	-1.7	-0.7	+0.9	-7.9	-6.1	-1.8	+6.1	-1.2	-1.8	+1.7	+1.4	+2.8	-5.0	-1.8	-0.1	+0.8	+0.0	-1.0	+0.1			
Feb.	+13.7	+8.0	-8.7	-3.8	+4.0	-0.7	+0.1	-1.5	-8.7	-11.4	-1.5	+10.0	-1.8	-5.5	+3.5	-0.2	+4.0	-5.1	-4.1	-0.8	+2.4	+0.3	-1.2	-0.3			
March	+17.7	+5.4	-11.1	+0.4	+2.1	-1.0	+1.9	+1.0	-14.7	-13.1	+2.3	+13.0	-2.7	-9.2	+3.0	+1.5	+0.5	-16.1	-8.6	-1.5	+3.7	+1.0	-1.2	-0.5			
April	+18.3	-1.2	-13.3	-1.2	+5.1	-1.8	-0.0	+1.3	-10.8	-19.3	+4.2	+16.3	-5.3	-8.7	+2.1	+2.2	+8.2	-5.1	-8.3	-4.3	+3.7	+0.9	-1.4	+0.3			
May	+18.7	-6.2	-11.4	-0.0	+0.9	+0.6	+1.1	-1.5	-9.3	-22.3	+13.6	+12.8	-6.3	-4.1	+0.1	-0.3	+10.4	-6.6	-11.3	+0.5	+3.7	+0.2	-0.9	+0.2			
June	+21.9	-7.4	-11.4	+0.1	-0.9	-1.0	+1.4	-0.1	-8.6	-26.8	+10.2	+13.2	-4.9	-3.8	-0.0	-0.5	+6.9	-9.7	-9.5	-0.0	+2.3	+0.2	-0.2	+0.4			
July	+19.5	-7.7	-14.1	+0.7	+0.5	-0.3	+0.8	+0.3	-7.4	-26.7	+7.9	+14.4	-4.4	-5.4	-0.9	+0.2	+8.9	-6.8	-10.8	-1.2	+2.7	+0.9	-0.1	-0.4			
Aug.	+24.5	-4.4	-11.3	+1.7	-0.0	-2.3	+0.2	+2.1	-12.0	-23.5	+8.9	+13.9	-4.5	-7.1	+0.7	+1.4	+5.4	-11.5	-10.9	-0.1	+3.8	+0.2	-0.5	-1.0			
Sept.	+23.6	-2.0	-12.6	+4.0	+1.7	-1.3	+0.7	+0.6	-16.7	-17.1	+6.3	+14.1	-6.2	-7.1	+3.3	-0.1	+0.7	-15.4	-10.2	+0.1	+3.3	+0.9	-0.6	-0.4			
Oct.	+21.5	+3.6	-11.0	+0.9	+4.0	-2.2	-0.6	-0.1	-14.8	-11.5	+0.6	+12.1	-4.9	-6.8	+4.3	+2.4	+1.2	-11.1	-7.0	-0.6	+2.9	+0.1	-1.8	-0.1			
Nov.	+11.5	+5.1	-5.9	-2.8	+1.6	-0.7	-0.0	+0.2	-10.3	-7.5	-0.5	+7.5	-2.7	-3.0	+1.4	+2.4	+1.2	-6.7	-3.6	+0.4	+1.2	-1.1	-1.0	-0.0			
Dec.	+6.5	+6.9	-3.0	-3.4	+0.7	-1.5	-0.3	+0.1	-10.5	-3.9	-1.9	+5.7	-1.6	-1.8	+0.6	+1.6	+3.4	-5.7	-2.9	-0.4	+0.8	+0.1	0.0	+0.1			
Year	+17.1	+0.4	-10.0	-0.3	+1.8	-1.2	+0.2	+0.5	-11.0	-15.8	+4.0	+11.6	-3.9	-5.4	+1.5	+1.3	+4.5	-8.8	-7.5	-0.3	+2.6	+0.3	-0.8	-0.1			
Winter	+9.9	+6.1	-5.8	-2.6	+2.1	-1.1	-0.6	+0.5	-9.4	-7.2	-1.4	+7.4	-1.8	-3.0	+1.3	+2.1	+2.9	-5.6	-3.1	-0.2	+1.3	-0.2	-0.8	-0.0			
Equinox	+20.3	+1.4	-12.0	+1.0	+3.2	-1.6	+0.3	+0.7	-14.2	-15.3	+3.4	+13.9	-4.8	-8.0	+3.2	+1.5	+2.7	-12.0	-8.8	-0.6	+3.4	+0.7	-1.3	-0.2			
Summer	+21.2	-6.4	-12.1	+0.6	+0.1	-0.8	+0.9	+0.2	-9.3	-24.9	+10.1	+13.6	-5.1	-5.1	-0.0	+0.2	+7.9	-8.7	-10.6	-0.2	+3.1	+0.4	-0.4	-0.2			
INTERNATIONAL QUIET DAYS																											
Year	+14.3	-0.2	-8.5	-0.2	+2.0	-1.2	-0.3	+0.5	-5.5	-17.2	+5.4	+11.1	-4.4	-4.8	+1.5	+1.6	+6.8	-1.0	-5.8	-0.3	+2.4	-0.2	-0.9	-0.1			
Winter	+7.8	+2.8	-5.8	-1.6	+2.2	-0.9	-0.6	+0.8	-3.2	-8.0	-0.9	+6.1	-2.1	-2.8	+1.2	+1.8	+3.3	-0.9	-2.6	-0.2	+1.1	-0.3	-0.6	-0.0			
Equinox	+17.1	-0.3	-9.6	+0.1	+2.9	-2.0	-0.2	+1.3	-6.7	-18.3	+4.9	+13.0	-5.9	-6.5	+3.0	+2.2	+6.8	-0.9	-5.5	-0.9	+3.0	+0.0	-1.3	+0.2			
Summer	+18.1	-3.2	-10.2	+0.8	+0.7	-0.7	+0.1	-0.6	-6.5	-25.4	+12.0	+14.3	-5.3	-5.0	+0.2	+0.8	+10.3	-1.2	-9.4	+0.2	+3.0	-0.3	-0.8	-0.4			
INTERNATIONAL DISTURBED DAYS																											
Year	+20.5	+2.1	-12.5	+0.2	+0.7	-0.9	+0.7	+0.8	-19.8	-15.5	+2.2	+12.8	-2.7	-5.6	+2.3	+1.1	+0.3	-23.8	-11.0	+0.5	+2.9	+0.9	-0.9	-0.6			
Winter	+13.1	+13.0	-5.9	-3.8	+0.9	-1.5	-2.0	+0.2	-20.5	-5.5	-1.9	+10.6	-0.6	-3.8	+1.7	+2.0	+1.0	-17.9	-6.0	+0.0	+1.5	+0.3	-1.3	-0.4			
Equinox	+21.4	+2.9	-15.5	+5.1	+4.2	-0.1	+0.9	-1.5	-30.8	-13.1	+0.0	+14.4	-2.2	-8.0	+4.0	+0.9	-4.1	-34.8	-15.7	+2.9	+3.6	+2.1	-1.3	-1.5			
Summer	+27.0	-9.6	-16.1	-1.0	-3.0	-0.8	+3.3	+3.6	-8.0	-27.9	+8.5	+13.3	-5.2	-5.0	+1.1	+0.5	+4.1	-18.6	-11.3	-1.3	+3.5	+0.1	-0.2	-0.1			

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

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

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

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT										
	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4			
1947	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°	Y	°			
Jan.	8.9	61	5.8	266	2.8	127	1.1	324	10.0	233	6.4	344	2.1	214	2.2	52	5.7	151	1.8	267	0.8	91	1.0	279			
Feb.	15.9	60	9.4	247	4.1	101	1.5	180	14.4	218	10.1	353	5.8	199	3.5	94	6.5	142	4.2	260	2.4	85	1.3	260			
March	18.5	74	11.1	273	2.3	116	1.4	45	19.7	229	13.2	11	9.6	198	3.4	65	16.1	179	8.7	261	3.8	76	1.3	250			
April	18.4	94	13.4	266	5.4	111	1.3	1	22.1	210	16.8	15	10.1	213	3.1	45	9.7	123	9.3	243	3.8	77	1.5	281			
May	19.8	109	11.4	271	1.1	57	1.8	146	24.2	203	18.6	48	7.5	238	0.3	173	12.3	123	11.3	273	3.7	89	0.9	282			
June	23.1	109	11.4	271	1.4	224	1.4	95	28.1	198	16.7	38	6.2	234	0.5	186	11.9	145	9.5	271	2.4	87	0.5	336			
July	21.0	112	14.2	274	0.6	125	0.9	72	27.7	196	16.4	29	7.0	221	0.9	286	11.2	128	10.8	264	2.8	73	0.4	188			
Aug.	24.8	101	11.4	280	2.3	182	2.1	8	26.4	207	16.5	34	8.4	213	1.6	27	12.7	155	10.9	271	3.8	89	1.1	207			
Sept.	23.7	95	13.2	288	2.1	129	0.9	49	23.9	225	15.5	25	9.4	222	3.3	93	15.4	178	10.2	272	3.4	76	0.7	236			
Oct.	21.8	81	11.1	275	4.5	121	0.6	260	18.7	233	12.1	4	8.4	217	4.9	62	11.2	174	7.1	266	2.9	89	1.8	267			
Nov.	12.6	67	6.5	245	1.7	116	0.2	356	12.8	234	7.5	357	4.0	223	2.8	33	6.8	170	3.6	277	1.6	133	1.0	271			
Dec.	9.4	44	4.5	222	1.6	157	0.3	285	11.2	250	6.0	343	2.4	223	1.7	21	6.6	150	2.9	264	0.8	84	0.1	2			
Year	17.1	79	10.0	269	2.2	124	0.5	24	19.2	215	12.3	20	6.6	217	2.0	51	9.9	153	7.5	268	2.6	84	0.8	263			
Winter	11.6	59	6.4	247	2.4	119	0.7	313	11.8	233	7.5	350	3.5	212	2.5	34	6.3	154	3.1	267	1.3	98	0.8	270			
Equinox	20.3	86	12.1	276	3.6	118	0.8	22	20.9	223	14.3	14	9.3	212	3.5	67	12.3	168	8.8	267	3.5	79	1.3	263			
Summer	22.1	107	12.1	274	0.8	174	0.9	80	26.6	201	16.9	38	7.2	226	0.2	351	11.7	138	10.6	270	3.2	85	0.4	244			
INTERNATIONAL QUIET DAYS																											
Year	14.3	91	8.5	269	2.3	123	0.6	335	18.1	198	12.3	27	6.5	224	2.2	44	6.9	99	5.8	268	2.4	96	0.9	268			
Winter	8.3	70	6.0	256	2.4	113	1.0	325	8.6	202	6.1	353	3.5	218	2.1	35	3.4	106	2.6	266	1.1	109	0.6	269			
Equinox	17.1	91	9.6	271	3.6	126	1.3	353	19.5	201	13.9	22	8.8	224	3.7	56	6.9	98	5.6	261	3.0	91	1.3	279			
Summer	18.3	101	10.2	275	1.0	133	0.6	175	26.3	195	18.6	41	7.2	228	0.8	17	10.4	97	9.4	272	3.0	96	0.9	244			
INTERNATIONAL DISTURBED DAYS																											
Year	20.6	85	12.5	272	1.1	141	1.1	44	25.1	232	13.0	11	6.2	207	2.5	65	23.8	180	11.0	274	3.1	75	1.1	237			
Winter	18.4	46	7.0	239	1.7	151	2.0	277	21.2	256	10.8	351	3.9	190	2.6	42	17.9	177	6.0	271	1.6	79	1.3	254			
Equinox	21.6	83	16.3	289	4.2	93	1.8	151	33.5	247	14.4	1	8.3	197	4.1	78	35.1	187	16.0	281	4.2	61	2.0	223			
Summer	28.6	120	16.1	267	3.1	256	4.9	44	29.0	196	15.8	33	7.1	227	1.2	68	19.1	168	11.4	265	3.5	90	0.2	237			

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1947

Month and Season	All Days			Quiet Days			Disturbed Days			All Days			Quiet Days			Disturbed Days		
	D	I	H	D	I	H	D	I	H	X	Y	Z	X	Y	Z	X	Y	Z
January	5.58	1.76	27.4	3.98	1.20	21.2	8.88	3.50	44.8	28.7	28.2	13.5	22.0	20.0	11.4	47.6	47.3	40.2
February	9.31	2.48	40.8	9.32	2.50	42.0	16.12	4.69	62.2	45.1	48.5	19.8	42.5	50.4	14.2	68.8	82.9	45.6
March	12.35	3.03	45.3	13.10	2.65	44.6	18.70	7.53	84.4	49.3	63.7	39.4	44.2	68.3	20.4	82.6	100.2	107.0
April	15.23	2.50	51.1	15.02	2.65	47.0	16.12	3.12	65.6	52.9	79.4	36.9	49.3	79.1	28.4	66.6	83.8	47.8
May	15.45	2.18	44.5	15.10	2.15	38.4	16.52	3.11	56.4	49.0	81.3	45.1	40.2	80.3	41.2	60.9	90.1	42.6
June	15.12	3.04	56.5	15.76	2.61	47.6	14.84	4.23	75.0	55.7	80.7	43.0	49.6	83.3	31.4	72.0	76.9	59.6
July	14.66	3.15	62.5	14.96	2.24	43.0	15.92	6.07	112.0	62.2	78.5	41.5	42.8	80.7	33.8	106.6	83.9	54.6
August	14.89	3.30	61.6	16.00	3.23	57.6	16.00	5.66	93.8	60.3	78.0	42.6	57.9	84.8	34.6	89.6	90.4	64.0
September	13.80	3.51	54.3	15.26	2.71	49.8	17.90	6.34	85.4	58.6	72.6	44.2	50.7	82.3	26.2	89.8	90.6	123.0
October	11.70	3.22	50.4	9.46	2.47	41.4	18.30	5.24	71.6	53.9	60.1	31.2	40.2	50.6	17.0	82.7	91.0	75.0
November	7.55	1.75	27.4	5.80	1.64	27.2	14.02	4.14	44.6	31.7	37.2	17.5	30.7	30.3	9.2	49.8	71.2	56.2
December	6.58	1.58	19.5	4.38	0.79	11.8	9.90	3.05	37.0	22.5	33.6	15.8	13.7	22.7	13.4	39.6	49.8	29.2
Mean for Year	11.85	2.63	45.1	11.51	2.24	39.3	15.27	4.72	69.4	47.5	61.8	32.5	40.3	61.1	23.4	71.4	79.8	62.1
Winter	7.26	1.89	28.8	5.87	1.53	25.6	12.23	3.85	47.2	32.0	36.9	16.7	27.2	30.9	12.1	51.5	62.8	42.8
Equinox	13.27	3.07	50.3	13.21	2.62	45.7	17.76	5.56	76.8	53.7	69.0	37.9	46.1	70.1	23.0	80.4	91.4	88.2
Summer	15.03	2.92	56.3	15.46	2.56	46.7	15.82	4.77	84.3	56.8	79.6	43.1	47.6	82.3	35.3	82.3	85.3	55.2

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

Month 1947	All Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
January	-0.16	-0.1	+0.0	0.00	+0.4	-0.8	-0.78	-12.6	-7.8
February	+0.07	+0.1	0.0	+0.12	+1.4	-1.8	-2.50	-9.0	-1.4
March	+0.02	-0.6	+0.7	+0.42	+4.4	-2.6	-3.06	-64.0	-4.0
April	-0.00	+0.8	-0.5	-0.06	+7.8	-4.6	+1.00	-8.8	+8.6
May	+0.09	+0.7	-0.2	-0.70	+3.0	-1.8	+0.16	-9.2	+3.2
June	-0.05	-0.2	+0.3	+0.30	+9.8	-3.6	-0.74	-25.4	+12.4
July	-0.16	-0.5	0.0	+0.04	+5.0	-1.4	+0.08	-8.4	+3.4
August	-0.05	-0.2	+0.3	-0.10	+1.4	-0.2	+0.50	-1.0	-1.8
September	-0.12	-0.2	+0.4	+0.06	+7.4	-5.4	+1.02	-16.4	+1.4
October	+0.09	+0.2	-0.4	+0.16	+2.2	-1.6	-0.42	-5.2	-14.6
November	+0.00	-0.1	+0.1	-1.52	+4.6	-2.0	+0.18	-10.8	+3.4
December	+0.00	+0.3	-0.3	+0.16	+4.0	-2.4	+1.30	-2.8	+2.6
Year 1947	-	-	-	-0.09	+4.3	-2.4	-0.27	-14.5	+0.5

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

Month 1947	Declination West	Inclination	Intensity				
			Horizontal	North	West	Vertical	Total
January	9 46.6	66 45.4	.18572	.18302	.03154	.43240	.47059
February	9 46.0	66 45.2	.18573	.18304	.03154	.43238	.47058
March	9 45.0	66 46.7	.18557	.18289	.03153	.43254	.47067
April	9 44.5	66 45.0	.18579	.18311	.03153	.43244	.47066
May	9 44.2	66 44.1	.18590	.18323	.03153	.43238	.47065
June	9 43.7	66 44.1	.18591	.18324	.03153	.43241	.47068
July	9 43.0	66 43.9	.18594	.18327	.03153	.43239	.47067
August	9 42.4	66 45.1	.18577	.18311	.03152	.43243	.47065
September	9 41.0	66 46.3	.18564	.18300	.03151	.43254	.47069
October	9 40.5	66 46.2	.18567	.18303	.03151	.43256	.47072
November	9 40.2	66 45.3	.18578	.18314	.03151	.43253	.47074
December	9 39.9	66 44.6	.18587	.18323	.03151	.43248	.47073
Year 1947	9 43.1	66 45.2	.18577	.18310	.03152	.43246	.47067

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	9 19.5	9 19.7	9 19.5	9 19.6	9 19.7	9 19.6	9 19.7	9 19.3	9 19.3	9 19.4	9 19.2	9 19.7
2	19.6	19.6	19.6	19.6	19.7	19.6	19.8	19.3	19.3	19.4	19.3	19.7
3	19.5	19.6	19.6	19.6	19.7	19.6	19.8	19.3	19.3	19.3	19.3	19.7
4	19.5	19.6	19.6	19.6	19.7	19.5	$\frac{19.7}{20.3}$	19.3	19.3	19.3	19.2	19.7
5	19.6	19.6	19.7	19.6	19.7	19.6	20.3	19.3	19.4	19.4	19.3	19.7
6	19.6	19.6	19.6	19.6	19.7	19.7	20.2	19.3	19.4	19.3	19.3	19.7
7	19.7	19.6	19.6	19.5	19.7	19.6	20.3	19.5	19.3	19.3	19.3	19.6
8	19.6	19.6	19.7	19.6	19.6	19.7	20.3	19.5	19.4	19.3	19.3	19.6
9	19.6	19.6	19.6	19.6	19.7	19.6	20.6	19.5	19.4	19.3	19.3	19.7
10	19.5	19.6	19.6	19.5	19.7	19.7	$\frac{20.6}{20.1}$	19.5	19.3	19.4	19.3	19.7
11	19.5	19.6	19.6	19.7	19.7	19.8	$\frac{19.6}{20.6}$	19.4	19.3	19.3	19.3	19.7
12	19.5	19.7	19.6	19.6	19.7	19.8	$\frac{20.6}{20.1}$	19.4	19.4	19.3	19.3	19.7
13	19.5	19.7	19.6	19.6	19.7	19.7	19.8	19.4	19.3	19.3	19.2	19.7
14	19.5	19.7	19.6	19.7	19.8	19.7	19.8	19.4	19.3	19.3	19.4	19.7
15	19.5	19.7	19.5	19.7	19.7	19.7	19.8	19.4	19.4	19.2	19.4	19.7
16	19.5	19.7	19.5	19.7	19.6	19.7	19.7	19.4	19.3	19.4	19.3	19.7
17	19.5	19.6	19.6	19.6	19.7	19.7	19.6	19.4	19.2	19.3	19.4	19.7
18	19.5	19.6	19.6	19.8	19.7	19.7	19.5	19.4	19.3	19.3	19.4	19.7
19	19.4	19.7	19.6	19.7	19.7	19.7	19.6	19.4	19.3	19.4	19.4	19.7
20	19.6	19.6	19.6	19.7	19.7	19.7	19.6	19.4	19.3	19.3	19.3	19.7
21	19.5	19.6	19.6	19.7	19.6	19.8	19.6	19.4	19.3	19.3	19.2	19.8
22	19.6	19.6	19.5	19.7	19.8	19.7	19.6	19.4	19.3	19.3	19.2	19.7
23	19.5	19.6	19.6	19.7	19.8	19.7	19.6	19.3	19.3	19.3	19.3	19.7
24	19.7	19.6	19.6	19.7	19.7	19.7	19.6	19.4	19.3	19.3	19.3	19.7
25	19.6	19.6	19.6	19.7	19.7	19.7	19.6	19.3	19.3	19.3	19.5	19.7
26	19.6	19.5	19.6	19.8	19.7	19.7	19.6	19.4	19.3	19.3	19.6	19.8
27	19.7	19.6	19.6	19.8	19.7	19.7	19.6	19.4	19.3	19.3	19.6	19.6
28	19.6	19.6	19.7	19.8	19.6	19.7	19.4	19.2	19.3	19.3	19.8	19.7
29	19.7		19.6	19.7	19.7	19.7	19.4	19.3	19.3	19.3	19.8	19.7
30	19.6		19.6	19.7	19.5	19.7	19.3	19.3	19.3	19.3	19.7	19.7
31	19.7		19.6		19.7		19.3	19.3		19.2		19.7

Apr. 10 - Recording-Room temperature raised from 11.0 C to 16.0 C.

May 30 - " " " " " 16.0 C " 21.0 C.

July 4-12 - Unit containing magnet being installed by Time Department near Recording-Room.

Unit removed on July 12, after discovery and tests by Magnetic Department.

Smaller changes of Base-line value were traced to Chronograph magnets in another Time Dept. building. Such magnets were eventually replaced by relays on Aug. 27.

Nov. 4 - 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					Universal Time					Universal Time																
h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line						
Y	Y	Y	Y				Y	Y																		
Jan.	1	10 4	-	10 16	8	18583	18348	Mar.	24	9 42	-	9 51	8	18532	18345	June	10	8 11	-	8 23	8	18568	18342			
	2	10 46	-	10 53	8	18573	18347		25	9 44	-	9 52	8	18532	18345		11	8 23	-	8 32	8	18565	18343			
	3	10 37	-	10 45	8	18563	18347		26	9 46	-	9 54	8	18543	18345		12	8 10	-	8 18	8	18593	18342			
	4	10 38	-	10 45	8	18558	18347		27	9 54	-	10 19	8	18544	18345		13	8 7	-	8 16	8	18577	18342			
	6	10 20	-	10 28	8	18548	18346		28	9 22	-	9 30	8	18529	18345		14	8 17	-	8 30	8	18541	18342			
	7	10 42	-	10 49	8	18552	18346		29	9 21	-	9 29	8	18523	18344		16	8 15	-	8 24	8	18577	18342			
	8	10 42	-	10 49	8	18574	18348		31	9 52	-	10 16	8	18535	18345		17	8 17	-	8 27	8	18559	18342			
	10	10 34	-	10 52	8	18579	18347										18	8 14	-	8 23	8	18581	18342			
	11	10 33	-	10 42	8	18585	18346		Apr.	1	9 51	-	9 59	8	18544	18345		19	8 4	-	8 14	8	18566	18342		
	13	10 54	-	11 7	8	18569	18348			2	9 12	-	9 24	8	18574	18346		20	8 23	-	8 35	8	18560	18341		
	15	9 52	-	9 59	8	18568	18347			3	9 6	-	9 14	8	18564	18345		21	8 0	-	8 9	8	18568	18341		
	16	10 46	-	10 57	8	18564	18346			5	9 35	-	9 43	8	18536	18345		23	7 45	-	8 1	8	18595	18341		
	17	10 41	-	10 57	8	18536	18347			8	9 13	-	9 21	8	18567	18346		24	8 8	-	8 21	8	18578	18342		
	18	10 47	-	10 55	8	18551	18347			9	9 47	-	9 58	8	18501	18344		25	8 11	-	8 22	8	18562	18341		
	20	10 41	-	10 49	8	18563	18348			11	9 40	-	9 48	8	18544	18345		26	8 5	-	8 15	8	18593	18341		
	22	10 6	-	10 14	8	18573	18347			12	8 44	-	8 55	8	18555	18345		27	8 13	-	8 23	8	18580	18342		
	23	9 58	-	10 10	8	18579	18346			14	8 51	-	8 58	8	18584	18345		28	8 1	-	8 14	8	18586	18341		
	24	10 36	-	10 46	8	18550	18347			15	8 48	-	8 56	8	18575	18344		30	8 3	-	8 17	8	18585	18341		
	25	10 45	-	10 56	8	18479	18346			16	8 8	-	8 22	8	18574	18345										
	27	10 47	-	10 57	8	18535	18347			17	6 51	-	7 3	8	18591	18345		July	1	8 7	-	8 18	8	18588	18341	
	28	10 43	-	10 55	8	18547	18347			18	7 40	-	7 54	8	18526	18345			2	8 17	-	8 29	8	18568	18341	
	29	10 41	-	10 53	8	18538	18346			19	7 42	-	7 57	8	18538	18345			3	8 13	-	8 21	8	18565	18341	
	30	10 43	-	10 58	8	18573	18348			21	8 10	-	8 22	8	18559	18344			4	7 54	-	8 25	16	18582	18341	
	31	10 42	-	10 54	8	18554	18347			22	7 29	-	7 41	8	18582	18345			5	8 35	-	8 46	8	18579	18341	
										23	8 20	-	8 32	8	18579	18346			7	8 38	-	8 49	8	18583	18340	
Feb.	1	10 46	-	10 54	8	18553	18348			24	8 32	-	8 43	8	18583	18346			8	9 31	-	9 39	8	18581	18340	
	3	10 52	-	11 7	8	18554	18347			25	7 30	-	7 49	8	18606	18347			9	9 27	-	9 36	8	18566	18340	
	4	10 46	-	10 53	8	18567	18346			26	8 48	-	9 8	8	18606	18347			10	9 30	-	9 39	8	18566	18339	
	5	10 41	-	10 49	8	18566	18347			28	8 39	-	8 47	8	18583	18346			11	8 41	-	8 49	8	18590	18340	
	6	9 52	-	10 4	8	18571	18346			29	8 1	-	8 10	8	18597	18347			14	9 25	-	9 40	8	18582	18339	
	7	9 53	-	10 5	8	18581	18347			30	8 7	-	8 15	8	18585	18347			15	8 27	-	8 35	8	18573	18338	
	8	9 46	-	9 55	8	18561	18347											16	9 26	-	9 38	8	18569	18339		
	10	9 49	-	9 57	8	18556	18347											17	8 27	-	8 42	10	18580	18340		
	11	9 45	-	9 53	8	18551	18346		May	1	8 6	-	8 14	8	18587	18345			18	8 13	-	8 26	8	18551	18339	
	12	9 51	-	9 59	8	18563	18348			2	9 55	-	10 8	8	18573	18345			19	8 26	-	8 37	8	18537	18339	
	13	9 51	-	9 58	8	18560	18347			3	8 12	-	8 20	8	18580	18347			21	8 20	-	8 32	8	18561	18339	
	14	9 45	-	9 54	8	18576	18348			5	8 19	-	8 27	8	18577	18346			23	9 41	-	9 52	8	18539	18339	
	15	9 52	-	9 59	8	18563	18347			6	8 22	-	8 30	8	18580	18345			24	8 16	-	8 28	8	18575	18339	
	17	9 52	-	10 5	8	18506	18345			7	8 8	-	8 19	8	18582	18345			25	8 12	-	8 26	8	18562	18339	
	18	10 8	-	10 22	8	18534	18346			8	8 1	-	8 13	8	18588	18344			26	8 33	-	8 42	8	18589	18339	
	19	9 40	-	9 49	8	18556	18346			9	8 17	-	8 25	8	18574	18345			28	8 19	-	8 28	8	18569	18339	
	20	9 55	-	10 9	8	18548	18346			10	8 18	-	8 25	8	18577	18343			29	8 22	-	8 36	8	18565	18339	
	21	11 3	-	11 14	8	18539	18347			12	8 19	-	8 26	8	18557	18343			30	8 16	-	8 23	8	18577	18339	
	22	10 13	-	10 25	8	18571	18346			13	8 27	-	8 35	8	18593	18345			31	9 23	-	9 35	8	18580	18339	
	24	10 4	-	10 16	8	18574	18348			14	8 19	-	8 27	8	18567	18344										
	25	9 56	-	10 12	8	18572	18346			15	8 13	-	8 21	8	18580	18344			Aug.	1	8 5	-	8 15	8	18573	18338
	26	9 53	-	10 8	8	18576	18347			16	8 16	-	8 26	8	18555	18344				2	8 13	-	8 22	8	18574	18338
	27	10 5	-	10 17	8	18567	18347			17	8 9	-	8 18	8	18571	18343				5	8 19	-	8 27	8	18578	18338
	28	10 5	-	10 16	8	18576	18347			19	8 29	-	8 36	8	18546	18344				6	8 23	-	8 32	8	18592	18338
										20	8 14	-	8 22	8	18553	18344				7	9 21	-	9 29	8	18551	18338
										21	8 22	-	8 30	8	18575	18344				8	8 19	-	8 27	8	18577	18338
										22	8 3	-	8 11	8	18581	18344				9	8 16	-	8 23	8	18591	18337
Mar.	1	10 6	-	10 18	8	18564	18347			23	8 37	-	8 45	8	18600	18345				11	9 28	-	9 36	8	18555	18337
	3	9 44	-	9 53	8	18425	18346			24	7 54	-	8 3	8	18511	18344				12	9 5	-	9 13	4	18539	18337
	4	9 55	-	10 14	8	18480	18346			27	8 0	-	8 8	8	18575	18343				13	8 32	-	8 40	8	18555	18336
	5	10 16	-																							

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					Universal Time					Universal Time														
h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line	h m		h m		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line				
Y	Y	Y	Y				Y	Y																
Aug.	27	9 33	-	9 44	8	18563	18335	Oct.	4	9 18	-	9 28	8	18531	18337	Nov.	15	11 33	-	11 42	8	18555	18334	
	28	8 47	-	8 57	8	18581	18338		6	9 20	-	9 32	8	18539	18336		17	10 8	-	10 17	8	18563	18335	
	29	9 19	-	9 27	8	18552	18335		7	9 27	-	9 35	8	18552	18335		19	11 38	-	11 52	8	18536	18334	
	30	9 28	-	9 36	8	18552	18336		8	10 27	-	10 37	8	18559	18335		21	11 31	-	11 40	8	18566	18334	
									9	8 17	-	8 29	8	18579	18337		22	11 28	-	11 36	8	18562	18335	
									10	9 19	-	9 32	8	18511	18336		24	10 22	-	10 32	8	18588	18337	
Sept.	1	9 13	-	9 22	8	18552	18336		11	10 19	-	10 30	8	18525	18335		25	10 28	-	10 36	8	18568	18336	
	2	8 43	-	8 55	8	18541	18336		13	9 16	-	9 24	8	18547	18337		26	10 28	-	10 36	8	18593	18337	
	4	9 7	-	9 16	8	18499	18336		14	15 21	-	15 30	8	18522	18335		27	10 19	-	10 33	8	18586	18338	
	5	9 11	-	9 20	8	18524	18336		15	8 53	-	9 5	8	18557	18336		28	18 50	-	18 54	4	18601	18338	
	6	8 41	-	8 51	8	18547	18336		16	9 6	-	9 21	8	18554	18335									
	8	9 7	-	9 15	8	18581	18336		17	9 21	-	9 32	8	18540	18336		Dec.	1	11 31	-	11 40	8	18588	18338
	9	9 19	-	9 29	8	18561	18336		18	9 22	-	9 34	8	18541	18336		2	10 18	-	10 28	8	18582	18337	
	11	9 16	-	9 24	8	18568	18336		20	9 11	-	9 25	8	18543	18337		3	11 45	-	12 1	8	18585	18337	
	12	9 16	-	9 24	8	18548	18336		21	7 45	-	7 57	8	18562	18337		4	10 24	-	10 34	8	18599	18338	
	13	9 18	-	9 27	8	18494	18336		22	9 7	-	9 20	8	18562	18336		5	12 35	-	12 52	8	18584	18336	
	15	9 31	-	9 39	8	18508	18337		23	9 2	-	9 16	8	18565	18335		6	11 33	-	11 45	8	18565	18336	
	16	9 20	-	9 32	8	18550	18335		24	8 33	-	8 45	8	18571	18336		9	10 31	-	10 40	8	18566	18337	
	17	9 22	-	9 34	8	18536	18336		25	10 27	-	10 43	8	18557	18335		10	10 33	-	10 45	8	18551	18336	
	18	9 17	-	9 31	8	18524	18335		27	10 30	-	10 39	8	18560	18336		11	10 23	-	10 34	8	18573	18336	
	19	9 23	-	9 34	8	18532	18336		28	10 29	-	10 44	8	18566	18336		12	11 45	-	12 0	8	18563	18336	
	20	9 17	-	9 27	8	18556	18337		29	10 30	-	10 39	8	18569	18335		13	11 0	-	11 23	8	18559	18336	
	22	9 26	-	9 33	8	18523	18335		30	9 11	-	9 21	8	18588	18336		15	10 8	-	10 22	8	18581	18336	
	23	9 13	-	9 22	8	18537	18335		31	10 23	-	10 31	8	18578	18336		16	10 16	-	10 24	8	18572	18336	
	24	9 14	-	9 26	8	18542	18336		Nov.	1	10 24	-	10 32	8	18571	18335		17	11 35	-	11 48	8	18582	18337
	25	10 30	-	10 41	8	18507	18336		3	11 25	-	11 34	8	18566	18336		18	15 7	-	15 46	9	18589	18336	
	26	10 28	-	10 41	8	18517	18336		5	11 27	-	11 35	8	18558	18334		20	10 23	-	10 32	8	18590	18337	
	27	9 19	-	9 27	8	18547	18335		6	11 34	-	11 48	8	18574	18334		22	10 25	-	10 38	8	18598	18335	
	29	11 21	-	11 42	8	18543	18335		7	11 25	-	11 33	8	18594	18336		23	10 2	-	10 11	8	18602	18336	
	30	11 3	-	11 24	8	18537	18336		8	9 54	-	10 5	8	18568	18336		24	9 14	-	9 27	8	18597	18337	
Oct.	1	9 37	-	9 51	8	18551	18337		10	11 25	-	11 34	8	18531	18334		26	10 36	-	10 48	8	18599	18336	
	2	9 19	-	9 28	8	18498	18335		11	10 24	-	10 32	8	18568	18335		29	10 25	-	10 34	8	18588	18336	
	3	9 15	-	9 27	8	18494	18337		12	11 24	-	11 35	8	18544	18334		30	10 30	-	10 40	8	18582	18338	

Nov. 4 - 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					Universal Time					Universal Time							
h m			No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line	h m			No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line	h m			No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line
			Y	Y				Y	Y				Y	Y			
Sept. 27	8 54	- 9 14	8	43256	43026	Oct. 24	7 43	- 8 25	8	43259	43028	Nov. 26	9 56	- 10 24	8	43250	43031
29	8 49	- 9 10	8	43248	43030	25	9 3	- 9 29	8	43251	43027	27	9 13	- 10 7	8	43247	43035
30	11 41	- 11 55	4	43238	43031	27	9 9	- 9 31	8	43247	43027	28	9 23	- 10 5	8	43239	43031
Oct. 1	8 58	- 9 27	8	43242	43029	28	8 59	- 9 28	8	43244	43027	Dec. 1	10 4	- 10 39	8	43246	43034
2	8 55	- 9 14	8	43241	43026	29	9 11	- 9 16	2	43239	43026	2	9 44	- 10 12	8	43241	43029
3	8 37	- 9 4	8	43255	43025	30	8 35	- 9 3	8	43244	43029	3	10 9	- 10 30	8	43243	43031
4	8 40	- 9 8	8	43267	43027	31	9 3	- 9 38	8	43246	43031	4	9 34	- 10 2	8	43242	43033
6	8 41	- 9 9	8	43258	43027	Nov. 1	9 11	- 9 30	8	43242	43029	5	10 4	- 10 25	8	43241	43032
7	9 1	- 9 22	8	43252	43024	3	10 3	- 10 38	6	43236	43028	6	10 13	- 10 38	8	43248	43029
8	9 8	- 9 40	8	43254	43029	5	9 42	- 10 4	8	43239	43026	9	10 14	- 10 26	8	43247	43032
9	7 29	- 7 56	8	43247	43029	6	10 20	- 10 46	8	43235	43025	10	9 51	- 10 19	8	43248	43032
10	8 34	- 9 7	8	43260	43028	7	10 15	- 10 39	8	43231	43023	11	9 50	- 10 12	8	43244	43028
11	9 2	- 9 36	8	43251	43029	8	11 40	- 12 17	6	43246	43025	12	10 18	- 10 34	8	43233	43026
13	8 50	- 9 12	8	43257	43029	10	10 11	- 10 29	8	43258	43027	19	16 26	- 16 48	8	43257	43030
14	14 56	- 15 16	8	43288	43028	11	9 57	- 10 20	8	43247	43029	20	9 50	- 10 12	8	43237	43030
15	9 15	- 9 39	8	43258	43027	12	11 42	- 12 42	8	43259	43027	22	9 34	- 10 16	8	43239	43034
16	8 20	- 8 54	8	43263	43027	15	10 13	- 10 37	8	43243	43027	23	9 30	- 9 58	8	43239	43032
17	8 31	- 9 8	8	43253	43029	17	12 30	- 12 50	6	43243	43023	24	9 35	- 10 1	8	43248	43032
18	8 44	- 9 14	8	43247	43028	19	9 50	- 10 40	8	43250	43024	27	9 55	- 10 46	8	43239	43031
20	8 29	- 9 2	8	43262	43029	21	10 22	- 10 38	8	43250	43030	29	9 48	- 10 21	8	43238	43030
21	8 38	- 9 10	8	43260	43028	22	9 57	- 10 29	8	43247	43026	30	9 44	- 10 22	8	43234	43031
22	8 19	- 8 55	8	43256	43028	24	9 44	- 10 16	8	43243	43029	31	9 57	- 10 21	8	43236	43030
23	8 18	- 8 47	8	43248	43026	25	9 46	- 10 24	8	43247	43030						

Nov. 4 - Recording-Room temperature lowered from 21.0° C to 16.0° C.

MAGNETIC OBSERVATIONS, ABINGER 1947.

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	Y 43030	Y 43029	Y 43025	Y 43020	Y 43025	Y -	Y 43025	Y 43026	Y 43030	Y 43029	Y 43029	Y 43029
2	028	-	-	024	028	43027	025	028	027	029	-	031
3	028	028	026	026	029	023	027	-	-	-	025	030
4	028	030	-	-	-	027	026	-	031	-	-	030
5	-	029	027	026	027	028	026	028	026	-	026	031
6	031	031	025	-	027	029	-	028	028	-	037	027
7	029	028	025	-	025	026	026	031	-	027	026	-
8	027	030	023	026	025	-	028	030	028	027	025	-
9	-	-	-	029	028	024	027	026	029	-	-	030
10	-	032	024	-	027	026	030	-	-	030	028	028
11	028	033	025	027	-	023	026	028	026	024	027	027
12	-	030	023	028	029	027	-	-	027	-	029	029
13	030	032	-	-	027	028	-	028	028	024	-	-
14	-	031	030	022	026	027	026	026	-	030	-	-
15	029	034	-	028	027	-	031	024	028	025	029	028
16	031	-	-	026	027	025	028	027	027	030	-	028
17	-	034	024	028	028	027	028	-	025	026	027	030
18	030	032	-	028	-	024	026	026	028	025	-	031
19	-	035	-	030	026	028	026	022	023	-	029	028
20	027	035	-	-	026	028	-	024	029	-	-	036
21	-	037	025	027	027	029	027	031	-	022	026	-
22	029	036	024	024	029	-	-	029	027	027	026	029
23	028	-	-	029	027	027	028	027	027	027	-	030
24	028	037	027	028	-	026	027	-	026	027	030	028
25	027	035	025	028	-	027	027	028	024	027	025	-
26	-	034	025	-	-	024	029	027	029	-	031	030
27	029	023	026	-	028	027	-	025	027	025	032	-
28	028	027	024	026	028	028	026	026	-	028	-	-
29	028		029	026	026	-	-	027	028	028	-	028
30	029		-	027	-	025	025	029	018	029	-	028
31	030		025		026		-	-		017		025

Feb. 27 - Bearings re-adjusted using spring-washers to take up future wear automatically.
 Apr. 10 - Recording-Room temperature raised from 11.0 C to 16.0 C.
 May 30 - " " " " " 16.0 C " 21.0 C.
 Nov. 4 - " " " lowered " 21.0 C " 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	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.6	..	..	..	1886	17 54.5	0.1818	0.4377	67 27.1
1843	23 11.7	..	..	69 0.6	1887	17 49.1	0.1819	0.4380	67 26.6
1844	23 15.3	..	..	69 0.3	1888	17 40.4	0.1822	0.4383	67 25.6
1845	22 56.7	..	..	68 57.5	1889	17 34.9	0.1823	0.4380	67 24.3
1846	22 49.6	0.1731	..	68 58.1	1890	17 28.6	0.1825	0.4381	67 23.0
1847	22 51.3	0.1736	..	68 59.0	1891	17 23.4	0.1827	0.4380	67 21.5
1848	22 51.8	0.1731	..	68 54.7	1892	17 17.4	0.1829	0.4379	67 20.0
1849	22 37.8	0.1733	..	68 51.3	1893	17 11.4	0.1831	0.4373	67 17.9
1850	22 23.5	0.1738	..	68 46.9	1894	17 4.6	0.1831	0.4374	67 17.4
1851	22 18.3	0.1744	..	68 40.4	1895	16 57.4	0.1834	0.4378	67 16.1
1852	22 17.9	0.1745	..	68 42.7	1896	16 51.7	0.1835	0.4382	67 15.1
1853	22 10.1	0.1748	..	68 44.6	1897	16 45.8	0.1838	0.4377	67 13.5
1854	22 0.8	0.1749	..	68 47.7	1898	16 39.2	0.1840	0.4377	67 12.1
1855	21 48.4	0.1756	..	68 44.6	1899	16 34.2	0.1843	0.4380	67 10.5
1856	21 43.5	0.1759	..	68 43.5	1900	16 29.0	0.1846	0.4380	67 8.8
1857	21 35.4	0.1769	..	68 31.1	1901	16 26.0	0.1850	0.4381	67 6.4
1858	21 30.3	0.1762	..	68 28.3	1902	16 22.8	0.1852	0.4377	67 3.8
1859	21 23.5	0.1761	..	68 26.9	1903	16 19.1	0.1852	0.4368	67 1.2
1860	21 14.3	..	..	68 30.1	1904	16 15.0	0.1854	0.4359	66 57.6
1861	21 5.5	0.1773	..	68 24.6	1905	16 9.9	0.1854	0.4355	66 56.3
1861		0.1759	..	68 15.8	1906	16 3.6	0.1854	0.4353	66 55.6
1862	20 52.6	0.1763	0.4403	68 9.6	1907	15 59.8	0.1855	0.4357	66 56.2
1863	20 45.9	0.1764	0.4396	68 7.0	1908	15 53.5	0.1854	0.4356	66 56.3
1864	..	0.1767	0.4393	68 4.1	1909	15 47.6	0.1854	0.4348	66 54.1
1865	20 33.9	0.1767	0.4388	68 2.7	1910	15 41.2	0.1855	0.4345	66 52.8
1866	20 28.0	0.1773	0.4397	68 1.3	1911	15 33.0	0.1855	0.4342	66 52.1
1867	20 20.5	0.1777	0.4392	67 57.2	1912	15 24.3	0.1855	0.4340	66 51.8
1868	20 13.1	0.1779	0.4395	67 56.5	1913	15 15.2	0.1853	0.4333	66 50.5
1869	20 4.1	0.1782	0.4396	67 54.8					
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 1925-1947

Year	Declination West	Horizontal Intensity	Vertical Intensity	Inclination
	° ' "	C.G.S. Unit	C.G.S. Unit	° ' "
1925	13 22.7	0.18597	0.42946	66 35.1
1926	13 10.4	0.18581	0.42947	66 36.3
1927	12 58.4	0.18575	0.42932	66 36.2
1928	12 47.0	0.18564	0.42941	66 37.3
1929	12 35.8	0.18555	0.42918	66 37.2
1930	12 24.6	0.18542	0.42924	66 38.2
1931	12 13.7	0.18543	0.42923	66 38.1
1932	12 2.6	0.18536	0.42940	66 39.1
1933	11 51.7	0.18532	0.42942	66 39.4
1934	11 41.1	0.18533	0.42955	66 39.7
1935	11 30.3	0.18527	0.42981	66 40.9
1936	11 20.0	0.18524	0.43007	66 41.8
1937	11 10.4	0.18522	0.43031	66 42.7
1938	11 1.4	0.18522	0.43050	66 43.2
1939	10 51.9	0.18528	0.43074	66 43.5
1940	10 43.0	0.18533	0.43099	66 43.9
1941	10 33.8	0.18539	0.43128	66 44.3
1942	10 24.8	0.18554	0.43146	66 43.9
1943	10 16.2	0.18556	0.43172	66 44.5
1944	10 7.8	0.18566	0.43189	66 44.3
1945	9 59.5	0.18573	0.43207	66 44.3
1946	9 51.1	0.18569	0.43235	66 45.4
1947	9 43.1	0.18577	0.43246	66 45.2

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 p. x and xi.

January. Slight disturbance occurred on 2^d between 16^h and 18^h, in which a wave in declination (13'E) was the most conspicuous movement. Marked unsteadiness began at 3^d15^h and lasted until 4^d3^h, the chief feature being again a wave in declination (at 22^d4^h, 12'E). There was an exceedingly well developed movement of the "sudden commencement" type at 4^d11^h17^m.3. It was followed by a period of great unsteadiness, but the movements, though numerous, were quite small. From 5^d8^h to 14^h a series of small regular pulsations was recorded, averaging fourteen or fifteen in a ten-minute interval. They were most marked in H, the normal range being about 10γ. A brisk disturbance then began which continued until 6^d2^h and included two waves in H amounting to 90γ at 18^d2^h and 20^d4^h respectively, together with a prominent wave in D (14'E) at 16^d2^h. Short periods of unsteadiness were shown on 6th and then a quiet spell began which continued until near the end of 15^d. At 16^d3^h28^m.6 a large sudden movement in all traces appeared to anticipate a storm of considerable magnitude. The movements were 16'W in D, +75γ in H and +20γ in Z. The disturbance which followed, however, was desultory and of no great intensity, the whole range in D being less than 30' and in H less than 150γ; and a normal condition of moderate general unsteadiness was reached by 17^d2^h. This continued until 24^d6^h when activity increased. By 25^d0^h the most prolonged and active disturbance of the month was in progress. Oscillations were remarkably numerous, though seldom ranging above 50γ in H and 10' in D. The principal exceptions were, in H, at 25^d4^h (+80γ), and 15^d2^h (+120γ) in D, at 6^d2^h (15'E). The whole range in Z was 142γ, there being a steady increase of nearly this amount between 25^d11^h and 15^d2^h. There were relatively quiet intervals lasting from 26^d3^h to 12^h and from 26^d21^h to 27^d16^h before the disturbance finally ceased at 28^d3^h and nearly quiet conditions supervened.

The range in declination during the month was from 9°30'.2 on 26th to 10°1'.4 on 16th; in horizontal intensity from .18461 to .18658, both on 25th; in vertical intensity, from .43197 on 16th to .43342 on 25th.

February. During the first six days the general condition was quiet, though a few irregularities showed occasionally on the traces. From 7^d6^h the irregularities increased in extent, becoming a moderately active disturbance by 8^d17^h. This comprised several movements of at least 50γ in H and 10' in D but had ceased at 9^d6^h. At 9^d20^h21^h there was a sharp easterly movement in D (21') which was partially regained during the next hour and was accompanied by a minor series of oscillations in H. Unsteady conditions then prevailed, gradually lessening, until 15th, which was quiet. At 16^d2^h59^m.0 a sudden movement occurred in all traces, and five hours later a disturbance of moderate dimensions began to develop. The principal characteristic was the large number of semi-regular oscillations. Z increased 130γ between 10^d2^h and 17^h and there were notable changes in D at 16^d16^h to 17^h (23'E), at 17^d0^h20^m to 0^h50^m (20'E), and at 17^d22^h to 3^d2^h (20'W). The disturbance ceased at 17^d7^h, but unsteadiness continued to affect the traces at intervals, unsteadiness amounting to a state of brisk activity between 19^d14^h and 20^d4^h. At the height of this activity there were movements in H just exceeding 50γ, - notably one at 23^d2^h (+70γ) - and a wave in D at 21^h (12'). The interval from 20^d12^h to 24^d0^h was practically quiet. Unsteadiness then set in again and prevailed for the remainder of the month, becoming specially marked between 25^d21^h and 26^d5^h.

The range in declination during the month was from 9°25'.6 on 17th to 10°0'.8 on 16th; in horizontal intensity, from .18451 to .18630, both on 16th; in vertical intensity, from .43201 on 17th to .43341 on 16th.

March. A prominent, though small, wave appeared on all traces at 2^d4^h1^m which may have been the initial movement of the prolonged disturbance, which began to develop rapidly following an abrupt movement in all elements at 2^d8^h17^m.6. Oscillations at first were numerous rather than large, but there was a general decrease of H between 2^d11^h and 13^d2^h (160γ), followed by a slow increase of Z (250γ) which lasted until 2^d20^h and then relapsed rather quickly. A general easterly trend in D occurred between 2^d19^h and 3^d2^h during which the value ranged through 50'. A temporary lull was shown from 3^d4^h to 16^h, the elements returning to about normal values. The storm then rose to its climax, which occurred from about 3^d18^h to 4^d2^h. The extreme ranges during this interval were: 60' in D, 410γ in H and 345γ in Z. Large movements continued until 4^d9^h, after which the disturbance rapidly subsided, the final movements being a wave in H (+80γ) and in D (16'E) at

4^d19^h. Beginning with a sudden small change at 7^d5^h36^m there was prolonged minor, but rapid oscillation. This merged into the second large disturbance of the month which first showed as a rapid decrease of H (120γ) from 8^d8^h to 9^d1^h. By 8^d12^h the disturbance was in full activity. Oscillations were numerous, - occasionally as many as ten per hour. The largest waves in H occurred at 8^d14^h (+180γ), 9^d0^h (+150γ), 9^d0^h (+140γ) and 9^d1^h (+120γ). Between 8^d23^h and 24^h there was a double wave in D (24'E and W) followed during the next hour by two other waves of 20'. Z increased 200γ between 8^d12^h and 17^h and then gradually declined to normal values which were reached by 9^d2^h. The disturbance was virtually over by 9^d10^h. There was much unsteadiness during the remainder of 9th and this condition persisted through 12th, 13th and 14th, prominent bays showing at 14^d16^h (+80γ in H). At 15^d8^h41^m4 there was a large typical movement of the sudden commencement class in all traces. That in H ranged through 90γ, in D through 13'. The disturbance which followed was not specially noteworthy, and was quite short-lived, being over in less than ten hours. The principal feature was an increase of Z (140γ) between 12^h and 16^h, soon afterwards declining to normal value. There was at the same time a temporary increase of H (100γ). Further brisk disturbance was recorded between 16^d16^h and 17^d7^h, the principal movement in which was a wave in D (15'W) at 17^d0^h. Considerable irregularity persisted during the next six days without presenting any notable features until 23^d10^h, when activity became very marked. Z increased 120γ between 11^h and 16^h but quickly returned nearly to normal value. A wave in H (+50γ) appeared at 15^h, accompanied by a steady easterly movement in D (16'); a rather prominent wave in D (15'W) occurred at 24^d3^h and a broad wave in H (+110γ) between 24^d4^h and 7^h, with which was associated an oscillatory easterly trend in D (15'). After 24^d8^h the normal condition of general unsteadiness returned and continued until 27^d18^h, becoming greatly accentuated during the second half of the period. A sudden movement of the traces at 27^d4^h29^m may have been connected with a protracted disturbance which began to develop at 27^d18^h. This disturbance though not comprising large ranges, was very active and included many oscillatory movements of about 30 or 40γ. A notable feature was the general easterly movement in D (25') between 27^d23^h and 28^d2^h. There was also a considerably enlarged diurnal inequality in Z on 28th, the whole range being 160γ. After a short lull, extending from 29^d2^h to 12^h, activity was resumed with the same general characteristics, and prevailed until 31^d18^h.

The range in declination during the month was from 9°6'.2 on 3rd to 10°12'.3 on 8th; in horizontal intensity, from .18233 on 3rd to .18714 on 2nd; in vertical intensity, from .43099 to .43443 both on 3rd.

April. Conditions were markedly unsteady throughout the month, the only days on which smooth or nearly smooth traces appeared being 21st to 24th. A movement of "sudden commencement" type took place at 3^d15^h1^m0, but was not followed by a significant disturbance, although many small irregularities were shown during the next thirty-six hours. A decrease of H (85γ) occurred between 6^d7^h and 9^h and a very steep wave (-40γ) at 6^d11^h50^m. Another "sudden commencement" movement (in which the range in H was 105γ) was recorded at 8^d21^h49^m2, affecting all traces, but again, the activity which followed was confined to a large number of minor oscillations, few of these exceeding 5γ, and the prevalent state of general unsteadiness was scarcely accentuated. At about 16^d12^h there were signs of increasing disturbance but they led to no development until 17^d12^h24^m8 when a very sudden movement in all traces was the beginning of a storm, which though comparatively short was at its climax relatively intense. Almost the full ranges (which were 67' in D and 373γ and 345γ in H and Z respectively) were comprised within the period 19^h to 22^h; and in the case of Z the extreme range was accomplished between 21^h55^m and 22^h11^m that is in sixteen minutes of time. The storm was virtually over by 18^d2^h, though large numbers of small oscillations continued for a further eighteen hours, and at 18^d21^h there was a prominent wave in D (25'E). A further period of minor activity began at 19^d5^h and lasted until 21^d0^h. This also was notable for the number of small oscillations, as many as 15 being recorded in one hour. A quiet period which began at 21^d9^h lasted until 25^d15^h when a wave in H (+60γ) at 16^h presaged the return to marked unsteadiness, - a condition which prevailed for the remainder of the month, though most pronounced between 26^d14^h and 27^d0^h.

The range in declination during the month was from 8°58'.8 to 10°6'.1; in horizontal intensity, from .18332 to .18705; in vertical intensity, from .43029 to .43374. All these ranges occurred on 17th.

May. Conditions were very unsteady on 1st, especially during the earlier hours, and there were waves in H at $12\frac{1}{2}^h$ (+25 γ) and $18\frac{1}{2}^h$ (-40 γ). Unsteadiness prevailed in a smaller degree until the end of 6th. A period of quiet conditions followed which continued until $11^d 12^h$. Irregular movements then began and became increasingly frequent during 12th. The largest was a wave in H (+45 γ) at $12^d 2\frac{1}{2}^h$. Brisk activity set in at $13^d 15^h$ in the form of a series of nearly regular oscillations having an average period of about one hour and an amplitude in H, of 30 to 40 γ . The regularity disappeared after $14^d 5^h$ the character then changing to large numbers of quite small movements. These gradually increased in size during 15th until they reached the dimensions of those on 13th, being however, less regular and more frequent. After $16^d 18^h$ activity declined markedly, though the diurnal inequality remained above average in range. An instance of this was the increase of 90 γ in H between $18^d 16^h$ and 18^h . From $19^d 18^h$ to $22^d 22\frac{1}{2}^h$ only slight irregularities disturbed the traces, but at $22^d 22^h 43^m.4$ there was an abrupt movement in each which in the case of H represented an increase of 70 γ in five minutes. Considerable activity followed during the next thirty hours, but the movements were seldom greater than 20 γ excepting the very rapid easterly drift in D (26') between $23^d 3\frac{1}{2}^h$ and 5^h , partially restored by an even more rapid westerly movement (14') between $23^d 6^h$ and $6\frac{1}{2}^h$. At $24^d 6^h 45^m.0$ an exceptionally sudden movement was recorded in all elements, amounting almost to a momentary dislocation of the traces. The change in H was +110 γ ; in D 10'W, in Z +28 γ . Normal values were regained within two minutes and the subsequent disturbance was particularly brief. It consisted mainly of one large double wave in each element (having many minor oscillations superposed) beginning at $24^d 7^h 30^m$ and ending at $24^d 10^h 30^m$. The full ranges were: 240 γ in H, 60 γ in Z and 38' in D. From $24^d 11^h$ until $28^d 3^h$ almost continuous slight disturbance affected the traces. Occasionally as many as ten small waves (about 10 γ) were recorded in one hour. Disturbance was particularly notable between $26^d 15^h$ and $27^d 4^h$ and between $28^d 12^h$ and $29^d 0^h$. At $29^d 14\frac{1}{2}^h$ a sharp increase in H began which had amounted to 110 γ by $15\frac{1}{2}^h$. It was preceded and followed by a steady increase in Z (90 γ), the maximum being reached at $17\frac{1}{2}^h$. The decline to normal values was gradual. A nearly quiet period began to $30^d 3^h$ and lasted until $31^d 8^h$. Activity then recommenced and by the end of the day was brisk, several movements in H approaching 50 γ .

The range in declination during the month was from $9^\circ 18'.0$ on 24th to $9^\circ 58'.2$ on 19th; in horizontal intensity, from .18374 to .18702, both on 24th; in vertical intensity, from .43184 on 16th to .43320 on 29th.

June. A brief spell of activity, in progress at the opening of the month, ended at $1^d 10^h$. The principal movement was a double wave in H ($\pm 50\gamma$) at $1^d 0^h$ to $1\frac{1}{2}^h$ accompanied by a related change in D (9'W and E) and a rapid temporary decrease in Z (45 γ). A period of considerable unsteadiness followed which, with a very sudden movement at $5^d 7^h 25^m.6$, merged into one of brisk activity lasting until $6^d 3^h$. The initial movement in H was an increase of 65 γ followed, after three rapid oscillations, by a wave (-90 γ) at $8\frac{1}{2}^h$. Subsequent movements were much smaller and of an oscillatory character, but a slow general increase in H occurred (150 γ) between $14\frac{1}{2}^h$ and $18\frac{1}{2}^h$ with a gradual return to normal value which was attained by $6^d 0\frac{1}{2}^h$. A movement of D (18'W) accompanied the wave in H, and the disturbed period ended with a prominent wave in D (17'E) at $6^d 0\frac{1}{2}^h$. Very unsteady conditions persisted throughout 7th 8th and 9th, moderating on 10th, but still far from quiet. At $13^d 17^h 49^m.0$ a typical "sudden commencement" was registered in all elements, - +85 γ in H, +22 γ in Z, 5'W in D. The disturbance which followed was only of minor dimensions, the movements being numerous rather than large. The principal periods of activity were from $12^d 23^h$ to $13^d 5^h$ and from $14^d 17\frac{1}{2}^h$ to 22^h . Waves just exceeding 20' occurred in D during the first of these, the total range being 32', that of both H and Z being approximately 100 γ . In the second period, the most prominent feature was a steep wave in H (+120 γ) at $14^d 20\frac{1}{2}^h$. The disturbance had subsided by $15^d 3^h$, though much unsteadiness was still shown by the traces. Further disturbance began with an abrupt change in all elements at $17^d 3^h 1^m$ and continued as a sequence of small rapid irregular oscillations until 14^h when the oscillations in H were superposed on larger waves. The most prominent of these was between $17^d 17^h$ and $18\frac{1}{2}^h$ (+110 γ). Between $17^d 18^h$ and 19^h there was an easterly swing of 16' in D. From $18^d 4^h$, by which time the disturbance was over, a return to the prevailing condition of marked unsteadiness was apparent. This continued unabated until the end of 28th, particularly conspicuous periods being between $22^d 16^h$ and $23^d 18^h$ and between $24^d 16^h$ and $25^d 20^h$, when the dimensions of a minor disturbance were nearly reached, with several movements exceeding 50 γ in H. After a short quiet spell on 29th, unsteady conditions returned on 30th.

The range in declination during the month was from $9^\circ 22'.6$ on 14th to $9^\circ 59'.7$ on 17th; in horizontal intensity, from .18481 to .18707 both on 14th; in vertical intensity, from .43142 on 14th to .43304 on 17th.

July. There was a continuance of unsteady conditions during the first three days, and a broad wave appeared on the H trace between $2^{\text{d}}14^{\text{h}}$ and 18^{h} (+90 γ). An almost quiet period lasted from $3^{\text{d}}22^{\text{h}}$ to $6^{\text{d}}10^{\text{h}}$. Conditions then became unsteady again, particularly during the second half of 8th, the early part of the 10th and the middle part of 11th when a few movements in H approached 50 γ . There was also a rapid increase of H (60 γ) between $13^{\text{d}}15^{\text{h}}$ and 16^{h} and an abrupt movement, most noticeable in D, at $16^{\text{d}}1^{\text{h}}10^{\text{m}}$. A second quiet spell began at $16^{\text{d}}3^{\text{h}}$ and ended at $17^{\text{d}}9^{\text{h}}$ when signs of approaching disturbance appeared. The disturbance itself commenced suddenly at $17^{\text{d}}17^{\text{h}}46^{\text{m}}.4$ with a very large movement in H (+350 γ in twenty minutes) accompanied by much smaller changes (50 γ) in D and Z. H returned to normal values in three main oscillations, the first and chief (-300 γ) between $17^{\text{d}}18^{\text{h}}10^{\text{m}}$ and $18^{\text{h}}40^{\text{m}}$, the others between $19^{\text{h}}20^{\text{m}}$ and $21^{\text{h}}5^{\text{m}}$ and between $21^{\text{h}}5^{\text{m}}$ and $22^{\text{h}}55^{\text{m}}$ respectively. The large movements were succeeded by a series of many oscillations of the order of 20 γ in H and D, with a few rising to 50 γ and over, especially during the period $18^{\text{d}}8^{\text{h}}$ to 12^{h} . The character then changed and large irregular movements began again. The principal example was in H which experienced a wave of -150 γ between $18^{\text{d}}14^{\text{h}}$ and 16^{h} . The change in Z between $18^{\text{d}}13^{\text{h}}$ and 18^{h} was +110 γ , but this increase was steadily lost and had disappeared by $19^{\text{d}}1^{\text{h}}$. Oscillations of a more or less regular type began about $19^{\text{d}}10^{\text{h}}$, the range in H being between 30 γ and 40 γ . There was a sharp movement in D (15'E) between $20^{\text{d}}4^{\text{h}}$ and 5^{h} , - by which time the oscillations had become insignificant, - and a prominent wave in H (+80 γ) at $20^{\text{d}}15^{\text{h}}$. Great unsteadiness continued to be the prevailing characteristic of the traces until the end of 27th, although less marked on 21st and the first half of 22nd. Mention may be made of a rapid decrease of H (65 γ) between $23^{\text{d}}6^{\text{h}}$ and $6^{\text{h}}40^{\text{m}}$ and of a steady increase (90 γ) between $24^{\text{d}}13^{\text{h}}40^{\text{m}}$ and $16^{\text{h}}15^{\text{m}}$. Three specially prominent oscillations in H occurred between $25^{\text{d}}13^{\text{h}}$ and 17^{h} , with an amplitude of about 50 γ . From $27^{\text{d}}22^{\text{h}}$ much quieter conditions set in but many small erratic movements still occurred, the only really quiet period being the interval from $29^{\text{d}}20^{\text{h}}$ to $30^{\text{d}}16^{\text{h}}$.

The range in declination during the month was from $9^{\circ}20'.2$ on 18th to $10^{\circ}0'.4$ on 17th; in horizontal intensity, from .18470 on 19th to .18992 on 17th; in vertical intensity, from .43193 on 9th to .43341 on 18th.

August. Conditions were rather disturbed at the beginning of the month, irregular oscillation, particularly in H, being the prevailing characteristic. A few of the movements were of the order of 30 γ . There was a notable abrupt change of declination (crochet 7'W) at $1^{\text{d}}15^{\text{h}}17^{\text{m}}$ which however, was quite short-lived, the value returning to normal in twelve minutes. Unsteadiness gradually diminished after 3rd, but there was a temporary revival between $6^{\text{d}}10^{\text{h}}$ and $7^{\text{d}}5^{\text{h}}$. From $8^{\text{d}}18^{\text{h}}$ to $9^{\text{d}}21^{\text{h}}$ conditions were practically quiet. Small irregular movements then re-appeared and increased in size and frequency until by $12^{\text{d}}0^{\text{h}}$ a state of moderate disturbance existed. A particularly sharp movement, resembling a "sudden commencement" was recorded at $12^{\text{d}}9^{\text{h}}5^{\text{m}}.9$, in which the range of the double wave in H was 70 γ . During the second half of 13th disturbance further increased and between $16^{\text{h}}55^{\text{m}}$ and $17^{\text{h}}30^{\text{m}}$ H decreased 130 γ , recovering most of this decrease during the next hour. From $14^{\text{d}}4^{\text{h}}$ to $15^{\text{d}}9^{\text{h}}$ only small irregularities appeared on the traces. Then a brisk storm began with a sudden movement in all elements at $15^{\text{d}}9^{\text{h}}50^{\text{m}}.6$ (H, +50 γ ; D, 49'E). Subsequent oscillations were very numerous, averaging six or seven per hour, and were most extensive in H, a few reaching 50 γ . A notable wave in H occurred between 15^{h} and 16^{h} (+140 γ). The climax of the storm was between $15^{\text{d}}22^{\text{h}}$ and $16^{\text{d}}1^{\text{h}}$. There was an oscillatory decrease of H (270 γ) from $15^{\text{d}}20^{\text{h}}$ to $16^{\text{d}}0^{\text{h}}$ followed immediately by a rapid increase (180 γ). Similar changes in the other two elements were registered (20'E in D; -70 γ in Z), and then at $16^{\text{d}}0^{\text{h}}$ an exceptionally prominent wave in both D and Z practically brought the storm to an end. The amplitudes of these waves were, respectively, +40' and -180 γ . After a short period of relative quiet, disturbance recommenced at $16^{\text{d}}10^{\text{h}}$ and continued without intermission until the end of 21st. The movements were numerous, and many approached 100 γ in horizontal intensity with corresponding changes in D. The principal movements only will be mentioned. In H: an increase of 80 γ between $16^{\text{d}}10^{\text{h}}$ and 11^{h} ; a wave (-90 γ) at $17^{\text{d}}16^{\text{h}}$; a wave (+90 γ) at $17^{\text{d}}18^{\text{h}}$; a decrease of 130 γ between $18^{\text{d}}6^{\text{h}}$ and 9^{h} ; a wave (+80 γ) at $18^{\text{d}}18^{\text{h}}$; an irregular wave (-120 γ) at $19^{\text{d}}16^{\text{h}}$; a wave (+90 γ) at $20^{\text{d}}16^{\text{h}}$. In D: a movement 20'E, between $17^{\text{d}}4^{\text{h}}$ and 6^{h} ; a wave, 15'E, at $17^{\text{d}}21^{\text{h}}$; a wave, 12'W, at $18^{\text{d}}1^{\text{h}}$; a wave, 15'W, at $20^{\text{d}}1^{\text{h}}$; a wave, 14'E, at $21^{\text{d}}20^{\text{h}}$. In Z: a slow surge (+110 γ) between $17^{\text{d}}12^{\text{h}}$ and 22^{h} ; a wave (-60 γ) at $18^{\text{d}}2^{\text{h}}$; much enlarged diurnal inequality on 18th, (100 γ), and on 19th; a wave (-40 γ) at $20^{\text{d}}1^{\text{h}}$; increase of 65 γ between $20^{\text{d}}12^{\text{h}}$ and 16^{h} . A second relatively quiet spell lasting from $22^{\text{d}}0^{\text{h}}$ to 9^{h} was terminated at $22^{\text{d}}9^{\text{h}}10^{\text{m}}.8$ by a remarkable sudden change in all elements. In H an increase of 95 γ occurred in less than one minute, followed immediately by a decrease of 170 γ in the next minute. There was a similar change in D, 18'W and 33'E and in Z +25 γ and -55 γ and a very

active storm developed at once. The climax was soon past, however, and with the exception of a prominent peak in H (+160γ) at 23^d0^h movements were numerous rather than large after 22^d13^h. The total ranges during the most active period were 415γ, 140γ and 54' in H, Z and D respectively. There were prominent changes on 23rd which it is desirable to mention besides that in H, already noted, namely, a movement in D (23'E) between 1^h and 2^h; a decrease of Z (70γ) between 0^h and 1^h; and an increase of H (110γ) accompanied by an increase of Z (70γ) between 13^h and 14^h. Great and continuous unsteadiness persisted until 26^d0^h, after which the movements were intermittent and smaller, declining to a practically quiet condition between 27^d9^h and 28^d12^h. Unsteadiness then revived, but was slight between 30^d10^h and 31^d10^h.

The range in declination during the month was from 9°20.1 on 16th to 10°0.3 on 15th; in horizontal intensity, from .18238 on 22nd to .18711 on 15th; in vertical intensity, from .43050 to .43347 both on 16th.

September. Conditions were unsteady, generally, during the whole of the month. The first storm was preceded by an abrupt movement in all traces at 2^d23^h26^m, that of H showing +60γ. Full development was delayed until 3^d6^h when it was almost sudden and was characterised by rapid oscillatory changes frequently exceeding 50γ in H. There was a general decrease of H (200γ) between 3^d7^h and 9^h, including one double wave (±70γ) in the short space of three minutes at 8^h30^m, but recovery set in at once and in spite of several large oscillations, three of which exceeded 100γ, was complete by 17^h. After the initial stages the movements in D were comparatively small, though numerous. The most remarkable change occurred between 3^d9^h and 9^h (30'W). Vertical intensity increased steadily between 3^d10^h and 19^h (120γ), after which there was an irregular return to normal value, complete by 24^h. The final movement was a decrease of H (60γ) between 4^d5^h and 6^h. Another abrupt movement in all traces occurred at 4^d13^h46^m (+65γ in H). It was followed at once by about six hours of brisk disturbance, but no movement exceeded 90γ. A third abrupt movement was registered at 5^d18^h2^m and was followed by about eight hours of moderate activity. The movements, however, were considerably smaller than those on the previous day. Beginning at 6^d12^h and lasting for approximately 48 hours there was a period of very considerable disturbance. Movements at first were not large, although the diurnal range of Z reached 90γ on the 6th, but from 7^d14^h to 22^h numerous irregular oscillations appeared, at least one of which exceeded 100γ in H. Prominent changes in D occurred at 7^d1^h (12'W) and at 7^d18^h (18'E) and 20^h (15'W); while the total range in Z was 85γ. From 9^d1^h to 11^d11^h conditions were nearly quiet, but from then onwards they were, in general, highly disturbed until 29^d0^h, - an unusually prolonged period. Some of the principal features of the traces will be mentioned:- 11^d16^h to 17^h, a wave in H (+85γ); 13^d6^h to 7^h, a decrease of H (90γ); 13^d21^h to 23^h, a wave in D (22'E); 14^d11^h to 24^h slow surge in Z (+120γ) 14^d17-18^h, a wave in D (17'E); 14^d21^h to 23^h a wave in D (21'W); 15^d14^h54^m9, a movement of "sudden commencement" type in all traces, +105γ in H, 13'W in D; 15^d20-21^h, a double wave in D (16'W and E); 17^d18-18^h, a sharp peak in H (+95γ); 17^d22^h to 18^h, a wave in D (20'W); 18^d17^h to 18^h, a wave in D (18'E) followed by a wave in H (+90γ); 18^d23^h a wave in Z (-50γ) and in D (15'W); 22^d16^h a wave in D (17'E); 23^d5^h to 7^h, a wave in H (+80γ); 23^d12^h9^m1, a quasi-sudden commencement move in all traces, (-90γ in H). The last mentioned movement was probably connected with a great storm which developed fairly quickly from 24^d13^h50^m onwards. The storm was remarkable for the range in Z (340γ), which exceeded the range in H by about 30γ. The period of greatest activity extended from 24^d15^h to 21^h and included the maximum range in D (67'), but there was a second very active interval from 25^d0^h to 7^h, after which the storm rapidly declined, though continuing in a minor degree until 26^d4^h. During the remainder of the month there was a state of diminishing general unsteadiness, terminated at 30^d18^h18^m2 by a sudden "kick" in all traces presaging another storm. The movement in H was an increase of 60γ. The development of this storm, however, did not take place at once and belongs to October.

The range in declination during the month was from 9°12.1 on 25th to 10°19.0 on 24th; in horizontal intensity, from .18406 on 25th to .18714 on 24th; in vertical intensity, from .43144 to .43486, both on 24th.

October. From 1^d4^h the traces were agitated by many small movements, a state which lasted until 1^d12^h. The irregularities then became fewer, but after 1^d19^h, considerably larger. There was a decrease of H (110γ) between 19^h and 19^h and a movement of D (17'E) between 21^h and 22^h. The

period from 2^{d15h} to 3^{d6h} comprised a disturbance sufficiently great to be classed as a small storm. Several movements exceeded 100γ in H and $10'$ in D, while Z, which had been steadily increasing, diminished irregularly by 180γ between $2^{d15\frac{1}{2}h}$ and $3^{d0\frac{1}{2}h}$. The largest movements in H occurred between $2^{d18\frac{1}{2}h}$ and 19^h (-120γ) and between $3^{d0\frac{1}{2}h}$ and 1^h ($+120\gamma$), the latter being accompanied by a wave in D ($22'E$) and a wave in Z (-60γ). After 3^{d6h} conditions became rapidly less disturbed and the period from 4^{d0h} to 7^{d16h} was relatively quiet. Activity, which recommenced at 7^{d16h} , steadily increased during the next two days. It continued unabated until the end of 12th and then in varying degree, but with no quiet intervals, until the end of 15th. Some of the more prominent movements will be given individual mention. The first was a wave in D ($15'E$) $7^{d20\frac{1}{2}h}$ to $22\frac{1}{2}h$; there was an increase of H (100γ) between 9^{d15h} and 16^h ; a range of 140γ in Z between 9^{d18h} and $10^{d0\frac{1}{2}h}$; a wave in D ($15'E$) at $9^{d21\frac{1}{2}h}$; a wave in D ($20'E$) between $10^{d19\frac{1}{2}h}$ and 21^h followed by a decrease in Z (60γ) ending at $10^{d22\frac{1}{2}h}$; a movement in D ($21'E$) between $11^{d14\frac{1}{2}h}$ and 16^h ; a wave in H ($+100\gamma$) between $12^{d1\frac{1}{2}h}$ and 3^h ; there were several waves approaching $15'$ in D between $11^{d19\frac{1}{2}h}$ and 12^{d3h} ; two steep waves in D ($21'W$ and $18'E$) between $12^{d18\frac{1}{2}h}$ and 20^h ; a steep wave in D ($18'E$) at $13^{d21\frac{1}{2}h}$; a wide bay in D ($16'W$) between 14^{d5h} and $7\frac{1}{2}h$; and, finally, a double-crested wave in H ($+180\gamma$) between $15^{d21\frac{1}{2}h}$ and $23\frac{1}{2}h$. From 16^{d0h} the irregularities became, in general, much smaller, but on 18th and 19th there was a partial return to the earlier condition and prominent waves occurred in all traces at $19^{d19\frac{1}{2}h}$ ($+120\gamma$ in H, $20'E$ in D). A further short spell of activity was shown at 20^{d20h} to 21^{d1h} and then a definite trend towards quiet conditions set in. There were still isolated waves on the traces, however, the most prominent of which was one in D ($12'W$) between $24^{d0\frac{1}{2}h}$ and $1\frac{1}{2}h$. After 25^{d2h} movements were negligibly small and the period until 31^{d8h} was practically quiet.

The range in declination during the month was from $9^\circ 18'.4$ on 2nd to $9^\circ 56'.7$ on 9th; in horizontal intensity, from .18459 on 10th to .18686 on 15th; in vertical intensity, from .43174 on 3rd to .43356 on 9th.

November. General unsteadiness prevailed at first, which diminished gradually until 5^d , conditions then becoming quiet. Unsteadiness was resumed from about 7^{d20h} and from 8^{d10h} took the form of a series of almost regular oscillations, specially notable in H and concluding at $9^{d1\frac{1}{2}h}$. The average amplitude of these was 20γ in H and $3'$ in D. They were inconspicuous in Z. A spell of brisk activity began at $9^{d12.0m}$ with a sharp decrease of H (100γ). This was followed by a series of irregular oscillations, a few of which reached 50γ in amplitude, terminating at about 10^{d5h} . The accompanying changes in D were similar, but between 9^{d20h} and 10^{d2h} were considerably larger. In particular, there was an easterly movement of $26'$ between $19\frac{1}{2}h$ and 21^h ; a steep wave ($23'W$) at 23^h and a broader wave ($18'W$) between 10^{d1h} and 2^h . The most prominent feature of the Z trace was a trough (-60γ) at $9^{d23\frac{1}{2}h}$. A temporary lull extending from 10^{d5h} to 10^h was followed by renewed activity, the movements being rather less frequent than on the previous day. A series of four sharp peaks in H, with associated changes in Z and D, was recorded between 10^{d20h} and 11^{d2h} , the largest of which ($+90\gamma$) occurred at $10^{d20\frac{1}{2}h}$. At $11^{d6.52m}$ the character of the disturbance changed abruptly to one in which many small sharp movements predominated, - sometimes at the rate of fifteen to twenty per hour. A few larger isolated waves appeared, the principal of which, in H, occurred at $11^{d14\frac{1}{2}h}$ (-90γ), and in D, at $11^{d14\frac{1}{2}h}$ ($22'E$) and $17\frac{1}{2}h$ ($18'E$). In Z there was a slow surge ($+80\gamma$) between 11^{d13h} and 21^h . After 11^{d21h} the former character returned, but activity steadily declined, and by 12^{d6h} the normal degree of prevailing irregularity was reached. A rather prominent wave in the H trace ($+50\gamma$) occurred at $15^{d2\frac{1}{2}h}$, and another ($+55\gamma$), - with a steep rise at $16^{d22.41m}$ and associated movements in the other traces, - reached its crest at 16^{d23h} . Conditions were nearly quiet from 17^{d0h} to 18^{d15h} . Slight disturbance of an oscillatory character then began which continued until about 20^{d6h} . Short spells also occurred between 20^{d17h} and 21^{d0h} and between 21^{d15h} and 23^h , followed by minor unsteadiness. From 24^{d0h} conditions were quiet until $24^{d17.55.9}$ when an abrupt movement in all traces preceded about eight hours of unimportant activity in which the chief movement was a wave in D ($21'E$) at 24^{d20h} . By 25^{d3h} the normal general unsteadiness was re-established and prevailed until 30^{d18h} when signs of increasing activity were shown.

The range in declination during the month was from $9^\circ 17'.3$ on 9th to $9^\circ 59'.1$ on 11th; in horizontal intensity, from .18449 on 9th to .18656 on 10th; in vertical intensity, from .43190 on 9th to .43335 on 11th.

December. There was an abrupt movement in all traces at 1^d8^h52^m7 followed merely by a small wave in H (-50γ). From 1^d12^h to 2^d10^h conditions were practically quiet, but slight general unsteadiness then appeared which increased considerably during 4^d. At 5^d3^h a wave in D (10'W) was followed by a rather smaller one in H (+35γ) and unsteadiness continued to increase, the period between 5^d23^h and 7^d2^h being moderately active with many minor oscillations superposed on larger movements. The whole range, however, amounted only to 100γ in H and 29' in D. There was a prominent wave in D (10'E) at 7^d16^h and a short spell of moderate activity between 9^d13^h and 10^d0^h in which the largest movement was an increase of 70γ in H at 9^d19^h. Unsteadiness became very marked from 11^d16^h to 13^d4^h and comprised one bay in H just exceeding 60γ (at 12^d16^h). From 16^d6^h to 18^d0^h quiet conditions supervened. Slight unsteadiness then returned, but a further quiet spell appeared which lasted from 21^d14^h to 22^d8^h. Between 22^d12^h and 31^d0^h there was general unsteadiness in varying degree, including a few isolated bays, the chief of which was one in H (+60γ) at 24^d21^h. December 31 was practically quiet.

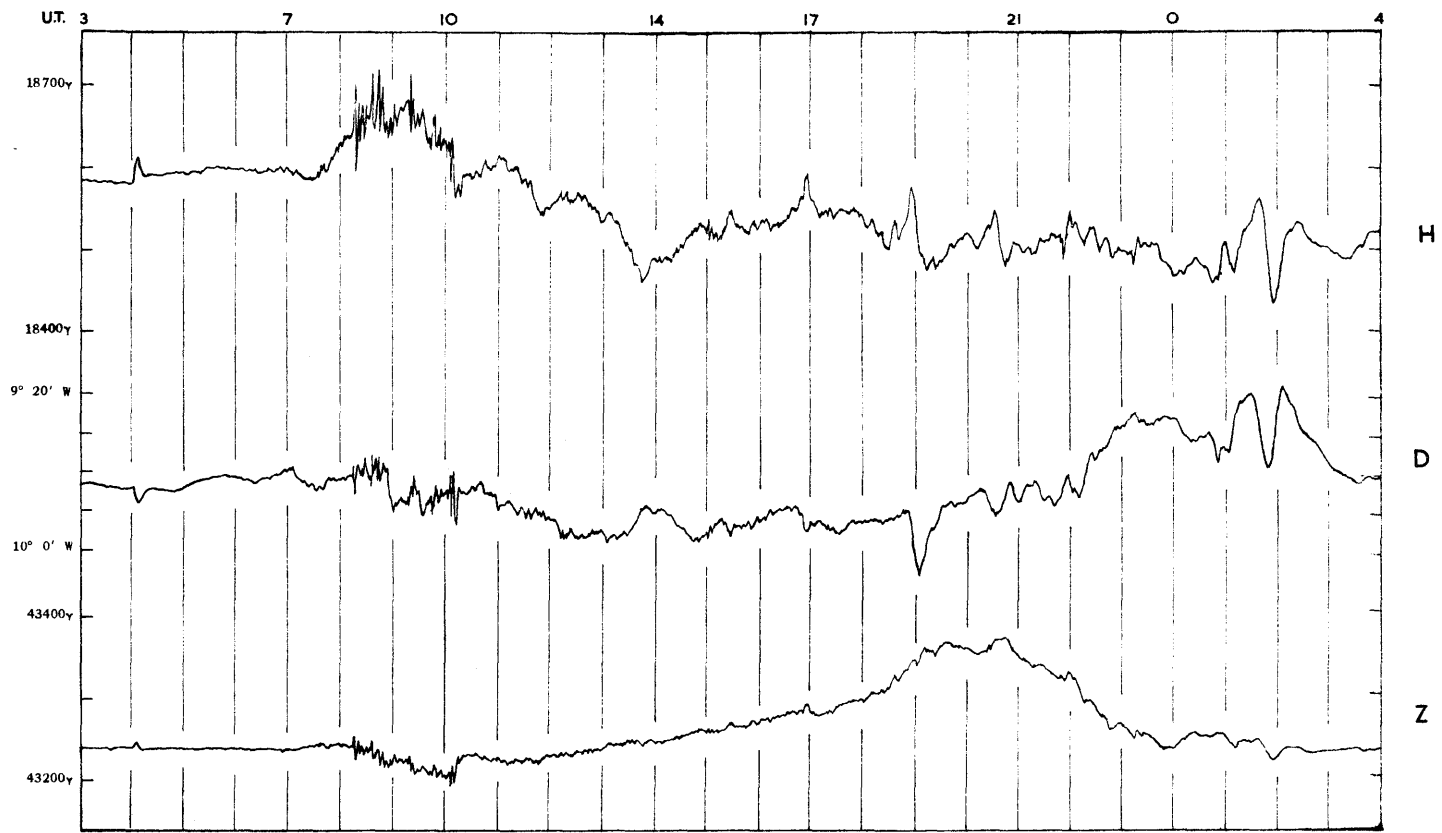
The range in declination during the month was from 9°22'.2 on 6th to 9°50'.2 on 23rd; in horizontal intensity, from .18508 on 12th to .18642 on 24th; in vertical intensity, from .43220 to .43290 both on 6th.

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

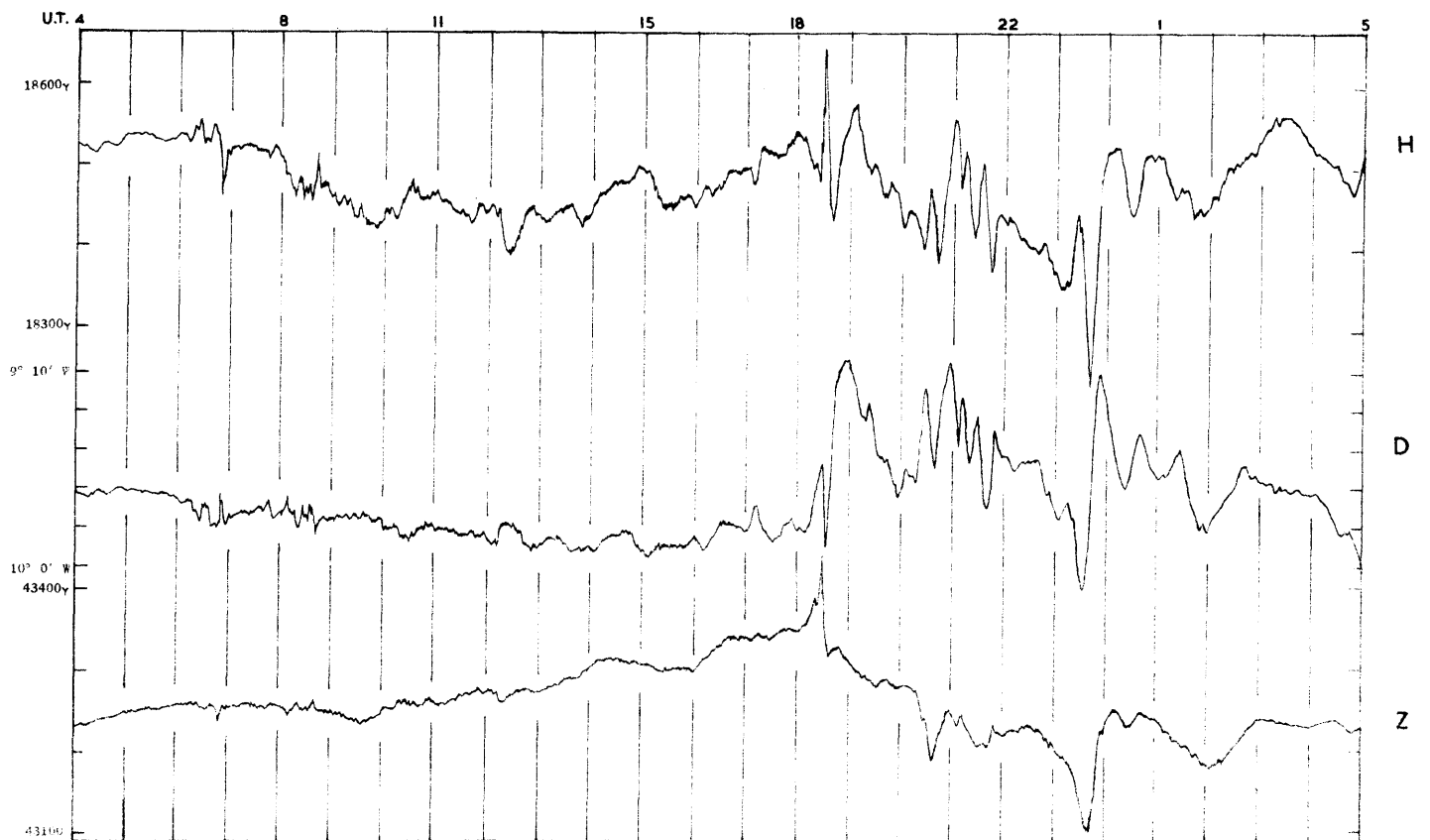
Declination, 10°19'.0 on September 24th; 8°58'.8 on April 17th.
 Horizontal Intensity, .18992 on July 17th; .18233 on March 3rd.
 Vertical Intensity, .43486 on September 24th; .43029 on April 17th.

1947 MAR 2-3

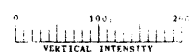
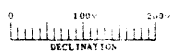
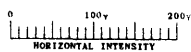
Plate I



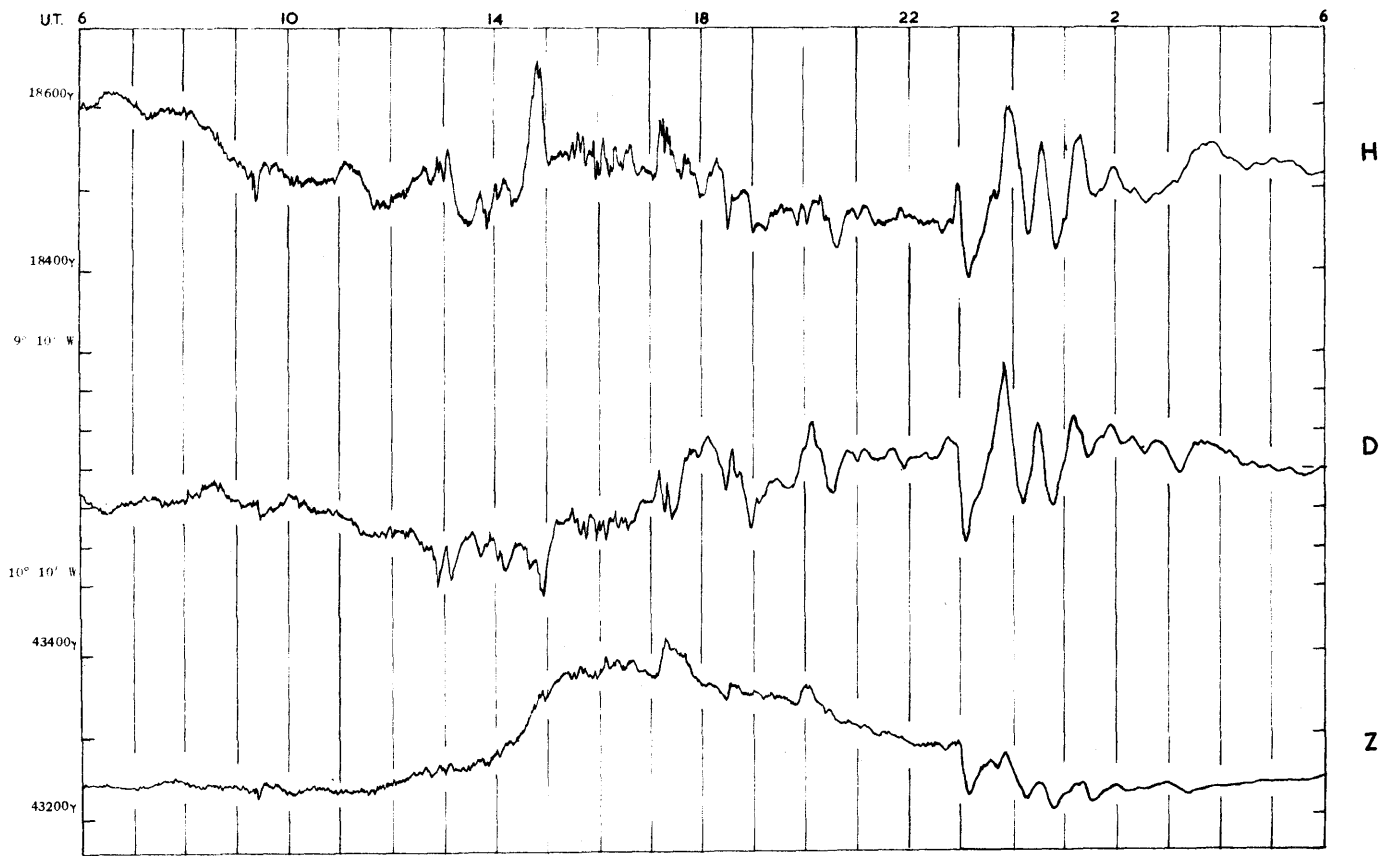
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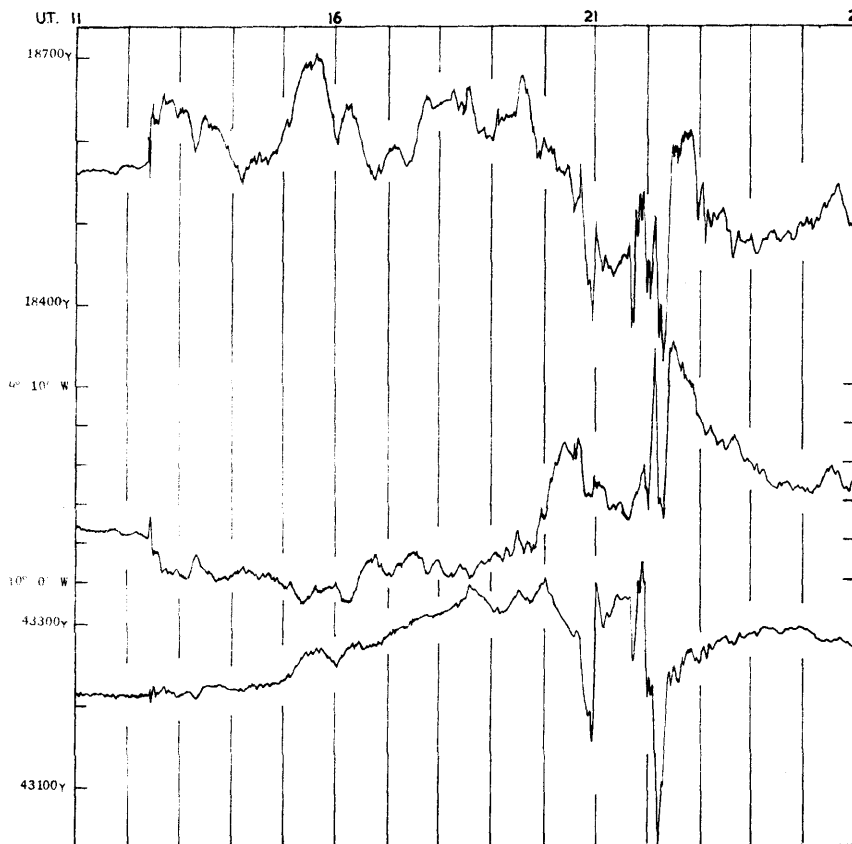
SCALES FOR THE MAGNETIC ELEMENTS



1947 MAR 8-9



1947 APR 17-18



APR 6



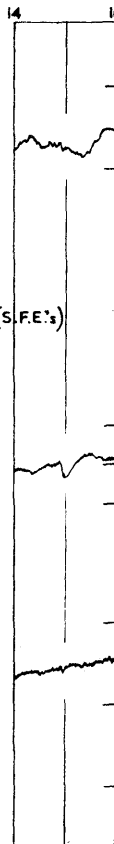
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AUG 1

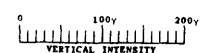
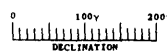
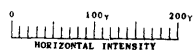


AUG 31



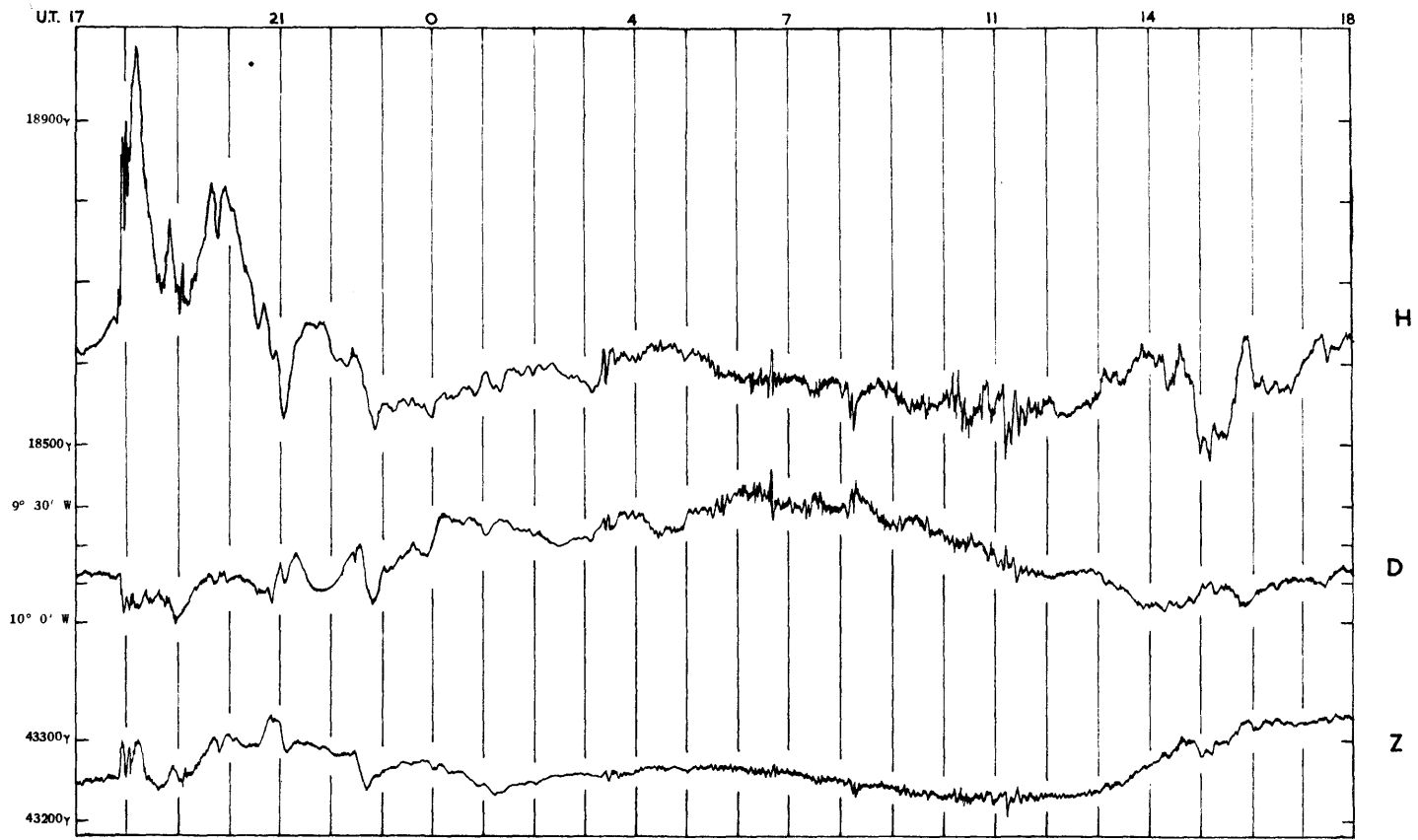
SOLAR FLARE EFFECTS (S.F.E.'s)

SCALES FOR THE MAGNETIC ELEMENTS

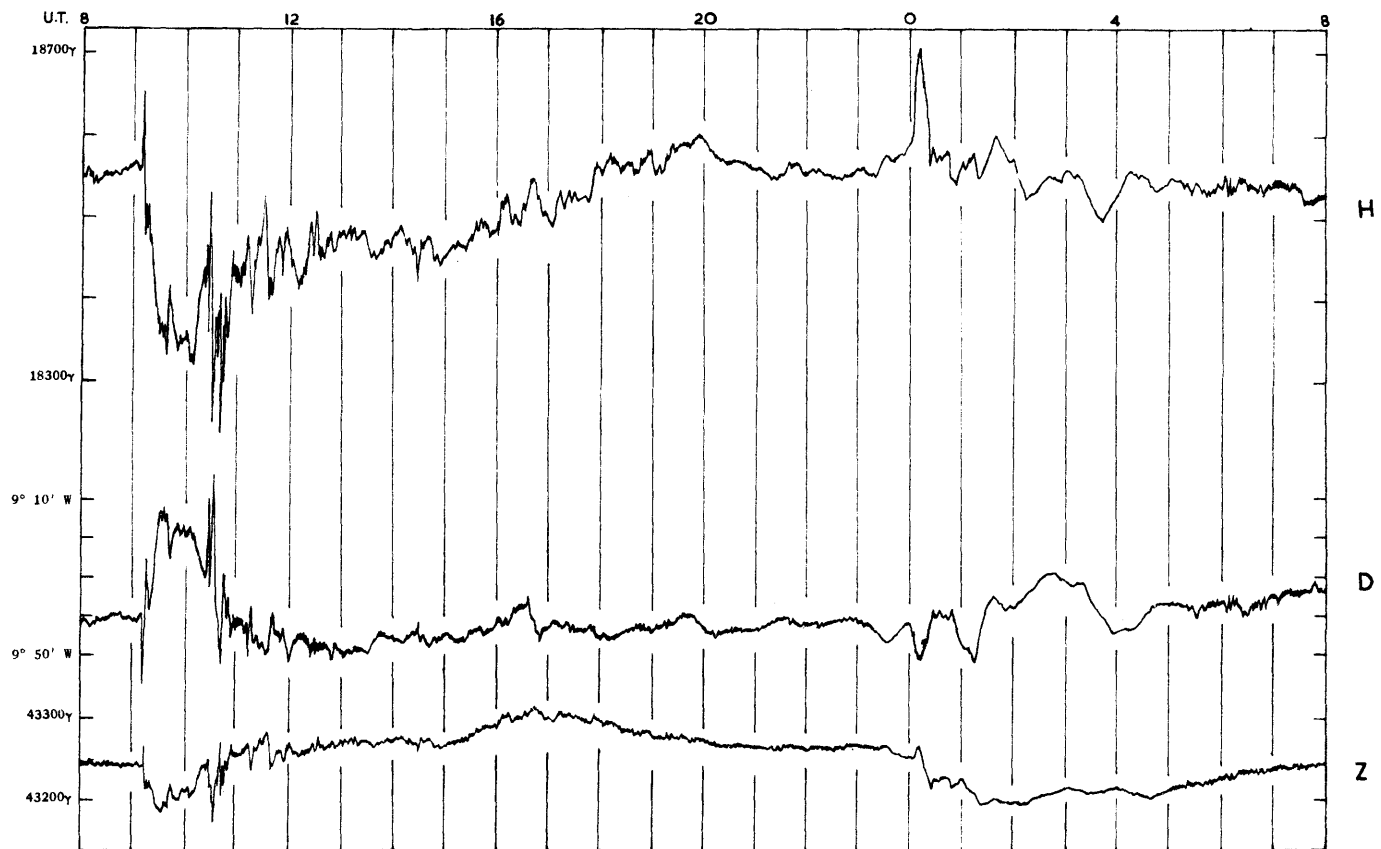


1947 JULY 17 - 18

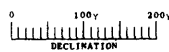
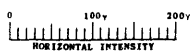
Plate III

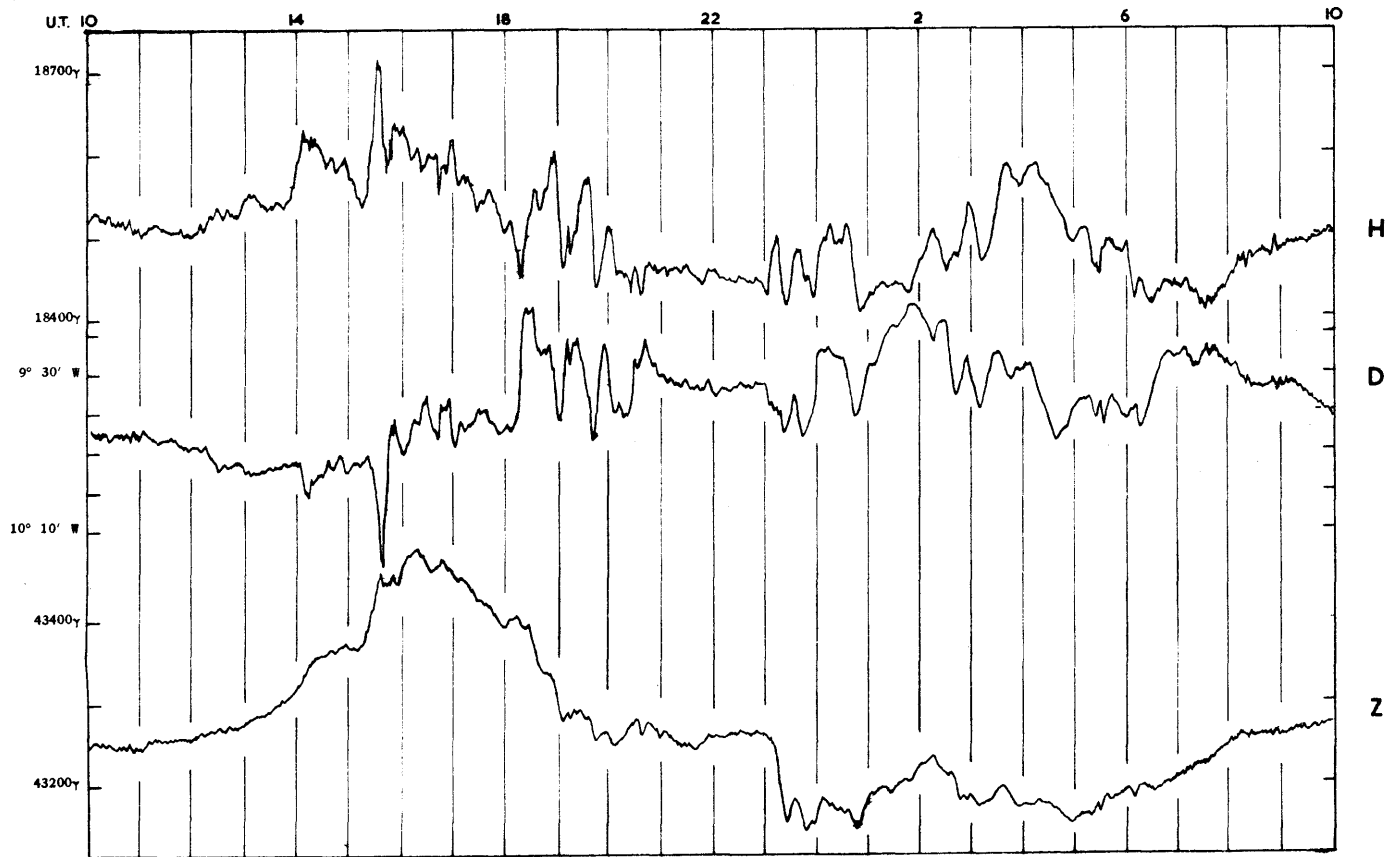
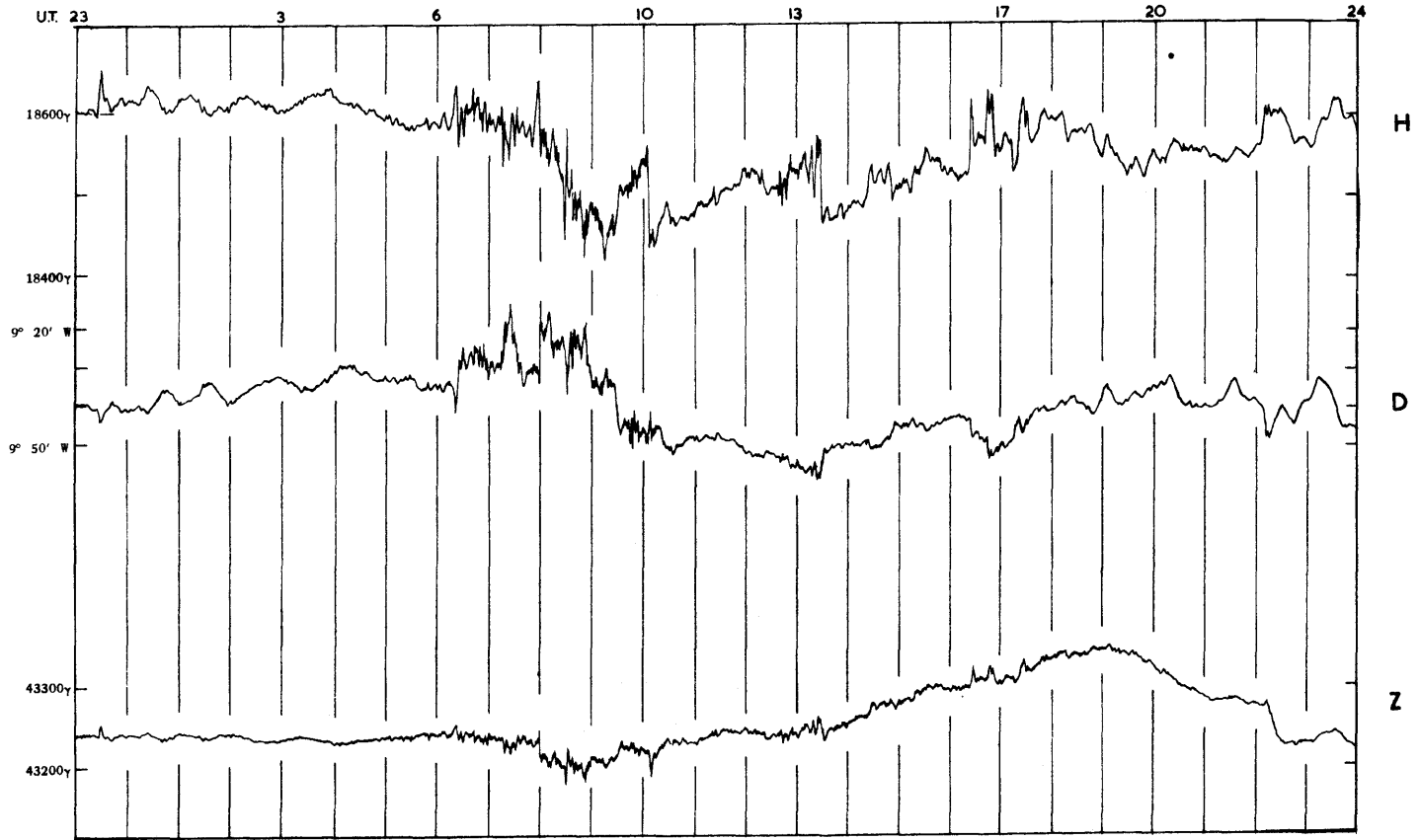


1947 AUG 22 - 23

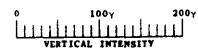
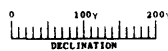
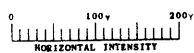


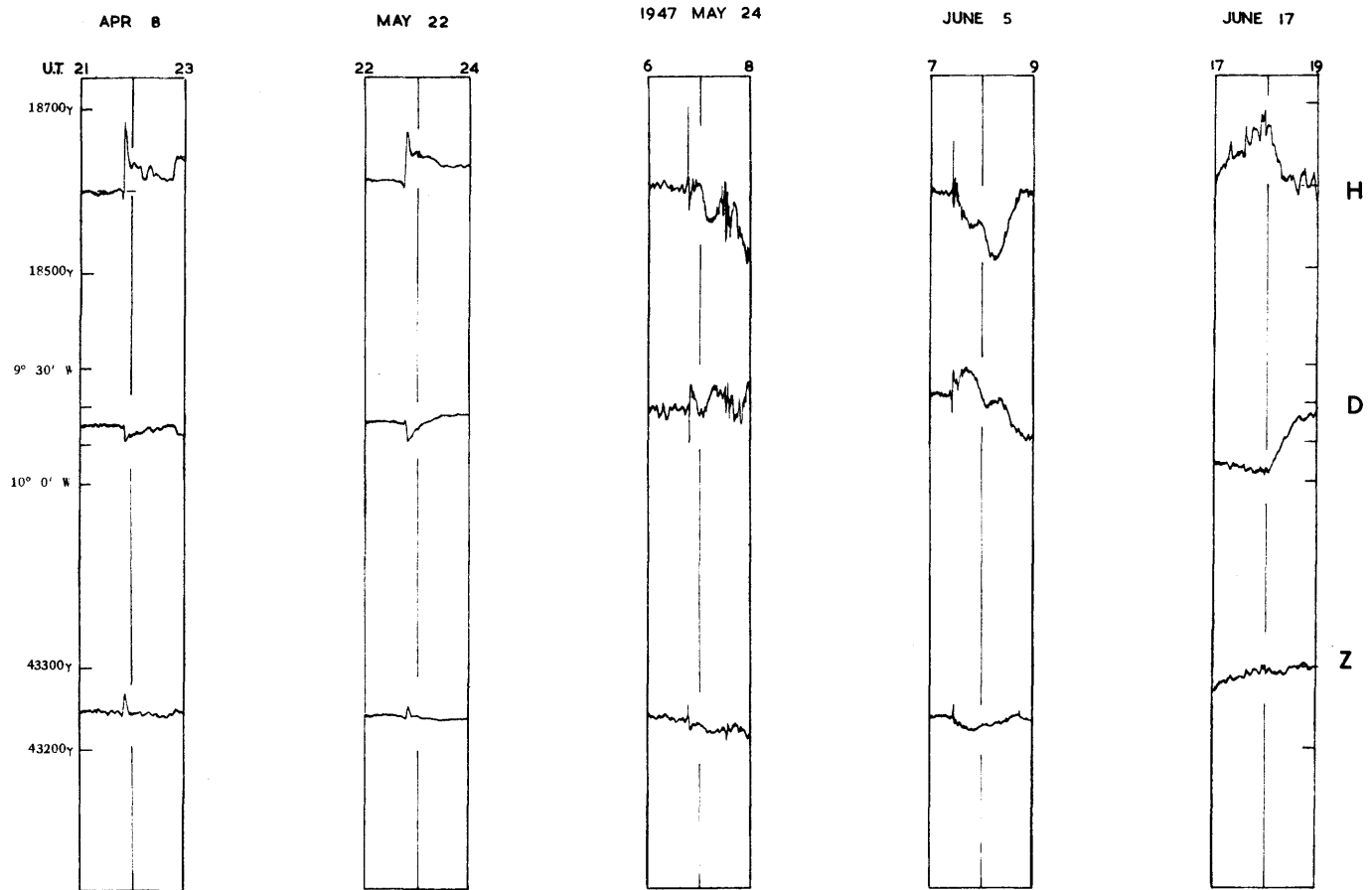
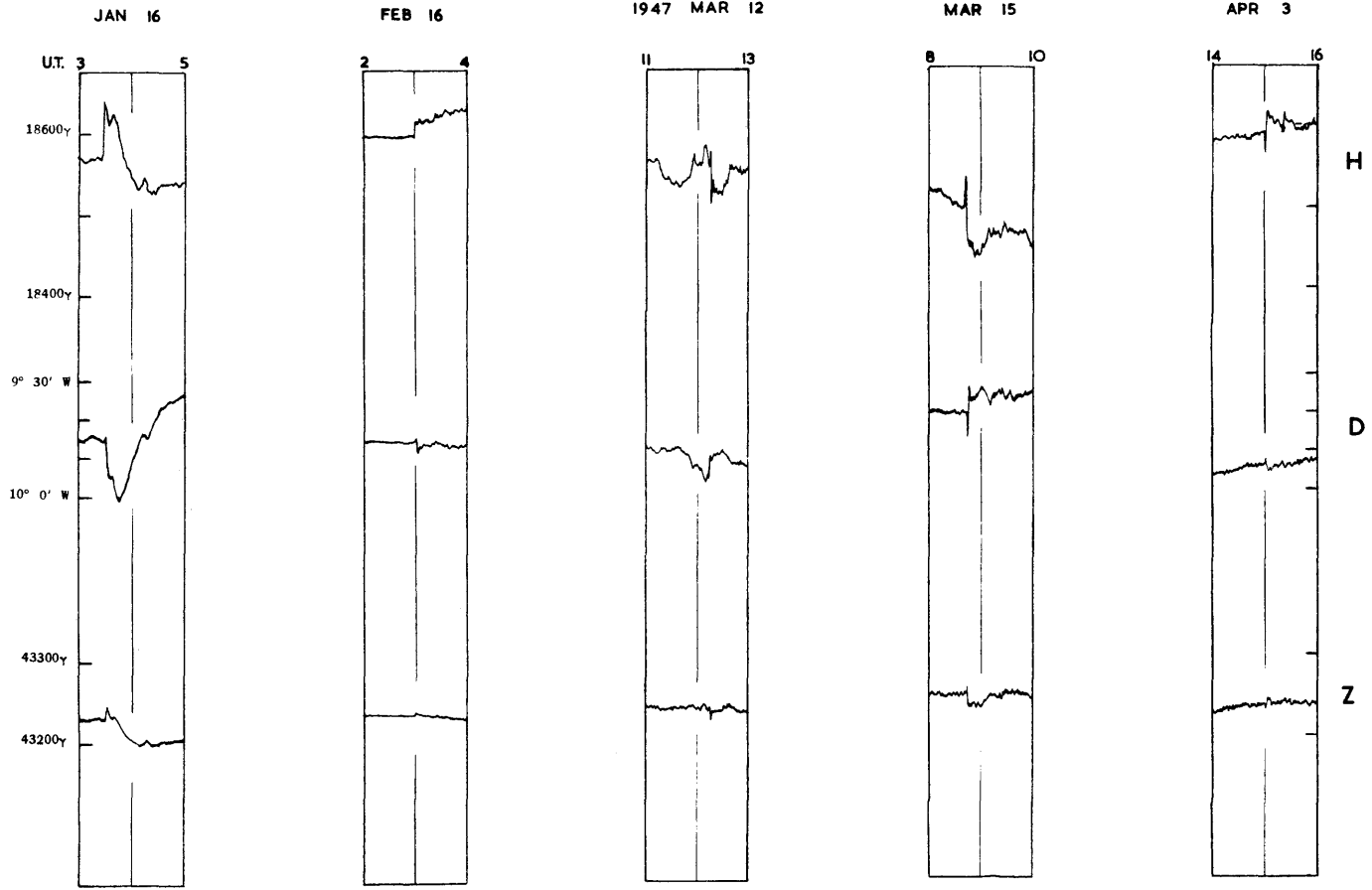
SCALES FOR THE MAGNETIC ELEMENTS



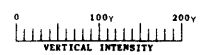
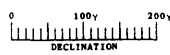
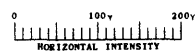


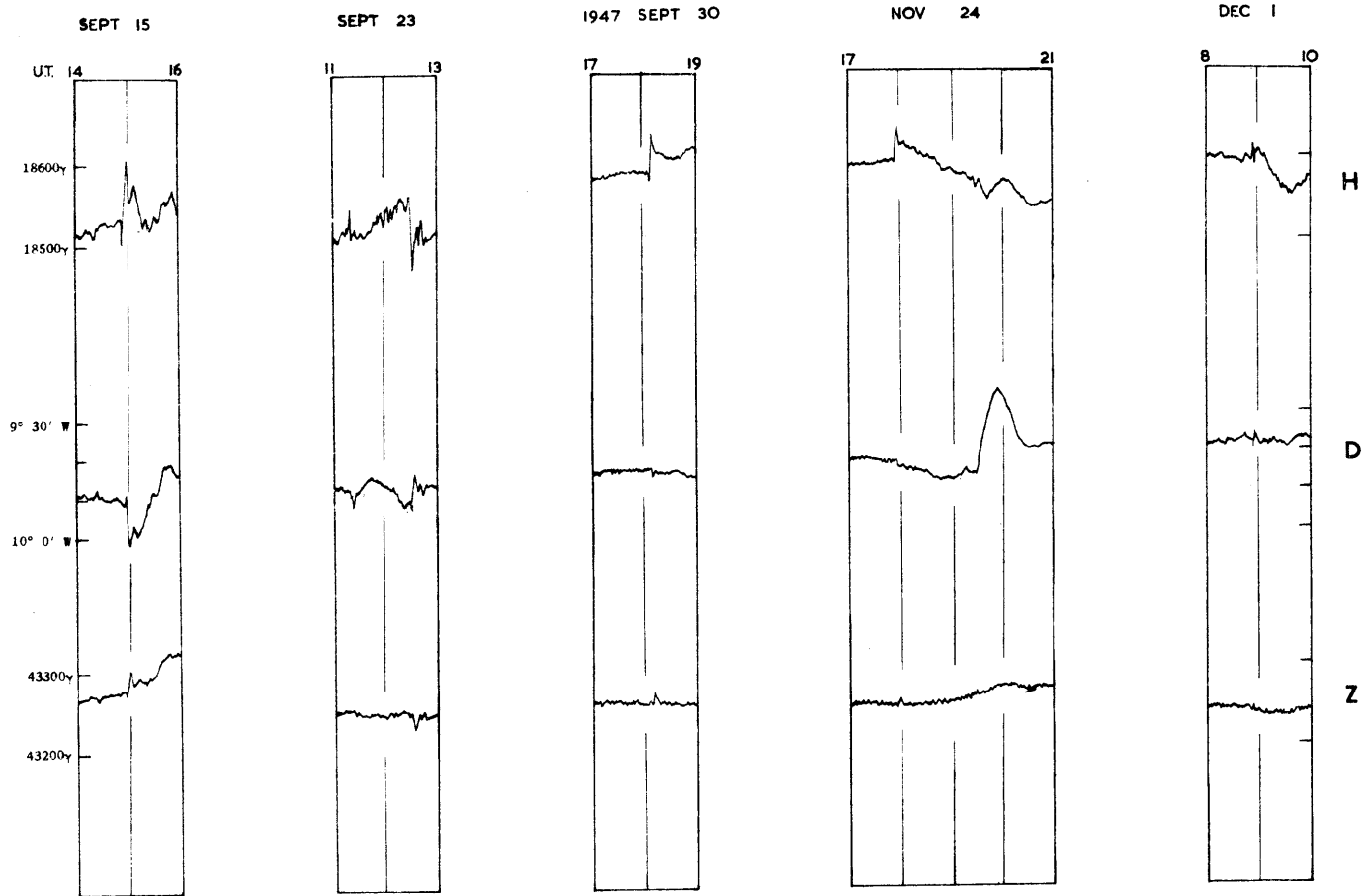
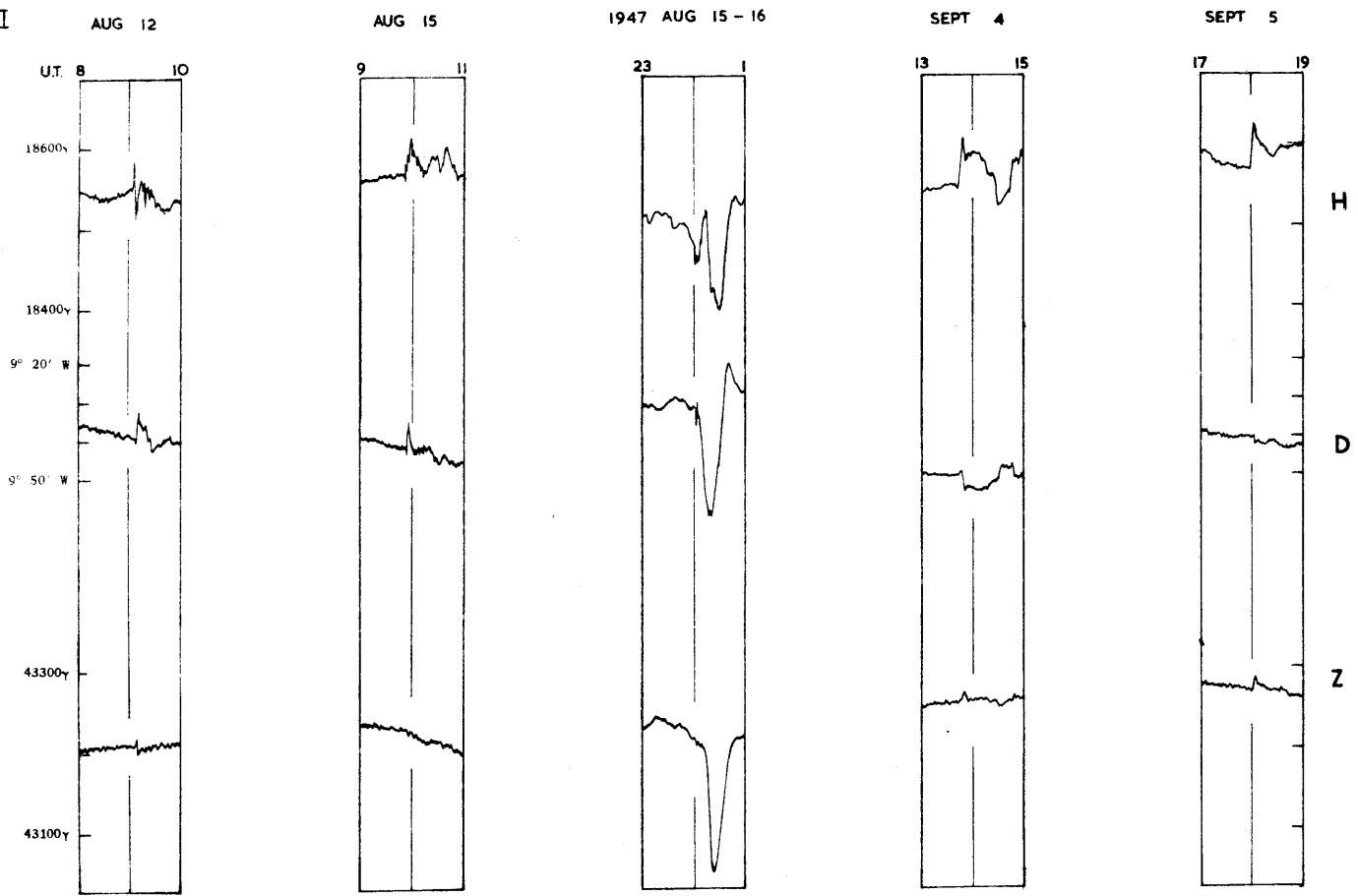
SCALES FOR THE MAGNETIC ELEMENTS



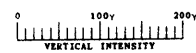
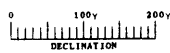
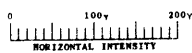


SCALES FOR THE MAGNETIC ELEMENTS





SCALES FOR THE MAGNETIC ELEMENTS



ROYAL OBSERVATORY, GREENWICH

Results of
Meteorological Observations
1947

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean			Great-est	Least				Highest in Sun's Rays	Lowest on the Grass
Jan. 1	29.828	43.0	32.2	10.8	35.7	- 2.9	34.7	32.9	2.8	5.1	1.0	90	52.2	23.6	44.8	0.000	1.6	7.9
2	29.888	44.8	28.9	15.9	38.9	+ 0.5	37.6	35.7	3.2	9.1	1.3	88	46.9	18.5	44.7	0.147	0.1	7.9
3	29.981	44.0	28.8	15.2	35.8	- 2.5	34.2	31.4	4.4	6.7	1.9	84	72.4	18.4	44.6	0.002*	2.7	7.9
4	29.973	37.4	29.8	7.6	34.7	- 3.6	33.4	31.1	3.6	5.1	0.3	86	45.2	23.0	44.4	0.000	0.3	8.0
5	29.672	36.3	29.8	6.5	32.7	- 5.5	31.4	29.4	3.3	6.0	1.0	86	45.8	23.0	44.2	0.000	0.0	8.0
6	29.552	31.0	24.7	6.3	27.7	-10.4	26.1	22.7	5.0	7.0	3.4	80	30.0	25.4	43.9	0.183	0.0	8.0
7	29.621	34.9	28.0	6.9	32.2	- 5.8	31.3	29.8	2.4	3.8	0.0	90	44.3	27.0	43.8	0.179	0.0	8.0
8	29.539	45.8	33.8	12.0	37.4	- 0.5	37.0	36.4	1.0	1.7	0.0	96	46.0	31.6	43.7	0.166	0.0	8.1
9	29.554	45.1	35.1	10.0	40.9	+ 3.0	39.4	37.4	3.5	9.4	1.1	87	69.9	27.0	43.6	0.000	4.2	8.1
10	29.758	44.5	29.5	15.0	38.1	+ 0.2	37.4	36.3	1.8	4.1	0.0	93	58.0	20.4	43.6	0.124	0.4	8.1
11	29.349	50.0	40.3	9.7	44.4	+ 6.5	42.9	41.0	3.4	7.2	0.7	88	55.8	34.9	43.6	0.048	0.0	8.2
12	29.363	48.6	39.4	9.2	44.1	+ 6.2	42.2	39.7	4.4	7.5	1.7	85	60.3	34.0	43.3	0.201	2.5	8.2
13	29.228	48.7	38.2	10.5	43.8	+ 5.8	40.5	35.7	8.1	16.3	4.0	73	77.7	31.2	43.5	0.116	3.6	8.2
14	29.556	53.0	37.0	16.0	46.9	+ 8.9	45.1	43.0	3.9	7.0	2.2	86	57.2	30.0	43.7	0.050	0.0	8.3
15	29.782	52.2	45.8	6.4	49.7	+11.6	46.9	43.7	6.0	8.6	3.2	80	65.6	39.0	43.8	0.002	0.0	8.3
16	29.816	54.2	43.9	10.3	48.3	+10.0	45.6	42.4	5.9	12.5	2.1	80	88.1	32.5	43.8	0.005	6.5	8.3
17	30.020	51.5	39.0	12.5	45.6	+ 7.1	42.7	38.8	6.8	12.5	3.4	77	75.3	32.0	43.9	0.028	2.5	8.4
18	30.280	47.6	35.3	12.3	41.1	+ 2.5	39.2	36.5	4.6	9.5	0.6	83	73.0	26.2	44.2	0.000	5.2	8.4
19	30.244	39.2	35.2	4.0	37.5	- 1.2	37.1	36.5	1.0	2.5	0.0	96	42.1	27.1	44.0	0.000	0.0	8.5
20	30.097	39.7	33.3	6.4	37.0	- 1.8	35.5	33.1	3.9	10.7	0.4	85	62.6	28.0	44.0	0.000	0.9	8.5
21	30.111	38.0	27.0	11.0	32.8	- 6.0	31.0	28.1	4.7	12.8	1.6	82	60.9	18.5	43.8	0.000	0.4	8.5
22	30.148	37.3	26.7	10.6	32.0	- 6.8	29.9	26.5	5.5	14.7	2.2	77	69.1	15.9	43.8	0.005*	2.9	8.6
23	30.236	33.6	26.8	6.8	31.0	- 7.9	29.3	26.5	4.5	6.8	1.3	81	51.0	21.7	43.7	0.003	1.2	8.7
24	30.315	31.9	26.2	5.7	28.7	-10.2	27.3	24.8	3.9	6.7	1.9	83	49.0	19.5	43.6	0.002	0.1	8.7
25	30.050	32.0	22.4	9.6	28.6	-10.5	27.5	25.6	3.0	3.8	0.9	86	51.0	10.6	43.2	0.007	0.1	8.8
26	29.792	31.5	25.7	5.8	28.2	-11.1	27.7	26.9	1.3	3.2	0.0	94	44.4	24.6	42.9	0.057	0.0	8.8
27	29.934	29.5	26.0	3.5	28.0	-11.5	26.9	25.0	3.0	7.7	0.0	86	64.1	24.6	42.6	0.029	1.8	8.9
28	29.826	28.8	14.0	14.8	24.7	-14.9	23.8	21.7	3.0	3.7	0.8	88	58.6	..	42.6	0.178	0.2	8.9
29	29.818	25.8	11.3	14.5	18.6	-21.1	17.7	15.2	3.4	5.7	1.3	85	61.2	..	42.3	0.000	5.4	9.0
30	29.640	29.7	15.2	14.5	23.4	-16.3	22.3	19.8	3.6	5.5	1.0	84	68.3	5.3	42.2	0.000	1.3	9.0
31	29.536	35.0	25.0	10.0	30.2	- 9.5	29.3	27.7	2.5	5.6	1.0	90	57.0	19.3	42.0	0.100	0.3	9.1
Means	29.823	40.1	30.1	10.0	35.4	- 3.2	34.0	31.7	3.8	7.4	1.3	85.5	58.2	24.6	43.6	Sum 1.632	1.4	8.4
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

The mean reading of the Barometer (Column 1) and the mean temperatures of the Air and Evaporation (Columns 5 and 7) are deduced from the autographic records. The average temperature (Column 6) is deduced from the 65 years' observations, 1841-1905. The temperature of the Dew Point (Column 8) and the Degree of Humidity (Column 12) are deduced from the corresponding temperatures of the Air and Evaporation by means of Hygrometrical Tables, published by the Meteorological Office, Air Ministry. The mean 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 January 3 and 22 are derived from hoarfrost.

The mean reading of the Barometer for the month was 29.823 in., being 0.022 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 54°.2 on January 16; the lowest in the month was 11°.3 on January 29, and the range was 42°.9.

The mean of all the highest daily readings in the month was 40°.1, being 3°.0 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 30°.1, being 4°.1 lower than the average for the 65 years, 1841-1905.

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

The mean for the month was 35°.4, being 3°.2 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robinson's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Jan.1	3.9	0.28	3.0	0.22	WSW:SW	S:SSW	1.6	0.05	222	b x	b Cicu ff	b f bc Cist m	lu-ha x c
2	12.1	0.88	8.6	0.63	SSW:W	Calm:SSW	3.6	0.08	208	c rr c b	b ff	b Ci m F	f b x m
3	5.1	0.37	2.8	0.20	SSE:S	S:SSE	3.5	0.15	255	b x c m	c m bc Acu	c Acu Ci	c
4	5.4	0.40	1.7	0.13	SSE	SE:ESE	1.5	0.12	204	c bc x	bc c Stcu Cicu	c Ast	bc lu-ha c
5	10.1	0.73	8.5	0.62	SE	ESE:SE	5.0	0.49	316	c	c Ast Stcu	c Stcu b	b lu-ha
6	0.0	0.00	0.0	0.00	SE:ESE	ESE:Calm	3.5	0.21	212	b c	c Nbst s ₀ s	ss c Nbst	c
7	0.0	0.00	0.0	0.00	Calm:SE	ESE:Calm	1.6	0.07	150	c s ₀ m	c Nbst m	c Nbst rs c ro	r ₀ c
8	8.1	0.59	7.9	0.57	Calm:SE	SSE:S:SSW	4.5	0.20	200	c ff	c St f m	c Stcu m ₀	r r c b
9	12.3	0.90	11.2	0.82	SSW	SW	1.7	0.09	245	b x m ₀	c Cicu m ₀	b m ₀ Cist Acu f	c f b
10	0.0	0.00	0.0	0.00	SW:SSW	S:SSE	1.6	0.08	210	b x	b f x bc Cist so-ha	bc c Nbst r ₀ c	c r ₀ rr
11	8.2	0.62	7.5	0.57	SSE:SW:S	S:WSW	6.6	0.34	293	c r ₀ c	c r ₀ f c Ast	c Nbst r ₀ d	r ₀ c b
12	4.3	0.33	2.5	0.19	SW:W	SSW:SW	10.0	0.90	436	b c q R	b c Ast Acu	c Acu Cu	c r b
13	6.5	0.49	5.1	0.38	SW:WSW	WSW	21.0	2.00	574	b c q R c	b Prcu Ci Y	c gale r ₀ q b	b
14	0.8	0.06	0.0	0.00	SW:SSW	WSW:SW	13.5	0.93	459	b c	c Nbst Ir d ₀	c Nbst Id ₀ c	c
15	12.3	0.93	12.0	0.91	SW	SW	13.5	1.64	507	c d ₀	c r ₀ c Stcu	c Ast Stcu	b
16	4.2	0.32	3.4	0.26	SSW:S	SSW:SW	8.0	0.54	336	b w	b	b Ci	b c r
17	13.3	1.00	13.3	1.00	WSW	WSW	5.5	0.50	367	c Ir c	c b c Prcu	b c Stcu b	b
18	5.8	0.45	4.0	0.31	WSW:SW	W:WSW	2.0	0.13	258	b x m	b Ci m	b Ci	b c
19	0.6	0.05	0.3	0.02	Calm	E:Calm	0.2	0.01	114	c b x c	c St f F	F f	ff
20	6.1	0.47	4.9	0.38	E:Calm	E:Calm	1.1	0.05	140	f c w	f c Prcu	c Stcu	c b c f
21	4.1	0.32	1.3	0.10	Calm	Calm	0.0	0.00	58	c b x f	b c Stcu ff	F g c Stcu f	ff x
22	2.2	0.17	1.3	0.10	Calm:ENE:E	E:NE	1.7	0.05	147	b f x c m	c x m b c Acu	c Is ₀ c Stcu	c
23	5.3	0.41	4.9	0.38	E:NE	NE	4.0	0.23	281	c s ₀ c	c b c Stcu	c Is ₀ c Acu	c
24	6.0	0.46	3.0	0.23	NE	NE	1.4	0.11	214	c Is ₀ c	c s ₀ c Prcu x	c Stcu b x	b c x
25	1.1	0.09	0.6	0.05	Calm	NE	2.2	0.09	170	c b x	c s ₀ c Cist f	s ₀ c Nbst	c
26	0.3	0.03	0.0	0.00	NE	NE	11.7	0.88	438	c ss c	c Nbst Is ₀	s ₀ c Nbst	c
27	0.2	0.02	0.1	0.01	NE:ENE	ENE:NE	6.6	0.65	363	c s ₀ c	c Nbst s s ₀	s ₀ c Prcu b c	c
28	8.9	0.69	8.1	0.64	NNE:NE	NE:ESE	2.7	0.23	260	c s ₀ c	c Prcu Cu	c Nbst s ₀ s g c Is ₀	Is c
29	10.7	0.84	9.8	0.77	ESE	E	1.6	0.07	184	c b	b Acu	b	b c b
30	7.2	0.56	5.4	0.42	E:ESE	E:ENE	2.6	0.22	227	b x m	c Cist prha b m	b bc Cist prha c m	b m
31	3.1	0.24	2.9	0.23	E:ENE	ENE:NE:E	1.3	0.16	228	c s Is ₀ m	c s ₀ c Acu m	c Ast s ₀ s	s s ₀ c
Means	5.4	0.41	4.3	0.33	..	..	..	0.36	267				
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 34°.0, being 3°.2 lower than
 The mean *Temperature of the Dew Point* for the month was 31°.7, being 3°.4 lower than
 The mean *Degree of Humidity* for the month was 85.5, being 1.3 less than
 The mean *Elastic Force of Vapour* for the month was 0.178 in., being 0.027 in. less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.8.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.170. The maximum daily amount of *Sunshine* was 6.5 hours on January 16.
 The highest reading of the *Solar Radiation Thermometer* was 88°.1 on January 16; and the lowest reading of the *Terrestrial Radiation Thermometer* was 5°.3 on January 30.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.27, S.26, W.20, calm or nearly calm conditions 17, 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 January 13. The mean daily *Horizontal Movement of the Air* for the month was 267 miles; the greatest daily value was 574 miles on January 13, and the least daily value was 58 miles on January 21.
Rain (0.005 in. or over) fell on 16 days in the month, amounting to 1.632 in., as measured by gauge No.6 partly sunk below the ground; being 0.249 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean	Greatest	Least			Highest in Sun's Rays	Lowest on the Grass			
Feb. 1	29.561	33.3	25.3	8.0	30.7	-8.9	29.5	27.5	3.2	6.2	1.3	86	63.2	23.5	41.8	0.000	0.9	9.1
2	29.262	34.2	28.8	5.4	32.7	-6.8	31.8	30.4	2.3	6.2	0.0	90	37.8	22.0	41.7	0.120	0.0	9.2
3	28.855	36.7	33.4	3.3	35.0	-4.5	34.4	33.3	1.7	2.2	0.0	94	42.3	31.8	41.7	0.295	0.0	9.3
4	29.053	38.5	29.8	8.7	35.6	-3.9	35.1	34.2	1.4	2.1	0.0	95	44.3	29.8	41.7	0.092	0.0	9.3
5	29.556	31.8	28.2	3.6	29.8	-9.8	28.8	27.0	2.8	5.4	0.0	88	42.2	29.2	41.4	0.159	0.0	9.3
6	29.729	29.2	27.6	1.6	28.7	-10.9	28.1	27.1	1.6	2.4	0.0	93	37.2	28.5	41.4	0.247	0.0	9.4
7	29.616	30.0	27.4	2.6	28.9	-10.6	27.9	26.2	2.7	4.4	0.5	87	38.0	27.5	41.3	0.004	0.0	9.5
8	29.309	30.8	28.2	2.6	29.7	-9.6	28.8	27.2	2.5	3.3	0.8	89	46.6	26.1	41.1	0.120	0.0	9.5
9	29.346	34.8	28.2	6.6	32.2	-6.9	31.6	30.7	1.5	3.4	0.6	93	46.8	29.0	41.2	0.295	0.0	9.6
10	29.496	35.7	33.1	2.6	34.1	-4.8	33.9	33.5	0.6	1.6	0.0	98	38.8	32.6	41.2	0.000	0.0	9.6
11	29.677	33.8	25.0	8.8	28.7	-10.1	28.1	27.1	1.6	2.2	0.6	93	32.4	25.1	41.0	0.000	0.0	9.7
12	29.749	26.9	24.5	2.4	25.5	-13.3	24.8	23.3	2.2	2.9	0.0	90	32.2	24.6	40.8	0.000	0.0	9.8
13	29.756	29.4	25.3	4.1	27.5	-11.5	26.9	25.8	1.7	2.7	0.8	93	32.0	25.8	40.8	0.000	0.0	9.8
14	29.843	32.1	27.7	4.4	29.9	-9.4	29.3	28.4	1.5	3.6	0.0	93	35.9	27.7	40.7	0.002	0.0	9.9
15	30.012	31.8	27.8	4.0	30.0	-9.4	29.3	28.2	1.8	2.8	0.0	92	45.0	27.1	40.7	0.000	0.1	10.0
16	30.048	28.7	25.7	3.0	27.5	-12.0	26.8	25.5	2.0	2.7	0.4	91	36.4	26.1	40.6	0.000	0.0	10.0
17	29.858	27.2	25.8	1.4	26.6	-13.0	25.6	23.5	3.1	4.0	2.5	87	33.8	25.4	40.3	0.000	0.0	10.1
18	29.710	29.3	25.1	4.2	27.5	-12.0	26.1	23.2	4.3	6.8	1.7	83	37.5	25.0	40.3	0.000	0.0	10.1
19	29.735	29.7	26.8	2.9	28.6	-10.9	27.5	25.6	3.0	6.7	0.6	86	49.2	26.8	40.2	0.001	0.0	10.2
20	29.593	30.9	26.8	4.1	28.7	-10.8	27.8	26.3	2.4	4.1	0.0	89	40.8	26.2	40.0	0.010	0.0	10.3
21	29.230	29.4	24.2	5.2	27.3	-12.3	26.4	24.7	2.6	2.7	0.0	88	37.5	26.3	39.8	0.184	0.0	10.3
22	29.323	28.8	24.5	4.3	26.4	-13.3	25.6	23.9	2.5	5.9	1.3	89	44.3	21.7	39.7	0.029	0.0	10.4
23	29.743	31.1	14.8	16.3	25.6	-14.2	24.7	22.7	2.9	7.1	0.6	88	88.5	11.5	39.7	0.000	5.3	10.5
24	29.839	25.5	9.0	16.5	18.4	-21.6	18.0	17.0	1.4	3.2	0.0	93	27.7	5.7	39.4	0.069	0.0	10.5
25	29.787	36.0	10.0	26.0	24.1	-16.0	22.5	18.6	5.5	11.6	0.0	77	80.9	4.2	39.5	0.000	2.5	10.6
26	29.633	41.3	29.1	12.2	34.1	-6.1	31.3	26.7	7.4	17.1	2.7	72	96.1	24.6	39.6	0.000	7.6	10.7
27	29.380	37.3	30.4	6.9	33.7	-6.7	31.0	26.8	6.8	14.0	2.1	74	59.3	27.5	39.3	0.000	0.1	10.7
28	29.341	33.4	28.2	5.2	32.1	-8.2	30.1	26.8	5.3	8.1	1.8	79	46.5	24.0	39.2	0.011	0.0	10.8
Means	29.573	32.1	25.7	6.3	29.3	-10.3	28.3	26.5	2.8	5.2	0.7	88.2	46.2	24.5	40.6	Sum 1.569	0.6	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 29.573 in., being 0.236 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 41°3 on February 26; the lowest in the month was 9°0 on February 24; and the range was 32°3.

The mean of all the highest daily readings in the month was 32°1, being 12°8 lower than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 25°7, being 9°0 lower than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 6°3, being 3°9 less than the average for the 65 years, 1841-1905.

The mean for the month was 29°3, being 10°3 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
hours		hours				lbs.	lbs.	miles	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
Feb.1	2.3	0.19	1.8	0.15	ESE:E	E:ESE	2.5	0.08	187	c b c m	c m b c Stcu Cist	c Stcu s _o c	c
2	0.0	0.00	0.0	0.00	ESE	SE:E	4.3	0.34	276	c	c s _o s _o rs Nbst	r s c Nbst	c
3	0.0	0.00	0.0	0.00	E:ESE	E	2.3	0.17	276	cd _o m	d _o rs r m Nbst	r s o r m f	o
4	0.1	0.01	0.0	0.00	E	ENE:NE	4.6	0.22	275	o d _o r o f	o St f m	o St m	os _o s _o
5	0.0	0.00	0.0	0.00	NE	NE	1.6	0.20	323	o s s _o	c Stcu Ast is _o	c Nbst is _o	s _o ss
6	0.0	0.00	0.0	0.00	ENE:E	E:ESE	0.7	0.05	187	ss m	ss c Nbst m	s s _o c Nbst m _o	c m _o
7	2.5	0.20	1.3	0.11	ESE	E:ESE	3.6	0.21	251	c m _o	c o St s _o m _o	o St m _o	c m _o
8	0.0	0.00	0.0	0.00	E	ENE	8.8	1.24	486	c m _o	c Stcu	c Stcu	o ss
9	0.0	0.00	0.0	0.00	NE: Calm	E	0.7	0.03	144	ss	ss o St s _o fe fe	o St fe fe	fe fe
10	0.0	0.00	0.0	0.00	E	ENE	2.7	0.24	279	fe fe	fe fe	fe o St m	o m _o
11	0.0	0.00	0.0	0.00	ENE	ENE:NE	4.0	0.48	378	o m _o	o c St m _o	c St m _o	c m _o
12	0.0	0.00	0.0	0.00	ENE:NE	NE	2.5	0.25	305	c m _o	c Stcu m _o	c St m _o	c m _o
13	0.0	0.00	0.0	0.00	NE	NE	0.4	0.07	200	c m _o	c Stcu m _o	s _o c St m	c m
14	0.0	0.00	0.0	0.00	NE	NNE:NE	0.6	0.04	187	c m	c Stcu m	c Stcu m	c m _o d _o c
15	0.0	0.00	0.0	0.00	NE:ENE	ENE:NE	2.9	0.26	330	c	c Stcu	c Stcu	c
16	0.0	0.00	0.0	0.00	NE	NE:ENE	3.0	0.34	374	c m _o	c Nbst is _o m _o	c Nbst	c
17	0.0	0.00	0.0	0.00	ENE	NE	2.0	0.23	307	c	c Nbst is _o	c St	c
18	0.0	0.00	0.0	0.00	NE	NE:ENE	3.5	0.30	336	c m _o	c Stcu	c Stcu	c
19	0.0	0.00	0.0	0.00	ENE:NE	NNE:NE	6.5	0.32	329	c	c Stcu	c Nbst is _o	s _o c
20	0.0	0.00	0.0	0.00	NE: Calm	ENE:E	1.5	0.09	190	c	c Nbst s _o s _o m	Nbst is _o	c
21	0.0	0.00	0.0	0.00	E:ENE	ENE:NNE	5.2	0.44	368	c m	c Nbst is _o m	Nbst is m ss	ss c
22	4.9	0.45	3.8	0.35	NNE	NNE:N	1.6	0.18	276	c	c o Nbst s is _o	s _o c Stcu s _o	c
23	11.0	1.00	3.4	0.31	NNW:N:NNE	NNE: Calm	0.4	0.03	161	c	c s _o c Stcu b Cu	b c Cu b	b f
24	10.8	0.98	3.7	0.33	Calm	Calm	0.0	0.00	83	b f x	bf g f x	ff x	ff x
25	0.1	0.01	0.0	0.00	Calm	ESE:SE	1.2	0.03	126	ff x	ff x b Ci	b c Cist so-ha c	c
26	1.1	0.10	0.0	0.00	SSE:S	S	6.3	0.69	351	c	c b Ci y	b bc Ci y	bc lu-ha c
27	0.0	0.00	0.0	0.00	Calm	N	1.2	0.07	153	c m	c Ast m	c bc Cist so-ha m _o	bc c
28	8.7	0.79	8.3	0.76	NNW:NW	NNW	4.0	0.52	350	c is _o m _o	c Nbst is _o g m _o	c Ast is _o	is _o c
Means	1.5	0.13	0.8	0.07	..	..	..	0.25	267				
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 28°.3, being 9°.4 lower than
 The mean *Temperature of the Dew Point* for the month was 26°.5, being 8°.5 lower than
 The mean *Degree of Humidity* for the month was 88.2, being 4.6 greater than
 The mean *Elastic Force of Vapour* for the month was 0.140 in., being 0.064 in. less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 9.0.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.059. The maximum daily amount of *Sunshine* was 7.6 hours on February 26.
 The highest reading of the *Solar Radiation Thermometer* was 96°.1 on February 26; and the lowest reading of the *Terrestrial Radiation Thermometer* was 4°.2 on February 25.
 The *Proportions of Wind* referred to the cardinal points were N.29, E.51, S.6, W.2, calm or nearly calm conditions 12, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 8.8 lbs. on the square foot on February 8. The mean daily *Horizontal Movement of the Air* for the month was 267 miles; the greatest daily value was 486 miles on February 8, and the least daily value was 83 miles on February 24.
Rain (0.005 in. or over) fell on 11 days in the month, amounting to 1.569 in., as measured by gauge No.6 partly sunk below the ground; being 0.089 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
Mar. 1	29.628	35.7	23.7	12.0	30.2	-10.2	28.3	24.9	5.3	11.5	2.4	78	87.3	19.4	39.3	0.000	6.5	10.9
2	29.798	39.0	23.9	15.1	31.0	-9.4	28.9	25.1	5.9	17.0	1.7	77	65.3	16.5	39.1	0.000	6.2	10.9
3	29.845	38.0	21.7	16.3	29.9	-10.6	28.0	24.6	5.3	13.8	0.0	78	89.5	11.8	39.1	0.000	3.8	11.0
4	29.606	34.7	29.8	4.9	32.0	-8.7	30.3	27.5	4.5	9.0	0.0	82	50.4	27.7	38.9	0.438	0.0	11.1
5	29.238	32.5	30.7	1.8	31.9	-9.0	31.2	30.1	1.8	2.1	0.0	92	42.5	30.9	38.8	0.349	0.0	11.1
6	29.315	33.0	29.0	4.0	30.6	-10.4	29.8	28.5	2.1	4.4	1.0	91	44.6	26.5	38.8	0.110	0.0	11.2
7	29.631	35.4	21.6	13.8	27.8	-13.2	26.6	24.3	3.5	8.7	0.8	85	62.8	18.6	38.7	0.000	2.0	11.3
8	29.753	40.2	23.4	16.8	33.5	-7.6	31.7	28.9	4.6	11.4	2.0	81	63.9	19.2	38.7	0.023	1.2	11.3
9	29.909	47.5	31.0	16.5	38.4	-2.6	35.0	29.2	9.2	18.7	1.6	68	89.5	27.0	38.7	0.045	7.6	11.4
10	29.432	44.6	32.8	11.8	38.8	-2.1	38.4	37.9	0.9	3.5	0.0	96	55.9	31.8	38.4	0.755	0.0	11.4
11	29.405	44.0	32.0	12.0	35.6	-5.4	34.7	33.1	2.5	4.4	0.6	91	42.0	31.6	38.2	0.288	0.0	11.5
12	29.814	36.3	30.6	5.7	32.2	-8.9	31.0	29.0	3.2	5.0	1.3	87	40.8	30.6	38.2	0.296	0.0	11.6
13	29.185	52.2	36.3	15.9	46.8	+5.5	45.9	44.8	2.0	4.4	0.9	93	83.9	35.7	38.4	0.424	0.1	11.6
14	29.373	46.6	29.5	17.1	36.4	-5.1	34.8	32.1	4.3	6.1	0.9	84	49.6	23.5	38.3	0.046	0.0	11.7
15	29.921	35.5	25.1	10.4	31.0	-10.7	29.9	28.2	2.8	8.8	0.0	87	47.4	18.5	38.4	0.174	0.0	11.8
16	29.362	57.0	35.5	21.5	46.2	+4.3	42.8	38.3	7.9	14.6	0.8	74	102.0	34.5	38.7	0.284	1.9	11.8
17	29.543	55.7	39.2	16.5	46.7	+4.7	43.7	40.0	6.7	12.3	1.9	77	113.9	31.8	38.8	0.020	3.7	11.9
18	29.362	56.0	42.9	13.1	48.6	+6.6	45.7	42.2	6.4	15.1	1.6	78	106.8	31.7	39.0	0.010	3.7	12.0
19	29.153	48.6	44.6	4.0	46.5	+4.6	44.7	42.5	4.0	5.9	2.2	86	66.0	39.1	39.3	0.133	0.1	12.0
20	29.310	52.1	42.9	9.2	46.7	+4.8	43.6	39.7	7.0	15.1	2.6	76	101.6	41.0	39.7	0.030	1.3	12.1
21	29.205	53.7	44.7	9.0	48.7	+6.8	46.8	44.7	4.0	12.3	0.8	86	88.5	32.0	40.0	0.135	1.0	12.2
22	29.129	54.9	42.7	12.2	47.6	+5.6	45.4	42.9	4.7	11.3	1.6	83	102.8	26.2	40.4	0.216	2.0	12.2
23	29.039	54.3	41.5	12.8	48.0	+5.8	44.6	40.3	7.7	16.9	3.5	74	115.7	35.0	40.8	0.040	3.4	12.3
24	29.276	45.7	34.8	10.9	40.2	-2.2	38.5	36.1	4.1	8.0	2.4	85	53.8	30.0	41.0	0.031	0.0	12.4
25	29.803	52.6	32.4	20.2	41.4	-1.3	37.6	31.5	9.9	20.3	1.7	67	110.5	27.0	41.3	0.000	7.0	12.4
26	29.599	52.8	38.8	14.0	44.2	+1.2	40.0	33.5	10.7	21.0	4.8	66	95.0	30.9	41.4	0.070	0.7	12.5
27	29.393	53.9	41.8	12.1	47.5	+4.2	45.7	43.6	3.9	6.5	1.0	86	81.5	38.3	41.6	0.145	0.1	12.6
28	29.264	58.0	45.7	12.3	50.8	+7.1	48.8	46.6	4.2	7.6	1.1	86	92.0	40.7	41.7	0.115	0.0	12.6
29	28.908	54.9	46.0	8.9	49.3	+5.2	48.4	47.5	1.8	3.3	0.0	93	80.7	43.7	41.9	0.830	0.0	12.7
30	28.961	52.4	42.2	10.2	48.0	+3.5	45.8	43.3	4.7	9.6	1.1	83	88.1	36.3	42.3	0.111	0.5	12.7
31	29.145	46.4	41.5	4.9	44.0	-0.9	42.8	41.3	2.7	5.4	0.7	90	58.1	35.6	42.6	0.098	0.0	12.8
Means	29.429	46.6	34.8	11.8	40.3	-1.6	38.4	35.6	4.8	10.1	1.3	82.6	76.5	29.8	39.7	Sum 5.216	1.7	11.8
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the *Barometer* for the month was 29.429 in., being 0.324 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 58°.0 on March 28; the lowest in the month was 21°.8 on March 7; and the range was 36°.4.

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

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

The mean of the daily ranges was 11°.8, being 1°.8 less than the average for the 65 years, 1841-1905.

The mean for the month was 40°.3, being 1°.6 lower than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S				Robin-son's				
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
Mar. 1	10.5	0.98	10.5	0.98	NW: WNW	WNW: W: WSW	4.6	0.47	354	b	b m ₀ b Ci	b Ci bc Stcu	b x m
2	10.7	1.00	9.8	0.91	WSW: W	NW: Calm	0.3	0.04	171	b x m	b bc Stcu y	bc Stcu b y	b ff x
3	3.7	0.34	2.0	0.18	Calm	E: ENE	1.3	0.13	190	b ff x	b f b Cist so-ha	b bc Cist Ci so-ha	bc lu-ha
4	0.0	0.00	0.0	0.00	E: ENE	ENE	10.7	1.19	431	c	c Ast	c Nbst s ₀ ss	ss c
5	0.0	0.00	0.0	0.00	ENE	ENE: NE	5.8	1.05	429	c	c Nbst 1h	h c Nbst h rs	h rs ss
6	2.6	0.24	0.5	0.04	NNE	N	..	..	273	ss c	c Ast Stcu	c Stcu	c lu-ha
7	5.5	0.51	4.3	0.40	NNW: Calm	Calm: S	..	..	130	c b x	b f bc Prcu m	bc c Stcu b m	b x
8	4.1	0.40	3.9	0.38	SSW	SW: WSW	2.1	0.14	244	c	c Nbst 1r ₀ s ₀	c bc c Prcu	c
9	0.0	0.00	0.0	0.00	SW	S: SSE: SE	1.9	0.07	181	c b f	b f bc Prcu Ci	bc Acu Ci y c	c r s
10	0.0	0.00	0.0	0.00	ESE: Calm	Calm: Var.	2.0	0.09	157	rs rr o	o St ff	c Nbst d ₀ F rr f	rr o r f
11	0.0	0.00	0.0	0.00	Calm: NNW	NNW: N: NNE	4.2	0.22	270	rr f c	c Stcu m ₀	c Stcu m ₀	c m ₀
12	0.0	0.00	0.0	0.00	ENE: E	ESE: SE	1.0	0.08	222	c m ₀	c Stcu	c Nbst r ₀ r ₀	r ₀ rr c
13	0.0	0.00	0.0	0.00	S: SSW	SSW	3.5	0.25	322	c rr c	c rr c Nbst 1r	c Nbst 1r d ₀	c 1r d ₀
14	10.3	1.00	9.3	0.91	WSW: N: NNE	NNE	1.5	0.14	257	c d ₀	c h s c Nbst	c Nbst	b
15	0.0	0.00	0.0	0.00	Calm	SSE	3.3	0.19	200	b x c f	c Stcu f c	c Stcu s ₀ s	ss rr
16	7.4	0.76	7.0	0.72	S: SSW	SSW: SW: WSW	35.0	3.07	627	rr c	c Cist Acu so-ha	c Cist so-ha c r c gale	c gale b
17	1.3	0.14	1.1	0.11	SW: SSW	S: SSE: ESE	15.0	0.50	285	b	c Ast Prcu	c b c Cu Acu	c r d ₀
18	1.8	0.19	1.3	0.14	Calm: SSW	SW: SSW	9.0	0.62	344	c b c	c Prcu Ci	bc c Prst Ci	c p bc
19	0.0	0.00	0.0	0.00	SSW	SW: WSW	9.0	0.65	403	bc c	c r c r c Nbst	c Nbst 1r bc	bc c
20	0.0	0.00	0.0	0.00	WNW	W: WSW: SW	3.8	0.22	301	c	c bc Stcu Prcu	c Ast Stcu	c 1r
21	9.1	0.94	8.5	0.88	SSW: SW	SW	9.0	0.82	419	c 1r	1r c Nbst r	r ₀ c Prst D ₀	b
22	3.7	0.40	3.0	0.33	SSW	SW: SSW	7.0	0.77	421	b x c	c Nbst r r ₀	r ₀ bc Ci Acu so-ha c p	b c r b
23	8.2	0.89	8.1	0.87	SW	SW: SSW	16.0	1.97	563	b c p	c p bc Prcu	bc c Nbst p c	c b
24	9.3	1.00	9.3	1.00	SSW: W	WNW: NNW	9.7	0.60	376	b c	c r ₀ d ₀ c Nbst	c Stcu r ₀ c rs	c b
25	4.5	0.49	2.6	0.28	WSW	SW: SSW	4.3	0.26	302	b x	b bc Cu y	bc c Ci Cu y	bc b
26	0.0	0.00	0.0	0.00	SSW	S	6.7	0.82	371	b c	c d ₀ c Stcu y	c Stcu y c r ₀	r c
27	2.0	0.22	1.1	0.12	SSE: S	S: SSW	1.3	0.09	218	c 1r	1r c Ast	c Stcu Prst 1r ₀	c rr c
28	0.0	0.00	0.0	0.00	S: Calm	Calm: E	0.4	0.00	141	c b c d ₀	c Stcu Acu D ₀	c Stcu Acu D ₀	c d ₀
29	0.0	0.00	0.0	0.00	E: Calm	Calm: S	0.7	0.02	151	c r c m	c Nbst r ₀ d ₀ r ₀	Nbst r RR	RR
30	4.6	0.53	4.3	0.49	SSW: SW	SSW	4.7	0.49	351	R 1r ₀	1r c Prcu	c Stcu Prcu bc	b c
31	5.0	0.57	3.3	0.38	S: SSW	SW: SSW	2.0	0.10	242	c	c Nbst r ₀ r r ₀	c Nbst 1d ₀ r	r c lu-ha bc
Means	3.4	0.34	2.9	0.29	..	..	..	0.52	301				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 38°.4, being 1°.0 lower than
 The mean *Temperature of the Dew Point* for the month was 35°.6, being the same as
 The mean *Degree of Humidity* for the month was 82.6, being 4.5 greater than
 The mean *Elastic Force of Vapour* for the month was 0.208 in., being 0.001 in. less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.9.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.144. The maximum daily amount of *Sunshine* was 7.6 hours on March 9.
 The highest reading of the *Solar Radiation Thermometer* was 115°.7 on March 23; and the lowest reading of the *Terrestrial Radiation Thermometer* was 11°.8 on March 3.
 The *Proportions of Wind* referred to the cardinal points were N.12, E.15, S.38, W.22, calm or nearly calm conditions 13, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 35.0 lbs. on the square foot on March 16. The mean daily *Horizontal Movement of the Air* for the month was 301 miles; the greatest daily value was 627 miles on March 16, and the least daily value was 130 miles on March 7.
Rain (0.005 in. or over) fell on 26 days in the month, amounting to 5.216 in., as measured by gauge No.6 partly sunk below the ground; being 3.696 in. greater than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	Daily Duration of Sun-shine	Sun above Horizon
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Of the Air					Of Evaporation	Of the Dew Point	Mean	Greatest	Least		Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value					Highest in Sun's Rays	Lowest on the Grass				
APR. 1	29.277	56.2	39.2	17.0	46.9	+ 1.6	43.5	39.2	7.7	17.5	0.4	74	129.6	27.7	42.8	0.000	5.5	12.9
2	29.371	43.4	36.3	7.1	41.0	- 4.7	40.4	39.5	1.5	2.8	0.0	95	54.2	30.0	42.8	0.260	0.0	12.9
3	29.372	47.9	36.2	11.7	41.6	- 4.4	40.6	39.3	2.3	7.7	0.8	91	73.7	35.6	43.0	0.082	0.0	13.0
4	29.380	44.8	38.2	6.6	41.5	- 4.7	39.8	37.4	4.1	12.9	1.7	85	70.7	32.0	43.0	0.257	1.6	13.1
5	29.897	50.9	35.8	15.1	44.3	- 2.0	41.4	37.4	6.9	14.4	2.0	76	91.5	28.5	43.3	0.215	2.6	13.2
6	29.677	53.6	46.7	6.9	49.5	+ 3.2	46.1	42.0	7.5	13.2	4.2	75	84.8	41.0	43.2	0.009	0.0	13.2
7	29.815	59.6	44.7	14.9	50.9	+ 4.6	45.8	39.4	11.5	27.3	2.7	65	114.4	39.0	43.3	0.030	5.4	13.3
8	29.671	52.2	39.6	12.6	47.7	+ 1.6	44.1	39.5	8.2	14.9	2.7	73	107.7	34.0	43.4	0.025	1.6	13.3
9	30.231	48.8	34.4	14.4	42.0	- 4.0	37.3	29.4	12.6	20.0	3.7	61	107.6	25.5	43.7	0.000	6.9	13.4
10	30.487	59.2	30.3	28.9	44.8	- 1.1	39.6	31.5	13.3	24.5	0.0	59	118.1	20.2	43.8	0.000	10.3	13.5
11	30.385	61.4	33.2	28.2	47.3	+ 1.5	41.3	32.3	15.0	30.6	0.8	55	124.1	23.1	43.8	0.000	11.4	13.5
12	30.326	61.4	37.6	23.8	49.0	+ 3.1	43.1	34.9	14.1	28.4	2.1	58	118.6	25.1	43.9	0.000	6.5	13.6
13	30.231	63.7	37.7	26.0	50.0	+ 3.9	44.7	37.8	12.2	23.3	2.1	63	124.1	22.9	44.0	0.000	10.4	13.7
14	30.109	66.7	42.2	24.5	54.0	+ 7.6	47.4	39.5	14.5	33.3	5.4	58	131.2	25.4	44.2	0.000	8.5	13.7
15	30.186	62.6	49.3	13.3	54.8	+ 8.0	51.2	47.7	7.1	13.9	2.7	76	122.6	39.0	44.4	0.000	4.8	13.8
16	30.068	71.9	42.5	29.4	57.7	+10.5	51.5	45.2	12.5	29.9	0.7	63	133.7	29.4	44.8	0.000	11.7	13.9
17	29.983	64.0	42.1	21.9	51.8	+ 4.2	47.4	42.4	9.4	20.3	2.4	70	120.6	29.5	45.0	0.000	8.5	13.9
18	29.901	62.0	41.9	20.1	50.8	+ 2.8	47.1	42.8	8.0	15.2	2.4	74	123.7	38.4	45.3	0.000	8.6	14.0
19	29.796	57.8	43.2	14.6	50.1	+ 1.8	47.1	43.6	6.5	12.0	1.8	79	105.5	35.1	45.3	0.000	0.6	14.1
20	29.684	57.6	41.2	16.4	49.9	+ 1.4	47.1	43.9	6.0	11.2	1.1	80	106.0	31.5	45.7	0.032	1.7	14.1
21	29.730	56.9	45.9	11.0	51.8	+ 3.1	47.5	42.6	9.2	13.9	3.1	70	105.1	39.5	45.8	0.000	4.6	14.2
22	29.559	59.3	45.3	14.0	50.8	+ 2.1	46.5	41.5	9.3	18.4	2.2	70	123.0	39.0	45.9	0.105	5.5	14.2
23	29.509	52.4	42.4	10.0	47.9	- 0.7	44.7	40.7	7.2	14.3	2.1	76	73.2	34.9	45.8	0.213	2.2	14.3
24	29.863	59.0	45.7	13.3	51.7	+ 3.1	45.1	36.4	15.3	28.3	3.9	56	123.3	39.2	46.2	0.000	10.2	14.4
25	29.959	67.6	42.1	25.5	56.3	+ 7.7	50.2	43.6	12.7	23.4	1.3	63	129.0	32.0	46.3	0.000	6.5	14.4
26	30.096	63.3	44.5	18.8	53.8	+ 5.2	46.7	37.9	15.9	26.4	6.2	54	127.6	36.0	46.3	0.000	10.2	14.5
27	29.949	61.9	35.5	26.4	51.1	+ 2.4	44.7	36.2	14.9	30.8	2.2	57	120.1	24.9	46.3	0.000	6.1	14.6
28	29.844	59.8	47.2	12.6	52.4	+ 3.6	45.9	37.7	14.7	29.6	5.6	57	129.4	39.0	46.7	0.018	4.3	14.6
29	29.887	63.5	41.4	22.1	51.3	+ 2.3	45.7	38.6	12.7	26.8	3.3	62	133.5	31.9	46.9	0.109	9.1	14.7
30	29.606	48.4	41.5	6.9	44.5	- 4.6	42.4	39.6	4.9	8.5	2.8	83	87.5	35.8	46.8	0.158	0.8	14.7
Means	29.862	57.9	40.8	17.1	49.2	+ 2.0	44.9	39.3	9.9	19.8	2.4	69.3	110.5	32.2	44.7	Sum 1.513	5.5	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 29.862 in., being 0.107 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 71° 9 on April 16; the lowest in the month was 30° 3 on April 10; and the range was 41° 6.

The mean of all the highest daily readings in the month was 57° 9, being 1° 8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 40° 8, being 1° 3 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17° 1, being 0° 5 greater than the average for the 65 years, 1841-1905.

The mean for the month was 49° 2, being 2° 0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Move-ment of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
Apr. 1	1.9	0.22	1.6	0.18	SSW: SW	SW: SSW	0.4	0.03	167	bc	b bc Cumb Cu	c Cumb Prcu y	bc w
2	0.0	0.00	0.0	0.00	NNE: ENE	ENE	2.7	0.06	189	c f	f c St id _o m	c Nbst do d rr m	rr d d _o m
3	0.2	0.02	0.2	0.02	ENE: E	E	2.6	0.14	234	d d _o m f	d d _o f c Stcu	c Ast Acu r _o c r	rr c
4	0.0	0.00	0.0	0.00	NE: N	N	7.0	0.74	354	c rr	c St	c Stcu b	c
5	0.0	0.00	0.0	0.00	Calm: SSW	SSW: SW	20.5	2.13	476	c	b bc Cist so-ha c Ast	c Ast Nbst q r	c q gale r c
6	7.9	0.93	6.5	0.76	SW: WSW	SW: WSW	11.0	1.98	548	b c	c Nbst	c Nbst r _o c	c b
7	0.0	0.00	0.0	0.00	WSW: W	WSW: SW	18.0	2.41	549	b c	c Cist Cicu y q	c Acu Ast y q	c r r _o
8	4.7	0.56	4.7	0.56	SW: WSW	WSW: W: NNW	22.0	2.82	591	r r _o c	c r _o c b Prcu gale	b Prcu gale c Ast y	b c p
9	8.5	1.00	8.5	1.00	NNW: N	N: NNE: Calm	2.7	0.19	219	c b	c Stcu y	c Stcu b y	b x
10	8.5	1.00	8.5	1.00	SE: Calm	SW: Calm	0.8	0.01	127	b x	b z _o y	b z _o y	b
11	8.5	1.00	8.5	1.00	Calm	SE: Calm	0.6	0.03	105	b x	b y	b y	b
12	8.0	1.00	8.0	1.00	Calm: NE	NE: E	2.7	0.07	149	b x z	c Acu Ci z _o y	bc Ci b z _o y	b
13	7.4	0.93	7.4	0.92	Calm	E: Calm: SSW	0.6	0.03	109	b x	b z y	b bc z _o y	bc b
14	0.6	0.07	0.3	0.04	SW: WSW	W: WSW	3.4	0.27	284	b bc x	c Acu bc Ci y	b bc Ci y	bc c
15	8.0	1.00	8.0	1.00	WSW: SW	SW	3.0	0.21	283	c	c bc Prcu	bc c Prcu Stcu	c b
16	7.9	0.99	7.9	0.99	SW: Calm: S	SSW: SW	2.7	0.10	210	b w	b y	b bc Cist Cu so-ha y	bc b
17	2.0	0.25	1.7	0.21	Calm: NE	NE: E	2.4	0.18	223	b w	b z y	b y bc Stcu	bc b c
18	1.3	0.16	1.3	0.16	E	ESE: SW	1.8	0.20	238	c w	c b	b bc Prcu	c
19	7.3	1.00	7.3	1.00	SW	SSW: SW	2.5	0.20	233	c b c	c Cu Stcu	c Nbst ir _o c bc	b
20	6.4	0.89	5.9	0.81	S: SSW	SSW: SW	13.0	1.15	428	b	b c Stcu	c Nbst r _o	r _o r _o b
21	5.5	0.75	5.5	0.75	SW	SW	27.5	2.57	635	b	b c Stcu Prcu	c Ast Prcu gale	c b q
22	7.3	1.00	7.3	1.00	SW	SW	18.3	1.90	505	b c q	c P c p _o c Nbst Prcu	p bc Prcu c q y	c b
23	3.3	0.46	2.3	0.31	SW: SSW	SSW: SW	34.5	3.27	675	b w	c Nbst ir q	c rr gale bc y q	bc
24	5.4	0.74	3.6	0.50	WSW	WSW: SW	20.5	1.86	560	bc b q	b c p _o bc Ci Cu y	bc Ci Cu so-ha y	bc b
25	5.4	0.75	4.3	0.59	SSW	SSW: SW: W	4.4	0.53	309	b c	bc Ci Cist so-ha	bc Ci so-ha b y	b
26	6.7	1.00	6.7	1.00	NW: NNW	WSW: SW	1.6	0.15	173	b c	c bc Prcu b y	b Acu y	b
27	1.7	0.25	1.2	0.18	WSW: SW	SW: WSW	8.6	0.73	351	b x	b c Ast y	c bc Ast Cist c y	c d _o c
28	6.0	0.89	5.7	0.85	WSW: W	W: NNW	10.6	1.47	499	c	c p bc Cu y	bc Prcu Cu c y	bc b c
29	0.6	0.09	0.5	0.08	W: WSW	SW	9.4	0.62	383	b	b Ci Acu y	b bc Acu c r _o	ir r _o
30	2.1	0.31	1.9	0.28	WSW: NNW	NNW	14.0	1.03	402	c i r _o	c Nbst ir _o	c Cumb Ci p P	c bc c
Means	4.4	0.58	4.2	0.54	..	..	..	0.90	340				
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°.9, being 1°.0 higher than
 The mean *Temperature of the Dew Point* for the month was 39°.3, being 0°.3 lower than
 The mean *Degree of Humidity* for the month was 69.3, being 5.2 less than
 The mean *Elastic Force of Vapour* for the month was 0.241 in., being 0.003 in. less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5.9.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.401. The maximum daily amount of *Sunshine* was 11.7 hours on April 16.
 The highest reading of the *Solar Radiation Thermometer* was 133°.7 on April 16; and the lowest reading of the *Terrestrial Radiation Thermometer* was 20°.2 on April 10.
 The *Proportions of Wind* referred to the cardinal points were N.9, E.13, S.30, W.34, calm or nearly calm conditions 14, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 34.5 lbs. on the square foot on April 23. The mean daily *Horizontal Movement of the Air* for the month was 340 miles; the greatest daily value was 675 miles on April 23, and the least daily value was 105 miles on April 11.
Rain (0.005 in. or over) fell on 13 days in the month, amounting to 1.513 in., as measured by gauge No. 6 partly sunk below the ground; being 0.053 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Mean	Great-est	Least		Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years							Mean of 24 Hourly Values	Deducted Mean Daily Value					Highest in Sun's Rays	Lowest on the Grass
May 1	29.872	50.8	40.7	10.1	43.8	- 5.5	41.5	38.4	5.4	10.7	2.8	81	100.6	35.2	46.8	0.060	1.8	14.8
2	29.752	46.6	40.0	6.6	42.7	- 6.8	40.8	38.0	4.7	6.4	1.6	84	72.8	36.8	46.8	0.025	0.0	14.8
3	29.586	66.0	44.4	21.6	55.0	+ 5.2	49.4	43.3	11.7	27.3	1.9	65	134.1	41.4	47.0	0.184	11.2	14.9
4	29.663	56.6	42.5	14.1	50.2	+ 0.2	48.3	46.2	4.0	10.0	1.4	87	119.0	35.0	46.9	0.251	3.0	14.9
5	29.803	63.6	40.3	23.3	52.6	+ 2.3	47.9	42.6	10.0	19.7	0.7	69	134.6	31.7	47.2	0.008	6.0	15.0
6	29.895	65.3	45.0	20.3	54.5	+ 4.0	51.4	48.4	6.1	14.0	1.0	80	108.3	36.3	47.2	0.033	4.1	15.1
7	29.860	73.0	48.3	24.7	60.5	+ 9.8	53.8	47.4	13.1	26.4	2.1	62	138.2	37.5	47.7	0.000	12.0	15.1
8	29.757	70.8	52.2	18.6	60.8	+ 9.8	55.5	50.9	9.9	17.3	3.4	70	128.0	45.1	47.7	0.000	1.0	15.2
9	29.703	75.3	50.8	24.5	63.1	+11.9	56.7	51.2	11.9	20.1	2.6	66	129.7	39.5	48.0	0.000	5.1	15.2
10	29.749	61.4	47.0	14.4	57.0	+ 5.5	53.6	50.5	6.5	11.8	2.0	79	98.1	37.0	48.1	0.000	0.1	15.3
11	29.894	68.9	43.8	25.1	56.8	+ 5.0	50.7	44.3	12.5	24.5	1.5	63	136.0	31.6	48.6	0.000	9.2	15.4
12	29.879	66.0	52.5	13.5	58.2	+ 6.1	54.1	50.5	7.7	10.9	2.2	76	117.0	41.1	48.7	0.001	1.2	15.4
13	29.743	80.3	51.8	28.5	65.6	+13.2	60.2	56.1	9.5	20.7	0.6	72	132.2	47.1	49.0	0.098	6.1	15.5
14	29.571	81.1	48.3	32.8	64.3	+11.7	56.8	50.4	13.9	26.0	2.4	61	142.1	45.1	49.3	0.038	8.9	15.5
15	29.762	63.7	46.4	17.3	53.3	+ 0.5	48.6	43.4	9.9	24.4	3.8	69	123.2	43.0	49.6	0.099	7.4	15.6
16	29.842	61.5	45.9	15.6	52.8	- 0.2	49.5	46.0	6.8	15.4	1.8	78	115.6	38.9	49.7	0.156	4.4	15.6
17	29.784	65.2	41.8	23.4	54.2	+ 1.1	49.3	44.0	10.2	22.3	0.6	69	129.3	31.1	50.0	0.000	9.7	15.7
18	29.709	60.2	44.3	15.9	52.3	- 1.0	49.8	47.2	5.1	10.4	1.3	83	100.1	34.8	50.0	0.073	1.6	15.7
19	29.877	62.2	48.0	14.2	53.8	+ 0.3	50.3	46.8	7.0	12.0	4.0	77	108.3	45.5	50.0	0.000	0.7	15.8
20	30.051	51.6	46.6	5.0	49.5	- 4.3	47.2	44.7	4.8	7.4	2.2	83	69.6	45.0	50.1	0.000	0.0	15.8
21	30.129	55.7	47.8	7.9	51.2	- 3.0	48.9	46.5	4.7	6.4	1.9	84	72.8	46.4	50.3	0.000	0.0	15.9
22	30.004	62.7	47.6	15.1	53.1	- 1.5	50.1	46.9	6.2	16.6	1.0	80	123.0	43.3	50.3	0.000	6.2	15.9
23	29.685	62.2	45.4	16.8	53.1	- 1.8	51.0	49.0	4.1	8.5	1.6	85	95.0	41.1	50.3	0.070	0.5	16.0
24	29.560	69.7	47.0	22.7	58.6	+ 3.3	53.2	48.0	10.6	20.8	0.7	68	147.3	35.1	50.4	0.012	9.9	16.0
25	29.680	68.4	52.5	15.9	59.7	+ 4.2	54.5	49.8	9.9	18.7	1.6	70	144.3	43.1	50.6	0.005	9.0	16.0
26	29.739	75.3	52.0	23.3	63.3	+ 7.5	57.5	52.7	10.6	17.7	2.9	69	141.1	42.8	50.8	0.055	7.9	16.1
27	29.949	70.8	50.9	19.9	60.6	+ 4.6	55.4	50.9	9.7	19.8	1.4	70	138.9	39.7	51.0	0.015	8.9	16.1
28	29.995	74.7	47.7	27.0	62.2	+ 6.0	55.5	49.4	12.8	27.2	1.2	63	142.6	32.9	51.3	0.000	14.8	16.1
29	29.938	85.1	53.6	31.5	71.0	+14.6	62.2	55.8	15.2	27.4	2.7	59	145.3	41.4	51.8	0.000	14.3	16.2
30	29.914	85.7	58.5	27.2	71.9	+14.2	63.3	57.3	14.6	26.2	2.3	60	144.8	46.5	52.0	0.000	13.7	16.2
31	29.808	87.8	55.8	32.0	72.6	+15.5	62.7	55.5	17.1	35.2	1.7	55	145.7	40.9	52.3	0.000	11.7	16.3
Means	29.811	67.4	47.7	19.6	57.4	+ 4.3	52.6	48.1	9.2	18.1	1.9	72.2	121.9	39.7	49.3	Sum 1.183	6.1	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 29.811 in., being 0.010 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 87°.8 on May 31; the lowest in the month was 40°.0 on May 2; and the range was 47°.8.

The mean of all the highest daily readings in the month was 67°.4, being 5°.2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 47°.7, being 3°.5 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 19°.6, being 1°.6 greater than the average for the 65 years, 1841-1905.

The mean for the month was 57°.4, being 4°.3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Move-ment of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
hours		hours				lbs.	lbs.	miles	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h	
May 1	0.6	0.09	0.3	0.05	NNW:N: NNE	NNE: NE	3.5	0.33	318	b c 1r	1r c Ast Nbst	c Cumb Acu p c h t c	bc c
2	0.0	0.00	0.0	0.00	NE	NE: ENE	14.6	1.95	593	c	c Nbst 1r	c Nbst 1r c	c r c
3	0.0	0.00	0.0	0.00	E: SE: S	SSE: SE: ESE	10.6	0.87	336	c 1R	c b Prcu y	b bc Ci so-ha y	b c
4	6.3	1.00	6.3	1.00	E: Calm: SW	SSW: SSE	1.3	0.09	156	c r o c	c Nbst rr	rr c bc	b
5	4.1	0.65	4.1	0.65	SSE: Calm: S	S: SE	3.0	0.23	228	b w	b c Cu Prcu y	c Stcu y	bc c r b
6	4.8	0.77	4.5	0.72	SSE: Calm	S: Calm	1.4	0.04	151	b c	c Nbst r id _o	1r _o bc Prcu Ci prhn	bc b
7	4.4	0.74	2.6	0.41	Calm: SSE	SE: E	4.0	0.27	215	b w	b Acu y	bc Cist so-ha y	bc
8	4.3	0.69	3.8	0.61	Calm: SSW	SW: Calm	2.2	0.06	150	bc c	c Acu Nbst p _o	c Ast Frst y	c b
9	2.8	0.45	2.3	0.38	Calm: NE: ENE	E: SE: SSW	3.0	0.18	193	b c	c b bc Cist y	bc Cist so-ha c y	c
10	5.7	0.99	5.7	0.99	Calm: WSW	WSW	1.2	0.09	200	c b c prhn	c Acu Nbst 1r _o	c Stcu	bc b
11	1.8	0.31	1.1	0.19	WSW: W	Calm	0.6	0.03	109	b w	b bc Ci so-ha y	c Ast Frst y	c r _o c
12	1.5	0.26	1.2	0.21	Calm: ENE	E	2.1	0.18	202	c 1r _o	c b c Ast Prcu	c Ast Prcu	c b
13	4.9	0.85	3.7	0.63	E: Calm	Calm: E	1.3	0.02	91	c r t l r c	c Cist Acu so-ha c r _o	c b Ci Prcu bc y	bc b
14	0.0	0.00	0.0	0.00	Calm: SSW	SW: W	2.2	0.24	228	b w c	c b Ci y	b y Cist Acu so-ha c	c r _o r _o
15	1.3	0.22	1.0	0.17	WSW	SW	2.6	0.20	264	c b	b c Acu y	c Cu Stcu y	R r c
16	4.6	0.80	4.5	0.77	WSW: Calm	Var.: Calm	1.4	0.04	133	c b	c Cu Nbst r _o c	c Nbst r t l c R c	c b
17	4.7	0.90	4.5	0.85	Calm	Calm: E: S	0.4	0.03	90	b w m c	b c Cu Prcu y	bc Cu Prcu y	bc b
18	0.0	0.00	0.0	0.00	Calm: SW	WSW: NNW	..	0.06	164	b	b c Ast Cu	c Nbst r r _o	c r _o r c
19	0.0	0.00	0.0	0.00	NNW: NW	NNW: NNE	..	0.13	205	c	c 1r _o c Ast	c Acu Ast z _o	c
20	0.0	0.00	0.0	0.00	NNE	NNE: N	..	0.11	194	c	c St	c Ast Stcu	c
21	0.0	0.00	0.0	0.00	NNE: Calm	Calm	0.0	0.00	113	c	c St	c St Frst m _o	c m _o
22	0.6	0.11	0.6	0.11	Calm: E	E	0.6	0.05	146	c m _o	c m _o bc Prcu	b y	b c m
23	4.1	0.77	3.5	0.66	ENE: Calm	Calm	0.2	0.00	86	c m	c Nbst r _o m	rr m c Nbst	c b
24	0.1	0.02	0.1	0.02	SW: Calm	S: Calm	0.8	0.05	144	b w	b bc Ci Cu y	bc c Cu y	c 1r _o
25	1.6	0.32	0.6	0.12	Calm: SW	SW: S	1.7	0.12	192	r _o c	bc c Cumb Ci	c bc Prcu y	bc
26	1.5	0.30	1.5	0.30	Calm: SW	SW	2.8	0.17	215	bc c	c Acu y	c p _o bc Acu Ci v y	b c rr
27	4.5	0.89	4.2	0.84	SW: WSW	SW: Calm	1.6	0.07	159	r b c	c bc Prcu	bc Prcu y	b
28	5.0	1.00	5.0	1.00	Calm: SE	E	2.9	0.17	196	b w	b Ci y	b y	b
29	5.0	1.00	5.0	1.00	Calm: SE	SSE: Calm	1.2	0.06	133	b w	b Ci y	b Ci y	b
30	5.0	1.00	5.0	1.00	Calm: E	E: ESE	1.5	0.07	126	b z _o	b Prcu z _o y	b y	b
31	4.5	1.00	4.5	1.00	Calm: E	SSE: Calm	1.1	0.06	110	b bc z _o	bc Ci so-ha y	bc b Ci y	b
Means	2.7	0.49	2.4	0.44	..	..	..	0.19	188				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 52°.6, being 3°.6 higher than
 The mean *Temperature of the Dew Point* for the month was 48°.1, being 3°.3 higher than
 The mean *Degree of Humidity* for the month was 72.2, being 1.7 less than
 The mean *Elastic Force of Vapour* for the month was 0.337 in., being 0.039 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.7.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.394. The maximum daily amount of *Sunshine* was 14.8 hours on May 28.
 The highest reading of the *Solar Radiation Thermometer* was 147°.3 on May 24; and the lowest reading of the *Terrestrial Radiation Thermometer* was 31°.1 on May 17.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.20, S.20, W.15, calm or nearly calm conditions 35, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 14.6 lbs. on the square foot on May 2. The mean daily *Horizontal Movement of the Air* for the month was 188 miles; the greatest daily value was 593 miles on May 2., and the least daily value was 86 miles on May 23.
Rain (0.005 in. or over) fell on 16 days in the month, amounting to 1.183 in., as measured by gauge No.6 partly sunk below the ground; being 0.732 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
June 1	29.788	87.9	59.1	28.8	75.2	+17.8	65.9	59.9	15.3	28.8	2.1	59	146.8	45.3	52.7	0.000	13.4	16.3
2	29.732	90.1	65.3	24.8	77.9	+20.1	67.3	60.7	17.2	33.0	3.3	56	150.3	49.5	53.0	0.000	11.9	16.3
3	29.639	93.0	63.6	29.4	78.0	+19.9	66.4	58.9	19.1	37.0	1.0	52	147.1	48.1	53.5	0.000	13.5	16.4
4	29.481	75.8	56.6	19.2	66.7	+ 8.4	60.0	54.9	11.8	21.5	3.9	66	139.0	46.5	53.7	0.001	9.2	16.4
5	29.402	64.4	47.8	16.6	55.9	- 2.5	52.2	48.6	7.3	21.2	0.6	76	122.9	41.0	53.8	0.045	0.5	16.4
6	29.465	61.9	45.8	16.1	53.3	- 5.0	49.5	45.5	7.8	19.1	3.2	75	107.2	36.5	53.8	0.090	6.2	16.4
7	29.709	69.0	50.2	18.8	56.7	- 1.5	52.7	48.8	7.9	16.9	1.1	75	129.1	43.2	53.9	0.263	5.5	16.5
8	29.822	66.0	48.4	17.6	56.7	- 1.4	51.8	46.9	9.8	17.7	3.8	70	135.5	39.0	54.0	0.160	6.9	16.5
9	30.026	66.8	51.2	15.6	58.5	+ 0.5	52.0	45.5	13.0	21.0	5.2	62	132.2	42.0	53.9	0.000	7.4	16.5
10	30.184	73.6	46.9	26.7	60.4	+ 2.3	52.3	44.0	16.4	26.6	3.7	55	128.8	31.8	54.0	0.000	10.8	16.5
11	29.980	72.9	46.5	26.4	61.0	+ 2.8	54.6	48.7	12.3	21.4	2.2	64	129.5	33.5	54.0	0.000	7.6	16.5
12	29.853	62.6	47.8	14.8	55.4	- 3.0	49.4	42.8	12.6	23.4	4.2	62	130.9	40.0	54.0	0.000	13.8	16.6
13	29.745	62.1	44.7	17.4	53.0	- 5.5	47.3	40.5	12.5	18.7	5.6	63	134.9	35.6	54.0	0.013	8.0	16.6
14	29.419	61.0	48.0	13.0	53.4	- 5.3	51.5	49.7	3.7	6.3	1.4	87	97.6	40.9	54.0	0.226	1.1	16.6
15	29.460	62.0	49.3	12.7	54.7	- 4.1	51.4	48.2	6.5	14.6	1.4	79	122.8	39.0	53.9	0.157	1.5	16.6
16	29.943	67.8	44.5	23.3	56.3	- 2.6	52.0	47.8	8.5	19.4	0.6	73	134.9	29.5	54.1	0.000	6.0	16.6
17	29.936	77.7	54.2	23.5	66.7	+ 7.7	59.3	53.4	13.3	22.7	3.9	62	146.6	46.2	54.3	0.000	13.5	16.6
18	29.830	68.6	55.7	12.9	62.2	+ 3.0	59.7	57.9	4.3	10.5	2.1	86	124.0	42.5	54.2	0.090	1.0	16.6
19	29.852	70.2	53.9	16.3	61.1	+ 1.6	56.0	51.6	9.5	18.5	1.2	71	142.6	43.5	54.4	0.000	8.5	16.6
20	29.784	63.5	53.7	9.8	59.1	- 0.8	56.7	54.8	4.3	6.5	2.0	86	84.7	44.7	54.4	0.010	0.0	16.6
21	29.774	72.0	53.2	18.8	61.1	+ 0.8	56.0	51.6	9.5	22.4	1.4	71	135.1	46.0	54.7	0.016	3.6	16.6
22	29.917	66.8	51.4	15.4	59.5	- 1.1	54.0	48.9	10.6	15.3	2.8	68	129.2	41.0	54.6	0.000	7.5	16.6
23	29.964	69.0	47.5	21.5	59.1	- 1.8	54.2	49.7	9.4	18.3	1.0	71	104.9	34.2	54.7	0.000	1.3	16.6
24	29.816	78.3	47.0	31.3	64.6	+ 3.4	56.5	49.6	15.0	31.4	2.0	58	138.0	33.0	54.9	0.000	11.6	16.6
25	29.774	78.2	56.1	22.1	66.6	+ 5.2	58.2	51.2	15.4	27.9	4.6	58	139.0	46.0	55.0	0.000	12.2	16.6
26	29.827	87.0	51.9	35.1	71.7	+10.2	63.4	57.6	14.1	26.4	1.8	61	147.6	40.0	55.1	0.000	12.4	16.6
27	29.875	79.8	63.7	16.1	70.9	+ 9.3	66.7	64.2	6.7	15.7	0.8	79	107.3	55.0	55.3	1.668	4.8	16.6
28	29.897	75.2	62.3	12.9	69.0	+ 7.4	66.1	64.4	4.6	9.5	1.3	85	133.3	48.9	55.9	0.066	4.2	16.6
29	29.957	71.9	59.3	12.6	65.2	+ 3.6	59.6	55.3	9.9	18.8	2.8	71	136.5	57.0	56.2	0.000	5.3	16.6
30	30.058	67.0	58.0	9.0	62.1	+ 0.6	57.7	54.2	7.9	15.9	2.4	75	98.7	54.0	56.2	0.122	0.0	16.6
Means	29.797	72.1	52.8	19.3	62.4	+ 3.0	56.7	51.9	10.5	20.2	2.4	69.2	128.6	42.4	54.3	Sum 2.927	7.0	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 29.797 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 93°.0 on June 3; the lowest in the month was 44°.5 on June 16; and the range was 48°.5.

The mean of all the highest daily readings in the month was 72°.1, being 3°.2 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 52°.8, being 2°.4 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 19°.3, being 0°.8 greater than the average for the 65 years, 1841-1905.

The mean for the month was 62°.4, being 3°.0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
June 1	4.2	0.93	3.2	0.70	Calm: SSW	SSW: SSE	1.7	0.07	137	b c	b bc Ci Cu y	bc b Acu Ci y	bc b
2	4.5	1.00	4.5	1.00	SSE: Calm	SSE: Calm	1.3	0.05	129	b	b Ci y	b c Cist so-ha y	c b
3	4.5	1.00	4.5	1.00	Calm	SSE: E	1.6	0.08	136	bc z	b Frcu y	b Frcu y	b
4	1.2	0.26	1.1	0.24	Calm: SW	SSW: S	11.0	0.52	282	b c	c q t r _o bc Cumb Ci	bc c Cumb Ci v y	c b c
5	4.5	1.00	4.5	1.00	SSE: SW: WSW	SSW: SW	13.0	0.90	389	c ir _o	r _o c r c Ast Cu y	c Nbst ir	r bc b
6	2.1	0.46	1.0	0.21	SW	W: WSW	7.1	0.76	396	b	c r _o c Nbst r	r t l c Cumb Ci p	p c
7	3.5	0.79	3.0	0.67	WSW: SW	W	7.8	0.77	407	c r	rr c Stcu	bc c Ci Frcu y	bc
8	1.5	0.33	0.7	0.16	WSW	WSW	9.0	0.96	458	bc b	c p c Frcu Ci	c Ci Cumb p P c	bc
9	4.5	1.00	4.5	1.00	WSW: W	WNW: NW: NNW	6.5	0.49	367	bc	c Stcu y	c Frcu y	bc b
10	4.5	1.00	4.5	1.00	N: Calm	Calm: S	1.0	0.05	101	b	b Ci y	b c Frcu Acu y	c b
11	0.0	0.00	0.0	0.00	S: Calm	E	3.7	0.14	171	b	b z c Stcu y	c Stcu b y	b c
12	4.5	1.00	4.5	1.00	ENE	ENE	4.5	0.62	335	c bc	bc b Frcu y	b y	b
13	0.0	0.00	0.0	0.00	NE: E	ESE	2.9	0.33	244	b bc	bc c Cist Cu y	c Cist so-ha c Acu y	c r _o c
14	0.9	0.20	0.9	0.20	Calm	SE: SSW	2.7	0.13	155	c r _o r _o d _o	c Nbst rr	r r _o c Nbst	c r _o b c r
15	4.5	1.00	4.5	1.00	SSW: NNW	WNW: WSW	4.7	0.45	279	c rr c	c Cumb p c Stcu	c Stcu	bc b
16	1.5	0.34	1.5	0.33	SW	SW: SSW	1.7	0.10	208	b bc	bc c Ast Cu	c Stcu	c b c
17	4.5	1.00	4.5	1.00	S: SSW	S: Calm	1.2	0.09	165	c b	b Cu Cicu y	b Cu Ci y	b w
18	2.2	0.49	2.2	0.49	Calm	Calm: WSW	0.5	0.02	104	b w c z _o	c Nbst r _o r _o r	rr c r c Nbst	p b c
19	2.0	0.44	1.9	0.41	WSW	SW	1.5	0.10	198	bc	bc c Stcu Frcu	c Stcu b y	b c
20	0.0	0.00	0.0	0.00	SSW	SSW: Calm	1.9	0.13	197	c d _o c	c Nbst	c Nbst r ir _o	ld c
21	2.0	0.44	2.0	0.44	Calm: WSW	NW	1.5	0.07	170	c	c b c Acu Stcu y	c Cumb t l c r c	c b
22	4.5	1.00	4.5	1.00	NNW	NNW: Calm	2.7	0.16	207	b c b	b c Cu Frcu	c Cu Stcu	c b
23	2.6	0.59	1.5	0.34	Calm: SW	SW: S	1.3	0.05	150	b c	c Ast Stcu	c Ast Stcu y	c bc b
24	1.9	0.43	1.8	0.41	Calm: S	S	3.2	0.20	192	b c	c b Acu Ci	b Frcu y	b y c
25	3.6	0.80	3.5	0.78	Calm: WSW	WSW: S: Calm	2.4	0.15	209	c b c	bc b Frcu y	b Ci c y	c bc
26	..	..	..	..	Calm: S	SSE: Calm	1.6	0.10	148	b c b	b bc Ci y	bc c Cumb Acu t y	bc y c b
27	4.5	1.00	4.5	1.00	Calm: NNW	WSW: Calm	24.0	0.08	112	c	c R t l c G Q R t l	r t l c Frcu b	b
28	1.3	0.29	1.2	0.27	Calm: ENE	Var.: WSW	1.5	0.07	166	b w	c Acu Nbst	r R t l c Ast	c b c t l
29	0.0	0.00	0.0	0.00	W	W: WSW	2.1	0.19	262	c t l c	c Frcu Stcu	bc c Cu Frcu	c
30	0.0	0.00	0.0	0.00	Calm	Calm	0.1	0.00	77	c m _o	c Ast	c Stcu	c rr
Means	2.6	0.58	2.4	0.54	..	..	..	0.26	218				
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°.7, being 1°.8 higher than
 The mean *Temperature of the Dew Point* for the month was 51°.9, being 1°.1 higher than
 The mean *Degree of Humidity* for the month was 69.2, being 4.0 less than
 The mean *Elastic Force of Vapour* for the month was 0.389 in., being 0.014 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.1.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.422. The maximum daily amount of *Sunshine* was 13.8 hours on June 12.
 The highest reading of the *Solar Radiation Thermometer* was 150°.3 on June 2; and the lowest reading of the *Terrestrial Radiation Thermometer* was 29°.5 on June 16.
 The *Proportions of Wind* referred to the cardinal points were N.7, E.12, S.28, W.27, calm or nearly calm conditions 26, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 24.0 lbs. on the square foot on June 27. The mean daily *Horizontal Movement of the Air* for the month was 218 miles; the greatest daily value was 458 miles on June 8, and the least daily value was 77 miles on June 30.
Rain (0.005 in. or over) fell on 13 days in the month, amounting to 2.927 in., as measured by gauge No.6 partly sunk below the ground; being 0.889 in. greater than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	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
	Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	Of the Air					Of Evaporation	Of the Dew Point	Mean	Greatest	Least		Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years							Highest in Sun's Rays	Lowest on the Grass				
July 1	in. 30.041	° 67.1	° 55.2	° 11.9	° 61.8	+ 0.3	° 58.1	° 55.2	° 6.6	° 12.5	° 1.3	79	° 107.0	° 49.2	° 56.4	in. 0.003	hours 0.1	hours 16.6
2	29.974	73.8	56.8	17.0	64.2	+ 2.6	59.3	55.5	8.7	14.7	2.0	74	134.8	50.5	56.6	0.017	1.6	16.6
3	29.898	72.7	56.4	16.3	64.7	+ 2.9	60.0	56.5	8.2	15.6	1.8	75	138.0	47.0	56.6	0.000	4.7	16.5
4	29.764	76.4	55.8	20.6	63.7	+ 1.6	58.6	54.5	9.2	22.8	1.5	72	146.0	41.9	56.7	0.107	4.8	16.5
5	29.606	64.6	51.5	13.1	59.3	- 3.0	52.8	46.5	12.8	23.3	4.6	62	121.3	42.5	56.5	0.009	7.1	16.5
6	29.693	65.9	48.3	17.6	57.1	- 5.3	52.3	47.7	9.4	16.9	2.4	71	136.3	38.2	56.7	0.003*	2.8	16.5
7	29.494	69.8	51.8	18.0	59.6	- 2.8	53.8	48.4	11.2	25.1	3.3	67	139.5	45.0	56.8	0.040	8.4	16.5
8	29.399	64.7	50.4	14.3	56.8	- 5.6	52.4	48.2	8.6	16.9	1.0	72	124.1	42.5	56.8	0.120	4.7	16.4
9	29.358	68.0	51.1	16.9	57.0	- 5.4	53.3	49.8	7.2	17.7	1.8	77	143.9	44.6	56.7	0.130	6.1	16.4
10	29.440	62.0	52.2	9.8	56.3	- 6.2	54.5	53.1	3.2	7.5	1.4	88	99.2	44.1	56.6	0.132	0.1	16.4
11	29.565	66.1	51.9	14.2	57.9	- 4.8	53.4	49.3	8.6	15.9	1.6	72	110.1	49.0	56.7	0.039	1.5	16.3
12	29.915	71.3	48.8	22.5	60.3	- 2.6	54.5	49.3	11.0	20.9	1.1	67	142.9	38.1	56.8	0.001*	9.2	16.3
13	30.085	77.6	56.2	21.4	66.5	+ 3.4	62.4	59.6	6.9	14.6	2.7	79	137.4	47.4	56.7	0.000	3.2	16.3
14	30.071	81.0	60.8	20.2	69.0	+ 5.7	64.4	61.5	7.5	17.6	1.6	77	133.0	49.0	56.8	0.000	3.6	16.3
15	29.880	77.7	61.4	16.3	68.8	+ 5.4	63.4	59.8	9.0	17.3	1.4	73	136.1	53.7	57.0	0.000	11.5	16.2
16	29.726	83.2	61.4	21.8	70.5	+ 7.1	64.9	61.3	9.2	20.9	1.7	72	139.3	52.4	57.1	0.010	6.3	16.2
17	29.815	67.8	60.6	7.2	64.5	+ 1.1	62.3	60.8	3.7	6.3	1.2	88	101.7	57.7	57.2	0.415	0.0	16.1
18	29.772	72.6	60.2	12.4	65.7	+ 2.4	62.9	61.0	4.7	9.8	0.7	85	94.9	50.6	57.3	0.101	0.1	16.1
19	29.670	77.0	57.7	19.3	64.3	+ 1.1	61.5	59.5	4.8	18.3	0.0	85	145.7	52.5	57.7	0.091	3.4	16.1
20	29.709	74.8	56.4	18.4	62.6	- 0.6	57.1	52.5	10.1	19.8	3.1	70	134.6	53.8	57.7	0.000	4.2	16.0
21	29.753	74.5	57.5	17.0	66.5	+ 3.3	60.7	56.4	10.1	15.3	4.4	70	142.5	51.4	57.8	0.000	1.3	16.0
22	29.872	78.5	61.0	17.5	69.5	+ 6.4	64.0	60.4	9.1	16.9	2.3	73	142.4	52.4	57.9	0.000	11.5	16.0
23	29.955	78.9	56.7	22.2	67.2	+ 4.2	60.8	56.1	11.1	19.5	2.0	68	143.1	45.9	58.3	0.000	4.8	15.9
24	29.958	78.0	53.5	24.5	65.9	+ 3.0	59.9	55.3	10.6	20.5	1.9	69	136.9	38.7	58.2	0.000	6.2	15.9
25	29.899	86.6	58.4	28.2	71.6	+ 8.9	63.8	58.5	13.1	25.5	2.3	64	144.1	46.4	58.5	0.000	6.5	15.8
26	29.894	86.3	63.9	22.4	74.8	+12.3	67.7	63.5	11.3	23.2	1.7	68	150.2	53.6	58.6	0.000	12.8	15.8
27	29.890	84.9	62.8	22.1	73.2	+10.8	67.2	63.6	9.6	23.4	1.5	72	144.2	49.5	58.7	0.000	10.2	15.7
28	29.810	90.2	65.1	25.1	76.3	+14.0	70.2	66.9	9.4	23.1	2.2	73	148.3	58.7	59.0	0.018	5.5	15.7
29	29.819	82.4	67.2	15.2	73.5	+11.2	66.1	61.5	12.0	21.1	3.6	66	140.1	60.3	59.1	0.000	10.2	15.6
30	29.936	70.9	60.2	10.7	65.9	+ 3.6	62.3	59.9	6.0	9.8	2.6	81	109.7	55.0	59.2	0.007	0.9	15.6
31	29.938	75.4	60.0	15.4	65.9	+ 3.7	60.7	56.9	9.0	19.4	2.6	73	134.9	53.0	59.5	0.000	6.4	15.5
Means	29.794	74.9	57.1	17.7	65.2	+ 2.5	60.2	56.4	8.8	17.8	2.0	73.6	132.3	48.9	57.5	Sum 1.243	5.2	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.

* Rainfall (Column 16). The amounts entered on July 6 and 12 are derived from dew.

The mean reading of the *Barometer* for the month was 29.794 in., being 0.012 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 90°.2 on July 28; the lowest in the month was 48°.3 on July 6; and the range was 41°.9.

The mean of all the highest daily readings in the month was 74°.9, being 2°.8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily reading in the month was 57°.1, being 3°.3 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 17°.7, being 0°.6 less than the average for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robinson's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
July 1	0.0	0.00	0.0	0.00	Calm: N	NNW: Calm	0.5	0.02	99	c m ₀	c Stcu Acu	c r ₀ c Ast	c
2	2.3	0.52	2.2	0.49	WSW	WSW: SW	1.2	0.07	180	c r r ₀	r r ₀ c Ast	c Acu	c b c
3	4.5	1.00	4.5	1.00	Calm: SW	WSW: SW	1.0	0.05	169	c bc w	bc c Cu Frcu	c Stcu	c b
4	0.0	0.00	0.0	0.00	Calm: SW	SW: SSW	2.0	0.14	210	b w c	c bc c Ast Ci y	c Ci Ast y	c ir
5	4.4	0.93	4.4	0.92	SW: WNW	W: WSW	8.5	0.93	423	c r ₀ c	c bc c Cu v y	c Stcu v y	bc b
6	..	..	..	..	WSW	WSW: SW	4.7	0.47	307	b w c	c Acu Stcu y	c bc c Stcu y	c d c
7	4.3	0.91	4.3	0.91	SW: WSW	SW	6.8	0.81	373	c	c ir c Frcu v	bc y Cu v	bc b w
8	1.8	0.38	1.3	0.26	SSW: SW	SW	8.5	1.13	417	b w c	c p ₀ c Cu Ast	c Nbst p	c r ₀ r
9	2.6	0.54	2.3	0.48	SW: W	WSW	6.0	0.18	223	c	c Cu Cumb p ₀	c Cumb Ast R t l p	c bc
10	0.0	0.00	0.0	0.00	WSW: SW	- SW: WSW	4.6	0.36	305	c ir ₀	c Nbst ir	c Nbst ir c	c
11	3.4	0.71	3.3	0.69	WSW	WSW: W	3.0	0.44	340	c r c	c Nbst	c Ast y	c
12	2.0	0.38	1.9	0.36	WSW	WSW: SW	1.6	0.10	191	b w	c ir c Frcu y	c Stcu y	c b c
13	4.7	0.90	4.7	0.89	SW: WSW: W	W: Calm	0.6	0.04	136	c	c d ₀ c Acu	c Acu Cu	bc c b
14	2.6	0.50	2.2	0.41	Calm	SE: E	1.4	0.06	117	b w c	c m c Stcu	c Stcu Cu b	b c
15	3.8	0.73	3.2	0.61	E	ESE: Calm	2.4	0.20	202	c	b	b c b	b bc
16	1.3	0.25	1.2	0.23	Calm	WSW: W: NNW	2.0	0.08	149	bc w m ₀	bc Cu z ₀	bc c Frcu Ci	c r t l b c
17	0.0	0.00	0.0	0.00	N: Calm	N: Calm	0.5	0.02	121	c t l r r m ₀	r c Nbst m ₀	c Nbst ir ₀ m ₀	c ir ₀ m ₀
18	0.6	0.12	0.6	0.11	Calm	Calm	0.3	0.00	51	c r ₀ c m ₀	c Stcu m ₀	c Nbst t l r m ₀	bc m c f
19	0.0	0.00	0.0	0.00	Calm	Var.	1.0	0.02	104	c ff	bc c t m ₀	c Nbst Cumb r ₀	r r ₀ c
20	0.9	0.15	0.8	0.13	WSW	SSW	1.6	0.08	171	c	c Stcu	c bc Stcu	bc c
21	1.8	0.32	1.8	0.32	S: SSE	S: SSE	3.4	0.17	195	c	c Nbst r ₀	c Ast ir ₀ c	c b
22	5.4	0.94	5.0	0.87	Calm: SSW	SSW: SW	1.4	0.08	164	bc	bc c Cu b	b Cu	b l
23	5.7	1.00	5.7	1.00	Calm: WSW	WSW: W	2.0	0.07	141	b l w c	c p ₀ c Acu Ci y	c Cu Cu p ₀ c	c b
24	3.1	0.54	3.0	0.53	Calm	SSW: Calm	0.5	0.02	104	b w	b c Cist m ₀	c Cist so-ha c b y	bc
25	2.6	0.45	2.3	0.39	Calm	WSW: W: Calm	1.2	0.04	115	c	c bc Acu y	b Cu Ci c y	c
26	6.0	1.00	6.0	1.00	WSW: Calm	WSW: SW: Calm	1.0	0.07	158	b c b	b bc Cu Frcu	bc Cu y	bc b
27	5.6	0.93	5.6	0.93	Calm: ENE	E	2.2	0.19	187	b	b bc c Stcu p ₀ y	c Cu b y	b bc b
28	2.3	0.37	1.9	0.32	Calm: E: Var.	Var.	2.1	0.13	191	b c	c b c Stcu y	c Stcu	r ₀ c t l r
29	4.3	0.72	4.2	0.69	NNW: W	NW: NNW: N	1.2	0.09	174	t l c	c b Frcu	b bc Frcu Cu y	bc b
30	1.7	0.28	1.3	0.22	NE: ENE	ENE: E	1.9	0.13	224	b c m	c St m ₀	c Acu m ₀ p	c
31	4.5	0.75	4.1	0.69	ENE	E	1.3	0.15	211	bc c	c Frcu	b Frcu y	bc
Means	2.7	0.51	2.6	0.48	..	..	..	0.20	198				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 60°.2, being 2°.3 higher than
 The mean *Temperature of the Dew Point* for the month was 56°.4, being 2°.3 higher than
 The mean *Degree of Humidity* for the month was 73.6, being 0.4 greater than
 The mean *Elastic Force of Vapour* for the month was 0.459 in., being 0.038 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.9.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.319. The maximum daily amount of *Sunshine* was 12.8 hours on July 26.
 The highest reading of the *Solar Radiation Thermometer* was 150°.2 on July 26; and the lowest reading of the *Terrestrial Radiation Thermometer* was 38°.1 on July 12.
 The *Proportions of Wind* referred to the cardinal points were N.7, E.12, S.21, W.31, calm or nearly calm conditions 29, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 8.5 lbs. on the square foot on July 5 and 8. The mean daily *Horizontal Movement of the Air* for the month was 198 miles; the greatest daily value was 423 miles on July 5, and the least daily value was 51 miles on July 18.
Rain (0.005 in. or over) fell on 14 days in the month, amounting to 1.243 in., as measured by gauge No.6 partly sunk below the ground; being 1.156 in. less than the average fall for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (Corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point					Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Mean of 24 Hourly Values	Deducted Mean Daily Value	Mean		Greatest	Least					Highest in Sun's Rays	Lowest on the Grass
Aug. 1	29.990	77.0	57.2	19.8	66.3	+ 4.1	60.9	56.9	9.4	19.8	1.8	72	137.0	47.7	59.7	0.009	6.5	15.5
2	29.889	73.0	62.2	10.8	65.6	+ 3.5	60.2	56.1	9.5	19.1	1.7	72	134.4	52.0	59.5	0.045	1.8	15.4
3	29.858	79.8	59.0	20.8	69.0	+ 6.9	62.1	57.2	11.8	25.4	1.4	66	140.7	47.1	59.7	0.000	10.5	15.4
4	29.637	78.3	57.9	20.4	67.3	+ 5.2	60.5	55.4	11.9	23.2	3.7	66	135.2	45.7	59.7	0.001*	5.5	15.3
5	29.531	70.0	59.2	10.8	63.0	+ 0.9	59.2	56.3	6.7	13.3	2.1	79	123.5	49.0	59.5	0.032	1.3	15.3
6	29.735	73.8	57.6	16.2	64.9	+ 2.7	58.7	53.8	11.1	21.1	3.5	67	134.9	50.9	59.5	0.000	3.6	15.2
7	29.900	71.0	53.0	18.0	62.4	+ 0.2	54.2	46.3	16.1	24.8	6.2	55	136.7	42.0	59.5	0.000	4.6	15.1
8	29.913	76.8	46.8	30.0	62.2	- 0.1	54.9	48.2	14.0	25.8	1.6	60	120.1	33.2	59.5	0.000	11.4	15.1
9	29.834	75.7	52.0	23.7	63.6	+ 1.3	56.9	51.2	12.4	24.9	1.5	64	132.3	36.3	59.6	0.000	11.7	15.0
10	29.871	70.0	53.6	16.4	61.8	- 0.5	57.2	53.5	8.3	16.6	1.3	74	115.5	37.8	59.3	0.000	3.3	15.0
11	29.989	75.6	54.2	21.4	64.0	+ 1.6	58.8	54.7	9.3	20.0	1.3	72	134.2	40.4	59.3	0.000	6.3	14.9
12	30.036	77.8	54.2	23.6	64.8	+ 2.3	58.7	53.9	10.9	25.7	1.3	68	137.0	37.6	59.6	0.000	9.6	14.9
13	30.025	80.8	54.2	26.6	67.5	+ 5.0	60.3	54.8	12.7	28.0	1.6	64	140.0	40.0	59.6	0.000	12.4	14.8
14	30.017	82.2	57.7	24.5	68.3	+ 5.8	62.1	57.7	10.6	29.4	0.3	69	136.5	46.2	59.4	0.001*	8.7	14.7
15	29.973	88.0	59.4	28.6	71.9	+ 9.5	63.6	57.9	14.0	34.9	1.4	61	138.9	50.1	59.7	0.000	12.1	14.7
16	29.991	89.7	60.2	29.5	74.5	+12.2	65.2	59.1	15.4	28.4	3.5	59	139.2	47.2	59.7	0.000	12.4	14.6
17	30.002	88.4	62.4	26.0	74.0	+11.9	65.3	59.7	14.3	26.7	3.6	61	139.8	49.1	59.7	0.000	9.5	14.6
18	29.933	88.3	62.8	25.5	74.4	+12.5	65.3	59.3	15.1	29.2	3.9	60	144.1	51.5	60.0	0.000	11.6	14.5
19	29.885	81.3	62.7	18.6	71.6	+ 9.9	62.3	55.5	16.1	30.1	5.6	57	137.7	55.1	60.0	0.000	10.8	14.4
20	29.930	83.3	56.6	26.7	68.9	+ 7.4	62.0	57.1	11.8	30.6	0.9	66	136.6	48.8	60.1	0.000	8.7	14.4
21	29.835	80.1	62.4	17.7	69.4	+ 8.1	61.5	55.7	13.7	31.7	2.7	62	138.1	57.4	60.3	0.000	3.8	14.3
22	29.835	77.8	61.8	16.0	69.0	+ 7.9	61.8	56.6	12.4	20.9	3.9	65	135.5	56.1	60.4	0.000	8.6	14.3
23	29.979	81.2	59.6	21.6	67.6	+ 6.7	61.8	57.7	9.9	28.3	1.9	71	140.3	55.3	60.4	0.002	5.6	14.2
24	30.090	78.3	56.3	22.0	66.8	+ 6.0	59.2	53.1	13.7	28.3	2.2	61	142.9	41.5	60.6	0.000	9.6	14.1
25	30.102	79.3	57.7	21.6	67.3	+ 6.6	60.4	55.2	12.1	24.2	2.4	65	135.2	44.3	60.5	0.000	8.9	14.1
26	30.143	78.6	59.3	19.3	67.3	+ 6.6	60.7	55.8	11.5	24.4	1.6	67	140.2	44.5	60.6	0.000	8.1	14.0
27	30.129	81.3	56.9	24.4	68.8	+ 8.2	59.9	52.9	15.9	34.3	2.0	57	138.3	44.7	60.7	0.000	11.7	14.0
28	30.122	81.7	58.4	23.3	68.1	+ 7.7	60.1	53.9	14.2	35.9	1.6	60	136.9	48.0	60.8	0.000	10.1	13.9
29	30.064	77.0	57.7	19.3	66.0	+ 5.7	60.2	55.8	10.2	21.0	1.1	70	135.7	47.5	60.6	0.000	9.5	13.8
30	29.995	71.2	55.5	15.7	63.6	+ 3.5	57.8	53.1	10.5	20.3	2.8	69	111.5	43.4	60.5	0.000	1.4	13.8
31	29.955	74.5	54.7	19.8	65.0	+ 5.1	56.4	48.7	16.3	36.8	1.2	55	136.4	38.8	60.6	0.000	11.0	13.7
Means	29.942	78.8	57.5	21.2	67.3	+ 5.6	60.3	54.9	12.3	25.9	2.3	65.0	135.0	46.1	60.0	Sum 0.090	8.1	14.6
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

* Rainfall (Column 16). The amount entered on August 4 is derived from dew and that on August 14 from wet fog.

The mean reading of the *Barometer* for the month was 29.942 in., being 0.152 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 89°.7 on August 16; the lowest in the month was 46°.8 on August 8; and the range was 42°.9.

The mean of all the highest daily readings in the month was 78°.8, being 8°.0 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 57°.5, being 3°.9 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 21°.2, being 4°.0 greater than the average for the 65 years, 1841-1905.

The mean for the month was 67°.3, being 5°.6 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Aug. 1	3.5	0.58	3.4	0.56	Calm: E	E	6.0	0.33	236	bc w c	c b Ci y	b Ci y c Acu D _o	p b
2	3.2	0.49	2.8	0.43	E	E: SW	10.0	0.59	276	bc	c D _o c Ast Stcu	c Nbst p	c p c
3	3.3	0.51	2.8	0.44	SW: WSW	SW: Calm	1.6	0.12	192	b c	c Acu b y v	b Acu y v	b w c
4	0.1	0.02	0.1	0.02	Calm: SW	SW: Calm	1.7	0.10	173	c w	c Frcu Stcu	c Cu b y	b c
5	2.5	0.38	2.5	0.38	Calm: WSW	W: WSW	2.5	0.18	211	c r c	c Nbst Ir _o	c bc Frcu	bc c
6	1.3	0.19	1.0	0.15	WSW: W	W: NW: WNW	2.4	0.35	290	c	c Stcu	c Cu Cicu y	c
7	6.5	1.00	6.2	0.96	NW	NW: WNW: Calm	2.0	0.15	205	c	c Stcu	c bc Cu Acu y	b
8	6.5	1.00	6.5	1.00	Calm	SSE: Calm	0.5	0.01	92	b m _o	b Ci z _o y	b z _o y	b
9	6.9	0.98	6.3	0.90	Calm	E	2.0	0.11	166	b m _o	b bc Stcu y	bc b Cu y	b
10	6.6	0.94	6.0	0.86	ENE: NE	NE: E: Calm	1.4	0.07	166	b w	b c Stcu	c Stcu b	b
11	6.9	0.99	6.7	0.96	Calm: NNE	NE: Calm	0.7	0.06	119	b w c	c Stcu	bc b Cu y	b
12	7.0	1.00	7.0	1.00	Calm: NE	E: Calm	0.9	0.12	135	b w c f	f c b Frcu y	b Cicu y	b
13	6.6	0.94	6.1	0.87	Calm: ENE	E	2.7	0.23	187	b w	b Ci Frcu y	b Ci y	b
14	5.0	0.71	4.9	0.70	E: NE	ENE: E	2.6	0.24	202	b c fe	fe c b y	b y	b
15	7.0	1.00	7.0	1.00	Calm: NNE	ENE: E: Calm	2.0	0.10	165	b c b w m _o	b y	b Frcu y	b
16	7.5	1.00	7.5	1.00	Calm: NNE	NE: Calm	1.1	0.05	136	b	b y	b y	b
17	2.9	0.38	0.9	0.12	NNE: N	NNE: E: Calm	1.9	0.07	166	b	b Ci Acu y	b c Acu Cicu y	c
18	7.3	0.98	7.2	0.96	Calm: NNE	NE: ENE	1.3	0.07	171	c b z _o	b Ci Cicu y	b Cicu y	b
19	7.5	1.00	7.5	1.00	NNE: NE	ENE: Calm	5.4	0.16	221	b bc	c b Acu y	b Ci y	b
20	3.1	0.42	2.7	0.37	Calm: NE	NE: E: ENE	2.5	0.13	210	b c f	f b Ci y	b bc Ci c y	c b
21	2.5	0.33	0.9	0.12	NE: ENE	ENE: NE	5.6	0.54	349	c b Ci Acu	c b Ci Acu	bc c Acu Ci y	c
22	4.8	0.64	3.6	0.48	NE: ENE	ENE: NE	4.0	0.30	294	b c	bc Ci Frcu y	bc Ci y	bc b c
23	4.7	0.59	3.9	0.49	NE: NNE	NNE: ESE: NE	1.4	0.06	165	c	c bc Ci Frst y	b c Cu t y	c r _o c
24	5.0	0.63	4.9	0.62	NNE: NE	NNE: E: NE	3.3	0.17	216	c b	b bc Cu y	bc Cu b y	b
25	..	..	..	..	NNE: N	NNE: E: NE	1.6	0.11	181	b c	c b Cu y	b bc Cu y	b
26	8.0	1.00	8.0	1.00	NE: NNE	NE: E: ENE	1.5	0.13	195	b c	c b Frcu y	b y	b
27	8.0	1.00	8.0	1.00	NE: Calm	NE: E	3.5	0.15	210	b	b Frcu y	b Frcu y	b
28	6.6	0.82	5.1	0.64	NE: Calm	E: Calm	2.0	0.08	173	b w c	c b Ci z _o y	b Ci y	b lu-ha
29	7.6	0.95	7.4	0.92	Calm: NE	E: ENE	1.7	0.11	181	c m	c m b Cicu y	b bc Cicu y	bc
30	8.3	0.98	7.8	0.92	NE	ENE	1.8	0.13	203	bc c	c Cist so-ha c Stcu	c Stcu	c bc
31	8.5	1.00	8.5	1.00	Calm: ENE	ENE: E	3.2	0.15	201	bc w	b Ci y	b Ci y	b so-ha b
Means	5.5	0.75	5.1	0.70	..	..	..	0.17	196				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 60°.3, being 2°.8 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 65.0, being 11.8 less than
 The mean *Elastic Force of Vapour* for the month was 0.435 in., being 0.011 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 4.0.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.553. The maximum daily amount of *Sunshine* was 12.4 hours on August 13 and 16.
 The highest reading of the *Solar Radiation Thermometer* was 144°.1 on August 18; and the lowest reading of the *Terrestrial Radiation Thermometer* was 33°.2 on August 8.
 The *Proportions of Wind* referred to the cardinal points were N.22, E.41, S.4, W.9, calm or nearly calm conditions 24, 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 August 2. The mean daily *Horizontal Movement of the Air* for the month was 196 miles; the greatest daily value was 349 miles on August 21, and the least daily value was 92 miles on August 8.
Rain (0.005 in. or over) fell on 3 days in the month, amounting to 0.090 in., as measured by gauge No.6 partly sunk below the ground; being 2.254 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
Sept. 1	29.920	74.7	52.8	21.9	64.0	+ 4.2	58.2	53.5	10.5	21.4	1.7	69	133.9	36.8	60.6	0.000	9.4	13.6
2	29.949	73.6	55.1	18.5	63.9	+ 4.2	58.0	53.3	10.6	23.7	1.5	68	135.6	45.0	60.7	0.000	6.3	13.6
3	29.911	76.8	48.9	27.9	62.8	+ 3.2	56.5	51.1	11.7	28.7	0.8	66	127.3	34.7	60.6	0.000	4.7	13.5
4	29.844	79.5	54.6	24.9	65.1	+ 5.6	58.9	54.1	11.0	25.9	2.0	68	121.1	42.4	60.5	0.000	3.6	13.5
5	29.867	80.7	51.2	29.5	65.6	+ 6.2	57.9	51.4	14.2	31.5	1.4	60	128.4	37.5	60.5	0.000	9.4	13.4
6	29.920	75.6	55.8	19.8	64.2	+ 5.0	56.1	48.9	15.3	29.2	3.7	58	124.3	41.7	60.4	0.000	9.1	13.3
7	29.860	73.2	52.4	20.8	63.1	+ 4.1	58.3	54.5	8.6	17.6	2.4	74	137.9	38.3	60.1	0.003	4.0	13.3
8	29.727	73.4	53.2	20.2	64.6	+ 5.8	59.9	56.4	8.2	15.8	0.8	75	125.1	43.0	60.1	0.080	2.6	13.2
9	29.803	72.7	45.8	26.9	60.5	+ 1.9	54.3	48.6	11.9	22.3	2.9	65	118.3	32.1	60.0	0.000	5.1	13.1
10	29.894	78.8	57.0	21.8	65.6	+ 7.2	59.4	54.6	11.0	23.9	2.5	68	141.0	47.0	60.3	0.000	9.7	13.0
11	29.821	83.7	50.3	33.4	67.4	+ 9.3	60.1	54.5	12.9	26.0	1.2	63	139.2	36.8	60.3	0.000	9.7	13.0
12	29.846	69.4	60.0	9.4	65.1	+ 7.1	62.9	61.5	3.6	5.2	1.8	88	87.0	52.0	59.9	0.042	0.4	12.9
13	29.774	73.5	51.4	22.1	62.4	+ 4.6	59.3	56.9	5.5	16.1	1.5	83	126.2	40.0	60.0	0.028	1.5	12.9
14	29.774	70.8	50.7	20.1	60.1	+ 2.4	57.3	55.0	5.1	12.7	1.2	83	106.7	37.4	59.8	0.000	0.6	12.8
15	29.816	81.7	58.5	23.2	68.8	+11.2	63.3	59.7	9.1	22.3	1.8	73	136.3	50.4	60.1	0.002	8.5	12.7
16	29.697	82.3	54.4	27.9	68.3	+10.8	61.6	56.8	11.5	23.1	4.1	67	135.6	43.4	59.9	0.015	7.7	12.7
17	29.971	73.0	47.5	25.5	60.0	+ 2.8	54.3	49.1	10.9	27.2	1.3	67	129.9	33.8	59.8	0.000	5.1	12.6
18	29.881	65.2	55.6	9.6	61.4	+ 4.5	59.4	58.0	3.4	6.5	0.8	88	85.2	44.9	59.7	0.744	0.0	12.5
19	29.747	75.2	62.8	12.4	66.9	+10.4	65.2	64.2	2.7	10.9	0.6	91	105.9	61.9	59.7	0.044	0.7	12.5
20	29.763	72.3	55.7	16.6	63.8	+ 7.6	61.2	59.4	4.4	12.0	0.9	86	118.9	48.5	59.7	0.455	1.6	12.4
21	30.087	66.6	53.0	13.6	59.1	+ 3.2	54.3	49.9	9.2	22.8	0.8	72	120.5	45.4	59.7	0.035	6.3	12.3
22	30.240	68.7	45.3	23.4	57.0	+ 1.4	52.0	47.1	9.9	22.0	1.9	69	127.2	33.8	59.7	0.072	9.1	12.3
23	29.886	60.8	48.5	12.3	54.6	- 0.8	49.4	43.8	10.8	19.1	3.3	67	111.3	41.5	59.3	0.002	3.3	12.2
24	29.939	58.1	43.7	14.4	50.9	- 4.4	46.2	40.5	10.4	18.0	2.5	68	111.5	34.6	59.2	0.000	6.1	12.2
25	29.939	64.8	40.1	24.7	52.6	- 2.6	48.5	44.0	8.6	22.0	1.0	73	124.1	24.7	59.1	0.000	6.7	12.1
26	29.937	66.6	51.4	15.2	58.2	+ 3.0	53.4	48.9	9.3	21.6	1.8	71	117.2	44.4	59.0	0.000	6.0	12.0
27	29.973	66.7	48.6	18.1	55.8	+ 0.7	52.2	48.7	7.1	16.2	1.2	77	117.1	39.7	58.7	0.000	4.7	11.9
28	29.977	63.4	51.2	12.2	57.3	+ 2.4	54.3	51.6	5.7	8.8	2.6	82	90.1	39.6	58.5	0.000	0.3	11.9
29	29.972	65.0	49.6	15.4	57.5	+ 2.8	54.0	50.8	6.7	15.0	1.5	78	89.7	42.0	58.6	0.011	1.0	11.8
30	30.255	58.9	40.5	18.4	50.0	- 4.4	44.4	36.9	13.1	24.2	2.9	61	113.2	32.5	58.3	0.000	8.7	11.8
Means	29.900	71.5	51.5	20.0	61.2	+ 4.0	56.4	52.1	9.1	19.7	1.8	72.6	119.5	40.9	59.8	Sum 1.533	5.1	12.7
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

The mean reading of the Barometer for the month was 29.900 in., being 0.082 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 83°.7 on September 11; the lowest in the month was 40°.1 on September 25; and the range was 43°.6.

The mean of all the highest daily readings in the month was 71°.5, being 5°.3 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 51°.5, being 1°.8 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 20°.0, being 3°.5 greater than the average for the 65 years, 1841-1905.

The mean for the month was 61°.2, being 4°.0 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
hours		hours				lbs.	lbs.	miles					
Sept. 1	8.5	1.00	8.5	1.00	Calm: ENE	E: ENE	3.0	0.17	209	b	bc Cu Frcu y	b Ci y	b
2	8.5	1.00	8.5	1.00	NE: NNE	NE: ENE: Calm	1.5	0.08	178	b w	b c Frcu y	c Stcu y	b
3	0.0	0.00	0.0	0.00	Calm	Calm	0.3	0.01	63	b w m	bc m b Acu y	b c Acu y	c m f
4	7.6	0.90	7.5	0.89	Calm	Calm	0.3	0.01	79	c m f	c f b Acu y	bc c Acu Cu y	c b
5	6.4	0.75	6.1	0.72	Calm	WSW: WNW	0.6	0.03	114	b w	b m b z ₀ y	b Frcu y	c b
6	1.7	0.19	1.1	0.13	Calm: NNW	Calm	0.3	0.03	93	b c	c b Ci y	b Frcu c y	c
7	1.3	0.14	0.7	0.08	Calm: SSW	SSW	1.0	0.06	155	c b	b c Stcu Cu	c Stcu	c d c
8	7.8	0.87	7.7	0.86	SW: WSW	WSW: NNW: NW	2.2	0.15	224	c r c	c Stcu	c Stcu Frcu Ci	c b
9	9.0	1.00	9.0	1.00	SW: WSW	WSW: SW	8.1	0.77	368	b	bc c Cist so-ha y	c Ci so-ha bc y	b
10	9.0	1.00	9.0	1.00	SW: WSW	WSW: SW	2.8	0.28	280	b bc	c bc Frcu Ci y	bc b Cu Ci y	b
11	5.5	0.62	4.9	0.55	SSW: Calm	SW	4.1	0.20	231	b w	c b y	b Ci b c prin y	bc
12	6.1	0.68	5.1	0.57	SW: SSW	SW: SSW	3.0	0.28	273	bc c	c Nbst id ₀	c Nbst d ₀ r c	c b
13	5.3	0.55	5.0	0.52	S: SSW: SW	W: SW: Calm	4.1	0.25	252	b c	c b c Ast d ₀	c Nbst ir	c b
14	9.7	1.00	9.7	1.00	Calm: SSW	SW	4.6	0.28	233	b c	c Ast d ₀	d c Acu bc	b
15	6.9	0.71	6.4	0.66	SW: SSW	SSW: Calm	2.5	0.19	209	b	b bc b Frcu y	b c Cu y	c r ₀ c b
16	8.9	0.91	8.1	0.83	SSW	SW: WNW	7.5	0.60	311	b	b bc Ci so-ha c y	c Nbst p b y	b
17	2.3	0.24	1.1	0.12	Calm	Calm	0.3	0.01	91	b w bc	bc Cu Ci y	bc Cu Ci c y	bc c
18	0.0	0.00	0.0	0.00	Var.: ENE	ENE	3.4	0.21	210	c t l R r c	c Nbst	c Nbst r ₀ r c m ₀	c
19	2.3	0.23	2.3	0.23	Calm	Calm: SE: S	1.8	0.02	121	c o m f	o f m	Nbst r m c	c t l r b c
20	8.3	0.81	8.2	0.80	SSW	SSW	3.4	0.21	237	c ir	c Ast Nbst	c Nbst p R c	c b
21	9.8	0.96	9.3	0.91	SW: NW	NW: NNW	7.8	0.57	326	b c	c r ₀ c bc Cu	bc Frcu y	b
22	1.6	0.15	1.2	0.12	WSW	WSW: SW	5.0	0.39	290	b	b Cist y	b Cu Ci y c	c r d ₀ c
23	9.4	0.92	8.7	0.85	W: NNW	NW: NNW	11.5	0.48	326	c d ₀ c	c Cist so-ha c Stcu	c Acu y b	b m ₀
24	9.3	0.91	9.2	0.90	N	N: NE: Calm	1.7	0.15	198	b m ₀	b m ₀ c Stcu	c Stcu bc	bc b f
25	6.0	0.59	4.9	0.48	Calm	NE: E	0.7	0.03	109	b c b f x	b Ci y	b c Cu Stcu y	c b
26	7.9	0.77	7.7	0.75	NE	NE	11.0	0.78	378	c	c bc Stcu y	b Ci y	b c
27	3.2	0.30	1.3	0.12	NE: NNE	Calm	2.0	0.06	141	c b f	b f c bc Cu Cist	bc Cist	b f
28	1.2	0.11	1.1	0.10	WSW	SW: WSW	2.0	0.14	235	c b	c Stcu	c Stcu	bc c
29	9.4	0.89	9.2	0.88	WSW	W: NNW	3.0	0.22	274	c ir ₀	c r ₀ c Stcu Ast	c bc c Stcu	c b lu-ha
30	10.5	1.00	9.4	0.89	NNW: Calm	Calm	2.0	0.06	133	b w	b Ci y	b z ₀ Ci y	b f
Means	6.1	0.64	5.7	0.60	..	..	..	0.22	211				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 56°.4, being 2°.3 higher than
 The mean *Temperature of the Dew Point* for the month was 52°.1, being 1°.0 higher than
 The mean *Degree of Humidity* for the month was 72.6, being 7.3 less than
 The mean *Elastic Force of Vapour* for the month was 0.392 in., being 0.013 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 5.6.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.399. The maximum daily amount of *Sunshine* was 9.7 hours on September 10 and 11.
 The highest reading of the *Solar Radiation Thermometer* was 141°.0 on September 10; and the lowest reading of the *Terrestrial Radiation Thermometer* was 24°.7 on September 25.
 The *Proportions of Wind* referred to the cardinal points were N.16, E.9, S.22, W.25, calm or nearly calm conditions 28, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 11.5 lbs. on the square foot on September 23. The mean daily *Horizontal Movement of the Air* for the month was 211 miles; the greatest daily value was 378 miles on September 26, and the least daily value was 63 miles on September 3.
Rain (0.005 in. or over) fell on 10 days in the month, amounting to 1.533 in., as measured by gauge No. 6 partly sunk below the ground; being 0.615 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sun-shine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
Oct. 1	30.187	62.5	36.0	26.5	48.9	- 5.2	44.5	38.9	10.0	22.3	1.4	68	105.1	25.1	58.2	0.000	6.7	11.7
2	30.140	65.0	40.3	24.7	53.3	- 0.4	50.0	46.6	6.7	13.9	0.7	78	108.7	28.8	58.0	0.000	4.2	11.6
3	30.272	61.7	44.2	17.5	53.1	- 0.2	48.1	42.5	10.6	22.1	1.7	67	117.6	29.1	57.8	0.000	9.5	11.6
4	30.230	67.2	37.7	29.5	51.4	- 1.6	47.5	43.1	8.3	22.9	1.1	73	118.2	24.1	57.7	0.000	8.8	11.5
5	30.013	67.8	43.2	24.6	51.2	- 1.6	48.6	45.8	5.4	19.4	0.4	82	105.1	24.0	57.6	0.000	4.3	11.4
6	29.918	71.2	41.2	30.0	55.4	+ 2.9	50.6	45.7	9.7	23.6	1.0	70	111.5	28.0	57.4	0.000	7.4	11.4
7	29.889	69.3	48.3	21.0	58.7	+ 6.4	55.0	51.8	6.9	15.9	1.4	78	103.0	35.2	57.0	0.000	2.8	11.3
8	29.843	67.3	53.0	14.3	58.9	+ 6.9	56.5	54.6	4.3	10.6	0.8	85	95.3	42.7	56.8	0.000	0.2	11.3
9	29.954	68.0	46.2	21.8	57.0	+ 5.4	53.4	50.0	7.0	21.4	0.4	77	120.1	30.8	56.8	0.000	5.7	11.2
10	30.101	69.0	53.3	15.7	60.0	+ 8.7	56.5	53.5	6.5	15.5	1.2	79	105.0	41.1	56.9	0.004	1.5	11.1
11	30.283	66.8	52.5	14.3	59.3	+ 8.4	56.5	54.2	5.1	12.8	0.6	83	108.3	38.6	56.7	0.000	0.9	11.0
12	30.264	71.8	50.7	21.1	59.0	+ 8.4	55.8	53.2	5.8	17.1	1.0	81	124.1	39.6	56.8	0.000	5.9	11.0
13	30.113	69.6	48.5	21.1	57.1	+ 6.8	54.5	52.3	4.8	14.9	0.0	84	121.0	34.1	56.8	0.001*	2.5	10.9
14	29.998	55.9	42.2	13.7	52.4	+ 2.3	50.8	49.2	3.2	6.3	0.9	89	59.6	33.0	56.7	0.009	0.0	10.9
15	29.999	64.4	37.7	26.7	51.8	+ 1.9	48.1	44.0	7.8	18.3	0.7	74	115.1	23.8	56.7	0.000	4.9	10.8
16	30.048	59.9	50.8	9.1	56.3	+ 6.5	52.9	49.7	6.6	10.7	1.6	78	70.3	42.0	56.6	0.000	0.0	10.7
17	30.113	59.7	47.5	12.2	53.9	+ 4.3	51.1	48.4	5.5	11.8	0.8	81	86.3	36.0	56.4	0.000	1.0	10.7
18	30.234	57.0	42.9	14.1	51.8	+ 2.5	47.8	43.3	8.5	14.0	4.9	73	79.9	33.0	56.3	0.000	0.0	10.6
19	30.265	57.2	37.7	19.5	47.6	- 1.5	44.0	39.4	8.2	18.2	1.5	73	95.3	23.9	56.2	0.000	2.8	10.5
20	30.101	52.6	33.3	19.3	45.5	- 3.3	42.0	37.1	8.4	16.3	1.6	73	101.6	24.0	56.0	0.000	0.6	10.5
21	29.910	58.7	29.3	29.4	42.8	- 5.8	39.9	35.7	7.1	18.6	2.2	75	91.3	16.0	55.8	0.000	6.1	10.4
22	29.680	60.2	44.1	16.1	52.5	+ 4.2	50.5	48.6	3.9	10.4	1.2	86	71.0	26.7	55.7	0.019	0.3	10.3
23	29.713	61.6	44.8	16.8	52.4	+ 4.3	50.0	47.5	4.9	12.5	0.8	83	114.6	31.0	55.6	0.070	5.5	10.3
24	29.837	57.6	43.3	14.3	49.4	+ 1.5	48.1	46.7	2.7	6.7	0.0	90	79.6	27.8	55.3	0.032	1.5	10.2
25	29.906	57.9	44.7	13.2	51.4	+ 3.7	48.4	45.2	6.2	12.7	2.4	79	101.2	38.5	55.0	0.000	4.9	10.1
26	30.039	51.7	44.7	7.0	47.1	- 0.5	42.3	35.5	11.6	21.3	4.2	64	103.5	39.0	55.0	0.000	5.3	10.1
27	29.931	49.9	45.3	4.6	47.5	- 0.0	42.3	34.8	12.7	14.9	9.9	61	99.1	41.4	54.8	0.000	2.5	10.0
28	29.900	50.4	44.4	6.0	47.3	- 0.1	42.6	36.1	11.2	15.8	8.9	65	89.0	40.8	54.7	0.000	0.3	10.0
29	29.773	49.4	37.0	12.4	44.6	- 2.7	41.7	37.7	6.9	13.4	1.3	76	76.7	19.9	54.4	0.005	0.7	9.9
30	29.597	49.0	32.3	16.7	41.9	- 5.3	40.5	38.6	3.3	8.2	0.0	88	66.7	16.1	54.3	0.000	0.0	9.8
31	29.611	52.8	45.3	7.5	49.0	+ 1.9	46.1	42.6	6.4	9.1	3.4	79	59.8	35.0	54.0	0.000	0.0	9.8
Means	29.996	60.7	43.3	17.4	51.9	+ 1.9	48.6	44.9	7.0	15.2	1.9	77.2	96.9	31.3	56.3	Sum 0.140	3.1	10.7
No. of Col. for Ref.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

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

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

* Rainfall (Column 16). The amount entered on October 13 is derived from wet fog.

The mean reading of the Barometer for the month was 29.996 in., being 0.268 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 71° 8 on October 12; the lowest in the month was 29° 3 on October 21; and the range was 42° 5.

The mean of all the highest daily readings in the month was 60° 7, being 3° 7 higher than the average for the 65 years, 1841-1905.

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

The mean of the daily ranges was 17° 4, being 4° 2 greater than the average for the 65 years, 1841-1905.

The mean for the month was 51° 9, being 1° 9 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		6 URSAE MINORIS		OSLER'S			Robinson's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air				
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures		0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
Oct. 1	8.0	0.76	7.9	0.76	Calm	Calm	0.0	0.00	72	b f x	b f bc Cist so-ha y	bc Ci b z ₀	b c b f
2	7.9	0.75	7.5	0.71	Calm:E	ENE	2.5	0.15	185	b f x	b f m c Stcu	c Stcu	c d ₀ c b
3	10.5	1.00	10.5	1.00	Calm:E	E: Calm	3.1	0.13	199	b x	b y	b y	b
4	8.7	0.79	8.5	0.77	Calm	Calm	0.2	0.01	66	b x f	b f b y	b y	b w
5	11.0	1.00	11.0	1.00	Calm	Calm:SW	0.0	0.00	63	b Fe	F b f	b m f	f b m
6	6.6	0.60	5.0	0.45	Calm:SW	Calm	0.1	0.00	108	b m w	b bc Acu Ast y	b Ci z ₀ y	bc f c m
7	3.7	0.33	1.4	0.12	Calm	Calm:SE:SSW	0.2	0.01	110	c b m	b f bc Cist so-ha y	bc so-ha c Acu m ₀	c
8	8.0	0.73	7.3	0.66	SSW	SW:WSW	0.5	0.04	158	c bc c m ₀ w	c Stcu m ₀	c Stcu m ₀ r ₀	c b m ₀
9	7.0	0.64	5.4	0.49	Calm:WSW	SW	1.3	0.07	176	b w f	b f b Frcu y	b y c Stcu Acu	c r ₀ c b
10	8.6	0.78	7.9	0.71	SW	WSW:SW	3.0	0.16	227	b w c	c Ci Cist so-ha	c Acu r ₀	c m b
11	7.8	0.68	6.3	0.55	SW: Calm	SW:SSW	1.2	0.03	156	b w c	c Stcu	c Stcu b	b m
12	7.7	0.67	5.7	0.49	Calm	Calm	0.1	0.00	100	b w c	c Stcu b Cu	b y	b m f
13	0.8	0.07	0.2	0.02	Calm	Calm	0.1	0.00	78	f Fe	Fe bc Ci m	bc c Ast m ₀	c m ₀
14	10.7	0.93	10.5	0.91	Calm:W	NNW: Calm	1.0	0.03	125	c d m ₀ f	c Nbst Id m	Id c St b m ₀	b m c b
15	0.0	0.00	0.0	0.00	SW:WSW	WSW	3.5	0.20	277	b x c	c bc Ci Acu	bc Ci c Stcu	c
16	4.0	0.35	0.8	0.07	WSW:W	WSW: Calm	1.3	0.10	204	c m ₀	c Stcu Ast m ₀	c Stcu m ₀	bc c m ₀
17	0.0	0.00	0.0	0.00	Calm:WSW	W: NW: NE	1.3	0.09	176	c w	o c Stcu m ₀	c bc c Stcu m ₀	c m ₀
18	10.5	0.88	10.3	0.86	NE: Calm	Calm	0.2	0.01	94	c m ₀	c Acu Stcu m ₀	c Stcu m ₀	c b m
19	10.5	0.87	8.6	0.72	Calm: SSE	ENE	1.0	0.05	136	b x m	c f b c Stcu y	c bc Ci so-ha b y	b
20	11.9	0.99	5.7	0.48	Calm: E	E: Calm	1.5	0.05	144	b c b w	c bc c Ast	c Acu b m	b bc x m
21	7.1	0.59	4.8	0.40	Calm	Calm	0.0	0.00	88	bc m x f	b f	b m f	c f
22	8.1	0.67	7.3	0.61	Calm: SE: S	S	3.0	0.13	214	c b w c	c Nbst r ₀ r	r ₀ c bc Cu Acu	bc b c
23	7.5	0.63	7.3	0.60	SSE: SE	SE: E: Calm	2.2	0.09	185	c Ir	c bc Cu Ci so-ha	c b Cu m	b m f
24	2.9	0.24	2.8	0.23	Calm	NE: Calm	0.4	0.01	102	b f Fe	Fe b f	c r g c Nbst p m	b bc lu-ha c
25	5.8	0.47	5.2	0.43	NE: ENE	ENE: NE	4.0	0.23	281	c d ₀ m	c b Cu	b Ci c	c b c
26	0.4	0.03	0.3	0.02	ENE: E	ENE	9.7	1.14	434	c	c bc Stcu y	b Frst c y	c
27	0.7	0.06	0.2	0.01	NE: ENE	ENE	10.5	1.64	494	c	c bc Frcu y	bc c Frcu y	c
28	0.0	0.00	0.0	0.00	NE: ENE	NE	7.0	0.78	364	c	c Stcu y	c Stcu	c
29	10.3	0.84	3.5	0.28	NE: E	E: Calm	1.6	0.14	172	c d c	c Stcu m ₀	c Stcu	c b m x
30	1.7	0.14	0.8	0.06	Calm: E	E: ENE	3.4	0.19	197	b x f	Fe c Acu m	c Acu Ci m ₀	c lu-ha m ₀
31	7.6	0.62	5.3	0.44	NE: NNE	NNW: NW	1.2	0.13	207	c m	c St m	c St m ₀	c b bc
Means	6.3	0.55	5.1	0.45	..	..	..	0.18	180				
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°.6, being 0°.7 higher than
 The mean *Temperature of the Dew Point* for the month was 44°.9, being 0°.7 lower than
 The mean *Degree of Humidity* for the month was 77.2, being 7.7 less than
 The mean *Elastic Force of Vapour* for the month was 0.299 in., being 0.009 in. less than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 6.1.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.291. The maximum daily amount of *Sunshine* was 9.5 hours on October 3.
 The highest reading of the *Solar Radiation Thermometer* was 124°.1 on October 12; and the lowest reading of the *Terrestrial Radiation Thermometer* was 16°.0 on October 21.
 The *Proportions of Wind* referred to the cardinal points were N.10, E.24, S.12, W.13, calm or nearly calm conditions 41, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 10.5 lbs. on the square foot on October 27. The mean daily *Horizontal Movement of the Air* for the month was 180 miles; the greatest daily value was 494 miles on October 27, and the least daily value was 63 miles on October 5.
 Rain (0.005 in. or over) fell on 5 days in the month, amounting to 0.140 in., as measured by gauge No.6 partly sunk below the ground; being 2.642 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	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
	Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	Of the Air					Of Evaporation	Of the Dew Point	Mean	Greatest	Least		Of Radiation		Of the Earth 4 ft. below the surface of the Soil			
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years	Mean of 24 Hourly Values	Deducted Mean Daily Value					Highest in Sun's Rays	Lowest on the Grass				
Nov. 1	29.882	60.3	39.3	21.0	51.4	+ 4.4	49.0	46.5	4.9	8.0	0.7	83	80.0	26.5	54.0	0.000	0.0	9.7
2	29.599	57.0	48.8	8.2	54.4	+ 7.6	52.1	49.9	4.5	8.9	2.0	85	70.2	40.0	53.9	0.037	0.1	9.7
3	29.643	60.6	45.2	15.4	50.7	+ 4.1	46.7	42.0	8.7	20.9	1.9	72	109.0	34.6	53.8	0.003	7.7	9.6
4	29.848	54.6	44.0	10.6	50.7	+ 4.3	48.7	46.5	4.2	6.9	1.7	86	62.0	34.4	53.7	0.010	0.0	9.5
5	30.062	55.7	38.6	17.1	51.3	+ 5.2	48.2	44.9	6.4	14.3	0.0	78	86.0	30.5	53.7	0.041	6.0	9.5
6	30.194	44.9	34.6	10.3	39.4	- 6.4	39.1	38.7	0.7	1.6	0.0	97	50.0	26.2	53.6	0.000	0.0	9.4
7	30.130	55.7	34.0	21.7	45.3	- 0.1	43.5	41.2	4.1	12.4	0.0	86	85.0	26.5	53.5	0.001*	3.2	9.4
8	30.012	61.9	46.8	15.1	52.4	+ 7.4	49.8	47.1	5.3	16.0	0.0	82	87.0	40.5	53.4	0.000	3.6	9.3
9	29.759	60.0	51.6	8.4	55.1	+10.5	52.5	50.1	5.0	11.9	1.6	84	88.3	47.5	53.2	0.210	0.2	9.3
10	29.722	58.2	49.0	9.2	52.8	+ 8.5	49.1	45.2	7.6	13.3	1.6	75	83.0	35.8	53.0	0.158	3.2	9.2
11	29.688	60.8	47.7	13.1	55.7	+11.7	52.2	48.8	6.9	12.5	0.5	77	77.8	37.0	53.1	0.063	0.2	9.2
12	29.414	61.0	50.0	11.0	57.5	+13.8	54.3	51.4	6.1	7.0	3.9	80	70.3	44.0	53.0	0.040	0.1	9.1
13	29.643	52.0	43.0	9.0	47.7	+ 4.2	43.3	37.4	10.3	17.0	7.3	68	82.4	36.0	53.0	0.000	1.9	9.0
14	29.720	46.0	38.5	7.5	42.3	- 1.0	40.5	38.0	4.3	7.1	0.9	84	52.8	29.5	53.0	0.180	0.0	9.0
15	29.606	44.3	35.0	9.3	40.9	- 2.2	38.0	33.3	7.6	17.2	0.7	74	61.0	27.0	52.9	0.041	0.8	8.9
16	29.862	41.7	31.6	10.1	36.0	- 6.8	33.9	30.2	5.8	11.5	1.3	79	51.7	21.6	52.7	0.001*	0.0	8.9
17	29.791	40.0	30.7	9.3	34.7	- 7.9	32.9	29.8	4.9	12.7	0.8	81	50.0	22.5	52.4	0.000	0.0	8.8
18	29.556	37.7	31.0	6.7	35.0	- 7.4	33.3	30.3	4.7	10.4	1.0	83	47.0	27.5	52.0	0.030	0.2	8.8
19	29.585	42.4	36.8	5.6	39.8	- 2.5	38.7	37.1	2.7	6.2	1.0	90	43.9	28.8	51.8	0.202	0.0	8.7
20	29.899	59.6	37.7	21.9	53.2	+11.0	51.8	50.5	2.7	4.9	0.5	91	68.0	33.0	51.4	0.003	0.0	8.7
21	29.984	60.8	58.0	2.8	59.3	+17.2	57.1	55.4	3.9	6.3	3.0	87	74.1	54.2	51.3	0.002	0.0	8.6
22	29.923	61.0	57.8	3.2	59.6	+17.5	57.4	55.7	3.9	7.6	1.6	87	70.3	52.7	51.6	0.011	0.0	8.6
23	29.920	61.5	44.1	17.4	56.4	+14.4	52.5	48.7	7.7	13.8	3.0	76	85.1	36.3	51.6	0.057	2.0	8.5
24	30.017	48.9	39.5	9.4	44.1	+ 2.1	40.3	34.6	9.5	15.6	3.9	69	75.1	31.5	51.7	0.000	5.6	8.5
25	29.810	43.8	35.0	8.8	40.6	- 1.3	36.5	29.7	10.9	18.4	5.1	64	71.2	28.0	51.7	0.000	5.3	8.4
26	29.695	38.7	29.6	9.1	34.4	- 7.4	30.9	25.0	9.4	16.2	3.0	65	59.7	21.0	51.4	0.000	5.0	8.4
27	29.553	39.3	27.0	12.3	32.8	- 8.9	31.7	30.0	2.8	6.2	0.0	88	41.0	17.7	51.1	0.002	0.0	8.4
28	29.446	40.9	30.1	10.8	35.2	- 6.3	33.8	31.3	3.9	6.7	0.8	86	59.0	23.0	50.8	0.000	1.2	8.3
29	29.274	39.0	34.0	5.0	36.9	- 4.3	35.6	33.5	3.4	4.3	1.3	87	43.9	28.0	50.7	0.008	0.0	8.3
30	29.308	34.0	25.0	9.0	31.4	- 9.6	30.8	29.7	1.7	3.5	0.0	93	39.0	10.0	50.1	0.000	0.0	8.3
Means	29.751	50.7	39.8	10.9	45.9	+ 2.4	43.5	40.4	5.5	10.6	1.6	81.2	67.5	31.7	52.4	Sum 1.100	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 amounts entered on November 7 and 16 are derived from frost.

The mean reading of the Barometer for the month was 29.751 in., being 0.014 in. lower than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 61° .9 on November 8; the lowest in the month was 25° .0 on November 30; and the range was 36° .9.

The mean of all the highest daily readings in the month was 50° .7, being 1° .8 higher than the average for the 65 years, 1841-1905.

The mean of all the lowest daily readings in the month was 39° .8, being 1° .4 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 10° .9, being 0° .4 greater than the average for the 65 years, 1841-1905.

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

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSAE MINORIS		OSLER'S			Robinson's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
					A. M.	P. M.	Greatest	Mean of 24 Hourly Measures						miles
Nov. 1	5.1	0.41	2.5	0.20	WSW: SW	SW	1.0	0.07	197	bc m f x	c f Acu m ₀	c Cist m ₀	c lu-ha w
2	10.3	0.82	10.0	0.80	SSW	S: SW	8.3	0.60	352	c Id ₀	c Stcu	c Nbst r r ₀	r ₀ c b
3	9.0	0.72	8.0	0.64	SW: WSW	WSW	4.4	0.34	322	b w	b Prcu y	bc Nbst Cu p ₀ bc	bc
4	0.3	0.02	0.3	0.02	WSW	SW	1.7	0.13	217	bc lu-ha c	c Nbst d ₀	c Nbst Id ₀ prim c	c d ₀
5	4.0	0.32	3.2	0.25	Calm: NW: N	NNW: Calm	1.7	0.05	154	d ₀ d c	c b Prcu	b Prcu	b m f
6	7.7	0.62	4.5	0.36	Calm	Calm	0.0	0.00	37	b x f Fe	Fe Fe	Fe Fe	Fe b f
7	1.0	0.08	0.4	0.03	Calm: SW	SSW: SW	2.2	0.06	144	c x f	c b c Acu f	c b c Ast Cist	c
8	5.1	0.39	4.3	0.33	WSW	SW	1.8	0.11	234	c m	c bc Ci m	bc Ci y b	b c
9	0.0	0.00	0.0	0.00	SW	WSW: SSW	4.2	0.35	320	c Ir	c Nbst Ir c p ₀	c	c r d ₀ r
10	0.8	0.06	0.3	0.03	WSW: WNW	WNW: WSW: SW	7.4	0.69	355	rr d ₀ r c	c Cist so-ha	bc c Ci Acu	c
11	0.1	0.01	0.0	0.00	SW: WSW	WSW	12.5	1.68	537	c d ₀ r c	c Stcu	c Ast Acu	c
12	3.4	0.26	2.1	0.16	WSW: SW	SW: WSW: NW	15.0	2.47	656	c q	c Nbst Ir ₀	c r c Cu Ci	c d ₀ c
13	10.7	0.82	8.9	0.68	NW: W	WNW: W	6.0	0.41	313	c b c	c b Prcu	b c Cist so-ha b	b c b
14	0.0	0.00	0.0	0.00	W: WSW	WSW: Calm	0.8	0.06	169	b x c m	c Ast m	c Nbst d ₀ r d ₀ m	d ₀ rr
15	13.3	1.00	13.3	1.00	WSW: NW	NW: WSW	4.2	0.44	315	r c	c Stcu Ci m ₀	c Acu bc	b f
16	9.9	0.74	8.3	0.62	WSW: W	WNW: WSW	1.4	0.10	222	b x f	bc Ci Cist f	bc Acu Ast m	b m x
17	1.0	0.08	0.0	0.00	WSW: W	NW: Calm	1.1	0.07	182	b x c	b bc Ci Prcu f m	bc Cist so-ha c m	c f c x
18	0.0	0.00	0.0	0.00	Calm: E	E: ENE	0.5	0.03	133	c s ₀	s s ₀ c Stcu m ₀	c Acu m ₀	c rs m ₀
19	2.5	0.19	1.7	0.13	E: ESE	E: Calm	3.7	0.23	176	r s r s m ₀	rs o St m ₀	c St m ₀	c b f m
20	0.0	0.00	0.0	0.00	Calm: SSW: SW	SSW: SW	6.0	0.63	369	c m d ₀	c Stcu m	c Nbst	c d ₀ c
21	0.0	0.00	0.0	0.00	SW	SW: SSW	8.2	0.89	444	c	c Stcu Acu	c Stcu	c Id ₀ c
22	3.3	0.24	2.3	0.17	SSW: SW	SW: WSW	14.8	1.46	532	c Id ₀	c Acu Prst	c Prst Ir ₀	c
23	12.0	0.89	11.8	0.87	WSW: SW	WSW: NW	20.4	1.13	478	c	c Acu Prst	bc Prcu q r	r bc b
24	6.7	0.50	5.9	0.44	W	W: WSW	5.4	0.66	390	b	b bc Prcu	bc y c Stcu c p ₀ c	c
25	13.2	0.98	13.1	0.97	WNW: NW	NNW: NW	8.6	0.98	414	bc p ₀	b Prcu b y	b bc Prcu y	b x
26	13.5	1.00	13.5	1.00	NW	NW: W: WSW	2.7	0.33	277	b x m ₀	b z ₀ y	c Cist z ₀ y	b f x
27	12.9	0.96	6.0	0.44	WSW: SW	NNW: N	2.5	0.13	179	b x	b f c is f	c St f c b m ₀	c lu-ha b x f
28	5.2	0.38	1.7	0.13	N: NNE	NNE: N	2.5	0.27	269	c x f	c St b Ci m	b bc Ci m ₀	bc c m
29	7.4	0.54	4.1	0.29	N: NNW	NNW	2.2	0.27	273	c m	c Nbst Ir ₀	c Nbst	r ₀ c b
30	11.3	0.82	6.8	0.50	NNW: Calm	Calm	0.5	0.03	115	b x c m	c x m f	c Stcu Ci b f x	b f x
Means	5.7	0.43	4.4	0.34	..	..	..	0.49	293				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 43°.5, being 1°.6 higher than
 The mean *Temperature of the Dew Point* for the month was 40°.4, being 0°.7 higher than
 The mean *Degree of Humidity* for the month was 81.2, being 5.4 less than
 The mean *Elastic Force of Vapour* for the month was 0.252 in., being 0.006 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 7.0.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.173. The maximum daily amount of *Sunshine* was 7.7 hours on November 3.
 The highest reading of the *Solar Radiation Thermometer* was 109°.0 on November 3; and the lowest reading of the *Terrestrial Radiation Thermometer* was 10°.0 on November 30.
 The *Proportions of Wind* referred to the cardinal points were N.15, E.4, S.22, W.45, calm or nearly calm conditions 14, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 20.4 lbs. on the square foot on November 23. The mean daily *Horizontal Movement of the Air* for the month was 293 miles; the greatest daily value was 656 miles on November 12, and the least daily value was 37 miles on November 6.
Rain (0.005 in. or over) fell on 14 days in the month, amounting to 1.100 in., as measured by gauge No.6 partly sunk below the ground; being 1.120 in. less than the average fall for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	BAROMETER Mean of 24 Hourly Values (corrected and reduced to 32° Fahrenheit)	TEMPERATURE							Difference between the Air Temperature and Dew Point Temperature			Degree of Humidity (Saturation = 100)	TEMPERATURE			Rain collected in Gauge No. 6, whose receiving surface is 5 inches above the ground	Daily Duration of Sunshine	Sun above Horizon
		Of the Air					Of Evaporation	Of the Dew Point	Of Radiation				Of the Earth 4 ft. below the surface of the Soil					
		Highest	Lowest	Daily Range	Mean of 24 Hourly Values	Excess above Average of 65 Years			Highest in Sun's Rays	Lowest on the Grass	Mean			Greatest	Least			
Dec. 1	29.316	32.8	21.0	11.8	27.5	-13.4	26.8	25.5	2.0	2.5	0.0	91	42.1	4.0	49.7	0.000	2.1	8.2
2	29.234	40.8	29.8	11.0	34.4	- 6.5	32.7	29.8	4.6	11.7	1.0	82	54.0	20.6	49.6	0.000	2.4	8.2
3	29.121	39.2	33.4	5.8	36.6	- 4.5	35.7	34.1	2.5	3.3	0.4	91	42.7	24.2	49.2	0.018	0.0	8.2
4	29.120	39.6	33.7	5.9	37.6	- 3.7	37.2	36.7	0.9	2.6	0.0	96	42.5	27.1	49.0	0.115	0.0	8.1
5	28.910	49.0	38.0	11.0	45.2	+ 3.7	42.8	39.6	5.6	11.7	1.8	81	67.3	33.0	48.8	0.435	0.4	8.1
6	29.152	45.7	39.7	6.0	42.9	+ 1.4	42.2	41.3	1.6	2.3	0.0	94	56.8	29.7	48.6	0.339	0.1	8.1
7	29.635	44.7	36.5	8.2	41.8	+ 0.5	40.9	39.8	2.0	3.9	0.0	92	56.6	30.0	48.5	0.000	0.0	8.0
8	29.655	46.0	36.4	9.6	42.4	+ 1.4	41.0	39.1	3.3	8.5	0.0	88	52.6	29.8	48.4	0.303	0.0	8.0
9	30.125	45.5	40.6	4.9	42.9	+ 2.3	41.5	39.6	3.3	5.5	2.1	88	57.0	35.7	48.3	0.010	0.1	8.0
10	30.413	44.7	32.8	11.9	40.8	+ 0.4	38.2	34.1	6.7	13.8	1.2	77	57.3	24.0	48.3	0.000	0.5	8.0
11	30.415	41.9	27.7	14.2	35.3	- 4.9	33.6	30.9	4.4	14.1	0.0	83	46.0	16.7	48.2	0.000	0.0	7.9
12	30.293	51.2	41.9	9.3	47.7	+ 7.4	46.3	44.7	3.0	4.1	1.4	89	52.5	38.0	48.2	0.000	0.0	7.9
13	30.316	49.9	44.0	5.9	47.8	+ 7.3	46.2	44.4	3.4	3.9	1.7	88	50.7	41.0	48.1	0.000	0.0	7.9
14	30.367	44.0	39.2	4.8	42.3	+ 1.6	40.1	36.9	5.4	9.5	1.8	81	48.1	34.0	48.0	0.004	0.0	7.9
15	30.439	43.7	37.0	6.7	41.1	+ 0.3	39.5	37.3	3.8	6.0	0.7	86	49.0	30.4	48.0	0.000	0.0	7.9
16	30.405	45.9	43.1	2.8	44.3	+ 3.6	42.6	40.4	3.9	5.8	2.3	86	52.9	39.5	48.0	0.004	0.0	7.8
17	30.340	45.9	43.4	2.5	44.5	+ 4.1	43.0	41.1	3.4	5.5	2.1	88	50.1	41.0	48.1	0.021	0.0	7.8
18	30.201	45.0	39.7	5.3	42.7	+ 2.7	42.0	41.1	1.6	3.6	0.0	94	45.9	38.4	48.0	0.060	0.0	7.8
19	30.194	47.5	41.0	6.5	44.4	+ 4.9	42.4	39.8	4.6	11.3	0.8	84	53.3	39.5	48.0	0.028	0.0	7.8
20	30.232	50.9	42.0	8.9	48.3	+ 9.3	46.5	44.5	3.8	4.6	2.3	86	52.3	34.0	48.0	0.000	0.0	7.8
21	30.271	49.5	40.3	9.2	45.3	+ 6.6	42.6	39.0	6.3	10.5	1.5	79	54.9	28.4	48.1	0.000	0.0	7.8
22	30.111	50.2	45.4	4.8	47.7	+ 9.3	43.9	39.0	8.7	11.0	5.0	72	58.4	38.8	48.0	0.000	0.0	7.8
23	30.106	49.6	43.9	5.7	47.2	+ 9.0	43.3	38.3	8.9	12.3	5.0	70	58.0	39.2	48.0	0.000	0.1	7.8
24	29.913	51.0	44.0	7.0	48.0	+ 9.8	45.7	43.0	5.0	8.3	2.6	83	54.9	41.7	48.1	0.045	0.0	7.8
25	29.533	52.0	36.5	15.5	47.6	+ 9.2	45.4	42.9	4.7	7.6	1.9	83	66.7	32.0	48.1	0.370	0.0	7.8
26	29.577	45.5	36.4	9.1	40.5	+ 1.9	38.2	34.7	5.8	12.5	1.4	79	64.2	31.0	48.0	0.135	4.6	7.8
27	29.253	55.8	41.4	14.4	51.3	+12.5	48.7	45.9	5.4	12.1	0.6	82	57.5	37.0	48.2	0.160	0.0	7.9
28	29.071	50.2	39.1	11.1	46.7	+ 7.8	43.1	38.5	8.2	10.0	6.5	72	59.7	32.1	48.0	0.042	0.0	7.9
29	29.211	40.8	32.3	8.5	36.8	- 2.2	33.4	27.3	9.5	14.0	6.1	67	64.3	25.7	47.9	0.000	5.4	7.9
30	29.333	36.0	29.2	6.8	33.2	- 5.7	31.9	29.9	3.3	6.5	0.8	86	41.8	19.3	47.8	0.035	0.0	7.9
31	29.744	39.2	28.9	10.3	34.0	- 4.7	32.8	30.7	3.3	11.4	0.0	87	46.6	18.9	47.6	0.026	0.4	7.9
Means	29.807	45.6	37.4	8.2	42.2	+ 2.3	40.3	37.7	4.5	8.1	1.6	84.0	53.4	30.8	48.3	Sum 2.150	0.5	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.

The mean reading of the Barometer for the month was 29.807 in., being 0.015 in. higher than the average for the 65 years, 1841-1905.

TEMPERATURE OF THE AIR

The highest in the month was 55°.8 on December 27; the lowest in the month was 21°.0 on December 1; and the range was 34°.8.

The mean of all the highest daily readings in the month was 45°.6, 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 37°.4, being 1°.9 higher than the average for the 65 years, 1841-1905.

The mean of the daily ranges was 8°.2, being 0°.5 less than the average for the 65 years, 1841-1905.

The mean for the month was 42°.2, being 2°.3 higher than the average for the 65 years, 1841-1905.

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1947	RECORD OF THE NIGHT SKY				WIND AS DEDUCED FROM SELF-REGISTERING ANEMOMETERS					CLOUDS AND WEATHER			
	Polaris		δ URSÆ MINORIS		OSLER'S			Robin-son's					
	Duration	Fraction of Total Exposure	Duration	Fraction of Total Exposure	General Direction		Pressure on the Square Foot		Horizontal Movement of the Air	0 ^h to 6 ^h	6 ^h to 12 ^h	12 ^h to 18 ^h	18 ^h to 24 ^h
					A.M.	P.M.	Greatest	Mean of 24 Hourly Measures					
Dec.1	4.0	0.29	1.3	0.10	Calm	Calm: ESE	0.3	0.01	58	b f x	F b f x	b c Acu Ci ff x	f c x
2	5.8	0.42	4.6	0.34	Calm	NE	1.7	0.05	145	c x	bc b Frcu x f	b Acu m _o	b m _o
3	0.0	0.00	0.0	0.00	Calm	E: Calm	0.2	0.00	60	b c r _o c f	c Nbst ir _o f m	c ir _o d _o m	c ir _o m
4	3.1	0.22	2.9	0.21	Calm	SW: Calm: SE	0.5	0.01	92	r _o c d m	d rr f g F	F c b Stcu c m	c b x c r _o
5	6.7	0.48	4.5	0.33	SE: SSE: S	SW: SSW	15.0	1.12	442	c r _o r R	R c p c Stcu	c Acu Nbst bc	bc c iR r
6	1.2	0.08	1.0	0.07	SSE: SE	SE: SW: WSW	3.4	0.17	223	c ir	c Nbst ir g	c Nbst r r _o c b	b c
7	0.5	0.03	0.3	0.02	W: NW: NNW	NW: Calm	1.4	0.05	150	c	c Stcu m	c Stcu m f	c f c
8	1.5	0.11	0.6	0.04	Calm: SE: NW	NW: N	4.7	0.25	266	c rr	r _o c f c Acu Prst	c Nbst r _o c m _o	c r _o c m _o
9	1.7	0.12	1.6	0.11	N: NNE	NNE	4.6	0.47	309	c m _o	c Frcu m _o	c Stcu m _o	c m _o
10	9.3	0.67	4.3	0.31	NNE: Calm	Calm	0.4	0.01	82	c m _o b x f	c f c Frcu z _o	c Frcu z _o b	c b x f
11	0.0	0.00	0.0	0.00	Calm: SW	Calm: WSW	0.1	0.00	126	b x ff	b c x ff	c Stcu ff	c ff
12	0.4	0.03	0.0	0.00	Calm: NW	NW: NNW	1.0	0.04	154	c o ff	o c id _o ff	c St f c m _o	c m _o
13	0.8	0.06	0.4	0.03	NNW: N: NNE	N: NNE	3.6	0.16	233	c b c m _o	c Stcu m _o	c Nbst id _o m _o	c m _o
14	5.5	0.39	4.1	0.29	N: NNE	NE	1.4	0.15	247	c m _o	c r _o c Stcu m _o	c Stcu m _o	c ir _o m _o
15	0.0	0.00	0.0	0.00	NNE: N	N	2.0	0.12	207	bc c m	c Stcu m _o	c Stcu m	c m
16	0.4	0.03	0.1	0.01	N	N	4.3	0.45	327	c id _o m _o	c Stcu m _o	c Prst d _o m _o	c d _o d _o m _o
17	0.0	0.00	0.0	0.00	N	N	5.2	0.69	381	c d d _o m _o	c id _o Stcu m _o	c Stcu id _o m _o	c r d _o m _o
18	0.0	0.00	0.0	0.00	N: NNE	Calm	4.2	0.35	225	c d _o m _o	c Nbst d _o m _o	c St d _o r o m	c r _o r m
19	0.3	0.02	0.1	0.01	NNW	NW: NNW	3.2	0.24	287	r m c m _o	c Stcu m _o	c Ast Frcu m	c m
20	7.6	0.54	3.0	0.21	NW: NNW	NNW: NW	1.1	0.08	189	c m	c St id _o m	c St m	c b w m
21	0.4	0.03	0.3	0.02	Calm: WSW: NW	NW	4.4	0.30	276	b w c m f	c bc Ast f m	bc Ast c m	c m
22	2.7	0.20	1.5	0.10	NW: NNW	NNW: W: WSW	5.9	0.54	358	c m	c Frcu m _o	c Acu Prst	c
23	0.4	0.03	0.1	0.01	WSW: NW	NNW: W: WSW	4.0	0.54	342	c	c Stcu	c Frcu	c
24	3.1	0.22	3.0	0.21	WSW: SW	SW	8.6	0.95	438	c	c r c Stcu	c Stcu	c ir
25	3.5	0.25	2.9	0.21	SW: WSW	Var.: SW: W	15.6	0.98	420	ir c b	c so-ha c Ast	c r c R t l	r c rr
26	2.2	0.15	0.0	0.00	NW: WSW	WSW: SW	9.5	0.78	408	rr c b x	b Cu	b bc Cu	bc lu-ha c r _o
27	0.4	0.03	0.0	0.00	SSW: SW	SW: WSW	14.0	2.16	612	rr r _o c	c Stcu	c r r _o c Stcu	c
28	13.5	0.98	13.0	0.95	WSW	SW: WSW	14.3	1.39	508	c r	r c bc Cist so-ha	bc Cist so-ha c r c	b
29	13.2	0.96	12.7	0.93	WSW	WSW	9.0	0.95	447	b lu-ha x m	b m	b Frcu y	b x
30	11.4	0.83	10.3	0.75	WSW	NW: Calm	2.2	0.17	202	b c x m	c s _o c r s m	s c Stcu b m	b m
31	0.9	0.06	0.1	0.01	WSW	SW: SSW	0.7	0.04	177	b c s b m	b bc Ci Frcu f	c Ast Acu f m	c m r
Means	3.2	0.23	2.3	0.17	..	..	..	0.43	271				
No. of Col. for Ref.	19	20	21	22	23	24	25	26	27	28	29	30	31

The mean *Temperature of Evaporation* for the month was 40°.3, being 1°.8 higher than
 The mean *Temperature of the Dew Point* for the month was 37°.7, being 1°.3 higher than
 The mean *Degree of Humidity* for the month was 84.0, being 3.5 less than
 The mean *Elastic Force of Vapour* for the month was 0.226 in., being 0.010 in. greater than
 The mean amount of *Cloud* for the month (a clear sky being represented by 0 and an overcast sky by 10) was 8.0.
 The mean proportion of *Sunshine* for the month (constant sunshine being represented by 1) was 0.066. The maximum daily amount of *Sunshine* was 5.4 hours on December 29.
 The highest reading of the *Solar Radiation Thermometer* was 67°.3 on December 5; and the lowest reading of the *Terrestrial Radiation Thermometer* was 4°.0 on December 1.
 The *Proportions of Wind* referred to the cardinal points were N.30, E.6, S.15, W.29, calm or nearly calm conditions 20, the whole month being represented by 100.
 The *Greatest Pressure of the Wind* in the month was 15.6 lbs. on the square foot on December 25. The mean daily *Horizontal Movement of the Air* for the month was 271 miles; the greatest daily value was 612 miles on December 27, and the least daily value was 58 miles on December 1.
 Rain (0.005 in. or over) fell on 16 days in the month, amounting to 2.150 in., as measured by gauge No. 6 partly sunk below the ground; being 0.323 in. greater than the average fall for the 65 years, 1841-1905.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1947.

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., 1947.	Reading	U.T., 1947.	Reading	U.T., 1947.	Reading	U.T., 1947.	Reading	U.T., 1947.	Reading	U.T., 1947.	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	
1. 10. 50	29.900	2. 2. 0	29.687	1. 21. 20	29.957	3. 4. 55	29.461	6. 8. 40	29.948	8. 13. 50	29.686
3. 22. 30	30.028	6. 3. 30	29.487	6. 19. 45	29.944	8. 4. 0	29.689	10. 20. 50	29.922	11. 16. 35	29.762
7. 3. 20	29.655	7. 19. 40	29.572	8. 23. 55	29.834	9. 17. 10	29.597	12. 20. 15	29.869	13. 6. 40	29.731
8. 8. 0	29.651	8. 22. 0	29.339	11. 9. 30	29.921	14. 14. 0	29.504	14. 0. 0	29.813	14. 14. 45	29.733
10. 9. 40	29.861	11. 16. 10	29.212	16. 15. 40	29.866	18. 4. 0	29.684	15. 9. 35	29.875	16. 10. 0	29.596
12. 2. 5	29.353	12. 5. 10	29.273	21. 11. 0	30.144	24. 16. 45	29.533	17. 9. 20	30.008	19. 16. 20	29.683
12. 10. 55	29.488	13. 13. 40	29.115	28. 8. 0	30.036			22. 7. 35	30.386	23. 15. 30	29.853
14. 3. 5	29.579	14. 11. 45	29.470					27. 9. 5	30.015	29. 13. 5	29.911
16. 2. 45	29.868	16. 21. 55	29.752	June		June		30. 11. 35	30.310		
18. 10. 25	30.307	20. 17. 0	30.061			5. 5. 0	29.355	October		October	
24. 10. 30	30.356	26. 4. 0	29.764	5. 12. 50	29.461	5. 17. 50	29.366			2. 2. 50	30.092
27. 20. 0	29.975	28. 15. 15	29.730	10. 5. 0	30.244	15. 2. 10	29.230			8. 14. 45	29.814
29. 16. 0	29.846	31. 5. 55	29.508	16. 22. 45	29.999	20. 18. 0	29.745	3. 11. 30	30.300	15. 16. 0	29.957
February		February		22. 23. 40	30.000	25. 2. 40	29.665	11. 22. 5	30.315	23. 5. 45	29.628
1. 10. 25	29.595	3. 16. 0	28.754	26. 0. 15	29.870	26. 20. 50	29.786	19. 9. 40	30.304	31. 3. 10	29.489
6. 18. 10	29.750	8. 16. 25	29.224	27. 11. 20	29.994	27. 12. 45	29.855	26. 11. 0	30.068		
15. 23. 45	30.093	21. 17. 40	29.125	27. 23. 20	29.970	28. 18. 15	29.806	November		November	
24. 1. 40	29.901	28. 5. 0	29.243	30. 7. 35	30.085			November		November	
March		March		July		July		November		November	
3. 0. 5	29.869	6. 0. 0	29.163			5. 5. 35	29.499	1. 11. 5	29.904	2. 18. 10	29.378
9. 12. 0	29.966	11. 2. 30	29.047	6. 8. 25	29.743	9. 4. 0	29.299	6. 8. 0	30.215	10. 2. 50	29.482
12. 9. 45	29.908	13. 23. 20	28.962	10. 7. 50	29.489	10. 17. 30	29.381	10. 20. 20	29.899	12. 14. 10	29.317
15. 9. 45	30.019	16. 17. 10	29.050	14. 7. 0	30.116	16. 12. 30	29.692	14. 10. 5	29.786	15. 4. 10	29.502
17. 11. 0	29.649	19. 16. 40	29.069	17. 22. 15	29.834	19. 14. 10	29.631	16. 11. 30	29.892	19. 5. 40	29.415
20. 20. 0	29.410	21. 11. 50	29.100	24. 8. 50	29.987	29. 3. 20	29.702	21. 10. 15	30.019	22. 17. 0	29.852
21. 19. 50	29.231	23. 5. 35	28.979	August		August		23. 2. 40	29.971	23. 16. 40	29.808
25. 11. 45	29.851	29. 17. 0	28.823					24. 9. 15	30.100	29. 14. 10	29.232
April		April		August		August		December		December	
3. 7. 45	29.477	4. 4. 0	29.025	1. 11. 10	30.032	5. 5. 25	29.469				
5. 10. 0	30.025	6. 1. 33	29.620	8. 6. 0	29.946	9. 18. 0	29.801				
7. 20. 20	29.884	8. 11. 20	29.544	12. 8. 20	30.078	15. 15. 10	29.935				
10. 9. 0	30.524	14. 13. 5	30.083	17. 7. 5	30.034	19. 3. 40	29.863	1. 2. 0	29.359	4. 4. 0	29.039
15. 10. 25	30.205	17. 3. 0	29.937	20. 8. 55	29.975	21. 17. 20	29.785	4. 18. 10	29.202	5. 12. 0	28.738
18. 0. 0	30.037	20. 18. 10	29.549	26. 9. 5	30.169			7. 17. 40	29.768	8. 5. 30	29.558
21. 12. 15	29.806	22. 5. 25	29.502	September		September		10. 21. 0	30.462	12. 14. 15	30.251
23. 3. 10	29.695	23. 16. 0	29.296					15. 10. 55	30.466	19. 17. 15	30.135
25. 0. 10	30.124	25. 18. 45	29.788	2. 22. 50	29.983	4. 17. 30	29.815	21. 3. 0	30.365	25. 21. 35	29.277
26. 12. 0	30.174	28. 4. 10	29.783					26. 10. 30	29.634	28. 5. 35	29.014
29. 7. 15	30.065	30. 3. 55	29.427					31. 16. 45	29.812		

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 1947

	January	February	March	April	May	June	July	August	September	October	November	December
HIGHEST	in. 30.356	in. 30.093	in. 30.019	in. 30.524	in. 30.144	in. 30.244	in. 30.116	in. 30.169	in. 30.386	in. 30.315	in. 30.215	in. 30.466
LOWEST	29.115	28.754	28.823	29.025	29.461	29.230	29.299	29.469	29.596	29.489	29.232	28.738
RANGE	1.241	1.339	1.196	1.499	0.683	1.014	0.817	0.700	0.790	0.826	0.983	1.728

The highest reading in the year was 30.524 ins. on Apr. 10. The lowest reading in the year was 28.738 ins. on Dec. 5. The range of reading in the year was 1.786 ins.

TABLE XIX. - MONTHLY RESULTS OF METEOROLOGICAL ELEMENTS FOR THE YEAR 1947

MONTH 1947	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 85 Years			
	in.	°	°	°	°	°	°	°	°	°	°	°
January	29.823	54.2	11.3	42.9	40.1	30.1	10.0	35.4	- 3.2	34.0	31.7	85.5
February	29.573	41.3	9.0	32.3	32.1	25.7	6.3	29.3	-10.3	28.3	26.5	88.2
March	29.429	58.0	21.6	36.4	46.6	34.8	11.8	40.3	- 1.6	38.4	35.6	82.6
April	29.862	71.9	30.3	41.6	57.9	40.8	17.1	49.2	+ 2.0	44.9	39.3	69.3
May	29.811	87.8	40.0	47.8	67.4	47.7	19.6	57.4	+ 4.3	52.6	48.1	72.2
June	29.797	93.0	44.5	48.5	72.1	52.8	19.3	62.4	+ 3.0	56.7	51.9	69.2
July	29.794	90.2	48.3	41.9	74.9	57.1	17.7	65.2	+ 2.5	60.2	56.4	73.6
August	29.942	89.7	46.8	42.9	78.8	57.5	21.2	67.3	+ 5.6	60.3	54.9	65.0
September	29.900	83.7	40.1	43.6	71.5	51.5	20.0	61.2	+ 4.0	56.4	52.1	72.6
October	29.996	71.8	29.3	42.5	60.7	43.3	17.4	51.9	+ 1.9	48.6	44.9	77.2
November	29.751	61.9	25.0	36.9	50.7	39.8	10.9	45.9	+ 2.4	43.5	40.4	81.2
December	29.807	55.8	21.0	34.8	45.6	37.4	8.2	42.2	+ 2.3	40.3	37.7	84.0
Means	29.790	Highest 93.0	Lowest 9.0	Annual Range 84.0	58.2	43.2	15.0	50.6	+ 1.1	47.0	43.3	76.7

MONTH 1947	Mean Elastic Force of Vapour	Mean Tempera- ture of the Earth 4 feet below the Surface of the Soil	Mean Amount of Cloud (0-10)	RAIN		WIND										From Robin- son's Anemo- meter		
				Number of Rainy Days (0.005 in. or over)	Amount collected in Gauge No. 6, whose receiving surface is 5 inches above the Ground	From Osler's Anemometer								Number of Calm or Nearly Calm Hours	Mean Daily Pressure on the Square Foot		Mean Daily Horizontal Move- ment 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	h	h	lbs.	miles
January	0.178	43.6	6.8	16	1.632	11	125	97	83	70	160	68	4	126	0.36	267		
February	0.140	40.6	9.0	11	1.569	45	272	189	42	19	2	1	21	81	0.25	267		
March	0.208	39.7	7.9	26	5.216	48	47	65	40	160	209	43	37	95	0.52	301		
April	0.241	44.7	5.9	13	1.513	45	28	69	18	70	271	99	18	102	0.90	340		
May	0.337	49.3	6.7	16	1.183	41	56	93	58	62	111	43	21	259	0.19	188		
June	0.389	54.3	6.1	13	2.927	26	18	59	39	106	149	99	34	189	0.26	218		
July	0.459	57.5	6.9	14	1.243	27	29	70	12	37	219	112	25	213	0.20	198		
August	0.435	60.0	4.0	3	0.090	50	205	198	6	5	42	32	25	181	0.17	196		
September	0.392	59.8	5.6	10	1.533	53	69	27	7	53	212	47	53	199	0.22	211		
October	0.299	56.3	6.1	5	0.140	15	104	115	25	27	90	42	19	307	0.18	180		
November	0.252	52.4	7.0	14	1.100	56	8	24	3	32	257	148	91	101	0.49	293		
December	0.226	48.3	8.0	16	2.150	141	59	4	24	24	156	86	99	151	0.43	271		
Sums	..	..	..	157	20.296	558	1021	1010	357	665	1878	820	447	2004	..	..
Means	0.296	50.5	6.7	..	..	..	..	..	..	..	..	..	..	..	0.35	244

The greatest recorded pressure of the wind on the square foot in the year was 35.0 lbs. on March 16.

The greatest recorded daily horizontal movement of the air in the year was 675 miles on April 23.

The least recorded daily horizontal movement of the air in the year was 37 miles on November 6.

GREENWICH METEOROLOGICAL OBSERVATIONS, 1947.

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means	
0 ^h	in. 29.820	in. 29.583	in. 29.440	in. 29.855	in. 29.820	in. 29.802	in. 29.801	in. 29.952	in. 29.903	in. 30.011	in. 29.768	in. 29.810	in. 29.797	
1	29.817	29.580	29.435	29.852	29.813	29.798	29.798	29.947	29.898	30.007	29.759	29.805	29.792	
2	29.822	29.576	29.429	29.851	29.808	29.793	29.791	29.944	29.898	30.001	29.755	29.804	29.789	
3	29.822	29.570	29.421	29.852	29.805	29.789	29.786	29.941	29.893	29.995	29.750	29.800	29.785	
4	29.817	29.566	29.420	29.853	29.804	29.788	29.786	29.941	29.890	29.993	29.744	29.793	29.783	
5	29.814	29.563	29.422	29.855	29.807	29.791	29.788	29.944	29.893	29.991	29.742	29.790	29.783	
6	29.816	29.563	29.423	29.864	29.812	29.793	29.792	29.947	29.899	29.994	29.743	29.790	29.786	
7	29.822	29.565	29.428	29.873	29.816	29.799	29.796	29.952	29.904	30.001	29.748	29.792	29.791	
8	29.832	29.571	29.435	29.877	29.819	29.800	29.800	29.956	29.911	30.006	29.755	29.799	29.797	
9	29.842	29.574	29.435	29.882	29.818	29.800	29.800	29.957	29.911	30.011	29.757	29.809	29.800	
10	29.846	29.577	29.438	29.883	29.818	29.799	29.800	29.955	29.912	30.009	29.760	29.817	29.801	
11	29.842	29.578	29.437	29.878	29.816	29.799	29.799	29.950	29.908	30.005	29.757	29.813	29.799	
12	29.831	29.574	29.434	29.871	29.812	29.800	29.796	29.944	29.900	29.996	29.750	29.804	29.793	
13	29.824	29.567	29.430	29.868	29.810	29.798	29.793	29.939	29.894	29.988	29.746	29.798	29.788	
14	29.817	29.562	29.424	29.859	29.805	29.794	29.790	29.933	29.889	29.982	29.740	29.797	29.783	
15	29.818	29.563	29.419	29.850	29.801	29.792	29.790	29.925	29.884	29.977	29.739	29.800	29.780	
16	29.819	29.564	29.419	29.849	29.800	29.790	29.786	29.921	29.882	29.977	29.741	29.806	29.779	
17	29.818	29.569	29.419	29.846	29.799	29.788	29.782	29.919	29.883	29.982	29.745	29.810	29.780	
18	29.818	29.577	29.426	29.848	29.800	29.788	29.783	29.922	29.889	29.988	29.750	29.813	29.783	
19	29.819	29.581	29.432	29.851	29.807	29.794	29.788	29.928	29.900	29.991	29.754	29.817	29.789	
20	29.819	29.581	29.435	29.859	29.816	29.800	29.795	29.937	29.909	29.994	29.757	29.820	29.793	
21	29.819	29.582	29.436	29.865	29.821	29.809	29.800	29.944	29.913	29.998	29.760	29.823	29.797	
22	29.817	29.582	29.434	29.867	29.823	29.812	29.802	29.949	29.914	29.998	29.759	29.825	29.799	
23	29.817	29.582	29.432	29.870	29.823	29.813	29.802	29.951	29.914	29.998	29.755	29.826	29.799	
24	29.815	29.582	29.431	29.873	29.820	29.811	29.800	29.950	29.914	29.996	29.752	29.823	29.797	
Means	0 ^h -23 ^h	29.823	29.573	29.429	29.862	29.811	29.797	29.794	29.942	29.900	29.996	29.751	29.807	29.790
	1 ^h -24 ^h	29.823	29.573	29.429	29.862	29.811	29.797	29.793	29.942	29.900	29.995	29.751	29.807	29.790
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	° 34.6	° 28.6	° 38.2	° 45.2	° 51.4	° 56.9	° 60.3	° 61.5	° 57.2	° 48.0	° 44.2	° 40.6	° 47.2	
1	34.4	28.4	38.1	44.5	50.7	56.1	59.6	60.7	56.6	47.3	43.9	40.6	46.7	
2	34.1	28.3	37.9	43.9	49.9	55.2	59.0	59.9	55.8	46.9	43.8	40.7	46.3	
3	33.7	27.9	37.8	43.4	49.3	54.7	58.4	59.0	55.3	46.4	43.6	40.8	45.9	
4	33.4	27.6	37.6	42.9	49.0	54.2	58.1	58.4	54.6	45.9	43.3	41.0	45.5	
5	33.1	27.6	37.2	42.4	49.1	54.8	58.5	58.4	54.0	46.1	43.5	41.1	45.5	
6	33.5	27.6	37.5	43.0	51.3	57.3	59.9	59.1	54.1	46.5	43.8	41.1	46.2	
7	33.6	27.7	37.8	45.1	54.0	59.9	61.9	61.3	55.8	47.2	44.1	41.2	47.5	
8	33.9	28.1	38.7	47.7	57.2	62.6	64.1	64.8	58.7	48.8	44.5	41.5	49.2	
9	34.4	29.1	40.3	50.5	59.8	65.5	66.6	68.3	62.5	51.3	45.7	41.9	51.3	
10	35.7	30.0	41.8	52.4	61.4	67.2	68.2	71.4	64.9	54.4	47.2	42.7	53.1	
11	36.9	30.6	42.8	53.8	63.0	67.8	69.6	73.8	67.1	56.4	48.3	43.5	54.5	
12	37.9	31.1	43.5	55.0	63.7	68.3	70.8	75.4	68.2	58.2	49.3	44.2	55.5	
13	38.3	31.3	44.1	55.8	64.4	69.1	71.8	76.8	69.2	59.4	49.8	44.6	56.2	
14	38.3	31.4	44.4	56.4	65.0	69.4	72.3	77.2	69.5	59.7	50.0	44.5	56.5	
15	37.9	31.1	44.3	56.0	65.6	69.2	72.1	77.3	69.2	59.3	49.4	44.2	56.3	
16	37.3	30.8	43.5	55.4	65.0	68.8	71.7	76.6	67.8	58.3	48.6	43.8	55.6	
17	36.6	30.4	42.7	54.7	63.9	68.2	70.8	74.8	66.5	56.6	47.6	43.3	54.7	
18	36.1	29.9	41.7	52.8	62.4	67.0	69.5	72.6	64.4	54.6	46.9	43.0	53.4	
19	35.6	29.5	40.6	50.7	59.9	65.2	67.7	69.5	62.5	53.0	46.2	42.5	51.9	
20	35.3	29.2	40.0	49.3	57.6	62.9	65.7	66.8	60.7	51.8	45.5	42.0	50.6	
21	35.3	28.9	39.6	48.0	55.6	60.7	63.9	64.8	59.2	50.8	44.8	41.7	49.4	
22	35.2	28.6	39.3	46.9	54.4	59.0	62.5	63.5	58.3	49.8	44.3	41.6	48.6	
23	34.9	28.6	38.9	46.0	53.1	57.8	61.3	62.3	57.5	48.8	43.9	41.3	47.9	
24	34.6	28.4	38.7	45.1	52.1	56.7	60.4	61.4	56.7	48.2	43.5	41.1	47.2	
Means	0 ^h -23 ^h	35.4	29.3	40.3	49.2	57.4	62.4	65.2	67.3	61.2	51.9	45.9	42.2	50.6
	1 ^h -24 ^h	35.4	29.3	40.3	49.2	57.4	62.4	65.2	67.3	61.2	51.9	45.9	42.2	50.6
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	33.5	27.8	36.9	43.0	49.3	54.1	57.8	58.4	54.8	46.4	42.5	39.1	45.3	
1	33.5	27.7	36.9	42.4	48.7	53.6	57.3	57.9	54.4	46.0	42.4	39.2	45.0	
2	33.1	27.5	36.8	41.9	48.4	53.1	57.1	57.4	53.8	45.7	42.4	39.5	44.7	
3	32.9	27.4	36.8	41.5	48.0	52.8	56.9	56.9	53.5	45.2	42.2	39.7	44.5	
4	32.6	27.1	36.6	41.3	47.9	52.6	56.8	56.6	53.2	44.9	42.1	39.7	44.3	
5	32.4	26.9	36.4	41.1	47.8	52.8	57.0	56.3	52.8	44.6	42.1	39.7	44.2	
6	32.5	27.0	36.4	41.3	49.2	54.4	57.8	56.8	52.5	44.7	42.3	39.6	44.5	
7	32.5	27.1	36.5	42.5	50.9	55.7	58.8	58.1	53.7	45.3	42.4	39.7	45.3	
8	32.6	27.5	37.4	44.0	52.7	57.1	59.9	59.9	55.6	46.6	42.7	39.9	46.3	
9	33.2	28.2	38.7	45.5	54.2	58.4	61.0	61.5	57.6	48.7	43.5	40.2	47.6	
10	34.1	29.0	39.6	46.3	54.9	59.1	61.5	62.7	58.4	50.6	44.5	40.7	48.4	
11	35.1	29.4	40.1	47.0	55.5	59.4	62.0	63.1	59.4	51.4	44.9	41.1	49.0	
12	35.6	29.6	40.3	47.6	55.8	59.5	62.5	63.0	59.6	52.1	45.5	41.4	49.4	
13	36.0	29.7	40.6	48.0	56.1	59.5	62.9	63.3	60.0	52.6	45.6	41.8	49.7	
14	36.0	29.7	40.8	48.3	56.6	59.5	63.2	63.4	59.9	52.8	45.7	41.9	49.8	
15	35.7	29.6	40.7	48.3	56.8	59.6	63.2	63.5	59.6	52.6	45.4	41.7	49.7	
16	35.2	29.3	40.2	48.0	56.4	59.5	63.2	63.4	59.0	52.2	44.9	41.3	49.4	
17	34.7	29.0	39.8	47.6	56.0	59.3	62.8	62.7	58.6	51.5	44.4	41.0	48.9	
18	34.4	28.8	39.1	47.0	55.2	58.9	62.3	62.0	57.7	50.6	44.0	40.8	48.4	
19	34.0	28.5	38.6	46.1	54.0	58.2	61.6	61.2	56.9	49.7	43.6	40.4	47.7	
20	34.0	28.2	38.2	45.5	52.9	57.1	60.7	60.5	56.2	49.1	43.2	40.1	47.1	
21	34.0	28.0	37.9	44.8	52.1	56.2	59.8	59.9	55.6	48.5	42.8	39.9	46.6	
22	33.9	27.8	37.7	44.2	51.3	55.3	59.1	59.3	55.0	47.8	42.4	39.8	46.1	
23	33.7	27.7	37.5	43.6	50.6	54.6	58.5	58.7	54.7	47.0	42.1	39.6	45.7	
24	33.5	27.7	37.4	42.9	49.9	54.0	57.9	58.3	54.3	46.6	41.9	39.5	45.3	
Means	0 ^h -23 ^h	34.0	28.3	38.4	44.9	52.6	56.7	60.2	60.3	56.4	48.6	43.5	40.3	47.0
	1 ^h -24 ^h	34.0	28.3	38.4	44.9	52.6	56.7	60.2	60.3	56.3	48.6	43.5	40.3	47.0
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	31.6	26.5	34.9	40.1	47.1	51.6	55.8	56.0	52.8	44.6	40.3	37.1	43.2	
1	32.0	26.6	35.0	39.6	46.5	51.4	55.5	55.7	52.6	44.5	40.5	37.3	43.1	
2	31.3	26.2	35.0	39.3	46.7	51.2	55.6	55.3	52.1	44.3	40.6	37.9	43.0	
3	31.5	26.6	35.1	38.9	46.6	51.0	55.7	55.2	51.9	43.7	40.4	38.3	42.9	
4	31.3	26.2	34.9	39.1	46.8	51.1	55.7	55.1	52.0	43.7	40.5	38.0	42.9	
5	31.2	25.7	35.1	39.3	46.4	50.9	55.8	54.6	51.7	42.7	40.3	37.8	42.6	
6	30.8	25.9	34.6	38.9	47.0	51.9	56.2	55.0	51.0	42.5	40.4	37.6	42.6	
7	30.7	26.1	34.5	39.0	47.8	52.1	56.4	55.6	51.9	43.1	40.2	37.7	42.9	
8	30.4	26.6	35.5	39.3	48.5	52.5	56.8	56.3	53.0	44.2	40.4	37.7	43.4	
9	31.1	26.7	36.5	39.3	49.1	52.6	56.9	56.6	53.6	45.9	40.7	37.8	43.9	
10	31.3	27.2	36.4	38.7	48.9	52.6	56.7	56.5	53.2	46.8	41.3	37.8	43.9	
11	32.1	27.4	36.1	38.7	48.7	52.7	56.5	55.3	53.3	46.3	40.6	37.7	43.8	
12	31.7	27.3	35.7	38.7	48.7	52.5	56.5	53.9	52.8	46.1	40.9	37.6	43.5	
13	32.1	27.1	35.5	38.5	48.7	51.7	56.6	53.3	52.7	45.8	40.5	37.9	43.4	
14	32.1	26.9	35.5	38.5	49.1	51.4	56.9	53.1	52.3	45.9	40.5	38.4	43.4	
15	32.0	27.3	35.4	39.1	49.1	51.8	57.0	53.3	51.8	45.9	40.5	38.3	43.5	
16	31.6	26.9	35.4	39.2	48.7	52.0	57.2	53.7	51.9	46.2	40.3	37.9	43.4	
17	31.4	26.7	35.5	39.1	49.0	52.2	57.1	53.7	52.2	46.3	40.4	37.7	43.4	
18	31.5	26.8	35.1	40.0	48.6	52.4	57.2	54.0	52.2	46.6	40.5	37.6	43.5	
19	31.2	26.7	35.7	40.6	48.6	52.4	57.2	55.0	52.2	46.2	40.3	37.4	43.6	
20	31.7	26.5	35.6	40.9	48.5	52.2	57.1	55.8	52.4	46.2	40.2	37.4	43.7	
21	31.7	26.5	35.4	40.8	48.7	52.4	56.8	56.3	52.6	46.0	40.1	37.4	43.7	
22	31.6	26.5	35.4	40.9	48.3	52.2	56.5	56.2	52.1	45.6	39.9	37.3	43.5	
23	31.6	26.2	35.5	40.6	48.1	51.7	56.3	55.9	52.3	45.0	39.8	37.2	43.4	
24	31.6	26.6	35.5	40.0	47.7	51.6	55.9	55.9	52.3	44.8	39.8	37.3	43.3	
Means	0 ^h -23 ^h	31.5	26.6	35.4	39.5	48.1	51.9	56.5	55.1	52.4	45.2	40.4	37.7	43.4
	1 ^h -24 ^h	31.5	26.6	35.4	39.5	48.1	51.9	56.5	55.1	52.3	45.2	40.4	37.7	43.4

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

Hour, Universal Time	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Means	
0 ^h	89	90	88	83	85	83	85	82	85	88	86	87	86	
1	91	91	89	83	86	85	86	83	86	90	87	87	87	
2	90	90	90	84	89	86	89	85	87	91	88	89	88	
3	92	94	91	84	90	88	91	87	88	91	88	90	89	
4	92	94	91	86	92	89	92	89	91	92	90	89	91	
5	93	91	92	89	90	87	91	87	92	88	88	88	90	
6	90	93	90	85	85	82	87	86	89	86	87	87	87	
7	88	93	88	80	79	75	82	82	86	85	86	87	84	
8	86	93	88	72	72	70	77	74	81	83	85	86	81	
9	87	90	86	65	68	63	71	66	73	82	83	85	77	
10	84	88	81	60	64	59	67	59	66	75	79	83	72	
11	82	86	77	56	59	59	63	52	61	69	74	80	68	
12	78	83	74	54	58	57	61	47	58	64	73	77	65	
13	78	82	72	52	57	54	58	44	56	61	70	77	63	
14	78	81	71	51	57	53	58	43	55	60	69	79	63	
15	79	83	71	53	55	54	59	43	54	61	71	80	64	
16	80	83	73	54	55	55	60	45	57	64	73	80	65	
17	81	84	75	55	58	57	62	48	60	69	76	81	67	
18	83	87	78	62	60	59	65	52	65	74	78	81	70	
19	84	88	82	68	66	64	69	60	69	78	80	82	74	
20	87	88	84	73	71	68	74	68	74	81	82	83	78	
21	87	89	85	76	77	74	77	74	79	84	84	84	81	
22	87	90	86	79	80	78	81	77	80	86	85	84	83	
23	87	89	87	81	83	80	84	80	83	86	85	85	84	
24	89	92	88	83	85	83	85	82	85	88	87	86	86	
Means	0 ^h -23 ^h	86	88	83	70	72	70	75	67	74	79	81	84	77
	1 ^h -24 ^h	86	88	83	70	72	70	75	67	74	79	81	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 1947

MONTH 1947	Registered duration of Sunshine in the Hour ending:-																Total Registered Duration of Sunshine in each Month	Corresponding aggregate Period during which the Sun was above the Horizon	Proportion of Sunshine	Mean Altitude of the Sun at Noon
	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h	19 ^h	20 ^h				
January	-	-	-	0.1	2.1	8.4	8.4	8.4	7.3	6.2	3.1	0.2	-	-	-	-	44.2	260.3	0.170	18
February	-	-	-	0.2	1.0	1.4	2.1	2.8	3.4	3.0	1.9	0.7	-	-	-	-	16.5	278.2	0.059	26
March	-	-	0.5	3.2	4.7	5.9	5.3	7.1	6.9	7.7	6.0	4.0	1.4	0.1	-	-	52.8	367.0	0.144	36
April	0.2	2.4	9.6	14.3	14.7	15.5	14.4	15.7	15.8	15.7	13.5	12.2	13.4	8.3	0.4	-	166.1	414.7	0.401	48
May	1.0	7.7	13.7	15.9	17.2	15.2	14.7	13.4	13.6	14.3	15.6	14.6	13.0	13.1	6.9	0.5	190.4	483.1	0.394	57
June	3.1	14.1	14.9	15.4	17.1	17.2	15.0	13.9	15.5	15.2	13.2	14.1	13.3	12.0	12.8	2.4	209.2	496.1	0.422	62
July	0.2	5.4	9.2	9.9	14.0	12.8	12.1	12.4	13.3	13.7	11.4	12.1	12.1	11.9	7.9	1.3	159.7	500.3	0.319	60
August	-	1.2	8.6	14.5	18.7	22.1	23.5	23.0	24.3	22.8	23.4	23.4	20.8	19.1	5.2	-	250.6	453.0	0.553	52
September	-	-	3.3	10.2	15.1	15.3	16.1	15.3	16.8	17.2	15.2	13.5	10.5	3.4	-	-	151.9	381.0	0.399	42
October	-	-	-	0.8	5.9	11.0	13.1	14.4	13.9	13.3	12.2	8.7	3.5	-	-	-	96.8	332.6	0.291	30
November	-	-	-	0.3	1.5	4.9	6.9	7.0	9.7	8.4	6.3	1.2	0.1	-	-	-	46.3	268.0	0.173	20
December	-	-	-	-	0.3	1.7	2.4	2.8	3.9	3.8	1.2	-	-	-	-	-	16.1	245.7	0.066	16
For the Year	4.5	30.8	59.8	84.8	112.3	131.4	134.0	136.2	144.4	141.3	123.0	104.7	88.1	67.9	33.2	4.2	1400.6	4480.0	0.313	..

The hours are reckoned from "Apparent" midnight.

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground						Wet-Bulb Thermometers, 4 ft. above the Ground				Day of the Month	Dry-bulb Thermometers, 4 ft. above the Ground						Wet-Bulb Thermometers, 4 ft. above the Ground			
	Maxi-mum	Mini-mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi-mum	Mini-mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
JANUARY											MARCH										
1	40.3	32.2	33.6	38.9	37.6	39.0	32.6	36.9	36.5	38.4	1	35.7	23.7	28.7	34.4	34.5	31.6	26.5	30.3	32.0	30.3
2	44.8	30.5	37.5	41.0	41.8	31.0	36.5	38.7	38.2	30.5	2	39.0	23.9	29.8	37.2	38.4	30.0	28.8	32.3	32.7	28.9
3	44.0	28.8	35.2	43.2	38.8	37.0	33.2	40.7	37.3	36.0	3	38.0	21.7	29.4	36.9	36.6	30.7	28.0	32.2	32.5	29.7
4	37.4	32.4	35.0	37.0	36.4	32.4	33.9	35.1	34.7	31.2	4	34.7	29.8	33.1	33.8	32.7	30.7	31.1	30.5	30.4	29.7
5	36.3	29.8	31.6	34.2	36.2	33.4	30.4	32.0	34.7	31.8	5	32.5	30.7	32.0	32.2	32.3	32.1	31.6	31.5	31.5	31.6
6	33.4	24.7	27.4	26.9	27.2	27.3	25.3	25.8	25.6	26.0	6	33.0	29.0	30.3	31.8	32.3	30.0	29.5	30.8	31.1	29.2
7	34.6	27.3	32.3	33.1	33.2	34.6	31.7	32.3	32.5	34.5	7	35.4	21.6	25.3	33.2	33.2	23.5	24.7	30.0	31.6	22.5
8	43.0	33.8	34.6	36.0	38.4	43.0	34.4	35.4	37.9	42.5	8	40.2	22.8	33.3	35.3	39.5	37.0	32.1	34.0	36.0	34.7
9	45.8	37.7	39.6	44.3	43.7	37.7	38.4	40.8	41.0	36.4	9	47.5	31.0	38.3	43.9	46.0	38.3	36.0	38.5	40.0	34.5
10	44.5	29.5	32.0	42.9	42.3	43.3	31.5	41.2	41.5	42.7	10	44.4	32.8	36.2	41.6	41.6	44.4	35.8	40.1	41.1	44.3
11	50.0	40.3	40.8	45.0	47.3	44.8	40.3	43.4	45.8	41.8	11	44.6	32.6	33.7	34.3	34.4	32.6	33.0	33.1	32.9	31.5
12	48.0	39.4	42.1	44.6	46.5	48.0	39.4	41.6	43.8	46.9	12	33.5	30.6	32.4	32.8	32.7	32.4	30.7	31.3	31.4	31.6
13	48.7	42.3	43.0	46.3	44.2	40.8	39.9	40.5	39.9	37.5	13	52.2	32.4	47.6	51.0	48.6	47.4	46.7	49.1	47.7	46.9
14	53.0	37.0	46.0	50.3	53.0	52.4	44.8	49.1	51.4	49.0	14	47.4	31.3	34.6	34.3	34.6	31.3	33.3	32.7	32.4	29.7
15	52.4	45.8	50.8	51.9	50.2	46.0	47.6	47.9	47.0	44.2	15	35.3	25.1	31.1	34.9	34.7	32.4	30.4	31.9	31.6	31.9
16	54.2	43.9	45.5	53.0	50.4	50.0	43.4	48.0	46.5	47.2	16	57.0	32.4	47.0	52.6	55.6	46.3	44.5	46.4	48.8	40.3
17	51.9	41.2	44.4	47.0	48.2	41.2	42.3	43.3	43.1	39.2	17	55.7	39.2	44.9	54.8	53.6	45.0	43.4	49.4	48.9	43.6
18	47.6	35.3	38.1	45.5	46.8	40.9	36.9	42.4	42.8	39.4	18	56.0	42.9	50.7	51.5	53.5	47.0	47.2	47.3	47.8	44.7
19	41.1	35.2	37.1	38.1	37.6	37.2	36.6	37.9	37.3	36.9	19	48.6	44.9	46.6	47.9	48.6	46.0	45.6	46.7	46.4	43.4
20	39.7	33.3	34.7	39.3	39.1	36.6	34.4	37.3	35.2	34.8	20	52.1	42.9	45.1	49.4	51.0	47.0	42.1	44.3	45.5	45.2
21	38.0	27.6	30.0	36.7	36.4	29.8	29.0	32.3	34.3	28.8	21	53.7	45.2	50.6	53.0	53.6	46.0	49.7	50.9	47.9	44.0
22	37.3	26.7	32.7	36.0	36.4	31.4	31.2	32.0	32.2	29.4	22	54.9	42.7	49.9	47.3	54.6	46.8	47.3	46.1	49.2	44.2
23	33.6	28.0	30.9	33.3	32.6	28.0	29.5	30.7	30.3	26.6	23	54.3	43.8	49.0	54.0	50.5	43.8	46.2	47.1	45.0	41.6
24	31.9	26.2	27.5	30.2	31.2	28.0	26.8	28.7	28.8	27.0	24	45.7	36.3	44.5	41.6	38.6	37.8	43.4	39.1	36.3	34.8
25	31.3	22.4	26.4	29.3	31.0	31.3	26.1	28.3	29.5	30.5	25	52.6	32.4	42.3	48.4	52.0	40.4	38.7	41.3	44.3	38.2
26	32.0	25.7	29.3	27.6	26.0	27.2	28.4	26.9	25.6	26.7	26	52.8	38.6	42.7	48.4	50.0	42.7	39.4	41.1	41.8	40.0
27	29.5	26.4	29.3	27.9	27.8	26.8	28.8	26.6	25.4	25.5	27	53.9	41.8	47.4	50.3	52.4	48.8	46.4	48.5	49.9	47.4
28	28.8	19.0	27.4	28.6	26.8	19.0	26.7	27.5	26.0	18.0	28	58.0	45.7	47.9	50.8	57.7	52.0	47.3	49.6	53.7	49.3
29	25.8	11.3	19.6	24.0	25.1	20.0	18.5	22.3	23.8	19.0	29	54.9	46.3	50.9	54.4	52.0	47.0	49.9	52.7	51.3	46.2
30	29.7	15.2	23.2	28.6	29.7	25.4	21.9	26.7	28.2	24.9	30	52.4	43.8	49.1	51.6	51.5	43.8	46.8	47.9	47.5	42.6
31	35.0	24.8	29.6	34.0	32.8	32.0	29.1	32.0	31.2	31.0	31	46.4	41.5	45.3	44.8	46.1	43.6	43.8	43.5	43.7	42.4
Means	40.1	30.8	34.4	37.9	37.9	35.3	33.2	35.6	35.7	34.0	Means	46.5	34.8	40.3	43.5	44.3	39.6	38.7	40.3	40.7	37.9
FEBRUARY											APRIL										
1	33.3	25.3	30.1	32.6	31.4	29.8	28.9	30.5	30.4	28.5	1	56.2	39.2	49.8	55.0	53.6	44.8	46.5	47.2	46.9	42.4
2	34.2	28.8	33.7	33.8	33.6	33.7	32.2	33.2	33.1	33.0	2	44.8	38.8	40.9	42.5	42.6	38.8	40.5	41.5	42.1	38.3
3	36.7	33.4	34.9	35.0	35.3	36.2	34.6	34.4	34.8	35.5	3	47.9	36.2	39.7	46.5	47.4	43.6	39.2	44.3	45.0	42.5
4	38.5	29.8	38.4	38.3	37.3	29.8	38.0	38.0	37.1	29.2	4	44.9	39.2	40.2	39.7	40.5	40.0	39.5	38.4	38.0	37.8
5	31.8	28.2	30.2	31.6	31.4	29.0	29.2	29.6	29.7	28.3	5	50.9	35.8	46.2	50.3	49.0	46.6	40.6	44.8	44.4	45.4
6	29.2	27.6	28.6	29.2	29.0	29.0	28.1	28.5	28.5	28.3	6	53.6	46.6	51.2	53.1	47.9	47.4	46.2	47.4	45.4	44.4
7	29.8	27.4	29.1	29.1	29.2	29.8	28.1	27.5	28.2	28.3	7	59.6	44.7	52.0	56.4	58.8	49.8	46.5	46.9	48.0	46.3
8	30.8	28.2	29.5	29.6	30.6	29.8	29.0	28.4	29.5	29.2	8	52.2	44.7	50.4	49.3	48.6	44.7	47.4	44.0	42.5	41.5
9	34.8	28.2	30.0	33.6	34.8	34.8	29.6	32.3	34.1	34.6	9	48.8	36.4	43.8	44.9	48.8	40.8	37.8	38.3	41.0	37.0
10	35.7	33.1	35.1	34.3	33.5	33.5	34.9	34.1	33.0	33.0	10	59.2	30.3	48.2	57.0	58.6	44.0	41.0	46.5	48.0	41.0
11	33.8	25.3	29.2	28.8	27.9	25.3	28.5	28.0	27.2	24.6	11	61.4	33.2	50.6	58.3	60.0	45.7	43.0	46.9	47.5	42.3
12	26.9	24.5	26.5	26.9	25.6	25.2	26.0	26.0	24.7	24.4	12	61.4	37.6	50.0	58.2	60.5	47.8	45.0	48.1	50.0	42.5
13	29.4	25.2	27.1	28.2	29.2	28.3	26.6	27.4	28.2	27.7	13	63.7	37.7	49.0	60.4	63.0	49.6	44.2	50.1	52.0	45.6
14	32.1	27.7	29.7	30.3	31.8	30.4	28.4	29.4	30.8	30.4	14	66.7	42.2	54.9	63.3	66.1	55.5	47.2	49.5	55.0	50.5
15	31.8	28.0	31.3	31.3	30.0	28.0	30.3	30.3	29.0	27.0	15	62.6	52.0	53.5	59.2	59.0	52.0	50.3	53.2	53.5	49.6
16	28.7	25.7	27.8	28.4	28.5	25.9	27.3	27.4	27.5	25.2	16	71.9	42.5	61.4	68.3	70.8	55.4	55.4	57.8	56.8	50.6
17	27.2	25.8	26.6	27.2	26.6	26.0	25.5	25.9	25.6	25.2	17	64.0	44.5	56.0	62.5	59.6	44.5	50.0	52.6	52.3	42.8
18	29.3	25.1	27.5	29.3	27.5	27.4	26.9	27.0	25.6	26.4	18	62.0	41.9	52.6	60.2	56.6	48.8	47.9	53.0	50.5	47.4
19	29.7	26.8	27.6	29.6	29.6	28.6	26.9	27.2	28.1	28.1	19	57.8	43.4	51.5	54.7	55.0	47.4	48.5	49.5	49.8	45.4
20	30.9	26.8	28.2	30.0	30.8	27.8	27.7	28.9	29.2	26.9	20	57.6	41.2	57.0	53.6	55.6	50.6	50.9	50.0	50.6	48.3
21	29.4	24.6	28.4	29.4	27.6	24.6	27.7	28.4	27.3	24.3	21	56.9	45.9	54.2	54.3	56.4	52.0	48.3	49.5	49.8	47.0
22	28.8	24.2	27.0	28.2	28.2	25.8	26.3	27.0	26.5	25.3	22	59.3	45.3	49.1	53.4	55.9	47.2	45.6	50.2	47.7	44.5
23	31.1	22.2	26.0	30.9	30.4	22.2	25.4	28.4	28.8	21.7	23	52.4	42.4	51.9	46.0	49.5	49.2	47.4	44.0	47.9	44.2
24	25.5	9.0	17.0	24.2	25.2	20.8	16.7	23.7	24.2	20.2	24	59.0	45.7	52.6	56.8	57.5	49.8	45.4	45.3	47.5	46.5
25	36.0	10.0	15.4	33.6	35.0	29.8	14.9	30.1	31.3	28.6	25	67.6	42.1	57.6	63.9	67.5	58.4	50.1	53.4	56.4	53.4
26	41.3	29.1	34.6	40.4	39.7	33.0	31.5	34.4	34.4	31.0	26	63.3	46.7	52.5	58.6	62.8	50.1</				

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground					Wet-Bulb Thermometers, 4 ft. above the Ground					Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground					Wet-Bulb Thermometers, 4 ft. above the Ground				
	Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
MAY										JULY											
1	50.8	40.9	43.5	45.2	47.7	42.2	41.7	42.3	44.7	40.2	1	67.1	55.2	63.5	65.5	66.3	62.2	59.4	59.7	59.3	59.2
2	46.6	40.0	41.6	43.7	44.6	43.4	39.9	41.5	42.4	42.7	2	73.8	56.8	64.3	69.0	71.6	64.0	60.1	61.9	63.0	58.0
3	66.0	43.4	58.0	63.3	64.4	54.6	52.5	52.7	52.3	50.1	3	72.7	56.4	66.0	69.5	71.5	65.6	61.0	62.6	63.3	61.0
4	56.6	46.1	50.0	49.2	55.2	46.1	49.3	47.7	51.5	44.4	4	76.4	55.8	64.5	73.0	72.2	61.6	59.5	61.3	62.2	57.6
5	63.6	40.3	58.2	60.5	60.9	53.2	51.7	51.7	51.4	48.4	5	64.6	56.0	60.6	60.0	63.4	56.0	50.1	51.3	52.9	51.0
6	65.3	45.0	52.9	55.9	61.9	55.0	51.2	52.1	56.4	52.3	6	65.9	48.3	58.0	61.3	63.7	58.4	51.3	52.9	55.5	54.7
7	73.0	48.3	68.0	72.5	69.0	55.0	58.4	58.6	57.4	51.6	7	69.8	54.6	57.1	66.7	66.6	55.5	55.0	55.2	54.4	51.5
8	70.8	52.2	66.6	68.6	67.0	57.6	59.4	60.9	57.7	52.8	8	64.7	50.4	61.4	64.2	62.0	55.3	54.1	55.4	56.0	51.8
9	75.3	50.8	64.4	71.8	73.2	62.9	57.4	61.5	62.7	57.7	9	68.0	51.1	59.5	63.6	59.7	56.0	53.9	56.3	56.5	52.0
10	62.9	51.4	60.0	59.2	59.2	51.4	55.6	55.4	54.7	49.7	10	62.0	52.2	54.6	55.9	59.8	58.3	52.4	54.8	58.4	55.0
11	68.9	43.8	60.3	65.0	65.8	58.0	53.2	54.2	55.2	52.0	11	66.1	51.9	58.4	60.0	62.5	58.6	54.0	53.1	54.5	53.2
12	66.0	52.9	57.6	64.5	65.4	55.6	52.7	59.0	59.4	53.6	12	71.3	48.8	63.2	67.4	69.0	59.7	56.5	57.7	59.0	55.3
13	80.3	51.8	68.0	72.4	80.3	66.6	63.4	66.4	68.7	60.0	13	77.6	56.2	63.3	71.4	76.2	69.0	60.9	65.4	68.3	65.3
14	81.1	53.0	75.3	79.5	76.6	53.0	62.7	64.9	63.9	47.2	14	81.0	60.8	71.0	75.8	76.8	66.0	66.3	68.5	67.8	62.5
15	63.7	46.4	55.6	57.0	63.7	50.8	49.9	49.4	52.1	48.7	15	77.7	61.4	70.7	76.1	76.4	66.5	62.7	66.8	65.9	63.0
16	61.5	45.9	55.8	55.3	61.5	50.7	50.7	50.7	53.7	49.2	16	83.2	61.4	72.7	79.4	79.0	70.0	66.6	68.9	68.4	65.3
17	65.2	41.8	59.0	62.4	64.2	52.5	52.1	53.3	55.0	49.0	17	70.0	60.6	65.1	67.0	65.8	63.0	62.9	63.2	63.4	61.7
18	60.2	44.3	54.9	59.4	56.5	50.8	51.9	54.4	53.8	49.6	18	72.6	61.5	68.2	70.1	71.5	61.5	64.2	64.8	65.8	60.5
19	62.2	48.0	50.3	54.4	61.8	56.0	48.0	51.6	55.5	52.5	19	77.0	59.7	67.8	75.2	66.6	59.7	63.8	66.7	62.9	58.1
20	56.0	46.6	49.4	51.3	50.6	49.8	46.8	47.8	48.0	47.5	20	74.8	56.4	60.6	69.0	71.0	60.5	56.0	61.1	62.0	55.3
21	55.7	47.8	50.3	53.0	53.8	51.8	47.5	50.5	51.0	50.5	21	74.5	57.5	68.3	69.2	71.9	67.8	62.2	61.4	62.9	62.8
22	62.7	48.4	50.8	57.0	62.0	49.3	48.9	52.5	54.0	48.0	22	78.5	61.8	74.5	75.8	75.2	65.2	67.0	68.2	66.1	61.7
23	62.2	45.4	50.3	54.2	60.0	55.8	48.5	51.6	56.8	53.6	23	78.9	56.7	69.5	77.4	75.8	66.0	61.9	65.7	64.9	59.5
24	69.7	47.0	62.1	67.0	69.0	58.0	55.5	56.4	58.2	54.0	24	78.0	53.5	67.3	71.2	77.4	65.5	61.3	62.3	65.2	61.2
25	68.4	52.9	62.6	66.4	67.0	57.0	55.6	57.7	57.4	54.0	25	86.6	58.4	72.0	79.9	86.3	73.2	61.8	66.6	70.3	68.2
26	75.3	52.0	69.6	72.1	73.0	59.3	62.5	62.8	62.8	55.5	26	86.3	63.9	75.3	79.6	85.4	73.4	68.0	69.5	71.4	68.4
27	70.8	50.9	60.3	67.6	69.9	59.4	55.1	59.3	59.1	55.8	27	84.9	62.8	79.0	79.1	82.9	69.4	70.8	68.9	71.2	65.6
28	74.7	47.7	68.6	74.0	73.5	58.8	59.4	59.5	61.0	54.8	28	90.2	65.1	80.2	87.0	82.9	77.0	72.4	73.4	72.8	72.5
29	85.1	53.6	76.2	83.4	84.5	71.0	65.5	68.1	68.8	64.5	29	82.4	67.2	73.9	77.3	80.6	71.6	67.3	67.5	68.0	64.0
30	85.7	58.5	77.6	83.0	83.6	67.8	66.9	67.2	68.6	61.8	30	72.0	62.5	67.5	67.3	70.8	62.5	64.2	63.9	65.1	59.8
31	87.8	55.8	76.8	85.8	86.4	69.5	66.7	67.6	66.9	63.7	31	75.4	60.0	65.8	72.3	74.6	63.0	62.1	63.2	63.3	59.4
Means	67.6	48.2	59.8	63.7	65.6	55.6	54.2	55.8	56.8	52.1	Means	75.0	57.6	66.6	70.8	72.1	63.9	61.0	62.5	63.2	59.8
JUNE										AUGUST											
1	87.9	59.1	79.8	85.5	87.4	75.2	68.8	70.1	70.7	66.8	1	77.0	57.2	70.3	76.6	75.0	64.0	62.3	64.9	64.2	60.5
2	90.1	65.3	82.9	87.6	89.6	74.0	70.4	69.9	70.4	66.5	2	73.0	62.4	70.7	71.0	65.0	64.6	60.9	61.7	61.0	62.6
3	93.0	63.6	84.4	91.4	92.4	70.7	70.4	70.3	70.0	62.7	3	79.8	60.2	71.3	76.6	79.6	64.3	65.2	62.6	64.8	58.7
4	75.8	60.3	73.0	74.0	72.0	62.2	64.6	63.5	60.2	56.2	4	78.3	57.9	71.2	74.3	75.3	64.0	64.7	65.3	64.3	58.7
5	64.4	50.9	60.5	62.2	55.3	50.9	55.5	52.9	52.4	48.3	5	70.0	59.2	60.9	61.8	69.6	61.8	57.9	59.5	61.9	58.3
6	61.9	45.8	51.3	53.8	61.4	54.3	49.3	51.6	52.2	51.1	6	73.8	57.6	64.7	69.8	73.7	63.6	60.4	60.7	61.8	57.6
7	69.0	50.2	53.6	63.5	67.5	54.5	52.9	60.0	58.3	50.0	7	71.0	55.9	62.7	67.6	70.2	59.0	55.5	56.6	57.3	53.0
8	66.0	48.4	59.0	64.0	58.8	54.8	52.5	55.7	55.0	51.6	8	76.8	46.8	64.5	71.5	75.4	62.0	55.7	59.2	61.4	56.2
9	66.8	51.2	59.5	64.0	64.9	58.3	52.4	55.3	54.7	51.8	9	75.7	52.0	68.7	73.0	74.0	61.0	60.3	61.5	60.4	56.7
10	73.6	46.9	62.0	69.2	73.5	58.6	51.0	56.0	59.3	52.6	10	70.0	53.6	63.9	65.6	68.8	59.8	57.9	59.0	59.8	57.4
11	72.9	46.5	68.5	72.2	70.3	57.6	58.3	60.5	60.3	55.6	11	75.6	54.2	64.6	67.7	74.7	63.0	58.6	60.4	63.5	59.8
12	62.6	50.0	57.1	61.5	61.2	50.0	50.0	51.9	50.5	45.3	12	77.8	54.2	61.2	73.6	76.5	63.0	58.7	59.9	63.3	59.2
13	62.1	44.7	56.5	60.4	59.5	51.3	49.1	51.4	50.8	47.8	13	80.8	54.2	70.8	79.0	79.6	65.0	64.8	65.0	64.4	59.0
14	61.0	48.0	57.3	56.2	52.6	53.4	54.5	54.5	51.6	51.9	14	82.2	57.7	64.4	77.0	81.5	67.2	61.4	65.8	65.0	63.2
15	62.0	50.6	58.6	54.4	56.0	54.4	54.0	50.7	50.4	49.4	15	88.0	59.4	71.5	83.4	86.7	69.3	65.4	68.6	69.4	62.5
16	67.8	44.5	60.7	63.9	60.6	58.0	54.3	55.3	55.6	54.3	16	89.7	60.2	75.7	86.3	89.6	71.0	65.5	70.4	71.6	65.8
17	77.7	54.2	70.6	75.8	77.3	65.0	62.1	63.5	64.1	60.0	17	88.4	62.4	72.5	84.2	88.4	72.0	65.3	70.0	71.4	64.0
18	68.6	55.7	66.8	67.5	65.2	60.8	60.8	64.0	62.5	59.3	18	88.3	62.8	74.6	84.0	87.2	72.4	66.4	68.5	70.7	65.4
19	70.2	53.9	63.4	66.5	67.4	58.2	56.9	57.9	58.4	53.9	19	81.3	62.8	74.5	80.6	80.7	66.8	64.0	64.4	64.6	58.4
20	63.5	53.7	61.0	63.2	61.6	59.5	57.8	59.7	58.9	58.2	20	83.3	56.6	67.6	79.2	82.8	65.7	61.1	65.4	65.1	63.5
21	72.0	53.2	63.9	67.3	65.8	60.0	57.5	57.9	57.3	55.0	21	80.1	62.4	70.5	80.0	74.1	69.0	64.2	62.5	61.4	60.5
22	66.8	52.9	61.9	63.2	65.2	58.5	55.9	55.7	57.5	54.8	22	77.8	61.8	71.8	76.6	75.3	66.2	64.1	64.3	63.6	60.0
23	69.0	47.5	64.7	66.6	65.8	58.0	57.4	58.6	57.3	54.0	23	81.2	59.6	65.4	75.4	77.5	67.0	61.6	64.4	65.0	63.0
24	78.3	47.0	70.2	75.3	77.4	65.0	60.4	61.3	61.3	59.2	24	78.3	56.3	68.6	74.0	77.0	62.4	60.6	61.7	61.7	58.7
25	78.2	59.3	66.4	74.0	77.4	61.4	57.9	60.6	61.9	56.0	25	79.3	57.7	67.6	75.6	77.6	64.2	60.9	63.4	63.8	60.0
26	87.0	51.9	74.3	80.6	86.8	76.0	64.3	68.1	70.3	69.0	26	78.6									

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

Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground					Wet-Bulb Thermometers, 4 ft. above the Ground					Day of the Month	Dry-Bulb Thermometers, 4 ft. above the Ground					Wet-Bulb Thermometers, 4 ft. above the Ground				
	Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h		Maxi- mum	Mini- mum	9 ^h	12 ^h	15 ^h	21 ^h	9 ^h	12 ^h	15 ^h	21 ^h
SEPTEMBER											NOVEMBER										
1	74.7	52.8	69.2	73.4	72.9	62.2	61.7	61.4	62.3	58.6	1	60.3	39.3	49.2	60.2	60.2	53.9	46.9	55.9	56.2	52.6
2	73.6	55.1	65.8	73.6	73.0	60.0	60.3	60.6	61.5	57.0	2	57.0	51.6	55.7	57.0	54.8	52.8	53.5	52.7	50.4	50.0
3	76.8	48.9	62.3	73.9	75.9	63.7	58.5	60.9	60.4	59.0	3	60.6	45.2	51.2	57.3	54.2	49.0	47.0	49.5	47.8	45.6
4	79.5	54.6	63.4	75.2	75.3	64.0	58.9	63.4	62.9	59.5	4	54.6	44.0	49.0	52.0	54.6	54.3	46.4	49.1	52.6	53.0
5	80.7	51.2	63.8	76.1	79.9	65.0	58.5	62.8	62.5	57.7	5	55.7	44.0	52.0	54.9	53.5	44.0	48.5	48.6	47.5	42.0
6	75.6	55.8	63.4	70.3	75.6	61.0	55.6	57.0	60.0	54.5	6	44.9	34.6	38.9	42.3	44.9	38.8	38.7	41.6	44.6	38.8
7	73.2	52.4	69.0	68.2	68.5	63.4	60.4	60.7	61.7	61.8	7	55.7	34.0	44.0	53.0	53.4	50.2	42.9	49.0	47.7	48.9
8	73.4	61.0	63.6	70.8	70.3	61.0	61.3	63.7	61.3	52.4	8	61.9	46.8	47.3	56.6	60.6	49.6	46.4	51.5	52.8	48.1
9	72.7	45.8	63.6	67.3	72.3	61.8	55.6	56.8	60.5	57.8	9	60.0	49.6	56.9	60.0	57.4	52.0	55.7	57.9	52.2	50.4
10	78.8	57.5	67.3	76.3	78.2	61.2	60.8	63.5	64.7	57.4	10	58.2	49.0	52.0	54.4	54.0	49.0	47.2	48.3	47.9	46.6
11	83.7	50.3	69.8	81.9	83.0	66.0	62.3	67.2	67.7	61.4	11	60.8	47.7	58.6	60.3	59.8	56.7	55.3	55.3	53.4	52.5
12	69.4	62.0	66.6	68.6	66.0	62.0	64.9	65.4	64.4	59.5	12	61.0	54.6	59.6	59.6	59.6	54.8	56.4	57.4	56.4	52.0
13	73.5	55.0	69.3	71.0	63.5	55.0	63.7	63.2	58.0	54.0	13	54.8	45.3	47.0	50.0	49.7	46.6	42.1	43.6	44.2	43.2
14	70.8	50.7	61.0	64.7	70.3	62.0	58.0	62.0	62.8	59.4	14	46.6	38.5	42.0	45.3	45.8	42.0	39.7	42.3	43.2	41.5
15	81.7	58.5	69.3	76.7	80.0	69.7	62.8	65.7	67.6	66.9	15	44.3	37.1	44.3	43.0	42.0	37.1	41.4	37.5	36.2	34.0
16	82.3	60.3	77.9	75.8	74.0	60.3	65.7	65.6	63.3	56.6	16	41.7	31.6	34.6	40.5	41.0	34.0	33.0	37.4	36.7	32.5
17	73.0	47.5	63.4	68.7	69.8	58.0	56.1	57.3	57.8	54.7	17	40.0	31.3	33.9	38.9	38.9	31.3	32.4	35.4	35.2	30.8
18	65.2	55.6	58.2	64.1	65.0	64.6	56.3	61.9	63.5	63.3	18	37.7	30.7	34.6	36.3	37.3	35.8	33.8	34.7	35.0	33.2
19	75.2	62.8	65.2	68.0	71.8	66.4	64.1	66.3	66.9	64.4	19	42.4	35.7	39.6	41.4	42.1	38.8	39.1	40.5	40.9	38.0
20	72.3	57.8	64.7	69.2	69.0	57.8	62.6	64.5	62.5	57.0	20	59.5	36.8	54.0	58.8	59.2	59.4	52.8	56.1	57.4	57.3
21	66.6	54.3	62.4	63.1	66.0	56.0	60.6	56.9	54.6	49.8	21	60.8	58.0	58.8	60.4	59.7	59.2	56.8	57.5	57.1	57.2
22	68.7	45.3	58.0	66.9	67.2	56.3	52.7	56.1	57.0	55.0	22	61.0	58.3	60.0	60.6	58.8	60.3	57.7	57.4	56.3	57.3
23	60.8	51.2	54.0	56.0	58.4	51.2	48.7	49.4	49.6	46.5	23	61.5	49.3	57.8	60.6	58.9	49.3	55.3	55.8	53.6	44.8
24	58.1	43.7	52.0	56.7	56.5	49.8	46.0	48.8	48.5	46.4	24	49.3	39.5	41.9	47.3	48.3	42.8	38.9	42.0	42.3	40.0
25	64.8	40.1	53.1	61.9	61.9	54.8	49.3	52.8	52.7	51.8	25	43.8	37.6	40.9	43.4	42.5	37.6	37.4	37.1	36.0	33.4
26	66.6	51.4	60.6	64.2	66.1	54.4	56.9	55.5	55.7	51.1	26	38.7	31.2	33.6	36.9	38.5	31.2	29.8	31.7	33.0	29.5
27	66.7	48.6	51.5	63.4	64.9	53.4	50.0	57.1	56.9	50.9	27	39.3	27.0	30.0	34.3	39.0	34.8	29.7	32.1	36.9	34.0
28	63.4	51.2	56.7	61.0	62.6	58.0	54.2	56.7	58.1	55.7	28	40.9	30.1	32.9	39.6	40.3	35.5	31.5	37.1	38.3	35.0
29	65.0	52.0	58.8	61.9	60.1	52.0	57.3	59.1	54.5	46.2	29	39.0	34.5	37.1	39.0	38.5	36.3	35.7	37.3	36.8	35.3
30	58.9	43.4	49.9	57.2	57.3	46.0	44.5	46.9	47.0	42.5	30	36.3	26.5	32.4	34.0	33.6	26.5	31.8	32.7	32.6	26.1
Means	71.5	52.6	62.5	68.2	69.2	59.2	57.6	59.6	59.6	55.6	Means	50.9	40.6	45.7	49.3	49.4	44.8	43.5	45.5	45.4	42.8
OCTOBER											DECEMBER										
1	62.5	36.0	49.2	58.8	62.5	49.7	45.0	50.0	51.9	47.3	1	32.8	21.0	24.2	30.3	31.6	29.6	24.0	29.4	31.2	29.2
2	65.0	40.3	54.3	63.0	63.5	56.5	49.8	56.3	57.0	53.3	2	40.8	29.5	31.6	38.3	39.7	35.3	30.9	34.1	36.7	33.5
3	61.7	45.4	56.3	60.6	60.0	50.6	50.6	51.3	50.0	47.4	3	39.2	33.4	36.9	38.3	38.8	37.5	35.8	37.0	37.8	37.1
4	67.2	37.7	49.6	63.0	66.5	51.4	47.8	54.0	55.0	50.0	4	39.6	34.1	38.4	39.1	38.6	34.1	38.1	38.6	37.6	33.5
5	67.8	43.2	46.1	61.6	65.3	48.2	45.9	55.0	57.3	47.0	5	49.0	33.7	47.5	48.5	47.6	45.0	45.5	45.7	43.1	41.8
6	71.2	41.2	52.2	67.3	70.8	55.0	49.4	56.6	59.0	52.7	6	45.7	39.7	44.1	43.5	44.0	42.0	43.4	42.5	43.3	41.5
7	69.3	48.3	56.9	67.0	68.5	58.0	53.4	58.3	61.5	56.7	7	44.7	37.7	43.8	44.0	43.0	38.7	42.7	42.5	41.6	38.2
8	67.3	53.0	59.4	61.8	65.2	58.5	57.4	58.9	60.0	56.5	8	46.0	36.4	41.8	44.9	45.6	42.5	40.6	42.2	42.3	41.2
9	68.0	46.2	53.6	64.3	65.4	58.0	52.3	55.7	56.9	56.0	9	45.5	40.6	43.0	45.5	44.4	43.0	41.2	43.1	42.9	41.3
10	69.0	53.3	61.3	67.7	67.1	58.0	56.9	59.1	60.2	56.5	10	44.7	36.5	40.4	44.3	42.6	36.5	39.2	39.0	38.5	34.5
11	66.8	53.7	60.4	65.8	66.5	55.2	58.4	59.6	59.5	53.9	11	41.6	27.7	29.6	37.8	41.0	41.6	29.4	32.9	37.9	39.0
12	71.8	52.5	58.4	67.5	71.6	53.6	56.4	59.8	61.8	52.6	12	51.2	41.6	46.3	48.3	51.0	50.7	44.8	47.6	49.5	49.2
13	69.6	48.5	53.4	68.5	65.3	57.8	52.9	61.0	59.5	55.1	13	50.7	45.3	48.1	47.8	47.5	45.3	46.3	46.0	46.5	43.8
14	57.8	46.8	55.3	55.2	54.0	46.8	54.4	53.6	51.4	44.8	14	45.3	40.0	42.8	43.0	42.4	40.0	41.1	39.8	39.0	38.3
15	64.4	37.7	52.3	61.3	60.7	56.3	49.0	54.1	53.5	53.1	15	43.5	37.0	41.0	43.2	42.8	43.5	39.9	40.9	40.5	41.0
16	59.9	52.0	56.6	59.5	59.9	52.0	52.8	54.4	54.3	50.7	16	45.9	43.1	45.0	45.7	45.4	43.6	42.7	43.7	42.9	42.4
17	59.7	47.5	51.4	55.2	58.4	55.7	50.4	51.5	52.7	51.4	17	45.9	43.4	44.2	45.4	45.4	44.4	42.7	43.3	43.2	43.2
18	57.0	47.7	50.5	54.3	57.0	47.7	46.5	48.1	50.3	45.2	18	45.0	39.7	44.5	44.2	41.7	39.9	43.5	43.3	41.2	39.8
19	57.2	37.7	48.4	56.5	54.7	46.6	46.5	48.4	47.6	43.6	19	47.0	39.9	43.4	44.1	45.1	46.2	40.7	39.7	42.6	44.8
20	52.6	38.3	46.6	51.8	51.4	38.3	42.6	46.0	45.4	36.6	20	50.9	45.2	49.6	50.2	50.9	45.2	47.9	48.0	49.1	43.7
21	58.7	29.3	40.0	54.3	55.4	46.0	37.5	47.0	49.9	44.5	21	49.5	40.3	42.6	48.0	49.0	47.6	41.3	45.4	45.0	43.2
22	60.2	44.1	56.5	56.4	60.2	52.4	54.9	54.2	54.7	50.9	22	50.2	45.7	48.0	49.3	49.8	45.7	44.3	44.8	45.3	43.3
23	61.6	48.0	53.2	59.0	58.6	48.0	51.9	54.2	52.3	47.0	23	49.6	44.3	48.7	49.4	49.3	44.3	44.3	44.3	44.0	40.2
24	57.6	43.3	46.9	54.0	57.0	49.8	46.4	51.4	54.2	48.8	24	51.0	43.9	47.7	49.2	50.1	50.8	44.9	46.3	47.6	48.7
25	57.9	47.7	50.9	56.5	55.7	47.7	48.5	51.0	50.2	45.2	25	52.0	42.7	49.2	50.6	45.5	43.0	46.9	47.1	44.0	41.2
26	51.7	44.7	46.4	50.4	50.0	47.3	42.5	43.6	42.5	42.0	26	45.5	36.4	39.8	44.6	44.0	40.4	37.3	39.9	40.0	39.0
27	49.9	45.3	46.5	47.5	48.6	48.3	41.5	41.5	43.0	43.5	27	55.8									

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

1947	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	45.4 31.7	35.7 24.0	33.9 22.8	50.7 37.9	50.4 39.7	90.6 57.8	68.7 54.1	78.4 55.4	78.6 51.2	58.9 35.6	53.0 38.4	34.6 19.0
2	44.9 32.9	34.0 26.5	36.7 23.0	56.9 40.0	53.7 39.5	90.2 63.8	68.8 56.5	80.0 61.5	78.5 53.4	63.0 39.5	61.0 48.5	33.0 23.8
3	41.8 28.7	35.0 33.1	40.2 20.5	44.1 35.9	59.0 41.1	92.7 61.5	75.8 55.7	75.6 58.8	77.0 47.6	67.2 42.8	57.2 44.6	41.1 31.0
4	44.7 32.9	38.3 34.0	38.9 29.3	48.2 39.2	67.6 48.9	95.7 58.6	74.4 54.9	81.8 57.3	78.8 52.8	63.4 36.2	60.4 43.2	39.7 36.5
5	37.8 28.9	38.8 27.8	35.2 29.6	46.9 35.5	59.2 39.8	77.1 54.6	78.2 56.0	79.0 58.5	80.5 49.9	69.0 42.2	54.7 49.4	47.6 32.6
6	36.9 26.3	32.2 27.4	32.8 28.9	52.0 45.8	65.0 44.9	66.9 45.5	66.7 47.9	72.3 57.1	81.7 54.2	69.0 40.7	55.9 34.3	49.8 40.2
7	32.6 24.9	29.6 27.1	32.9 19.7	54.4 44.1	69.2 45.9	63.3 49.9	67.7 54.4	76.6 54.4	77.8 50.2	71.1 46.8	44.9 33.9	46.0 38.9
8	35.3 32.2	30.4 28.0	37.0 23.2	61.6 45.6	74.8 50.6	70.8 48.1	71.2 49.8	74.2 45.5	74.2 60.5	70.7 52.6	55.7 44.0	45.8 36.3
9	46.6 34.2	31.3 28.0	41.1 30.6	53.2 34.9	72.5 49.0	67.8 50.9	66.3 50.6	79.9 50.0	75.7 45.4	69.4 44.6	61.7 47.2	46.1 40.2
10	44.9 29.0	36.0 29.5	48.9 32.8	50.7 29.0	76.9 53.5	68.7 45.2	70.3 51.6	79.0 51.2	73.8 56.9	68.2 52.4	61.0 51.0	45.9 36.2
11	45.4 32.3	35.4 28.4	44.9 32.8	60.0 32.9	64.0 42.6	75.2 45.9	64.4 51.7	73.7 52.0	79.2 49.6	69.6 53.0	58.7 47.5	45.7 27.3
12	50.1 38.8	29.3 24.4	35.1 30.5	63.0 35.9	72.2 51.4	75.6 49.9	68.0 48.2	79.3 52.0	83.8 62.5	67.8 52.0	60.8 56.3	46.0 28.0
13	49.2 40.6	27.3 24.9	48.0 31.3	63.3 35.0	70.3 50.9	66.7 43.2	73.4 55.7	81.8 52.0	70.7 57.4	72.3 47.6	61.3 44.5	51.1 45.7
14	46.8 36.5	30.0 26.5	53.4 32.8	65.8 40.9	83.7 52.8	66.0 47.9	79.9 59.0	83.4 56.2	75.6 49.9	70.7 50.9	52.4 37.9	48.3 41.5
15	54.0 45.9	32.4 29.1	35.7 24.5	69.0 51.7	82.2 46.1	64.2 49.9	83.8 60.0	85.0 57.2	71.9 57.9	55.8 36.9	46.5 40.8	43.4 35.2
16	51.9 43.5	31.8 26.6	47.9 31.0	63.6 41.6	66.3 45.4	64.7 43.8	.. 59.9	90.2 57.8	82.3 63.5	64.7 52.4	44.3 30.9	45.3 40.4
17	53.9 43.2	29.3 25.6	57.7 38.5	73.0 42.4	63.8 40.5	72.6 53.8	85.3 60.0	92.3 59.7	82.6 46.7	60.2 46.0	42.2 31.1	46.2 43.2
18	48.7 34.8	28.4 25.6	57.6 41.6	66.0 41.0	68.3 43.3	80.3 54.2	70.3 61.8	92.2 60.3	73.4 54.8	61.3 49.4	40.7 30.2	45.9 43.4
19	47.8 34.3	29.7 25.0	56.3 44.8	63.8 42.6	61.9 47.8	69.3 53.1	75.3 59.1	91.9 61.2	66.7 58.2	58.1 36.2	39.8 34.2	45.0 39.5
20	38.8 32.6	30.6 26.8	49.0 42.6	59.4 40.8	64.8 46.4	72.3 53.1	78.7 56.2	85.0 56.2	77.6 60.3	58.6 40.0	54.3 35.3	49.3 42.1
21	40.8 26.4	31.5 26.5	53.8 44.9	58.0 45.5	52.7 47.5	67.3 52.6	75.7 56.9	86.6 61.5	74.0 53.6	54.3 28.6	59.9 53.8	51.2 39.2
22	39.0 26.1	29.6 23.8	54.3 42.0	57.7 45.5	56.2 48.5	75.0 51.9	77.0 60.9	82.8 60.9	68.0 44.3	58.1 39.7	61.3 57.8	49.8 42.0
23	38.1 27.6	29.8 21.0	55.7 45.1	60.2 41.8	67.3 44.9	69.9 46.8	80.6 55.8	81.2 58.9	69.2 50.8	60.9 47.3	61.7 55.9	50.8 44.5
24	34.2 25.5	32.9 9.9	54.3 39.3	54.6 45.2	65.0 46.3	72.2 46.4	80.7 51.9	84.8 53.5	61.7 42.3	62.7 41.1	61.6 38.7	50.0 44.0
25	32.6 20.9	26.5 9.3	46.2 31.8	61.0 40.8	72.3 51.9	80.8 58.8	80.3 57.3	81.7 57.2	60.3 38.0	59.3 45.6	49.0 38.2	52.0 46.6
26	32.3 25.7	37.3 16.9	53.5 38.4	68.8 44.9	72.0 51.3	80.9 51.0	87.9 63.0	82.7 58.2	66.4 49.8	59.7 43.4	43.8 30.6	51.3 35.9
27	29.6 25.5	41.3 29.8	53.6 41.5	66.2 35.6	77.3 50.1	89.7 65.8	89.2 61.1	82.8 54.1	67.1 47.0	52.8 45.1	38.7 26.2	54.0 38.9
28	29.4 25.5	37.9 30.9	55.3 45.3	63.8 47.8	73.7 45.9	80.7 60.4	88.3 63.5	85.2 56.0	67.9 51.0	51.6 45.6	39.7 29.6	55.8 45.3
29	29.7 9.8		58.7 45.8	63.2 40.6	79.4 51.0	78.1 59.4	91.5 65.5	85.6 56.7	64.0 55.9	52.2 41.9	41.3 32.8	48.2 31.7
30	26.6 13.9		55.8 45.8	64.8 41.7	88.4 57.4	74.7 58.7	85.3 62.2	80.2 53.1	65.8 41.8	50.5 30.4	39.6 29.4	40.8 31.2
31	30.3 22.5		53.3 41.5		88.8 53.9		73.6 59.0	74.7 52.7		49.8 37.7		36.3 28.0
Means	40.6 30.1	32.6 25.6	47.0 34.6	59.5 40.7	69.0 47.4	75.3 52.7	76.6 56.8	81.9 56.0	73.5 51.9	62.0 43.4	52.1 40.5	46.3 37.0

TABLE XXVIII. - AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1947

Gauges partly sunk below the Ground in the Christie Enclosure	Monthly Amount of Rain collected in each Gauge														Height of Receiving Surface	
	Number of Gauge	January	February	March	April	May	June	July	August	September	October	November	December	Sums	Above the Ground	Above Mean Sea Level
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
6	1.632	1.569	5.216	1.513	1.183	2.927	1.243	0.090	1.533	0.140	1.100	2.150	20.296	0 5	149 6	
8	1.642	1.612	5.187	1.481	1.152	2.909	1.240	0.083	1.530	0.139	1.067	2.097	20.139	1 0	150 1	
Number of Rainy Days (0.005 in. or over)	16	11	26	13	16	13	14	3	10	5	14	16	157	..	..

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	10.6	9.9	11.4	11.0	6.1	7.4	6.6	6.9	7.5	5.9	10.6	10.5	8.7
2	10.3	9.9	11.4	11.9	6.5	6.9	6.6	6.9	7.4	6.1	10.6	10.4	8.7
3	9.5	9.9	11.2	11.5	6.0	7.0	6.7	6.3	7.1	6.2	10.6	10.1	8.5
4	9.3	10.4	11.3	10.9	6.5	6.6	6.5	6.1	7.1	6.1	11.3	10.6	8.6
5	9.4	10.5	11.3	11.1	6.2	6.6	7.0	6.4	7.1	6.3	12.0	10.8	8.7
6	10.0	10.7	11.0	11.4	6.0	6.9	7.0	6.9	7.5	6.6	11.8	10.6	8.9
7	10.5	11.4	11.3	12.0	5.7	7.9	7.0	7.4	7.5	6.1	12.3	10.9	9.2
8	10.5	11.1	11.7	13.1	6.3	8.5	7.9	6.8	8.0	6.5	12.0	11.2	9.5
9	10.5	11.6	11.9	13.7	7.4	9.2	8.2	7.6	8.5	6.3	12.7	11.6	9.9
10	11.0	10.8	11.9	15.0	8.4	10.0	8.3	8.1	9.2	7.2	12.3	11.3	10.3
11	11.2	11.3	13.2	15.8	9.2	10.5	9.1	9.1	10.1	8.5	13.0	11.7	11.1
12	12.1	11.3	14.2	16.4	9.7	11.1	9.1	9.7	10.4	8.6	13.5	12.0	11.5
13	11.9	11.9	14.5	16.5	9.0	11.5	9.4	10.2	10.2	9.8	14.1	12.5	11.8
14	12.2	12.5	15.1	17.9	9.8	11.6	10.0	10.7	11.3	9.9	15.0	12.9	12.4
15	12.5	12.6	14.7	18.5	10.4	11.7	10.5	11.1	11.8	9.5	14.5	12.6	12.5
16	12.2	12.3	15.0	17.5	10.0	10.8	10.5	10.8	11.1	9.2	13.6	11.7	12.1
17	11.7	12.6	14.5	17.4	9.8	11.2	10.2	10.6	10.3	8.7	12.8	11.5	11.8
18	11.9	12.0	14.2	16.8	9.5	10.8	10.0	9.7	10.1	8.7	12.3	11.5	11.5
19	12.4	10.7	12.4	15.3	8.5	10.6	9.2	9.1	8.8	8.2	12.1	11.3	10.7
20	12.4	11.5	12.3	14.5	8.1	9.4	8.7	7.9	8.9	7.8	11.5	10.8	10.3
21	11.9	10.6	12.1	13.8	8.0	8.6	8.0	7.0	8.4	7.5	11.1	11.5	9.9
22	11.9	10.6	12.1	13.2	7.6	8.1	7.7	7.1	8.2	7.3	11.4	11.6	9.7
23	10.9	10.9	11.7	13.1	7.2	7.6	7.4	6.8	8.0	6.8	11.0	11.0	9.4
24	10.3	10.4	11.0	12.1	6.6	7.8	7.0	7.1	7.0	6.5	10.5	10.2	8.9
Means	11.1	11.1	12.6	14.2	7.9	9.1	8.3	8.2	8.8	7.5	12.2	11.3	10.2
Greatest Hourly Measures	40	26	52	43	31	27	26	19	25	30	35	33	..

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

