RESULTS OF THE MAGNETIC AND METEOROLOGICAL OBSERVATIONS

Made at the Royal Greenwich Observatory, Abinger
the Royal Observatory, Greenwich
and the Royal Greenwich Observatory, Herstmonceux
in the year

1951

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

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AND

ABINGER MAGNETIC STATION, SURREY.

MAGNETIC AND METEOROLOGICAL OBSERVATIONS 1951.

INTRODUCTION

STAFF

During the year 1951 the staff serving in the Magnetic and Meteorological Department consisted of H. F. Finch, Superintendent, W. Jackson, E. A. Chamberlain, G. F. Wells, P. L. Rickerby, B. R. Leaton, J. D. Winter, Miss C. M. Cannell, R. G. Lorton and D. R. A. Christie. Mr. Chamberlain, resident observer and assistant-in-charge, Mr. Rickerby, Miss Cannell and Mr. Christie were employed exclusively at the Abinger Magnetic Station.

ABINGER MAGNETIC OBSERVATIONS

THE MAGNETIC STATION - *Site* (Lat. 51°11′5″N; Long. 0°23′12″W). Established in 1924, the station is situated on the northern slope of Leith Hill, Surrey, 800 feet above sea level. It is approximately 26 miles from the former site at Greenwich in a direction a little south of south-west. The nearest railway track lies at a distance of about $2\frac{1}{2}$ 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 standardizing of magnetic instruments (work formerly undertaken at Kew Observatory), and measuring 16 feet by 12 feet, is situated about 40 feet south-east of the main pavilion and contains three concrete piers passing through the floor without contact.

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

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

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

Projecting up through the floor are five concrete piers. Two of these, designed originally to support recording mechanisms, occupy the north-west and south-east corners of the room, their longer sides being transverse to the meridian. In 1938 a massive slate slab measuring 8 feet by 2 feet by $1\frac{1}{4}$ 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 milliampere and made to envelop the variometer, is used both to orientate the magnet correctly with respect to the earth's field and to determine the scale-value of the record. The orientation of the magnet was last examined on 1947 December 2 and was then correct within 0°.6. The adopted scale-value during 1951 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 1951 was 0'.92 per millimetre. Expressed as magnetic intensity the scale-value would be 4.99 gamma per millimetre at the present time.

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

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

The Wide-range Variometers. Instruments formerly serving as standard variometers for H and D have been adapted to serve as wide-range recorders capable of registering on a small scale the largest variations in the two elements deemed possible of occurrence at Abinger. The H variometer, which was superseded as the standard by the La Cour recorder, has been "desensitised" by the addition, immediately beneath its base-plate, of a bundle of strongly magnetised needles set at right-angles to the magnetic meridian. The scale-value is 19.5 gamma per millimetre. The D variometer used at Greenwich from 1917 to 1925 is now fitted with a lens of 50 cms. focal length, which gives a scale-value of 3'.7 per millimetre. The two instruments are located as described on p.vi. The present position of the D variometer is such that it is necessary to deflect the recording light rays towards the recording cylinder through a large angle, and an appropriate mirror rigidly supported between the variometer and cylinder forms part of the apparatus. The wide-range variometers have been in regular operation since 1940.

Recording Mechanism. The two principal features of the La Cour recorders are: the three elements H, D and Z are recorded on separate strips of a single photographic sheet; the range over which the elements are able to record is greatly extended by the use of prisms in the optical train which furnish a multiple set of images. For each element are formed six secondary images, three on each side of the principal image, the separation being so adjusted that the image from one prism appears at the edge of the record just before the adjacent image passes off the opposite edge. The time-scale is approximately 15 mm. to the hour.

The time-marks are in all cases photographically printed on the sheets by momentary automatic illumination of an electric lamp. In the case of the La Cour magnetograph the original arrangement provides a series of small dots which constitutes a second, interrupted, trace of the element. These marks, however, have been 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 contined 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 1951 is based were verified in June 1951, when, to cope with the increasing value of H, the standard resistance of the potentiometer was shunted with one of 400 Ohms. 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.

Comparisons of observations made in 1950 with this instrument and with the QHMs of the Association of Geomagnetism and Aeronomy revealed a difference in the mean of 4.8γ, the coil giving the smaller values.

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 (see above). 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 1951 for the measurement of the current were verified at the National Physical Laboratory in 1951 July. 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.

Considerable difficulty was experienced at times during the year in obtaining the required stability and sensitivity. The trouble was subsequently traced to the oscillator. During these periods an additional check was maintained upon the base-line values of the Z variometer using BMZ 35.

The Absolute Inclination Instrument. An Earth Inductor by the Cambridge Instrument Company, in conjunction with a Broca galvanometer, is used to determine magnetic inclination. Determinations are normally made on weekdays. 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 coefficients are adjusted for non-cyclic change during 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 XVB contain the daily values of the base-lines of the magnetograms reduced from the absolute observations.

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

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

GREENWICH METEOROLOGICAL OBSERVATIONS, 1951

Throughout the first four months of the year until April 30 readings were taken at 09 00 U.T. of the following:- barometer, dry-bulb and wet-bulb temperatures, maximum and minimum air temperatures, solar maximum and grass minimum radiation and rainfall. The maximum and minimum thermometers in the revolving stand were also read. In addition sunshine and night-sky records and a weather diary were maintained.

From May 1 readings of the barometer and of the solar maximum thermometers, together with those of the maximum and minimum thermometers in the revolving stand, ceased. At the same time the weather diary was discontinued.

HERSTMONCEUX METEOROLOGICAL OBSERVATIONS, 1951

Sunshine Recorder. A Campbell-Stokes sunshine recorder, M.O. 284/48 (sphere No. 1142/48), brought into use on July 1, 1950, is mounted upon a specially constructed brick pier on the east turret at the South Entrance of the Castle. With this instrument sunshine records were secured throughout the year.

Night-Sky Camera. This instrument was constructed in the workshop at Greenwich and consists of a simple quarter-plate camera, protected by a surrounding weather proof box, and incorporating an ordinary 2 dioptic spectacle lens, of focal length approximately 48 cms. The working aperture is 19 millimetres.

The camera is mounted on the roof of the Solar building and the shutter is opened and closed at the appropriate times by hand. It was brought into regular use on July 6, 1950.

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 220 yards
g gale
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 ₀ indicates "slight"
A letter repeated indicates "continuous"

CLOUD FORMS

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

ADDITIONAL SYMBOLS

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

ROYAL GREENWICH OBSERVATORY

ABINGER MAGNETIC STATION

Results of Magnetic Observations

1951

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																									
	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	73.1	72.6	74.0	77.0	75.8	75.9		77.1	77.3	77.7	78.2	78.2	77.9	78.9	78.8	78.4	79.9	80.7	77.6	78.6	77.8	76.9	74.1	72.8	74.7
2 **	73.9	73.4	73.6	73.1	73.9	76.2		73.9	75.6	76.9	77.6	78.6	79.9	80.4	80.4	81.1	76.7	79.0	77.9	77.8	74.2	73.3	76.6	75.8	72.6
3	73.8	73.6	74.6	75.6	80.6	77.6		76.3	76.6	77.3	77.6	77.6	78.7	79.0	77.2	76.3	77.0	77.1	77.0	76.0	73.6	76.3	75.6	72.6	74.0
4 *	74.7	75.2	75.7	75.9	75.5	75.6		75.5	75.1	75.5	75.5	76.5	77.5	78.4	78.7	77.7	77.8	78.3	76.8	78.1	78.0	76.8	75.0	76.5	76.5
5	75.7	75.5	74.5	75.7	75.2	75.6		76.5	76.0	76.5	76.8	77.8	78.8	79.8	78.5	77.5	77.9	79.0	78.9	78.5	78.5	75.8	71.0	71.3	74.0
6 *	75.6	76.4	76.5	76.8	77.1	76.4		75.9	75.2	75.0	75.4	76.3	77.9	79.4	79.2	77.6	77.0	76.6	76.3	76.1	75.7	73.9	75.7	76.0	76.0
7 *	76.2	76.6	76.6	76.6	76.1	76.0		75.8	75.2	75.1	75.9	76.9	78.5	78.4	77.7	76.5	76.5	76.5	76.5	75.7	75.5	75.2	74.8	74.5	75.7
8	76.3	76.7	76.5	76.7	76.6	76.5		76.5	75.7	76.7	77.3	78.7	80.0	81.7	81.1	80.2	78.5	77.2	77.3	76.9	75.5	74.8	75.2	75.3	75.7
9 *	76.3	76.6	76.8	76.9	76.9	76.6		76.8	75.6	76.3	77.1	76.8	77.9	78.7	78.8	77.8	77.4	77.5	77.5	77.0	75.9	75.4	75.3	75.5	75.6
10	74.8	74.1	75.3	74.6	75.3	74.8		75.6	75.9	75.6	75.4	75.6	76.7	78.6	79.9	78.8	79.6	80.7	78.4	82.6	75.7	75.6	74.6	73.8	74.4
11	74.2	74.8	70.6	73.6	74.8	74.6		75.2	75.6	75.6	76.4	76.6	76.8	77.8	77.6	77.2	77.6	78.6	79.7	80.6	81.3	78.7	76.6	70.9	72.6
12	73.7	73.8	76.3	74.5	76.1	77.6		79.2	75.8	76.0	78.4	77.8	79.4	79.1	78.4	77.8	77.2	76.7	77.9	76.7	75.6	74.0	74.7	74.4	74.8
13	75.2	75.1	77.6	74.9	72.8	73.6		75.4	75.3	75.6	76.1	76.2	77.4	79.0	79.2	78.1	77.2	77.0	77.6	78.0	72.0	70.6	74.1	73.0	73.0
14	74.4	75.6	73.7	72.6	73.6	73.8		74.7	75.2	75.5	76.0	76.5	76.9	79.6	79.4	79.4	78.9	78.6	77.3	77.9	77.6	74.2	70.8	72.0	73.6
15	73.2	72.6	77.6	78.6	74.3	74.6		74.8	75.0	75.6	75.6	76.6	78.6	77.8	78.9	78.5	77.6	76.9	77.3	79.4	73.6	72.6	73.3	67.5	71.6
16	71.6	75.6	75.6	75.3	74.7	74.4		74.6	74.6	75.1	76.3	77.3	78.1	78.6	76.8	77.6	76.6	71.2	74.9	75.8	73.6	71.2	68.4	71.4	74.4
17	74.2	77.3	74.9	71.8	73.9	74.6		74.6	75.3	74.8	76.1	77.1	76.8	77.5	77.6	77.0	76.6	76.4	77.3	76.8	75.6	75.1	74.2	74.6	74.6
18 *	75.3	75.7	75.5	76.1	75.5	75.1		75.4	75.2	75.0	75.5	76.8	78.0	78.7	79.1	77.7	76.3	76.3	77.2	77.5	75.6	75.3	72.2	70.9	73.2
19	74.2	75.6	75.5	72.6	73.5	73.3		73.5	74.2	75.5	76.5	77.7	78.5	79.9	80.5	78.4	77.9	77.5	77.9	78.1	76.9	76.8	68.1	66.7	68.9
20	67.9	70.2	72.1	75.6	75.9	75.1		75.5	74.9	74.5	74.5	76.1	78.2	80.1	81.2	79.9	78.2	78.0	77.0	76.5	76.0	75.7	75.5	75.3	75.7
21 **	75.5	75.9	75.8	75.8	75.7	75.9		75.6	75.5	75.5	76.1	77.5	77.7	78.7	78.6	76.5	76.8	81.1	78.1	77.5	73.5	73.1	63.3	71.3	73.1
22 **	76.0	75.4	73.5	69.7	75.2	76.2		81.5	85.9	80.5	77.9	78.1	78.4	77.9	77.5	78.3	74.8	69.5	70.7	72.7	72.5	62.2	56.8	69.8	73.4
23 **	77.5	78.4	75.8	74.8	76.2	76.5		76.5	75.7	75.4	75.5	76.0	77.8	79.2	80.1	77.2	77.5	75.8	72.5	69.8	69.8	74.0	73.5	73.5	74.3
24	74.5	75.4	76.2	76.5	76.5	76.7		75.1	74.7	74.5	75.4	76.5	78.1	78.0	79.5	78.5	77.7	76.7	75.9	75.5	73.7	72.5	73.4	72.4	74.5
25	75.8	75.8	75.7	76.0	75.7	75.7		75.3	75.5	74.3	75.0	76.5	77.5	79.1	79.5	77.1	77.3	76.5	76.5	76.5	75.4	73.4	71.3	72.5	73.7
26	74.5	75.1	75.5	75.7	75.5	76.1		76.3	75.5	75.5	76.3	76.3	76.5	77.3	78.8	78.9	78.2	79.9	82.7	80.8	79.3	73.7	73.2	73.1	73.5
27	74.4	73.8	73.5	73.6	76.5	73.8		75.3	75.5	75.5	75.8	75.5	76.6	77.3	79.5	77.1	77.2	77.8	76.9	75.5	77.0	76.2	73.8	69.4	70.9
28	71.1	72.2	71.1	73.8	74.5	75.3		75.6	76.0	75.6	76.0	74.7	76.6	76.6	79.0	79.1	77.4	77.9	76.1	66.8	69.2	74.6	70.0	73.8	74.6
29	73.6	74.6	74.6	73.4	75.0	75.6		75.0	75.0	78.2	77.9	77.3	77.3	77.7	78.6	77.1	76.7	77.5	77.6	78.6	77.3	77.4	73.0	74.7	71.3
30	70.0	71.2	72.6	74.0	74.0	75.5		75.5	76.8	76.5	76.1	76.6	76.6	77.3	77.6	76.8	78.1	79.6	77.6	75.6	78.8	76.8	75.2	71.6	73.6
31 **	73.8	73.6	69.9	66.2	64.9	72.4		74.4	78.8	80.2	83.8	84.9	81.7	82.2	84.6	80.5	79.1	81.2	79.4	82.0	80.6	72.6	69.1	67.2	68.2
Mean	74.2	74.8	74.8	74.6	75.1	75.4		75.8	75.9	76.0	76.6	77.1	78.0	78.8	79.1	78.1	77.5	77.5	77.2	77.0	75.7	74.3	72.5	72.6	73.6
Mean *	75.6	76.1	76.2	76.5	76.2	75.9		75.9	75.3	75.4	75.9	76.7	78.0	78.7	78.7	77.5	77.0	77.0	76.9	76.9	76.1	75.3	74.6	74.7	75.4
Mean **	75.3	75.3	73.7	71.9	73.2	75.4		76.4	78.3	77.7	78.2	79.9	79.1	79.7	80.2	78.7	77.0	77.3	75.7	76.0	74.1	71.0	67.9	71.5	72.3
February																									
	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	71.6	63.3	62.2	62.8	68.6	69.2		71.6	72.3	73.2	74.4	75.8	76.6	77.6	78.5	77.7	77.9	77.8	78.4	78.7	78.9	73.2	70.1	71.9	74.6
2 *	74.6	74.5	73.9	72.6	73.3	74.6		75.3	75.2	75.3	75.6	76.6	76.9	77.3	76.9	75.6	75.6	76.4	76.6	76.7	76.2	75.6	74.0	75.3	74.6
3 *	74.6	74.4	74.6	74.6	74.5	74.6		74.6	74.4	74.7	75.6	76.6	77.6	78.6	78.6	76.9	75.9	76.4	76.6	76.4	75.6	74.5	74.7	75.4	74.8
4	75.6	75.6	75.6	75.3	74.9	74.6		74.3	74.6	75.6	76.2	77.4	80.4	80.8	80.1	80.7	77.9	79.6	77.3	75.5	75.0	74.6	74.8	74.6	75.2
5	74.6	74.6	74.8	75.1	74.1	74.1		75.3	75.1	75.9	76.1	77.1	76.6	77.6	79.6	80.8	78.6	78.3	78.5	78.6	74.6	75.9	68.6	67.3	67.6
6	74.6	74.9	59.3	63.7	65.8	70.5		71.6	72.2	73.6	74.8	76.6	77.8	78.8	78.6	76.6	74.8	74.5	74.8	75.5	74.6	74.6	74.6	74.8	75.2
7	74.9	73.4	72.4	72.6	73.6	73.2		72.8	72.3	72.8	72.8	75.5	77.6	79.5	79.0	78.2	76.4	75.7	76.6	75.6	70.5	72.6	73.6	73.1	72.9
8	74.6	77.2	75.8	75.6	75.6	75.0		74.9	73.9	74.2	74.2	76.6	77.3	80.8	79.6	78.5	79.5	74.8	73.2	72.8	69.4	69.6	66.9	70.8	72.6
9	73.6	75.4	73.9	72.6	74.3	74.3		75.4	74.3	75.6	74.3	74.1	77.8	81.3	79.6	81.6	76.2	77.6	76.9	72.7	66.3	71.0	70.7	72.3	71.1
10	70.1	74.6	76.1	72.6	71.6	73.6		73.2	76.5	76.0	76.6	78.0	78.2	79.0	82.2	78.7	76.7	75.6	75.6	73.3	71.2	73.9	73.7	64.6	70.8
11	72.0	75.3	74.1	71.1	71.6	73.1		74.1	74.6	75.3	74.7	74.9	76.8	78.6	79.6	79.3	79.2	75.7	70.3	77.7	73.6	74.8	75.0	73.3	69.4
12	69.6	71.8	70.3	62.3	65.9	73.7		72.7	73.7	76.5	77.9	78.8	79.1	81.3	79.6	81.2	80.4	78.6	76.6	61.3	72.3	75.9	75.3	70.8	70.6
13	73.6	74.5	76.2	75.6	71.9	71.9		73.7	74.2	76.6	77.9	78.9	79.6	79.4	78.2	78.9	76.5	76.3	75.8	75.8	70.7	70.6	73.8	73.6	72.8
14	72.4	72.6	72.9	72.6	72.6	72.8		73.6	73.0	73.9	75.3	75.8	76.7	78.0	78.6	78.6	77.6	76.3	75.5	69.6	73.0	74.2	71.0	72.4	74.5
15 *	75.0	75.5	75.6	74.9	74.0	74.2		74.0	74.2	74.9	76.3	77.6	78.1	78.4	78.1	77.1	77.1	76.4	76.6	76.0	76.1	75.0	75.1	74.1	73.6
16 *	75.1	74.6	74.5	74.4	74.5	74.6		74.5	74.5	74.6	75.3	76.6	77.4	78.1	78.3	77.7	77.1	77.1	77.0	76.9	76.4	75.1	75.4	75.1	75.1
17	75.0	75.1	75.0	75.1	74.8	74.4		74.3	74.0	73.1	74.1	75.9	78.3	78.9	80.3	79.6	78.6	78.4	77.6	78.6	76.9	75.6	74.6	74.5	73.6
18	71.9	70.4	72.9	72.9	72.7	72.6		72.8	72.8	73.2	74.9	77.3	79.6	80.4	80.6	80.9	79.2	76.8	75.6	73.9	71.8	73.3	73.7	74.4	74.6
19	74.8	74.9	75.5	75.6	76.4	76.3		75.6	74.7	74.5	75.6	78.6	79.3	80.6	79.3	78.6	76.6	76.4	76.6	76.2	74.8	74.9	74.5	69.0	71.6
20 *	73.5	75.2	76.2	76.1	75.9	74.3		74.4	73.6	73.1	73.5	74.9	75.8	77.6	77.6	77.5	76.3	75.6	75.6	75.6	74.8	74.6	74.9	74.8	74.8
21	74.7	75.3	76.6	75.6	73.8	73.8		74.6	74.4	73.9	74.4	75.9	77.4	79.3	79.3	79.4	77.3	76.1	76.2	70.7	73.4	71.9	73.3	74.6	74.6
22 **	75.3	73.0	71.3	72.1	72.6	77.6		75.8	77.1	72.6	74.5	76.3	78.8	80.6	79.2	81.1	81.5	73.3	73.3	76.6	68.7	70.6	72.4	68.5	69.6
23 **	68.4	65.6	74.0	72.6	75.2	76.5		74.2	73.6	77.9	76.6	76.6	80.1	79.6	81.3	82.4	74.8	78.1	72.4	67.3	67.4	60.3	70.8	66.8	68.3
24 **	68.8	68.4	73.6	70.6	71.6	72.9		73.6	75.6	76.6	77.8	76.8	79.8	77.6	81.4	79.4	75.8	74.5	68.9	75.5	71.8	74.0	73.6	73.4	74.8
25	72.8	73.4	74.2	73.9	73.6	72.8		72.6	72.6	73.4	74.6	75.6	76.6	78.8	79.4	78.6	76.6	74.4	74.6	74.6	73.6	74.3	72.9	74.9	73.2
26	74.2	74.6	74.6	74.4	75.4	74.5		74.9	73.9	74.2	73.4	74.3	76.0	77.4	80.2	79.4	76.3	76.6	71.0	69.2	73.3	73.2	73.6	73.9	74.6
27 **	81.6	78.6	65.2	69.5	70.6	69.3		71.8	69.6	72.6	74.1	75.6	76.9	79.3	78.6	79.5	77.7	80.6	77.4	80.3	79.3	77.6	76.9	75.8	74.6
28 **	73.6	74.6	76.3	82.0	83.8	80.6		77.5	78.9	77.9	73.6	73.6	73.6	74.5	75.1	76.0	74.8	75.3	75.8	75.8	74.2	70.4	72.8	71.4	72.6
Mean	73.6	73.6	73.1	72.8	73.3	73.9		74.1	74.1	74.7	75.2	76.4	77.7	78.9	79.2	78.9	77.2	76.5	75.4	74.5	73.4	73.3	73.3	72.5	72.9
Mean *	74.6	74.8	75.0	74.5	74.4	74.5		74.6	74.4	74.5	75.3	76.5	77.2	78.0	77.9	77.0	76.4	76.4	76.5	76.3	75.8	75.0	74.8	74.9	74.6
Mean **	73.5	72.0	72.1	73.4	74.8	75.4		74.6	75.0	75.5	75.3	75.8	77.8	78.3	79.1	79.7	76.9	76.4	73.6	75.1	72.3	70.6	73.3	71.2	72.0

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.		0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March		8° + Tabular Quantities																								
		′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1		70.4	71.0	71.6	69.9	71.6	73.6		74.6	73.6	73.5	74.9	76.1	78.6	77.9	77.6	77.3	76.8	75.4	76.3	75.6	75.3	74.8	74.7	74.2	73.8
2	*	73.8	73.8	73.6	73.6	73.6	73.6		73.8	73.6	73.4	73.6	74.6	76.5	78.3	77.6	76.3	75.0	75.1	75.2	75.1	74.7	75.0	75.4	74.7	73.3
3		73.7	74.3	74.3	74.3	74.1	73.7		77.1	74.1	73.6	73.8	75.8	77.4	78.5	79.1	77.3	76.1	75.6	75.7	75.4	75.0	75.2	75.1	75.1	74.7
4	*	74.7	74.3	74.2	74.2	74.2	76.1		74.8	73.1	72.4	72.7	73.7	75.4	77.7	77.9	77.7	76.8	75.5	75.5	75.7	75.5	75.2	74.0	73.0	73.7
5	*	74.7	74.7	74.7	74.5	74.1	73.7		74.7	75.4	74.4	74.2	75.2	76.5	77.7	78.7	78.3	77.5	77.6	77.3	76.9	75.7	75.1	74.9	74.9	74.7
6		74.9	74.7	74.5	75.7	73.5	72.7		73.0	74.7	74.7	74.2	75.5	77.4	79.1	80.7	82.6	79.7	78.4	77.6	76.7	75.1	72.3	73.5	73.9	75.1
7	**	74.3	76.7	73.7	75.2	72.3	73.0		73.1	73.2	73.4	73.9	76.3	78.1	82.7	86.7	83.1	82.5	79.7	79.6	75.9	74.1	75.3	74.8	70.7	68.6
8		71.7	73.2	76.3	73.7	73.5	72.8		75.7	77.4	76.7	77.1	76.1	78.3	77.3	79.5	77.9	73.7	76.4	72.7	66.6	72.7	71.3	72.3	67.3	69.5
9		74.7	71.1	74.2	72.6	70.9	73.3		77.7	75.5	77.0	75.7	75.7	76.9	78.7	79.7	77.8	74.7	74.6	72.7	74.2	67.4	67.5	66.6	68.5	68.3
10	**	60.7	66.7	70.7	71.4	73.5	72.3		74.9	76.9	74.7	74.7	76.7	77.7	81.1	77.9	79.7	78.7	73.3	74.7	67.7	67.9	70.4	70.7	72.6	68.7
11		63.5	67.4	70.4	70.6	70.8	71.4		75.7	75.5	73.7	74.7	76.7	78.9	81.1	82.5	82.9	80.4	72.7	75.0	72.3	67.9	69.4	74.3	74.0	73.3
12		74.0	75.4	77.9	73.4	73.4	76.4		75.9	73.6	75.9	74.7	76.4	79.7	80.7	80.5	77.7	80.3	78.5	77.0	75.7	73.0	71.7	72.3	71.7	72.0
13	**	71.7	72.7	71.7	72.4	73.7	71.0		71.7	72.7	72.9	75.5	76.7	81.4	81.5	81.4	83.3	81.6	80.6	78.1	66.5	63.1	58.7	61.5	58.1	71.8
14	**	73.9	72.0	70.5	70.7	75.1	77.6		74.5	72.7	72.1	73.0	74.6	77.4	79.4	81.0	85.7	83.4	79.7	77.0	73.7	72.7	72.3	67.2	66.0	67.5
15		65.7	69.3	61.5	67.9	69.4	71.3		72.0	73.5	75.4	75.7	75.7	78.3	80.5	80.9	80.2	78.6	76.7	76.0	76.4	75.9	75.5	75.4	74.9	74.7
16		74.4	74.4	74.4	74.7	75.9	73.5		73.7	73.0	73.5	74.7	79.2	81.4	82.0	81.3	79.9	77.9	76.7	75.3	75.0	74.8	67.5	67.7	69.9	70.9
17		73.5	74.5	74.5	74.4	73.9	73.0		72.7	72.7	72.7	76.4	78.0	78.3	79.0	81.9	78.0	76.4	73.6	68.1	73.1	74.4	74.4	74.5	73.9	68.7
18		72.4	72.4	72.9	76.3	73.4	73.3		72.4	71.4	72.7	76.7	77.4	79.4	80.7	80.1	79.5	77.5	75.5	75.4	74.5	74.7	71.4	71.7	69.7	75.0
19		77.3	75.4	73.4	74.3	73.7	73.7		74.5	75.5	72.4	72.6	74.7	77.5	78.7	79.0	78.6	77.9	75.9	75.7	74.9	74.5	73.2	74.7	74.4	73.2
20		73.5	73.5	73.7	73.5	73.6	73.0		72.8	70.9	69.7	69.9	73.7	79.6	80.6	81.7	79.0	77.1	74.3	73.9	73.7	72.9	73.3	73.9	74.7	74.4
21	*	74.4	73.9	74.0	73.7	73.5	73.4		73.6	73.0	72.7	71.9	74.7	78.4	80.7	81.4	80.3	79.0	77.5	76.7	76.4	76.3	76.4	75.9	75.7	73.0
22	**	72.5	71.0	70.9	72.3	70.7	72.5		71.7	71.0	70.7	72.1	75.7	80.1	84.0	82.3	80.8	81.4	79.2	74.6	66.3	74.1	72.3	65.8	65.6	68.8
23		71.7	71.7	70.1	76.3	73.5	71.7		72.2	71.1	71.4	73.3	75.7	80.1	82.0	83.0	83.1	81.0	76.2	74.7	73.4	71.7	69.1	67.1	66.3	72.9
24		74.6	72.8	71.5	72.9	72.2	72.1		72.8	71.7	71.7	72.5	74.4	79.2	78.8	81.3	81.7	80.5	76.3	75.2	71.8	67.2	66.2	69.2	71.3	69.0
25		70.6	67.8	68.1	72.5	70.8	70.8		70.8	70.2	69.8	71.9	76.9	79.0	80.6	82.3	81.5	78.6	74.8	74.6	75.4	74.8	74.0	73.1	71.1	69.4
26		69.6	70.7	72.4	75.1	74.5	73.9		72.8	70.7	70.6	70.5	73.5	78.2	80.9	83.1	82.7	82.2	79.1	77.2	74.9	67.9	69.9	72.7	67.9	71.7
27		72.9	70.7	68.1	72.6	74.1	73.1		72.9	70.9	70.2	71.3	74.6	77.5	80.6	81.9	80.7	79.0	76.9	74.7	73.9	73.5	74.4	73.4	71.5	72.1
28	*	72.5	74.4	73.5	73.4	73.0	73.2		72.9	71.1	70.5	70.9	73.3	76.9	80.1	80.9	80.3	78.9	76.2	75.5	74.9	74.1	74.2	73.9	73.7	73.2
29		73.4	73.5	73.6	73.5	75.2	73.8		71.6	69.6	75.0	73.0	72.5	77.4	82.0	85.8	89.0	87.0	86.2	82.8	74.8	74.3	73.1	72.0	65.8	66.3
30		69.7	71.1	67.8	69.2	69.6	70.1		71.1	70.5	70.4	71.8	74.4	77.2	79.6	80.8	80.4	78.8	77.8	76.8	76.4	75.4	74.8	74.7	73.8	72.8
31		72.8	73.2	73.3	73.4	73.2	73.4		74.3	71.9	71.2	71.2	72.2	74.6	77.6	79.8	79.9	79.7	78.8	76.2	74.1	74.8	74.8	74.8	74.2	73.2
Mean		72.2	72.5	72.3	73.2	73.0	73.1		73.6	72.9	72.9	73.5	75.4	78.2	80.0	80.9	80.4	79.0	76.9	75.7	73.8	73.0	72.2	72.2	71.3	71.8
Mean	*	74.0	74.2	74.0	73.9	73.7	74.0		74.0	73.2	72.7	72.7	74.3	76.7	78.9	79.3	78.6	77.4	76.4	76.0	75.8	75.3	75.2	74.8	74.4	73.6
Mean	**	70.6	71.8	71.5	72.4	73.1	73.3		73.2	73.3	72.8	73.8	76.0	78.9	81.7	81.9	82.5	81.5	78.5	76.8	70.0	70.4	69.8	68.0	66.6	69.1
April		8° + Tabular Quantities																								
		′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	*	73.7	73.9	73.8	72.6	72.9	73.2		72.4	70.9	70.1	71.8	74.3	76.8	78.8	79.3	79.5	77.8	76.6	75.8	75.7	75.0	74.8	70.0	71.0	68.0
2		70.8	73.8	72.8	74.3	70.8	70.8		72.8	70.1	69.5	71.3	72.9	76.8	82.0	84.1	85.0	87.2	89.4	78.9	75.7	74.8	71.0	67.6	71.6	74.0
3	**	73.6	68.8	66.0	70.0	69.8	69.8		72.6	72.8	71.5	73.0	77.6	79.8	81.8	80.8	80.2	79.8	79.0	65.8	71.9	73.8	71.1	67.6	65.6	63.8
4	**	70.6	75.0	74.6	71.0	73.6	75.8		75.1	72.8	71.8	72.7	74.8	77.0	80.8	82.3	82.3	82.9	73.8	75.8	76.6	73.4	74.0	74.8	71.8	70.6
5		73.4	72.7	71.8	69.2	72.7	74.3		72.8	70.3	70.4	73.1	76.8	77.6	81.4	80.7	77.8	78.6	75.8	75.6	72.3	71.8	65.6	63.7	62.5	69.2
6	**	72.2	75.8	72.2	70.7	75.4	75.8		76.4	72.3	73.1	74.5	75.4	79.4	79.8	81.0	80.6	82.8	74.0	76.3	71.6	62.6	63.8	66.0	70.8	79.4
7		74.6	66.6	64.4	68.0	71.6	71.0		72.1	70.8	70.1	72.6	77.7	78.8	82.4	80.5	80.0	80.0	79.1	76.8	72.1	73.7	68.8	73.1	73.0	74.6
8		73.7	69.0	68.0	68.1	70.0	72.7		71.8	71.8	71.2	72.5	73.0	76.9	78.7	79.3	81.4	81.0	79.3	76.8	68.8	67.4	71.8	69.8	72.8	71.2
9		73.5	73.8	71.9	70.8	74.1	72.5		72.2	71.3	73.1	73.3	74.4	79.2	80.9	81.2	80.8	80.7	78.8	78.2	72.3	69.2	71.8	70.6	72.4	72.7
10		72.8	76.4	76.0	68.8	67.8	68.8		69.4	69.5	68.7	70.8	74.0	78.6	82.1	84.8	83.5	80.0	77.1	76.6	75.7	73.6	69.3	73.8	72.6	72.8
11		73.8	74.8	73.8	70.8	69.4	69.2		70.5	70.1	69.8	69.8	72.8	75.8	78.8	81.5	81.2	79.0	77.6	76.2	75.8	74.8	74.8	73.6	68.7	75.2
12		65.3	66.4	69.8	71.8	71.2	71.2		70.5	69.2	69.4	71.5	74.1	76.7	80.9	82.8	82.0	79.2	77.4	76.8	75.2	71.5	73.4	74.2	73.3	61.9
13	**	65.0	68.8	72.4	71.8	71.5	68.6		68.8	66.8	68.8	70.7	73.1	80.6	83.8	90.0	83.0	81.8	77.3	74.8	74.8	74.5	74.6	71.5	65.0	74.0
14		75.0	74.0	74.8	74.4	72.0	70.8		69.8	71.0	70.8	72.0	75.0	78.6	80.0	81.4	80.8	78.5	76.5	74.8	71.8	72.1	73.1	72.8	73.0	73.6
15	*	74.7	73.4	72.5	72.5	71.8	71.1		69.6	68.5	68.7	70.8	73.8	79.0	82.1	82.8	81.4	78.3	76.5	72.8	72.4	74.0	74.8	74.5	73.8	73.5
16	*	74.8	73.0	72.6	71.9	71.5	71.6		71.5	70.8	70.0	71.3	73.0	76.0	79.0	80.0	78.8	78.0	77.6	76.0	75.0	74.8	74.6	73.0	71.0	71.0
17		74.1	70.6	69.5	70.1	69.5	69.0		68.7	68.0	68.8	71.0	73.0	76.6	79.8	81.6	80.6	78.8	77.6	75.6	73.8	73.8	73.8	73.6	73.5	73.3
18	**	73.3	72.8	72.8	72.5	72.2	71.1		69.8	68.0	67.1	67.8	72.8	77.8	83.0	84.6	84.1	84.5	90.8	85.1	78.5	73.8	65.1	68.8	68.1	65.1
19		67.4	64.8	67.4	68.1	68.0	67.8		68.1	69.4	69.8	71.6	73.9	74.6	76.8	77.7	78.3	77.9	78.4	77.1	75.4	74.6	73.9	71.5	70.7	66.6
20		66.9	66.5	66.5	68.7	69.5	70.8		71.5	70.7	71.2	71.3	72.0	75.0	78.8	79.8	81.8	81.4	77.8	71.8	69.6	66.8	63.3	64.7	60.3	62.8
21		70.0	70.2	66.6	66.0	72.6	67.0		68.8	70.6	67.6	69.0	71.8	77.0	81.5	83.8	82.1	79.5	76.8	72.8	73.8	73.5	72.8	72.1	71.5	69.8
22		69.1	68.2	68.0	72.0	68.8	70.7		70.5	71.8	72.8	73.6	74.8	77.8	79.8	82.8	78.6	79.5	78.6	75.0	72.1	69.1	72.5	72.0	72.6	72.6
23		71.9	74.1	75.1	74.6	70.9	71.9		72.9	70.9	70.4	71.7	74.9	78.0	80.7	82.1	81.7	79.6	77.2	75.9	73.7	73.5	72.9	72.9	71.5	71.9
24		73.0	73.2	73.9	73.9	75.0	78.8		70.8	69.2	70.9	74.0	72.0	75.3	78.9	85.1	84.0	84.6	81.9	76.2	70.4	69.3	72.2	72.3	72.3	72.1
25		69.8	65.3	63.5	66.7	68.4	72.5		71.7	69.3	70.6	70.1	72.0	75.3	78.0	81.3	83.3	84.5	80.9	77.5	77.8	75.5	73.5	71.2	68.1	66.6
26		70.7	66.3	66.6	68.2	68.5	69.7		69.5	68.2	67.9	68.9	71.0	73.3	76.0	77.6	78.0	78.0	78.0	78.0	76.0	74.7	74.0	73.3	73.0	72.3
27		72.0	72.5	72.2	72.2	72.0	72.8		71.2	70.0	71.7	71.5	73.0	75.6	79.6	81.0	81.8	82.0	82.0	80.3	76.6	75.2	74.2	72.0	71.4	70.0
28	*	72.7	70.4	72.2	71.0	70.3	70.0		69.8	69.9	70.7	71.5	72.4	74.6	77.0	78.0	78.0	78.0	77.0	76.0	75.0	74.7	75.0	74.5	73.7	73.2
29		72.7	71.6	75.0	73.7	71.7	69.2		68.0	68.0	69.0	70.8	74.0	76.3	80.1	79.6	79.8	76.4	74.4	74.8	74.7	74.6	74.4	74.1	74.2	74.2
30	*	73.6	73.3	73.2	72.5	71.2	70.3		69.4	69.0	68.9	69.4	71.6	74.9	77.9	78.8	77.9	76.3	75.5	74.4	73.9	73.9	74.4	74.8	74.9	74.5
Mean		71.8	71.2	71.0	70.9	71.2	71.3		71.0	70.1	70.1	71.5	73.7	77.0	80.0	81.5	80.9	80.2	78.4	76.0	74.0	72.7	72.0	71.5	70.8	71.0
Mean	*	73.9	72.8	72.9	72.1	71.5	71.2		70.5	69.8	69.7	71.0	73.0	76.3	79.0	79.8	79.1	77.7	76.6	75.0	74.4	74.5	74.7	73.4	72.9	72.0
Mean	**	70.9	72.2	71.6	71.2	72.5	72.2		72.5	70.5	70.5	71.7	74.7	78.9	81.8	83.7	82.0	82.4	79.0	75.6	74.7	71.6	69.7	69.7	68.3	70.6

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 **	71.4	66.9	66.2	68.6	67.3	65.9		71.2	70.7	68.9	70.9	73.3	75.0	77.5	78.3	78.9	78.7	78.7	75.5	72.7	66.3	64.2	50.2	51.3	44.4
2 **	50.1	72.4	70.6	68.2	67.0	66.5		64.4	67.0	69.4	72.0	76.6	79.3	84.7	85.6	79.5	79.6	78.5	72.4	73.0	71.0	71.9	68.3	65.4	71.0
3	76.6	71.2	70.0	71.0	70.8	70.4		69.4	69.3	70.4	73.0	75.0	78.4	81.0	81.2	81.9	78.2	76.5	75.9	64.5	71.4	74.1	73.0	71.7	70.1
4	75.0	63.4	68.0	68.4	69.6	67.5		68.0	67.8	69.6	72.6	75.5	78.4	80.4	80.7	80.0	77.4	76.0	71.0	73.0	70.4	70.7	72.7	73.5	73.4
5	73.4	73.5	73.0	72.6	71.9	70.5		69.4	69.0	70.2	73.0	75.3	77.9	80.2	80.4	78.8	77.4	75.3	73.7	73.0	73.4	72.8	73.0	70.5	69.0
6	69.2	71.0	72.1	70.0	69.8	69.5		66.1	67.7	70.0	71.3	75.6	78.4	81.3	82.3	82.0	78.1	76.2	75.0	73.8	71.0	68.6	70.9	72.0	72.1
7	74.0	73.4	71.8	74.0	72.5	70.8		69.0	67.4	68.9	71.0	73.5	77.4	80.7	82.6	80.4	77.5	75.6	74.6	73.4	71.0	72.2	73.0	70.5	70.9
8 *	72.0	72.0	72.0	71.4	70.6	70.0		69.1	69.0	69.6	71.9	74.7	78.3	80.5	79.9	79.1	78.2	76.6	75.3	74.2	73.0	71.7	73.0	73.3	72.9
9 **	71.4	71.0	71.0	73.0	70.5	70.0		69.0	69.1	70.9	73.6	78.1	80.0	82.3	83.7	82.6	81.4	80.0	78.5	80.3	78.5	73.5	76.6	75.5	67.6
10 **	69.0	70.0	68.5	68.6	69.5	70.5		72.2	71.8	73.9	74.0	75.8	76.8	76.9	79.5	80.0	75.0	75.6	76.7	75.0	72.8	70.0	72.2	73.7	72.7
11	73.3	74.3	73.5	70.9	69.2	69.1		68.9	68.7	66.5	68.9	73.1	76.1	79.0	79.0	78.6	78.0	77.2	76.4	74.6	74.5	74.5	70.0	72.0	69.7
12	76.7	73.9	73.9	72.5	70.7	71.6		71.3	69.4	69.5	71.0	72.4	75.0	78.0	79.0	77.5	77.0	76.8	70.7	71.0	73.0	73.4	74.6	74.1	73.3
13 *	73.0	72.5	72.5	72.0	71.0	70.0		70.1	70.4	70.7	71.4	73.4	75.8	78.7	80.0	78.7	76.5	75.3	74.1	73.0	73.5	74.4	74.0	74.0	73.3
14	72.2	72.4	73.9	75.0	71.5	68.1		67.4	66.0	67.3	69.0	70.7	73.2	76.7	78.0	78.2	76.6	75.5	73.8	71.6	73.5	73.5	71.4	69.5	70.8
15	65.2	69.6	73.9	70.0	67.9	66.5		66.3	66.0	67.0	71.0	73.4	77.5	80.5	79.6	78.2	76.9	76.2	75.4	74.0	71.4	69.2	71.6	70.8	69.0
16	65.5	66.1	66.7	69.9	69.5	69.8		68.2	67.6	67.0	70.0	73.1	74.3	78.0	79.9	79.0	76.9	74.6	73.8	73.5	72.3	70.4	71.8	73.0	72.2
17	70.6	71.5	70.3	70.1	70.2	72.8		72.5	70.5	69.2	73.0	77.1	80.8	82.4	81.6	82.0	79.7	77.5	72.3	72.5	72.5	71.1	72.7	71.4	69.0
18	70.7	70.1	71.5	71.2	67.0	66.2		65.7	65.1	67.0	69.0	71.4	74.9	80.4	82.0	79.9	78.0	75.4	73.6	73.2	74.0	73.6	72.4	73.5	72.6
19	70.0	73.0	71.4	69.0	68.4	68.1		66.9	66.0	67.0	69.0	73.0	76.2	79.0	80.5	77.8	75.2	73.7	72.5	72.1	71.5	70.0	71.7	72.5	73.0
20 *	73.5	73.1	73.4	71.8	68.4	66.9		64.6	64.9	67.3	71.0	75.6	80.0	83.0	82.1	81.0	78.9	75.9	73.5	72.7	72.0	71.8	72.6	72.0	71.9
21 *	72.2	71.3	70.7	69.3	67.5	66.3		64.0	64.2	66.4	70.2	74.2	79.0	81.9	82.7	81.4	79.0	77.3	75.8	74.5	72.6	72.8	72.6	72.2	71.5
22 *	70.4	71.8	73.6	71.0	68.6	66.4		65.3	65.5	66.5	68.1	71.0	75.9	79.0	81.0	82.1	80.8	77.7	75.1	73.5	72.8	73.5	73.0	72.6	72.2
23	72.3	72.3	69.5	67.5	67.5	67.6		66.6	65.7	65.7	68.3	72.7	78.9	83.3	82.2	81.0	80.5	79.9	78.8	77.0	75.0	66.4	64.9	71.6	73.3
24	74.5	70.7	69.5	72.0	73.3	73.9		70.0	69.0	69.5	69.7	71.5	75.0	77.8	78.4	79.6	79.3	78.1	76.0	74.8	73.0	73.0	72.0	70.0	71.5
25	72.4	73.1	73.4	72.4	70.3	68.2		67.0	67.5	66.5	67.9	70.7	74.6	78.9	80.8	80.6	79.6	78.0	75.8	74.0	73.9	73.3	72.7	72.2	69.0
26 **	67.3	68.4	68.4	68.6	69.0	69.0		69.2	68.2	68.4	70.1	73.5	76.6	79.0	81.6	82.3	85.6	86.0	76.0	76.3	73.8	71.4	69.4	67.6	72.1
27	69.0	58.5	57.4	65.0	65.5	64.6		64.8	65.0	66.0	68.7	71.8	73.0	75.2	77.2	78.0	77.1	76.6	75.5	75.1	74.9	74.0	73.4	71.6	71.0
28	71.3	70.3	71.0	70.0	66.9	66.0		66.4	67.4	68.6	70.6	72.2	74.2	75.6	77.7	77.1	76.5	76.2	75.2	74.6	74.2	74.0	73.8	73.1	73.0
29	73.0	72.4	72.0	71.0	69.9	68.1		67.0	69.5	69.3	70.0	71.8	75.7	77.5	79.1	78.8	78.8	78.0	77.4	76.1	74.6	74.0	73.8	72.0	69.4
30	72.5	72.9	72.6	71.1	69.8	68.3		68.1	68.2	70.2	72.0	73.9	77.4	80.3	79.6	77.4	75.0	73.8	73.7	73.7	73.9	73.5	71.1	72.5	73.4
31	72.5	72.4	72.5	73.1	70.0	68.7		67.5	66.9	67.2	67.7	71.3	74.3	77.0	77.7	77.0	75.9	74.4	73.5	73.4	73.2	73.4	73.2	73.4	73.0
Mean	71.0	70.8	70.8	70.6	69.4	68.6		67.9	67.8	68.5	70.6	73.6	76.7	79.6	80.4	79.7	78.2	76.9	74.8	73.7	72.9	72.0	71.5	71.3	70.6
Mean *	72.2	72.1	72.4	71.1	69.2	67.9		66.6	66.8	68.1	70.5	73.8	77.8	80.6	81.1	80.5	78.7	76.6	74.8	73.6	72.8	72.8	73.0	72.8	72.4
Mean **	65.8	69.7	68.9	69.4	68.7	68.4		69.2	69.4	70.3	72.1	75.5	77.5	80.1	81.7	80.7	80.1	79.8	75.8	75.5	72.5	70.2	67.3	66.7	65.6
June	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	72.0	71.3	71.7	69.6	69.0	70.0		68.6	67.7	68.2	68.8	72.0	76.1	78.6	80.0	80.5	81.6	78.8	76.4	75.2	74.7	73.0	71.1	72.1	72.6
2	72.1	71.0	70.0	66.9	70.5	68.4		68.0	66.1	67.0	70.4	74.0	77.4	79.0	80.0	76.6	77.0	75.8	74.2	71.0	73.5	69.0	70.5	71.9	72.0
3	66.4	69.7	70.0	69.4	67.6	66.5		68.5	69.1	70.5	71.6	73.6	77.0	79.5	78.8	77.6	76.5	75.5	75.2	74.0	73.8	73.3	72.8	73.2	73.1
4	73.3	73.3	72.8	71.5	70.9	70.5		69.1	67.6	68.5	70.6	73.5	76.5	79.3	80.6	80.2	79.9	78.5	75.1	74.5	74.1	73.3	71.9	71.4	72.1
5	72.2	73.1	71.7	70.6	71.0	68.8		68.0	67.7	68.8	72.1	75.1	78.9	82.6	84.1	83.5	80.8	78.0	76.3	74.8	73.8	73.5	71.0	72.8	73.4
6 **	73.5	72.0	72.6	72.5	72.0	70.1		70.2	69.8	73.6	69.5	71.6	75.6	78.5	78.1	79.0	79.0	78.0	74.2	73.3	72.7	72.4	71.6	72.4	72.4
7	72.4	71.8	71.7	75.0	71.4	69.0		68.2	67.7	66.1	66.5	70.4	74.4	78.2	78.0	77.0	77.1	76.7	75.1	73.6	73.0	72.8	72.0	70.6	70.3
8	72.5	71.4	70.6	74.1	69.4	68.6		68.9	67.0	66.6	68.1	71.4	74.5	75.6	77.0	77.9	80.0	79.0	75.4	75.0	74.5	72.8	73.5	73.5	72.5
9	72.5	72.6	76.0	68.2	68.5	67.2		66.3	65.9	67.4	70.6	73.5	76.6	79.0	79.8	79.0	77.6	76.0	74.0	73.1	73.0	73.0	73.4	73.7	73.6
10 *	73.7	73.4	72.5	72.1	71.0	69.4		68.5	68.0	68.0	69.5	73.7	78.5	81.6	81.9	81.1	79.2	77.1	74.5	74.0	73.5	72.9	73.5	73.4	73.1
11	72.8	71.0	71.0	71.4	71.0	67.6		66.9	67.0	68.6	70.3	73.0	76.4	78.9	80.0	80.9	80.7	79.6	78.7	76.1	73.0	70.5	72.4	72.5	71.0
12	69.9	72.7	69.6	70.1	68.8	68.0		66.4	68.0	70.0	70.8	72.9	74.8	74.7	76.5	77.8	78.0	76.6	76.0	75.5	74.7	71.6	72.1	71.0	71.0
13	71.8	70.6	70.6	69.4	67.8	66.0		63.0	65.9	68.6	69.0	71.9	76.1	79.5	80.6	78.8	78.0	76.7	75.8	74.4	73.3	72.8	72.0	69.0	70.8
14	71.3	71.0	71.0	70.4	68.0	67.0		67.6	67.5	68.0	68.7	71.5	74.5	76.5	78.0	78.7	77.6	76.0	75.0	76.0	74.0	65.0	71.8	72.2	65.3
15	65.0	67.4	69.2	70.7	70.0	67.2		69.1	69.8	69.4	71.2	74.6	78.5	78.7	80.1	79.1	78.7	78.0	77.4	77.7	76.4	71.8	73.0	72.2	71.0
16	72.9	69.4	69.5	70.0	69.4	68.5		68.4	70.0	70.7	72.2	74.9	78.0	79.8	81.4	82.0	79.2	76.6	74.4	73.0	72.6	72.0	69.5	72.2	72.7
17 **	72.6	73.0	72.6	69.9	68.3	65.9		64.2	63.4	64.0	67.0	71.4	75.4	78.4	79.5	79.6	77.9	75.4	74.8	74.6	76.4	75.9	73.4	76.0	76.3
18 **	69.0	59.3	60.4	65.5	66.6	67.0		64.9	63.0	63.3	69.0	72.7	76.0	77.7	78.9	78.9	77.1	75.4	73.9	73.0	71.8	71.2	71.5	72.1	72.2
19 **	73.3	71.6	71.2	75.2	78.9	72.1		75.1	71.2	72.5	71.7	71.9	73.5	75.5	77.0	77.7	75.3	75.3	74.9	73.5	72.2	72.3	72.0	71.7	71.5
20 *	72.1	75.6	72.7	69.7	68.2	66.5		66.2	66.1	66.1	68.1	71.1	74.8	77.4	79.1	79.6	79.1	78.4	76.6	74.8	73.7	73.3	72.9	73.0	71.5
21	71.1	71.6	71.5	70.8	70.1	70.6		70.5	70.0	66.1	65.6	67.5	71.9	76.1	78.9	80.5	79.6	77.3	75.3	73.9	72.6	73.0	72.7	72.5	73.1
22 *	72.9	72.3	72.3	70.7	68.9	67.1		65.6	65.6	65.2	67.4	70.2	73.1	77.8	79.4	80.1	78.1	77.2	76.1	73.5	72.7	72.9	71.1	71.7	72.3
23 *	72.1	74.0	69.6	68.5	67.2	65.1		65.5	66.3	66.5	67.5	70.1	73.1	75.5	76.7	77.9	78.5	78.1	76.8	75.1	74.1	74.0	73.1	71.0	71.5
24 *	71.1	71.1	71.7	71.3	70.1	68.1		67.1	66.7	68.1	69.7	73.5	77.1	79.5	79.9	80.6	79.1	77.8	76.0	74.1	73.6	73.6	73.3	73.7	71.3
25 **	72.8	73.4	73.0	70.3	69.5	66.1		65.9	66.5	68.1	69.6	71.8	75.0	79.0	80.6	84.4	85.1	78.5	77.0	75.0	73.2	69.1	70.5	71.6	71.0
26	72.5	72.5	68.6	66.5	66.5	68.3		70.4	68.6	67.6	67.6	70.1	72.2	73.1	75.1	75.6	75.6	75.3	74.0	72.7	73.0	72.8	72.8	72.5	71.8
27	71.1	71.8	71.6	72.7	70.3	68.5		67.1	67.9	67.6	68.1	70.7	73.3	75.4	76.5	76.7	76.9	79.4	76.8	77.1	76.2	75.5	74.5	73.1	72.1
28	71.9	69.5	69.3	70.1	70.5	70.9		68.1	68.4	68.3	69.9	72.2	75.3	77.8	78.6	79.2	78.1	76.2	76.3	76.3	75.7	74.7	74.1	73.5	73.4
29	69.6	70.9	69.1	69.1	69.7	68.4		66.9	65.9	65.9	67.5	70.2	73.2	76.7	78.1	78.0	78.6	77.2	76.2	75.7	73.4	71.1	72.3	72.6	72.1
30	70.2	69.9	69.1	68.5	68.9	69.1		70.8	70.8	68.8	69.6	71.8	73.5	75.4	75.2	77.2	77.7	76.1	75.1	74.2	71.9	68.7	70.3	71.1	70.8
Mean	71.6	71.3	70.8	70.4	69.7	68.2		67.8	67.5	67.9	69.3	72.1	75.4	77.8	78.9	79.2	78.6	77.1	75.6	74.5	73.7	72.3	72.2	72.3	71.9
Mean *	72.4	73.3	71.8	70.5	69.1	67.2		66.6	66.5	66.8	68.4	71.7	75.3	78.4	79.4	79.9	78.8	77.7	76.0	74.3	73.5	73.3	72.8	72.6	71.9
Mean **	72.2	69.9	70.0	70.7	71.1	68.2		68.1	66.8	68.3	69.4	71.9	75.1	77.8	78.8	79.9	78.9	76.5	75.0	73.9	73.3	72.2	71.8	72.8	72.7

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
July														8° + Tabular Quantities											
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	70.7	71.5	68.4	68.1	68.8	68.0		67.5	67.2	66.7	67.9	71.3	75.1	78.5	80.1	79.6	79.1	79.0	76.1	72.1	69.8	70.3	70.6	70.1	64.6
2 **	71.4	60.9	62.3	74.5	78.5	77.2		75.0	70.2	64.6	65.9	73.6	75.7	77.4	78.1	78.1	78.1	75.9	76.8	76.9	74.0	71.6	66.1	68.5	69.4
3 **	72.1	72.3	69.1	67.9	67.2	67.8		65.7	63.6	63.5	66.1	71.1	75.1	77.7	79.5	79.7	78.1	77.7	75.1	71.7	70.1	72.1	70.8	67.1	68.7
4	68.9	69.5	72.0	71.6	69.6	73.5		67.9	64.9	64.5	66.3	68.6	71.5	74.1	75.8	77.4	75.9	74.6	73.6	73.2	72.1	70.7	71.1	72.1	73.3
5	72.5	72.1	70.8	70.2	70.1	71.4		71.2	68.8	66.2	68.3	71.2	76.3	77.4	78.5	78.5	77.1	75.7	74.5	73.1	72.6	72.2	73.0	73.0	72.2
6	70.7	71.5	71.4	70.5	69.5	69.0		67.0	67.0	67.7	69.7	72.1	74.5	77.4	79.4	80.3	78.6	78.3	76.0	75.0	72.4	72.5	71.6	72.0	70.6
7	69.6	69.5	69.8	69.0	67.8	67.0		65.7	65.7	65.4	66.9	68.7	71.5	74.1	76.0	76.1	76.0	75.0	73.7	73.0	72.5	72.5	72.0	72.0	67.8
8	70.0	70.2	70.6	71.0	70.3	66.6		65.0	65.3	65.1	67.6	71.5	74.6	77.1	78.5	77.6	76.5	75.9	74.9	74.0	73.5	72.6	70.0	69.9	67.9
9	67.0	70.4	71.1	72.3	68.7	65.0		65.2	64.4	67.0	70.0	71.8	74.7	77.6	79.0	80.0	80.1	77.9	77.3	75.3	72.3	71.3	72.3	72.3	71.0
10 *	71.6	69.5	70.0	70.0	68.1	67.4		65.8	65.7	64.7	66.0	67.5	69.8	72.6	74.1	75.5	76.6	76.4	76.0	74.6	72.0	70.0	71.1	71.1	70.7
11	70.7	70.7	70.0	69.8	69.0	68.4		66.9	68.2	69.7	71.4	73.1	76.0	77.7	79.4	80.1	78.4	76.4	75.5	74.5	73.0	71.7	72.0	71.9	71.0
12 *	70.0	70.4	69.6	69.0	68.4	67.6		67.1	67.5	67.3	68.8	70.5	72.6	75.2	78.3	78.4	77.7	77.5	75.1	73.0	73.0	73.0	72.7	72.0	70.0
13 *	70.0	66.9	66.4	68.9	67.0	67.4		67.4	67.1	67.0	68.3	70.0	74.4	77.9	78.8	79.0	78.1	77.0	75.0	73.4	72.1	71.4	72.0	71.6	71.4
14 *	71.1	69.8	70.6	70.6	70.1	69.1		67.0	66.4	66.8	69.5	71.1	73.6	77.1	79.1	78.7	77.1	75.5	74.4	73.4	72.7	72.1	72.6	72.6	72.5
15	69.7	69.1	69.7	68.7	67.6	66.2		64.7	66.0	67.1	68.1	70.1	73.0	75.5	76.3	76.7	77.1	77.5	75.8	75.7	75.5	75.0	72.9	65.1	66.7
16	71.1	73.1	73.1	72.1	67.1	64.5		65.8	66.0	66.4	68.7	72.1	75.5	78.4	80.9	80.7	80.1	76.3	76.1	75.4	73.2	72.6	75.1	73.9	73.1
17	73.2	72.6	73.7	71.1	68.3	65.8		64.1	63.5	64.8	69.4	73.1	75.1	77.4	81.2	80.5	79.1	78.3	73.1	72.0	71.5	74.1	74.6	73.9	73.3
18	74.1	72.6	70.9	71.8	73.0	68.8		67.8	66.1	69.2	70.4	73.9	79.0	81.3	81.1	78.6	78.5	76.6	71.9	71.1	72.6	73.7	70.6	71.6	72.6
19	72.8	73.1	73.6	72.3	69.6	66.9		66.1	65.8	66.4	68.1	69.3	72.1	74.5	76.2	77.1	76.6	75.8	73.4	72.7	73.1	71.9	71.3	72.1	72.2
20	72.5	72.6	74.8	69.8	65.7	66.0		66.1	65.5	64.8	66.2	69.6	73.8	76.5	78.3	78.7	78.3	75.3	73.7	72.9	72.6	72.8	72.8	72.2	71.4
21	70.2	72.0	74.0	72.9	70.9	68.6		66.8	66.3	67.1	68.2	71.2	74.1	76.9	78.6	78.8	77.1	74.7	73.1	72.1	71.9	72.6	72.8	72.9	72.4
22	72.8	72.0	69.6	72.3	77.3	70.9		67.4	69.4	69.0	71.6	70.6	73.5	76.7	77.6	77.4	77.5	78.1	78.1	76.2	72.6	72.8	71.2	69.5	66.3
23	69.5	73.1	65.3	67.6	67.2	66.8		66.4	66.5	68.1	69.6	73.5	74.5	77.3	78.2	77.8	77.2	77.2	77.0	74.8	72.6	71.9	71.6	72.9	70.7
24 *	71.4	70.1	69.4	70.1	71.7	70.9		69.1	67.6	67.3	69.1	70.9	73.1	75.1	76.3	76.6	76.3	75.3	74.2	73.3	72.9	73.0	72.5	71.7	71.2
25	70.7	70.6	70.1	69.9	69.0	68.6		69.8	68.0	66.5	68.8	70.3	73.1	74.6	77.0	80.1	78.8	78.2	76.7	70.5	71.1	72.1	70.6	71.7	72.1
26 **	71.4	68.9	70.0	67.6	68.0	69.2		70.4	70.9	67.1	67.9	70.5	74.4	75.3	76.1	76.0	77.5	70.5	74.0	74.0	73.5	73.5	71.5	71.7	73.4
27	58.1	67.5	71.7	71.0	70.9	67.9		66.4	67.1	68.3	71.0	72.0	74.1	76.4	76.7	76.7	74.9	74.5	74.0	73.1	72.4	72.1	73.2	72.7	71.9
28 **	71.1	67.5	67.7	69.6	66.6	67.5		69.8	69.0	68.5	68.8	70.5	73.1	74.1	75.6	76.6	76.4	72.4	72.5	72.8	67.8	68.7	70.6	72.9	73.4
29	72.5	72.4	70.6	69.0	68.4	69.0		68.1	67.4	68.0	68.3	69.7	72.1	74.5	76.5	75.5	74.7	71.0	72.1	72.9	72.3	70.6	71.0	71.5	71.7
30	70.6	70.6	70.3	69.9	70.0	69.9		67.8	66.0	66.5	68.0	71.4	74.5	75.5	76.4	76.7	75.5	74.4	72.4	70.3	69.6	71.2	70.1	68.4	71.1
31 **	70.0	69.3	66.0	65.4	64.1	66.8		68.4	67.9	68.7	70.2	73.2	77.2	80.7	79.2	81.0	77.0	75.8	73.3	69.9	67.6	66.8	70.2	72.0	67.9
Mean	70.9	70.4	70.1	70.1	69.4	68.4		67.4	66.8	66.8	68.6	71.1	74.1	76.5	78.0	78.2	77.4	76.0	74.7	73.3	72.1	71.9	71.6	71.4	70.7
Mean *	70.8	69.3	69.2	69.7	69.1	68.5		67.3	66.9	66.6	68.3	70.0	72.7	75.6	77.3	77.6	77.2	76.3	74.9	73.5	72.5	71.9	72.2	71.8	71.2
Mean **	71.2	67.8	67.0	69.0	68.9	69.7		69.9	68.3	66.5	67.8	71.8	75.1	77.0	77.7	78.3	77.4	74.5	74.3	73.1	70.6	70.5	69.8	70.4	70.6
August														8° + Tabular Quantities											
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 **	66.0	65.3	65.7	65.5	65.2	65.0		63.6	64.4	66.0	69.0	73.1	78.7	81.8	80.5	80.8	79.1	79.6	78.6	72.8	75.9	73.8	72.4	68.8	73.9
2	67.3	66.0	67.6	66.7	65.1	64.5		65.1	67.2	65.9	67.5	71.4	74.9	77.1	78.0	78.4	76.0	74.9	73.5	71.5	72.4	72.3	71.0	71.0	71.5
3 *	71.0	70.2	69.5	70.0	68.3	67.0		67.3	68.1	68.5	70.0	73.1	74.6	78.0	78.0	76.5	76.7	76.4	75.0	73.7	72.8	72.7	72.0	71.1	71.1
4	70.4	69.6	73.6	72.4	67.0	66.6		64.8	64.0	65.0	67.0	70.0	75.0	77.4	79.7	80.5	78.8	75.8	74.7	73.5	71.4	71.7	68.6	68.0	68.0
5	70.0	70.0	69.0	66.6	67.4	66.0		66.1	66.3	66.7	69.0	71.6	74.9	78.7	79.7	79.1	77.3	75.6	74.3	72.3	72.3	71.5	70.0	70.2	70.8
6	72.6	71.6	70.0	69.0	68.8	67.5		66.5	66.5	67.2	69.8	72.2	75.8	79.5	81.4	81.4	79.5	77.0	74.0	72.6	73.0	72.9	72.2	70.5	69.8
7	70.0	69.9	69.2	70.0	68.4	65.8		65.8	65.9	65.2	67.3	71.5	72.8	74.4	76.5	77.0	77.0	76.0	75.6	72.3	70.5	72.0	71.7	67.7	68.2
8 *	68.2	69.3	68.0	68.5	67.0	68.0		68.0	65.8	65.3	67.1	69.8	72.6	75.5	77.1	77.8	77.0	76.2	74.7	73.4	72.1	71.1	71.0	70.5	70.7
9	70.0	69.0	69.1	69.5	69.1	68.4		66.7	67.0	66.2	67.3	71.0	74.6	76.4	77.4	77.0	77.0	75.2	73.4	72.5	72.5	71.6	68.0	70.5	71.0
10 *	70.0	70.0	70.0	69.5	68.4	66.8		67.6	67.9	66.9	68.4	71.0	73.5	77.9	78.4	76.0	75.1	74.1	73.1	72.1	71.9	70.0	71.6	70.6	67.6
11	70.0	71.0	70.5	70.5	71.8	68.9		66.5	68.0	69.4	70.0	73.2	75.9	78.0	79.5	78.1	77.6	77.0	75.0	74.4	72.4	70.4	73.1	71.7	73.9
12	68.9	69.5	68.6	69.0	68.8	67.4		66.3	65.2	66.0	69.0	72.4	75.4	78.6	81.0	78.4	77.2	75.8	74.5	73.4	72.4	71.0	66.6	67.7	69.6
13 **	69.4	69.4	70.0	[illegible]4	77.3	69.5		71.1	73.9	72.6	70.2	71.8	74.6	77.8	79.8	78.1	77.7	74.3	71.5	65.0	66.3	71.0	72.1	72.1	71.7
14	71.0	69.9	69.0	68.3	67.1	66.7		66.6	67.0	67.2	69.0	71.2	73.4	75.5	76.3	76.5	74.2	72.2	71.3	71.2	71.2	70.4	66.1	68.5	70.5
15	71.9	72.5	76.1	69.8	67.5	66.6		67.9	68.6	67.1	69.5	72.0	75.0	76.9	77.4	75.6	73.5	72.4	71.9	69.0	70.1	73.0	70.9	71.6	70.3
16	70.5	69.8	69.6	70.0	68.0	67.0		66.0	66.0	65.6	73.6	75.5	77.0	75.5	76.9	74.0	71.8	70.0	68.9	69.1	69.1	69.9	70.4	71.0	70.3
17	70.2	70.1	69.0	69.0	68.1	67.5		66.6	66.7	67.5	68.9	71.0	74.4	77.0	78.7	77.3	77.1	74.7	72.5	73.0	70.6	69.3	68.0	70.0	71.0
18 *	71.7	71.6	71.3	69.3	68.0	66.7		66.1	65.8	65.9	67.6	70.5	74.2	77.3	77.7	76.9	75.0	72.5	71.4	71.3	71.9	71.6	71.3	71.3	70.0
19	70.1	69.6	69.8	70.0	69.5	67.9		66.3	66.5	70.0	71.8	75.0	76.5	78.4	78.5	78.1	77.2	76.4	73.2	71.3	72.9	72.7	72.3	71.6	69.8
20 **	70.0	73.7	64.4	62.8	69.6	73.5		76.5	73.8	69.6	69.3	71.3	74.4	78.1	77.9	76.9	76.5	75.1	73.5	72.5	64.8	61.5	65.5	67.9	67.2
21 **	69.5	76.2	62.3	66.0	65.4	64.9		67.5	66.5	67.5	69.0	71.9	74.8	77.8	80.0	78.8	74.5	74.6	64.5	67.1	65.5	64.7	72.0	66.0	65.8
22	72.0	63.6	65.2	64.6	72.5	70.3		70.0	67.5	67.8	69.8	72.3	73.4	73.9	74.2	75.8	73.8	75.1	73.2	70.7	66.1	64.8	68.3	68.5	67.3
23	68.1	68.1	68.7	69.0	67.6	67.1		66.7	65.9	67.5	69.7	72.0	75.0	77.6	77.9	76.5	74.6	74.5	70.0	71.2	69.4	68.7	71.2	65.3	68.0
24	68.9	67.9	70.4	75.1	74.0	71.4		68.7	66.5	67.0	69.8	72.6	75.1	77.9	76.2	75.0	73.0	71.9	70.0	67.5	68.5	70.6	70.0	68.8	68.6
25 **	68.7	69.0	72.1	71.8	74.5	67.6		65.5	65.5	67.5	72.0	72.8	75.7	76.5	76.3	76.8	76.2	74.6	65.1	69.1	63.8	69.0	70.1	71.4	71.4
26	71.9	76.1	70.0	71.2	69.8	67.5		68.0	66.1	68.2	71.7	74.5	75.3	75.1	75.6	72.9	73.4	72.2	72.2	71.5	68.2	68.4	71.5	70.0	70.0
27	66.1	67.1	68.4	69.9	69.6	68.7		69.1	69.6	72.6	71.2	72.3	74.0	75.4	75.5	77.1	72.8	71.4	66.5	69.5	71.0	69.0	64.3	67.3	69.7
28	69.4	70.8	70.7	69.1	69.6	69.1		67.8	67.5	70.6	71.9	74.9	78.0	77.7	77.0	76.1	74.0	72.2	71.3	71.4	70.2	66.5	67.1	70.5	71.6
29	72.5	71.1	69.2	69.9	69.5	68.6		67.5	66.9	67.7	70.3	73.8	77.1	77.5	77.1	75.7	71.0	70.3	67.5	70.0	70.6	70.8	70.0	70.7	70.0
30 *	69.8	69.8	69.5	69.1	69.0	67.2		66.6	66.9	67.0	69.4	72.0	76.4	79.4	78.2	76.5	74.4	73.1	72.0	72.1	71.0	72.3	70.8	69.5	68.9
31	69.5	69.1	70.0	69.4	68.7	68.2		66.3	67.1	68.4	70.7	73.8	77.3	79.7	79.0	77.0	71.6	72.7	71.0	71.9	72.6	71.7	70.4	66.1	67.0
Mean	69.9	69.9	69.2	69.1	69.1	67.7		67.3	67.1	67.6	69.6	72.3	75.2	77.4	78.0	77.2	75.5	74.3	72.1	71.3	70.4	70.2	70.0	69.6	69.8
Mean *	70.1	70.2	69.7	69.3	68.1	67.1		67.1	66.9	66.7	68.5	71.3	74.3	77.6	77.9	76.7	75.6	74.5	73.2	72.5	71.9	71.5	71.3	70.6	69.7
Mean **	68.7	70.7	66.9	67.5	70.4	68.1		68.8	68.8	68.6	69.9	72.2	75.6	78.4	78.9	78.3	76.8	75.6	70.6	69.3	67.3	68.0	70.4	69.2	70.0

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 *	68.7	69.8	70.0	68.9	68.1	66.8		66.5	66.5	68.0	70.8	74.0	76.2	76.8	76.0	73.6	72.0	70.4	70.7	71.6	71.2	71.4	70.4	69.3	69.6
2 *	69.5	68.5	69.9	68.5	67.8	66.5		65.5	65.6	67.0	69.1	73.4	76.3	78.0	78.0	75.7	73.1	71.4	70.6	71.1	71.7	71.9	71.6	71.3	70.3
3 *	72.0	69.8	68.0	68.0	66.6	66.7		65.4	64.6	67.0	70.3	75.6	78.4	81.0	81.4	77.4	74.0	72.4	71.7	71.7	72.0	71.4	71.0	70.6	68.5
4 *	68.4	70.0	69.6	68.7	67.6	65.6		64.9	65.5	67.0	69.9	73.6	77.6	80.9	81.0	78.7	74.4	72.9	71.6	72.6	72.0	71.2	72.6	70.2	69.0
5	69.4	68.8	70.0	67.6	67.2	67.6		66.6	65.9	67.0	69.4	73.5	77.6	79.0	78.6	76.8	75.4	73.1	72.3	71.9	72.3	72.5	72.0	68.6	67.0
6	65.9	69.4	68.8	67.1	67.5	67.0		64.0	63.5	64.5	69.4	72.0	76.4	78.1	79.4	77.5	76.3	74.7	73.1	72.4	71.1	69.0	70.6	68.0	67.6
7	67.9	68.7	68.4	68.4	68.1	68.1		67.5	67.0	68.0	70.5	74.0	77.3	79.5	80.0	77.8	75.1	73.8	72.4	72.4	65.7	67.2	69.5	70.6	71.0
8	71.0	70.5	70.4	70.0	70.4	69.6		67.7	66.0	66.9	68.1	71.3	74.4	77.0	78.6	76.4	75.3	73.6	73.0	69.0	71.6	71.9	71.5	70.4	68.6
9	67.8	68.2	70.4	69.3	67.6	67.0		66.5	67.0	67.6	70.2	75.5	78.6	80.7	79.2	78.6	75.9	74.5	73.7	70.9	70.6	71.8	70.0	67.1	68.4
10	65.4	68.6	70.1	70.3	68.4	67.7		70.0	70.4	72.5	73.5	75.1	78.0	79.5	79.3	74.4	74.9	75.2	72.5	70.5	72.0	72.1	72.0	71.7	70.7
11	70.2	72.1	67.1	67.4	67.0	67.0		66.9	67.0	69.9	70.0	71.7	76.4	78.4	78.0	78.0	76.9	76.6	75.0	70.6	62.0	63.3	61.0	61.1	68.4
12	68.0	67.8	66.9	67.4	67.9	66.9		65.7	65.5	67.9	69.7	74.0	75.0	77.7	76.0	74.5	72.3	72.0	71.3	70.5	68.6	67.8	69.9	67.0	65.5
13	66.0	66.4	67.0	67.0	72.0	73.7		74.0	68.5	67.3	68.0	70.9	74.4	75.1	75.6	77.0	74.0	74.4	72.9	64.0	68.0	66.0	64.6	68.6	60.2
14	68.5	70.4	68.0	68.2	65.8	64.9		64.8	66.4	65.4	69.3	73.0	77.4	78.7	77.8	76.0	73.0	70.3	69.0	69.6	67.9	68.5	69.2	70.4	72.0
15	73.9	74.9	68.4	66.0	65.5	67.4		67.5	69.0	74.5	75.6	75.4	78.0	79.7	79.8	77.9	73.6	73.1	72.4	72.4	71.4	72.6	67.0	66.7	67.4
16 **	69.7	70.0	68.0	68.7	69.0	75.0		78.0	69.6	68.8	70.1	74.1	74.3	78.8	77.6	73.0	75.8	68.0	70.7	70.0	71.0	70.8	55.9	67.9	69.5
17	64.5	64.7	69.0	70.0	70.7	70.6		71.1	69.5	70.7	70.5	72.4	75.4	76.6	77.9	75.9	67.5	72.1	70.0	69.2	71.3	70.5	66.3	64.9	67.2
18	68.8	72.9	74.2	69.4	68.5	71.4		67.9	67.2	67.0	67.5	70.0	73.8	76.4	77.1	76.0	73.6	71.8	69.0	62.5	69.6	69.0	70.4	71.1	70.4
19	71.4	69.0	67.9	68.0	67.7	68.6		67.8	66.5	67.4	67.5	69.4	73.3	77.4	78.7	81.6	81.4	79.4	70.6	64.0	65.6	72.2	64.1	67.5	67.3
20 **	70.0	69.2	68.5	70.0	72.6	74.3		74.0	74.0	70.2	75.4	77.5	73.7	76.6	74.2	68.6	73.4	62.7	68.0	53.6	65.4	67.5	70.0	67.2	69.9
21 **	71.6	66.1	66.1	65.2	75.6	79.1		74.9	69.0	72.1	73.0	75.3	76.1	73.6	75.1	73.6	70.8	66.1	68.1	68.4	64.7	67.0	68.9	66.7	65.1
22 **	67.2	69.4	66.6	65.7	74.3	81.0		72.2	69.6	70.2	67.4	72.3	75.2	73.6	75.1	71.6	69.8	68.2	71.6	56.6	55.7	68.9	64.9	71.2	73.5
23	68.7	71.2	72.2	72.2	66.2	66.7		69.4	66.7	67.2	67.2	68.5	70.2	72.5	73.2	71.7	68.6	71.7	70.9	70.5	69.7	60.8	65.5	67.9	69.0
24	71.2	67.1	65.5	66.9	71.8	76.7		71.5	68.4	66.9	67.5	69.5	71.9	74.2	72.0	72.5	72.3	69.0	69.5	70.0	68.9	66.9	68.5	67.3	69.7
25 **	73.6	71.7	68.2	68.9	70.7	73.2		73.5	74.9	73.5	69.1	70.4	71.0	73.1	73.7	79.6	78.2	67.2	67.9	65.6	66.1	63.2	60.5	68.9	48.2
26	49.5	37.4	41.2	45.3	52.5	62.0		64.2	64.6	65.2	66.2	68.6	72.0	73.7	73.5	72.5	71.2	70.3	71.0	70.6	70.7	71.3	69.9	69.3	69.1
27	70.2	61.3	55.6	61.2	58.6	62.7		64.2	64.6	66.2	65.8	70.8	73.2	73.4	77.2	75.2	71.9	72.2	70.7	70.5	70.2	70.6	69.2	67.3	66.2
28	60.6	66.5	69.2	68.1	68.1	68.3		68.0	67.7	67.2	68.1	69.5	71.6	73.3	73.9	74.4	73.0	72.4	72.2	71.2	70.6	70.3	70.0	67.9	67.7
29	70.1	67.8	67.2	68.1	68.7	68.9		68.2	66.6	66.2	66.8	69.0	71.7	73.9	75.9	78.6	78.8	69.9	67.5	71.2	64.3	64.8	65.4	66.3	66.7
30 *	66.2	68.2	68.2	67.0	68.3	68.5		67.2	66.6	66.2	67.2	70.5	72.2	75.2	75.6	75.1	73.8	72.2	71.5	71.5	70.7	70.2	70.2	69.7	68.2
Mean	68.2	67.9	67.4	67.3	68.0	69.3		68.5	67.5	68.2	69.4	72.4	74.9	76.7	77.0	75.7	73.9	71.7	71.0	68.9	68.8	69.1	68.1	68.4	67.7
Mean *	69.0	69.3	69.1	68.2	67.7	66.8		65.9	65.8	67.0	69.5	73.4	76.1	78.4	78.4	76.1	73.5	71.9	71.2	71.7	71.5	71.2	71.2	70.2	69.1
Mean **	70.4	69.3	67.5	67.7	72.4	76.5		74.5	71.4	71.0	71.0	73.9	74.1	75.1	75.1	73.3	73.6	66.4	69.3	62.8	64.6	67.5	64.0	68.4	65.2
October	8° + Tabular Quantities																								
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	68.2	68.0	68.3	68.4	68.7	68.7		68.2	67.4	66.3	67.0	69.2	72.6	74.7	75.2	74.7	74.2	73.4	73.4	71.9	71.1	70.1	69.8	69.2	67.8
2	67.6	65.2	64.4	64.5	67.2	68.2		70.2	69.0	67.4	67.0	68.6	71.6	74.0	74.5	74.6	73.6	72.7	72.2	70.9	70.2	70.0	67.6	68.8	69.2
3	69.2	68.6	67.8	68.3	68.4	68.8		68.6	67.6	66.9	67.7	70.8	75.2	77.3	76.2	75.2	73.1	72.2	71.6	70.5	70.2	68.7	67.6	69.2	69.4
4 *	69.6	69.2	68.9	69.2	69.2	68.8		67.9	66.7	65.9	67.1	70.2	73.7	75.7	76.0	74.9	73.3	72.2	71.4	71.3	69.4	69.5	69.3	69.9	68.0
5	69.5	70.9	69.4	69.1	68.8	68.4		67.9	67.2	67.0	67.6	69.8	72.9	75.2	75.7	75.2	74.2	73.2	72.9	72.1	71.2	70.2	69.8	69.0	68.7
6 *	68.6	67.6	67.6	68.8	68.9	68.7		68.7	68.0	67.3	68.0	70.2	73.0	74.6	75.2	75.0	73.8	72.7	72.2	71.9	71.3	71.2	70.9	70.5	70.2
7	70.1	69.6	69.8	70.2	69.6	69.2		68.8	67.3	66.2	66.2	69.9	73.5	78.3	81.2	81.3	81.3	74.9	75.2	75.0	64.8	51.8	58.3	56.6	58.1
8 **	66.1	68.2	68.1	64.0	69.0	70.0		68.8	70.5	74.7	74.7	72.7	73.7	75.4	75.8	69.9	75.0	67.0	68.2	72.0	70.3	70.0	69.2	69.2	63.7
9	62.2	63.4	67.2	66.8	67.6	68.5		69.5	69.9	69.8	68.6	70.0	72.1	75.9	76.6	75.4	76.0	74.3	74.5	71.5	71.2	69.9	58.7	60.0	65.8
10	67.4	69.8	72.9	72.6	68.4	68.9		68.0	68.2	67.9	68.3	72.2	75.3	78.1	77.3	78.2	74.8	72.4	59.1	71.2	69.7	64.9	61.2	67.3	68.3
11	72.6	67.4	67.3	67.7	68.5	68.6		70.9	71.4	71.2	69.8	71.7	75.3	73.5	75.2	75.4	70.2	70.0	70.7	70.0	69.1	69.6	69.4	69.3	69.2
12	69.6	70.2	70.2	71.2	69.9	69.3		69.6	69.4	69.4	70.1	74.9	74.9	75.4	77.8	77.1	73.7	72.5	72.4	71.7	70.1	68.6	67.8	68.2	68.4
13	67.5	68.9	69.6	70.8	68.5	66.4		67.8	66.9	66.7	67.9	71.9	75.8	75.8	76.6	74.7	73.4	71.6	71.0	70.7	69.6	61.6	63.2	61.6	62.8
14	60.3	69.8	69.7	71.6	70.8	69.4		68.3	66.9	67.6	67.6	69.2	72.2	74.8	75.3	74.7	73.0	69.8	69.2	66.2	70.2	62.5	63.2	67.1	72.3
15	70.6	69.0	72.2	71.5	69.8	69.0		67.6	66.6	65.2	66.3	69.5	73.6	75.2	75.5	74.9	73.6	72.2	71.9	71.3	68.6	67.8	69.8	68.6	64.4
16	67.6	67.3	67.6	70.3	69.2	69.0		69.8	68.6	67.8	69.3	72.7	75.7	79.2	78.4	78.2	75.5	74.9	73.3	68.9	67.2	64.4	64.1	59.1	64.1
17 **	63.9	68.5	61.8	66.3	68.3	78.3		77.7	74.1	73.6	71.2	75.2	75.2	76.2	75.8	73.2	63.1	68.1	70.2	68.7	67.8	62.2	60.2	64.7	69.2
18 **	72.2	70.7	70.5	73.4	74.2	75.5		72.3	71.7	70.3	69.3	68.0	71.0	73.0	69.9	68.7	72.5	66.3	58.5	68.1	69.5	66.9	65.7	67.1	66.5
19 **	69.5	62.4	64.4	70.3	66.5	70.4		72.1	69.5	68.6	68.3	69.4	71.4	73.7	72.5	74.4	73.1	67.4	59.9	64.0	64.9	64.6	61.8	65.4	57.0
20	59.0	70.7	70.0	69.1	69.8	70.4		71.0	69.0	67.4	68.8	70.0	72.6	74.3	73.2	73.1	72.5	70.4	68.8	69.4	66.4	66.0	65.4	65.9	64.9
21	65.5	68.6	69.1	70.4	73.6	71.5		69.7	68.1	67.3	67.5	69.1	71.5	72.9	74.4	72.9	71.5	70.1	70.1	69.8	65.9	66.8	68.0	68.2	68.4
22	68.5	67.5	67.7	69.8	69.0	69.1		69.2	67.6	67.5	67.7	70.5	73.0	76.0	75.5	77.8	74.6	71.0	69.5	64.7	70.5	69.9	67.8	67.0	68.7
23	71.7	68.3	68.4	68.5	69.4	69.2		69.1	69.1	69.5	69.0	70.1	71.8	74.0	72.6	73.8	70.1	71.6	70.1	72.1	71.1	70.3	68.9	65.6	67.3
24 *	67.6	68.6	69.1	69.2	69.0	68.6		68.6	68.1	68.3	69.7	71.3	73.6	74.5	74.4	73.0	72.2	71.5	72.2	72.3	72.0	71.3	70.3	68.8	68.3
25 *	69.5	69.5	69.5	69.3	69.3	68.8		68.6	68.5	69.0	70.0	71.1	72.9	73.9	73.9	73.0	72.0	71.5	71.9	71.6	70.9	70.5	70.5	70.5	70.4
26	70.4	69.8	70.2	70.6	70.5	69.7		69.5	68.3	67.3	69.2	71.6	76.0	73.5	75.3	75.4	74.5	73.1	73.1	72.5	71.1	70.4	66.1	54.9	64.6
27	68.3	68.5	66.5	65.0	65.5	66.1		67.4	67.1	67.0	68.5	70.5	72.6	76.0	76.1	74.6	72.8	71.2	71.1	70.5	70.3	69.8	69.5	69.9	69.5
28 **	69.5	69.6	69.9	69.9	69.8	69.7		71.2	68.8	66.2	65.9	69.4	72.5	79.6	86.8	95.3	93.7	88.0	74.8	64.1	65.5	54.7	64.5	67.5	70.0
29	70.5	71.4	69.2	68.5	68.2	67.9		67.5	67.1	67.4	67.8	69.9	71.5	72.5	72.0	71.0	70.1	69.8	70.0	69.9	68.8	68.5	68.6	68.5	68.5
30	68.9	68.9	69.0	69.1	68.6	68.5		68.7	67.4	66.5	68.1	70.0	71.9	73.8	73.9	72.5	71.5	70.6	70.5	70.5	69.6	69.0	69.0	68.9	68.6
31 *	69.0	69.1	69.3	69.5	69.1	68.8		68.5	67.6	66.9	67.1	69.1	71.6	72.9	74.0	72.7	71.9	71.0	70.5	70.6	69.8	69.2	69.1	68.5	67.6
Mean	68.1	68.6	68.6	69.2	69.1	69.4		69.4	68.5	68.1	68.4	70.6	73.2	75.2	75.6	75.2	73.7	71.9	70.3	70.2	69.3	67.1	66.6	66.6	67.1
Mean *	68.9	68.8	68.9	69.2	69.1	68.7		68.5	67.8	67.5	68.4	70.4	73.0	74.3	74.7	73.7	72.6	71.8	71.6	71.5	70.7	70.3	70.0	69.6	68.9
Mean **	68.2	67.9	66.9	68.8	69.6	72.8		72.4	70.9	70.7	69.9	70.9	72.8	75.6	76.2	76.3	75.5	71.4	66.3	67.4	67.6	63.7	64.3	66.8	65.3

* International Quiet Day. ** International Disturbed Day.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November																									
													8° + Tabular Quantities											
1 *	69.1	70.0	69.9	69.8	69.5	69.1		69.1	68.1	67.1	67.1	68.9	71.8	74.0	74.4	73.4	72.5	71.5	71.5	71.2	70.4	70.1	68.4	67.1	67.9
2	68.5	69.5	69.1	70.9	67.3	67.9		68.5	68.9	68.1	66.9	68.9	70.7	74.6	74.9	74.5	74.0	71.9	67.7	69.1	67.2	66.6	66.9	63.5	62.6
3 **	63.8	64.2	67.7	66.6	65.9	67.5		68.6	69.5	69.3	70.5	69.0	70.5	74.5	74.0	73.9	73.5	72.1	70.3	68.8	69.5	65.2	59.5	56.5	55.6
4	54.4	60.6	62.5	60.5	66.9	71.5		77.0	78.1	72.9	71.1	69.5	71.8	73.3	73.5	73.0	67.5	73.0	72.5	70.7	70.0	69.1	63.6	69.5	63.4
5	63.5	65.9	66.5	69.5	71.8	70.1		70.5	70.5	69.0	67.7	70.0	70.2	71.5	72.5	72.5	72.0	70.5	70.5	69.3	65.9	69.3	69.0	67.7	65.1
6	66.9	68.6	69.2	69.8	71.0	70.3		70.6	69.5	69.7	70.4	71.6	73.5	74.6	76.2	78.1	77.5	76.5	74.5	69.3	62.9	68.9	68.0	68.5	67.9
7	64.3	64.9	62.2	61.3	65.3	66.9		67.8	68.5	72.3	70.9	70.8	73.3	71.6	72.5	72.5	73.0	72.2	72.5	72.4	70.5	69.2	68.5	67.9	67.1
8	66.9	67.6	64.9	67.4	68.5	68.6		69.1	68.6	68.5	69.3	70.9	73.0	73.6	73.0	72.1	71.5	71.5	71.7	71.5	71.4	68.5	68.0	69.0	69.0
9	69.1	69.5	69.1	69.5	71.6	70.7		70.1	69.1	68.6	68.4	71.5	71.1	73.0	74.9	77.5	77.5	77.9	75.5	74.9	72.1	71.4	70.5	69.4	67.3
10 *	66.7	68.6	68.5	68.5	68.5	68.5		68.9	69.5	69.5	69.8	70.7	71.7	72.2	71.9	71.0	70.9	70.5	70.2	70.0	69.7	69.5	69.5	69.5	69.9
11	69.5	69.9	70.0	69.9	69.5	69.1		68.8	68.4	68.1	68.5	70.5	72.5	73.1	73.3	71.9	72.1	71.6	71.5	70.9	70.1	68.0	62.6	67.5	66.2
12	65.1	68.9	65.4	68.1	69.1	71.9		71.2	70.4	70.5	72.1	73.1	74.0	73.5	74.3	74.7	71.5	72.7	71.9	71.2	70.1	69.2	69.0	67.5	66.6
13 **	69.5	69.5	69.7	70.2	68.4	69.5		69.1	68.5	69.0	70.8	72.9	74.5	76.8	77.2	77.6	77.5	79.5	68.9	66.9	66.1	57.2	57.5	57.5	63.1
14 **	66.9	62.2	65.5	68.7	69.4	71.0		70.4	70.4	68.2	67.8	68.8	72.1	74.2	74.8	72.0	71.1	69.7	62.9	65.0	59.6	57.0	63.5	61.2	62.6
15 **	62.1	61.5	65.6	70.7	69.5	70.3		70.5	69.5	68.3	68.0	69.1	71.3	73.5	73.9	68.6	72.0	68.5	67.5	69.6	67.5	66.5	66.6	67.5	68.7
16	64.5	65.9	68.3	70.3	72.0	71.1		69.9	69.2	68.9	68.2	69.2	71.5	72.0	71.1	72.3	71.9	68.6	66.3	70.5	68.0	67.1	68.3	68.4	68.3
17	68.2	69.2	69.2	69.5	70.3	70.7		72.4	71.5	70.5	70.5	71.1	72.2	72.9	73.5	72.8	72.5	72.7	72.9	70.9	60.1	49.9	56.5	64.5	68.4
18 *	68.5	69.5	70.5	70.5	70.1	70.2		69.5	68.9	68.5	68.5	69.5	71.0	71.4	72.3	71.7	71.6	70.5	70.3	70.1	68.5	66.0	66.6	67.4	69.3
19 *	69.2	68.9	68.2	68.9	68.4	69.4		69.3	69.1	68.5	68.4	69.6	71.8	72.1	72.0	71.7	71.4	71.2	71.2	71.0	69.6	69.4	69.0	65.5	62.8
20	66.4	68.8	70.6	70.3	68.9	69.1		69.2	69.1	69.8	69.8	70.8	71.4	71.8	71.9	72.4	73.6	76.1	74.6	74.1	70.9	62.6	68.4	66.0	63.9
21	64.9	64.3	65.7	67.6	66.9	67.6		68.9	69.4	70.1	70.2	70.5	71.4	71.4	70.8	70.4	71.5	71.3	71.4	72.0	70.4	67.2	68.1	68.8	66.3
22	62.0	65.6	68.4	68.7	69.0	69.1		69.5	69.4	70.4	70.0	70.9	71.3	71.9	72.0	71.5	71.9	71.9	73.4	71.2	68.8	70.6	69.9	66.9	62.3
23	66.8	68.9	66.2	69.0	68.7	69.0		69.8	69.4	69.8	70.4	71.3	71.4	72.0	72.8	74.5	73.8	70.9	71.8	68.9	67.8	62.1	63.8	67.4	68.9
24	67.9	69.4	69.4	69.7	68.0	67.8		69.0	68.9	68.8	69.3	70.3	71.6	72.8	72.6	73.7	72.7	72.4	70.8	69.8	68.6	67.5	68.0	69.1	68.6
25	68.9	69.0	68.4	68.7	69.0	68.4		68.5	68.8	70.8	72.8	72.3	72.4	73.4	73.9	76.4	74.1	71.6	71.3	70.4	67.6	66.9	70.9	64.1	64.5
26	67.7	68.4	68.5	68.3	68.3	68.4		68.4	68.4	69.2	70.8	71.9	72.9	74.4	73.7	73.9	72.9	70.9	71.4	70.3	64.6	68.5	67.7	68.2	68.0
27 *	67.3	66.4	67.7	68.5	68.6	68.7		69.0	69.1	69.4	69.2	69.9	70.6	72.4	72.7	71.5	71.1	70.5	71.0	71.2	69.5	69.2	68.9	67.0	67.3
28	67.4	67.6	69.2	66.4	67.1	68.5		68.9	68.3	69.0	69.2	71.3	72.4	73.0	73.2	71.7	72.2	71.7	70.9	69.6	62.4	64.0	59.4	62.9	65.8
29 **	66.9	70.1	72.4	70.4	69.3	69.6		69.8	68.8	69.8	68.8	69.3	71.8	70.9	69.7	71.8	71.0	64.4	71.4	70.1	66.7	64.1	63.7	65.9	63.3
30	64.2	67.8	69.2	69.4	69.9	69.4		70.2	69.4	67.8	67.4	68.4	70.2	72.6	73.0	71.4	72.8	72.1	70.9	70.4	67.3	65.6	66.0	66.8	67.5
Mean	66.2	67.4	67.9	68.6	68.9	69.3		69.7	69.5	69.3	69.4	70.4	71.9	73.0	73.2	73.0	72.6	71.9	71.0	70.4	67.8	66.2	66.2	66.3	65.9
Mean *	68.2	68.7	69.0	69.2	69.0	69.2		69.2	68.9	68.6	68.6	69.7	71.4	72.4	72.7	71.9	71.5	70.8	70.8	70.7	69.5	68.8	68.5	67.3	67.4
Mean **	65.8	65.5	68.2	69.3	68.5	69.6		69.7	69.3	68.9	69.2	69.8	72.0	74.0	73.9	72.8	73.0	70.8	68.2	68.1	65.9	62.0	62.2	61.7	62.7
December																									
													8° + Tabular Quantities											
1	69.0	69.1	72.4	69.9	69.9	69.0		69.4	69.4	68.4	67.9	68.6	70.5	73.7	73.3	72.4	71.4	70.0	69.8	69.4	68.6	64.6	65.7	65.3	62.4
2	64.3	66.9	68.8	69.4	70.8	71.4		72.0	69.3	69.0	69.6	70.1	72.2	73.8	74.0	74.6	71.6	70.5	69.5	67.2	64.9	65.9	64.3	63.5	64.2
3	66.0	67.7	67.9	68.2	69.0	70.1		69.3	69.2	69.7	69.9	72.0	73.0	74.7	75.7	74.6	75.5	74.3	73.5	70.4	68.5	65.8	64.4	61.1	62.8
4	66.9	69.4	69.4	70.1	69.2	68.5		69.2	69.4	70.4	70.8	71.9	70.4	71.4	73.7	75.8	74.9	70.9	70.4	64.1	65.4	66.8	58.9	63.9	65.9
5	66.8	67.3	69.9	68.8	67.8	68.8		69.7	69.6	70.4	70.8	72.4	72.1	73.0	71.4	70.4	70.0	70.3	67.9	69.3	69.4	69.0	66.4	67.6	68.4
6 *	68.7	68.3	68.8	68.7	68.8	68.7		69.0	69.1	69.6	69.3	70.2	71.7	72.3	72.3	71.3	70.7	70.3	70.8	70.4	69.3	67.1	68.6	68.3	68.1
7	68.3	68.4	70.3	68.5	68.5	68.9		69.0	68.8	69.1	68.6	69.5	71.2	73.1	73.3	72.9	72.8	71.9	72.1	70.1	68.1	65.8	64.3	68.7	68.8
8 **	66.3	75.3	60.3	66.3	67.2	67.8		70.8	70.1	70.7	69.7	71.3	72.6	72.6	73.7	73.5	70.8	67.3	68.2	62.9	62.8	54.0	63.6	66.0	68.4
9 **	68.5	68.5	67.8	72.4	73.2	68.3		69.4	69.5	69.6	70.3	73.2	75.1	71.7	74.4	69.9	74.3	68.7	61.8	55.6	62.3	65.2	67.0	68.3	68.4
10	68.8	69.8	70.0	69.8	70.8	71.8		71.1	71.3	69.8	71.6	71.7	70.0	70.3	72.9	71.9	68.3	65.0	68.1	60.9	63.7	66.1	66.3	67.4	68.3
11	67.7	62.2	71.4	69.3	68.6	69.4		69.8	71.5	77.2	74.9	70.5	71.0	71.4	71.9	69.7	69.8	64.5	68.9	66.3	63.3	65.5	62.3	61.3	66.9
12	67.8	68.8	70.1	70.2	70.2	71.0		70.6	68.9	67.8	67.9	68.1	69.5	71.1	71.3	70.2	70.4	69.8	69.9	68.5	68.2	66.7	65.3	65.7	66.9
13 *	67.8	69.3	69.6	69.8	70.9	70.3		69.5	68.7	68.2	67.4	68.9	70.2	71.6	71.3	71.2	70.6	69.3	69.2	68.9	68.4	67.9	66.9	66.7	67.8
14	68.0	67.9	68.3	68.8	69.0	69.3		69.3	69.0	67.7	67.8	69.7	71.2	72.4	72.7	71.8	71.0	69.8	69.6	69.7	69.6	69.6	67.3	58.7	57.9
15	57.8	60.8	67.0	68.3	68.9	69.1		68.7	67.8	66.8	66.8	69.1	72.7	71.8	72.8	74.1	71.4	71.0	72.1	70.9	59.3	65.7	67.0	67.6	67.0
16	67.3	66.3	68.7	68.3	68.8	70.7		69.9	69.3	68.3	68.7	69.3	70.8	71.4	71.9	71.0	70.6	70.1	68.7	70.4	69.9	69.3	66.4	65.8	67.7
17	68.1	68.0	69.3	71.7	68.4	68.7		69.7	69.7	69.7	68.9	69.9	72.3	72.6	73.3	73.6	68.3	72.7	73.2	69.9	62.7	66.7	67.2	63.7	59.3
18	62.7	67.9	67.8	69.1	67.3	68.9		69.3	68.8	68.9	68.2	69.5	71.1	72.8	73.1	71.6	71.3	70.7	70.3	68.3	70.6	68.9	63.0	63.2	66.7
19	69.4	67.5	69.5	67.3	66.9	67.1		68.1	68.7	68.3	68.7	68.0	69.8	71.9	72.8	69.7	68.3	70.8	71.2	67.3	68.7	69.3	67.6	62.0	60.6
20	66.3	65.0	70.1	70.2	67.5	68.3		68.9	68.4	68.9	70.3	70.3	72.1	71.7	72.1	71.0	70.4	70.1	69.8	66.6	67.9	68.7	68.0	67.2	65.5
21	66.1	66.8	68.5	68.3	67.7	68.3		68.8	68.3	68.5	68.0	68.8	69.7	71.2	71.3	71.7	71.3	69.6	70.3	69.8	69.2	68.3	68.3	63.2	62.9
22 **	65.8	67.8	65.3	67.3	65.6	65.3		67.8	67.7	67.3	67.9	68.9	70.0	70.8	73.2	74.3	71.5	72.0	69.9	61.3	69.0	57.6	60.3	58.7	63.7
23	67.5	63.3	62.5	66.7	68.3	68.3		69.3	68.3	66.9	67.8	68.7	69.8	71.7	71.6	70.8	69.9	69.7	69.3	69.3	69.0	68.1	67.9	67.6	68.0
24 *	68.3	68.0	68.4	68.5	68.6	68.8		68.3	67.9	67.7	67.8	68.6	69.3	70.7	70.7	70.2	69.8	69.1	68.9	69.2	68.7	67.3	68.5	67.4	67.5
25 *	67.7	68.3	68.0	68.2	68.3	68.7		68.7	68.3	67.5	67.7	68.9	70.7	70.8	71.1	70.3	69.8	69.4	69.3	68.9	68.7	68.6	68.3	66.4	68.1
26 *	68.8	69.0	68.9	68.9	68.8	68.8		68.6	68.3	67.6	67.3	68.5	69.9	70.7	71.2	70.4	70.2	69.8	69.8	69.2	69.0	68.7	68.8	68.4	69.0
27	69.0	69.3	68.9	68.3	69.9	69.8		68.9	69.1	68.2	68.4	68.8	69.1	70.3	70.5	71.3	70.7	70.1	70.2	70.2	69.2	69.3	69.1	66.3	64.5
28 **	69.3	68.5	69.5	70.2	78.6	79.9		71.5	69.0	70.0	73.3	71.0	75.2	73.9	76.3	71.3	70.2	67.7	70.3	65.7	61.5	59.5	63.0	65.5	65.6
29	66.8	66.5	68.1	68.1	68.3	67.9		68.1	66.9	67.1	66.8	67.5	69.2	70.8	71.2	69.3	69.3	69.3	68.8	68.1	67.8	67.4	66.9	67.3	67.7
30	68.2	68.8	69.2	69.0	69.1	69.1		68.6	68.0	67.7	67.8	69.2	69.3	70.2	70.8	69.9	69.1	69.2	69.8	69.0	68.6	68.2	68.0	64.5	63.6
31 **	66.1	66.0	67.1	67.7	68.2	67.2		68.2	68.0	69.2	69.1	71.5	68.2	70.5	72.2	69.2	69.2	65.1	66.9	63.5	62.2	64.1	59.7	63.5	66.2
Mean	67.1	67.6	68.4	68.9	69.1	69.3		69.3	68.9	68.9	69.0	69.8	71.0	71.8	72.5	71.6	70.8	69.6	69.6	67.5	66.9	66.3	65.8	65.2	65.8
Mean *	68.3	68.6	68.7	68.8	69.1	69.1		68.8	68.5	68.1	67.9	69.0	70.4	71.2	71.3	70.7	70.2	69.6	69.6	69.3	68.8	67.9	68.2	67.4	68.1
Mean **	67.2	69.2	66.0	68.8	70.6	69.7		69.5	68.9	69.4	70.1	71.2	72.2	71.9	74.0	71.6	71.2	68.2	67.4	61.8	63.6	60.1	62.7	64.4	66.5

* International Quiet Day. ** International Disturbed Day.

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

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	630	627	637	649	649	652	653	658	662	663	662	663	663	658	648	646	648	637	653	653	646	636	636	640
2 **	641	638	639	635	636	653	670	665	661	654	648	649	653	663	650	635	631	635	638	645	660	640	640	648
3	646	643	645	645	653	665	651	653	650	650	648	653	657	650	645	638	636	640	643	655	646	645	646	647
4 *	639	638	639	641	643	643	648	649	649	649	645	649	656	655	653	650	646	654	659	652	651	658	653	651
5	649	646	645	651	655	656	659	659	659	650	649	652	661	660	662	656	657	650	646	643	643	667	648	643
6 *	640	640	641	646	650	651	652	651	646	640	641	646	653	657	654	649	648	650	650	645	645	651	650	649
7 *	648	648	649	655	657	655	655	654	648	638	635	636	645	656	658	653	650	648	652	651	650	646	646	648
8	648	655	655	660	663	666	666	665	653	653	653	646	653	650	640	635	650	656	658	658	653	649	649	650
9 *	651	649	649	657	659	667	661	659	659	650	640	639	640	652	657	652	655	654	652	652	651	649	645	644
10	643	642	645	646	650	655	655	652	650	644	641	644	652	659	660	664	644	610	599	625	630	616	616	632
11	622	622	622	626	625	631	635	635	644	642	644	642	642	638	642	646	649	638	642	629	625	622	646	628
12	635	629	636	640	648	654	640	634	632	622	613	628	631	635	628	618	625	632	644	642	649	645	642	635
13	637	635	638	653	638	633	645	634	639	639	634	639	648	652	652	648	646	645	644	613	627	624	636	639
14	635	628	630	636	632	641	650	647	646	636	626	622	628	622	637	647	635	629	629	634	640	647	632	634
15	641	642	632	641	641	644	651	652	649	645	644	642	634	647	645	640	637	645	628	639	633	626	637	640
16	639	628	629	634	640	642	642	649	645	645	637	637	629	613	639	635	614	628	622	638	654	651	638	632
17	632	649	640	642	630	659	647	650	635	632	632	634	640	642	642	645	645	644	645	648	649	645	645	642
18 *	644	641	642	645	649	652	658	657	652	648	641	642	645	644	634	645	648	648	648	652	650	649	662	654
19	642	658	654	640	644	645	655	655	654	652	652	646	636	639	655	668	666	664	667	656	651	619	600	612
20	619	636	627	627	636	641	647	648	646	642	639	642	648	652	645	652	653	652	648	649	647	648	646	647
21 **	652	652	652	653	654	656	656	657	658	656	662	658	662	662	652	605	598	609	603	622	614	618	627	632
22 **	638	647	645	645	633	642	622	642	635	620	619	626	602	590	581	627	635	632	620	624	609	639	615	644
23 **	642	648	638	638	640	644	634	639	635	624	608	629	632	628	620	628	629	625	630	648	624	647	661	646
24	644	639	642	645	645	652	644	642	637	635	630	628	622	634	638	637	639	642	644	642	644	645	641	642
25	642	640	640	644	646	650	652	650	641	635	632	630	639	640	632	644	644	648	649	649	645	644	646	642
26	642	642	644	649	651	654	657	660	655	652	648	652	655	661	658	650	644	649	604	590	594	622	635	636
27	640	632	634	635	636	639	637	634	645	645	642	642	643	642	639	648	648	640	632	645	632	635	641	634
28	630	643	632	640	634	641	639	643	647	642	636	645	644	644	648	635	638	630	631	625	622	627	629	635
29	634	638	635	638	635	640	641	639	641	645	639	625	629	637	642	641	643	635	632	632	629	638	652	644
30	636	632	637	641	639	639	645	657	650	648	650	650	647	643	643	650	644	626	631	641	627	620	616	637
31 **	638	641	636	673	668	655	639	597	597	598	594	607	615	617	604	621	611	588	608	601	624	638	603	597
Mean	639	640	640	644	644	649	649	648	646	642	638	640	642	643	642	642	641	638	637	639	638	639	638	639
Mean *	644	643	644	649	652	654	655	654	651	645	640	642	648	653	651	650	649	651	652	650	649	651	651	649
Mean **	642	645	642	649	646	650	644	640	637	630	626	634	633	632	621	623	621	618	620	628	626	636	629	633
February	18000 γ + Tabular Quantities (in γ)																								
1	611	646	643	618	599	609	608	610	603	608	602	611	613	624	633	638	639	643	644	637	629	630	618	628
2 *	629	630	627	627	631	639	641	639	638	637	635	636	637	642	643	641	637	641	648	648	646	643	639	637
3 *	639	637	637	637	639	644	647	647	639	636	635	641	648	651	649	649	647	648	648	651	648	647	643	648
4	649	650	650	651	651	651	651	653	653	645	637	627	631	629	627	623	613	609	630	644	641	637	641	641
5	638	641	644	645	656	658	655	661	661	655	661	652	657	649	641	641	651	651	648	609	604	614	618	608
6	614	664	620	637	651	621	621	636	613	621	602	614	618	627	633	631	624	628	634	638	644	648	647	648
7	648	637	636	634	638	641	646	644	635	631	624	627	638	643	649	648	645	645	637	628	638	645	645	646
8	633	642	642	643	646	651	651	647	643	633	629	626	637	645	647	632	593	599	615	597	611	633	630	626
9	624	633	629	634	637	641	648	641	643	633	624	625	624	615	627	609	613	633	609	600	607	666	631	625
10	630	631	637	634	635	637	638	634	635	635	632	623	625	633	634	640	636	635	633	625	635	631	675	635
11	631	635	644	635	633	637	631	635	632	625	626	628	630	631	639	633	611	609	626	608	634	644	641	696
12	651	642	621	639	631	617	639	637	641	633	629	623	621	621	623	619	628	634	639	648	640	643	644	671
13	637	624	634	631	638	637	633	639	639	639	638	623	618	628	631	642	633	627	637	649	641	631	651	647
14	637	631	637	631	636	641	644	641	641	641	634	633	632	630	636	636	641	647	653	656	650	650	646	641
15 *	641	644	643	646	646	646	644	643	642	643	643	643	641	639	647	644	643	647	647	643	643	643	646	653
16 *	642	642	642	644	645	650	652	651	650	647	645	644	643	646	650	653	652	654	657	654	653	652	652	651
17	649	647	646	647	649	652	652	655	652	646	639	640	642	644	649	652	652	652	648	645	639	640	642	640
18	655	642	645	649	652	659	668	673	670	662	648	631	629	634	634	629	632	628	622	632	648	648	653	650
19	652	654	654	660	662	664	667	666	662	659	638	642	655	652	657	652	648	644	645	644	652	648	639	645
20 *	638	642	644	648	650	655	658	652	648	642	637	638	642	642	645	643	647	651	654	655	654	654	654	652
21	652	648	650	651	657	662	662	664	657	642	642	640	640	639	638	649	654	654	629	627	629	637	651	654
22 **	666	672	647	649	653	665	672	677	667	661	632	638	620	602	615	599	612	626	631	636	662	679	637	639
23 **	642	639	617	628	626	648	650	620	612	629	630	600	599	602	605	625	630	607	647	672	635	620	649	645
24 **	612	609	609	622	612	627	629	614	610	602	612	615	605	629	625	635	598	641	639	648	641	638	644	651
25	642	625	632	630	632	629	634	634	628	625	618	620	632	639	642	642	640	634	635	640	645	668	662	635
26	635	638	644	651	652	656	655	655	632	634	632	632	640	644	620	618	629	640	640	633	649	636	642	644
27 **	685	698	624	605	627	625	639	627	615	619	610	612	622	625	629	655	655	638	662	665	669	672	659	662
28 **	645	645	665	659	660	700	644	631	642	627	620	612	617	625	638	628	635	635	637	635	629	615	639	647
Mean	640	642	638	639	641	645	646	644	639	636	631	628	631	633	636	636	633	636	639	638	640	643	644	645
Mean *	638	639	639	640	642	647	648	646	643	641	639	640	642	644	647	646	645	648	651	650	649	648	647	648
Mean **	650	653	632	633	636	653	647	634	629	628	621	615	613	617	622	628	626	629	643	651	647	645	646	649

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March	18000 γ + Tabular Quantities (in γ)																								
1	629	633	649	623	627	634	639	639	636	636	628	625	624	629	629	627	625	639	644	645	644	644	643	647
2 *	644	641	641	642	644	647	649	648	647	640	634	628	628	626	621	634	638	636	639	646	648	650	647	662
3	646	643	644	645	649	655	658	658	652	645	645	639	646	642	641	634	635	646	645	648	651	652	652	651
4 *	649	647	647	647	649	652	646	651	650	648	647	642	639	637	640	640	640	642	652	657	656	658	679	652
5 *	653	652	652	656	653	652	652	665	666	662	658	658	655	658	653	648	645	648	649	650	654	656	659	659
6	660	658	656	659	655	646	650	672	688	680	670	659	652	656	652	634	649	650	644	644	658	657	664	659
7 **	663	669	645	651	644	644	649	658	667	671	673	651	634	629	611	634	607	599	599	604	627	641	644	634
8	629	631	633	629	634	634	636	641	648	621	621	628	630	631	614	628	616	628	673	624	650	668	631	628
9	625	633	641	644	628	645	649	643	637	624	628	627	624	623	633	623	637	629	647	644	664	649	621	621
10 **	632	621	617	619	647	639	636	619	630	631	629	629	633	618	644	638	634	641	641	657	641	656	666	637
11	645	669	641	637	646	633	624	641	634	630	616	616	618	621	619	607	623	633	634	664	631	640	644	653
12	646	657	647	651	644	669	667	651	651	604	611	636	641	621	624	639	627	634	641	645	644	627	633	637
13 **	647	648	636	637	651	658	653	648	637	628	605	604	608	634	624	606	614	609	637	574	671	565	590	616
14 **	621	617	617	618	628	641	634	618	631	631	610	611	609	617	620	621	609	619	613	633	631	601	614	611
15	601	641	618	624	621	631	633	631	631	628	624	627	628	632	640	643	642	647	651	648	651	652	651	649
16	648	647	648	650	661	656	658	655	658	641	628	638	648	647	654	654	654	646	648	653	649	651	651	640
17	647	641	647	651	654	661	661	651	621	608	604	639	645	638	628	628	628	629	645	650	651	648	652	654
18	646	646	645	648	649	649	648	654	647	615	621	634	639	642	642	638	639	648	653	651	648	646	651	648
19	654	651	656	644	649	659	654	646	647	641	627	631	634	638	638	641	643	649	651	651	653	654	653	654
20	651	647	647	649	651	653	653	651	649	644	649	634	608	627	633	636	634	641	641	647	649	649	651	649
21 *	648	644	648	651	651	658	661	658	659	653	651	646	648	648	647	647	648	653	656	661	660	671	692	671
22 **	668	654	661	664	661	663	671	669	666	659	641	616	611	626	655	646	635	617	597	616	653	643	625	631
23	638	622	625	628	635	635	626	624	620	611	619	610	615	614	634	625	621	627	624	649	672	667	629	628
24	647	642	643	634	635	636	643	637	626	622	624	638	617	637	646	635	641	639	631	646	614	615	636	645
25	648	649	653	650	635	634	635	631	632	617	597	591	628	641	641	641	651	651	651	654	651	649	661	671
26	646	638	641	647	649	648	652	641	634	637	627	619	623	626	635	633	635	646	651	664	641	641	664	649
27	647	651	646	635	648	648	651	648	634	623	621	621	639	653	661	661	649	644	649	643	651	648	645	640
28 *	638	646	648	646	646	647	651	651	644	633	624	626	637	641	654	659	657	657	657	656	659	656	657	658
29	656	654	657	658	658	679	678	656	639	641	623	626	627	623	620	624	619	631	634	635	637	639	637	625
30	636	667	644	637	641	641	641	641	633	633	635	631	644	647	648	652	657	657	661	663	663	665	665	665
31	658	655	655	655	657	663	669	671	659	645	635	627	627	628	627	635	641	630	641	657	655	655	657	652
Mean	644	646	643	643	645	649	649	647	644	636	630	629	631	634	636	636	635	638	642	644	649	646	647	645
Mean *	646	646	647	648	649	651	652	655	653	647	643	640	641	642	643	646	646	647	651	654	655	658	667	660
Mean **	646	642	635	638	646	649	649	642	646	644	632	622	619	625	631	629	620	617	617	617	645	621	628	626
April	18000 γ + Tabular Quantities (in γ)																								
1 *	653	657	654	649	651	653	654	655	653	641	631	635	635	638	643	649	654	661	661	665	668	676	671	666
2	654	654	648	653	661	659	656	658	651	651	644	643	654	646	648	654	643	601	637	661	637	645	634	658
3 **	653	661	654	631	640	646	638	644	624	612	607	594	629	619	627	639	627	640	635	634	668	661	654	634
4 **	627	633	634	633	629	628	630	608	611	614	611	602	594	607	618	631	628	653	644	640	661	665	694	664
5	628	646	661	643	618	641	636	619	603	593	591	619	636	629	641	631	637	644	652	650	665	638	627	631
6 **	639	646	644	640	642	670	640	630	616	602	604	613	592	602	624	633	633	643	652	642	623	619	633	660
7	643	630	627	624	632	648	630	630	619	615	613	607	623	630	647	648	640	648	626	640	630	640	647	660
8	660	658	634	650	642	642	643	628	610	620	616	620	621	632	640	635	638	628	647	653	644	659	656	646
9	644	649	650	646	640	655	648	634	620	623	615	617	602	630	642	638	642	646	633	648	643	648	644	650
10	647	633	658	640	643	653	642	640	637	624	617	628	625	635	635	638	648	657	663	650	632	650	650	648
11	650	650	656	646	640	640	642	642	642	638	627	623	630	634	632	649	659	655	660	660	662	660	650	642
12	656	636	644	642	645	644	648	647	642	632	620	619	625	634	633	630	643	660	654	659	666	660	678	702
13 **	656	646	649	646	654	658	653	651	650	638	632	623	570	600	600	630	632	642	641	648	655	646	636	642
14	663	640	638	640	648	648	641	636	630	624	612	620	626	634	639	643	652	659	649	658	657	662	660	658
15 *	657	645	645	645	643	646	650	647	636	627	620	626	622	630	646	650	657	658	652	657	660	660	660	657
16 *	663	653	653	654	657	656	653	650	643	637	632	631	633	639	640	646	656	660	662	664	667	667	667	650
17	663	661	647	649	655	659	658	651	648	639	631	627	627	631	631	637	644	654	663	667	666	664	665	666
18 **	664	661	661	661	664	666	667	684	691	681	664	624	581	615	643	641	621	636	627	641	658	654	628	653
19	671	633	637	636	636	629	627	627	628	627	637	631	644	638	642	646	656	651	653	651	657	647	654	662
20	647	644	644	648	646	633	641	640	636	632	623	628	633	624	638	651	659	679	657	631	631	604	590	594
21	615	653	627	624	631	641	611	616	616	607	558	568	601	599	607	619	627	625	639	643	648	648	649	657
22	654	656	643	651	631	623	624	597	607	607	603	621	631	643	666	644	661	667	651	643	643	634	637	633
23	640	650	656	651	643	640	628	630	628	621	614	611	613	628	635	639	644	651	644	645	644	653	644	641
24	644	642	643	651	657	664	669	661	621	623	602	597	597	614	637	641	641	657	662	628	628	637	643	680
25	648	646	649	646	630	623	626	614	613	603	599	608	603	608	618	639	643	675	656	632	623	613	609	609
26	644	618	632	639	641	641	638	628	622	617	617	619	621	624	634	646	658	658	664	659	653	651	650	651
27	648	651	651	655	659	661	664	663	651	647	643	638	638	636	644	651	654	644	668	671	671	669	669	658
28 *	661	669	657	655	657	661	663	661	661	653	650	646	644	651	654	656	653	669	666	669	671	664	664	661
29	657	651	649	649	656	654	659	658	648	641	635	631	639	625	652	656	662	657	671	669	664	661	667	667
30 *	665	662	658	658	658	657	658	657	655	647	643	647	651	655	656	657	661	667	667	666	670	675	677	677
Mean	650	648	647	645	645	648	645	640	634	628	620	621	621	628	637	642	646	651	652	651	652	651	650	653
Mean *	660	657	653	652	653	655	656	654	650	641	635	637	637	643	648	652	656	663	662	664	667	668	668	662
Mean **	648	649	648	642	646	654	646	643	638	629	624	611	593	609	622	635	628	643	640	641	653	649	649	651

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	18000 γ + Tabular Quantities (in γ)																								
1 **	672	682	659	661	668	654	642	653	631	613	618	636	636	628	635	647	657	679	691	622	590	627	589	548
2 **	571	611	608	608	615	615	608	606	603	594	597	585	591	608	631	637	626	621	638	651	670	671	638	621
3	636	639	635	630	633	633	627	611	604	618	625	625	641	651	657	626	656	662	698	655	651	655	648	666
4	655	636	641	631	641	636	637	635	626	601	610	635	637	641	633	627	651	656	659	665	648	654	657	647
5	647	647	645	646	644	645	644	641	631	627	628	635	637	645	651	658	657	659	661	663	657	657	651	662
6	669	646	647	648	642	655	641	627	631	631	627	622	626	635	643	635	653	668	663	673	662	655	655	651
7	652	656	650	651	652	651	647	641	626	621	617	617	625	627	635	642	653	660	664	661	660	659	662	656
8 *	651	647	649	653	655	656	651	637	631	625	622	625	635	640	654	653	665	664	673	664	662	662	663	661
9 **	659	657	657	668	668	665	664	651	628	623	632	641	647	653	640	647	656	666	693	708	684	704	730	704
10 **	661	660	656	656	649	644	626	628	626	629	621	628	626	653	616	617	646	666	661	656	658	657	660	657
11	653	660	655	647	652	650	646	627	622	610	614	616	615	620	641	647	644	653	640	662	666	662	662	650
12	660	660	650	648	644	642	644	645	644	631	633	634	636	637	647	668	694	680	677	654	647	655	656	654
13 *	651	650	649	650	650	652	654	650	648	641	638	634	640	643	653	660	662	662	663	665	670	664	666	671
14	668	665	663	660	668	666	662	652	646	641	641	630	628	631	642	650	668	675	652	678	665	675	653	664
15	651	662	657	669	670	665	655	651	651	651	653	656	657	655	675	678	675	672	669	660	655	655	654	658
16	654	662	655	668	649	635	637	636	629	620	602	615	630	643	643	646	653	659	674	664	660	664	663	666
17	655	663	671	662	649	637	654	642	623	616	630	632	646	639	650	658	656	689	681	672	657	643	638	642
18	662	649	650	650	645	646	650	640	630	630	626	644	644	647	647	659	654	659	658	661	670	660	659	670
19	652	650	656	650	655	650	645	643	632	640	647	649	656	645	630	644	654	651	664	670	669	669	660	654
20 *	654	657	655	660	655	654	644	634	630	634	642	645	647	652	655	660	661	665	670	669	663	667	663	657
21 *	656	659	655	657	659	655	648	642	634	631	637	645	659	667	670	669	675	678	679	680	675	675	671	673
22 *	666	665	675	672	668	665	662	654	647	644	640	649	650	642	655	662	664	670	681	680	677	670	664	662
23	661	670	662	655	657	664	657	655	652	631	614	607	619	621	654	656	666	669	670	687	661	674	674	669
24	657	648	655	659	660	654	655	654	641	632	635	640	640	652	656	669	654	679	662	661	664	669	669	661
25	660	657	659	660	660	656	654	650	650	644	639	624	617	625	638	656	661	670	676	694	684	684	677	670
26 **	685	665	663	665	676	677	671	661	651	645	650	652	641	655	647	707	688	704	686	675	645	621	628	625
27	615	627	624	618	643	627	625	613	605	601	592	605	617	631	637	645	649	659	666	666	662	660	655	646
28	645	647	661	655	657	661	661	648	641	642	644	647	654	655	653	663	671	672	668	669	667	666	666	661
29	664	661	658	661	665	664	646	659	666	663	649	641	623	621	635	653	673	683	676	676	672	677	683	673
30	667	663	663	662	663	663	662	659	655	635	646	651	673	647	662	657	659	659	668	671	671	669	668	668
31	664	661	665	666	668	668	666	662	654	653	649	645	641	631	642	655	664	666	671	674	679	672	680	678
Mean	654	654	653	653	654	652	648	642	635	630	630	633	637	640	646	653	660	667	669	668	662	663	660	656
Mean *	656	656	657	658	657	656	652	643	638	635	636	640	646	649	657	661	665	668	673	672	669	668	665	665
Mean **	650	655	649	652	655	651	642	640	628	621	624	628	628	639	634	651	655	667	674	662	649	656	649	631
June	18000 γ + Tabular Quantities (in γ)																								
1	677	683	680	675	667	667	676	673	671	667	661	659	660	669	654	645	643	671	675	687	669	656	662	662
2	661	657	658	655	648	646	655	645	637	630	627	630	638	640	655	661	655	671	666	682	664	676	665	666
3	683	654	652	655	655	645	635	630	628	633	637	643	651	651	667	669	665	666	667	669	666	663	667	668
4	664	662	665	661	664	660	656	650	641	640	647	655	660	655	670	685	672	670	668	682	678	692	684	673
5	672	672	687	674	670	666	658	657	652	652	654	656	653	649	655	665	668	677	680	683	691	677	682	684
6 **	686	684	685	684	690	690	652	645	673	665	634	606	605	594	630	655	674	671	666	667	667	670	671	669
7	664	664	663	664	663	672	667	656	639	620	620	622	628	623	658	674	683	680	679	673	674	674	669	665
8	670	664	669	670	684	663	648	648	640	633	628	627	628	651	655	695	704	679	667	676	679	670	680	664
9	663	663	681	663	667	661	656	649	635	625	625	633	648	659	685	688	662	667	665	666	668	669	667	666
10 *	665	666	663	665	669	669	666	663	655	650	649	653	648	641	661	669	687	678	689	679	676	672	668	672
11	678	665	662	664	679	674	665	651	647	651	641	644	648	652	652	674	644	677	690	679	685	687	684	674
12	669	672	666	672	662	664	661	643	635	624	634	638	644	644	649	664	663	679	688	685	674	669	663	655
13	657	661	664	664	663	657	644	647	653	650	640	637	649	626	625	662	664	669	678	681	684	671	671	663
14	657	654	654	659	659	660	654	645	636	627	630	638	651	659	664	664	662	674	718	709	697	667	680	667
15	639	643	649	649	645	629	624	623	626	631	626	626	613	639	655	676	668	667	693	690	694	659	662	665
16	666	665	655	660	661	651	635	620	623	618	625	634	635	630	645	635	650	653	675	692	683	675	671	664
17 **	661	660	660	660	661	657	649	640	628	623	625	633	643	649	659	669	668	703	711	701	719	717	698	649
18 **	589	614	618	603	621	608	613	598	596	602	615	627	628	632	648	644	652	659	655	662	661	662	662	678
19 **	681	676	668	654	623	656	634	639	623	620	619	625	617	627	623	636	678	645	661	664	656	663	663	659
20 *	655	657	655	651	655	652	645	640	635	636	637	638	641	652	655	665	669	674	675	671	669	675	669	659
21	663	665	669	659	666	667	653	661	665	653	637	626	623	640	653	649	672	669	667	668	669	668	670	672
22 *	671	665	667	670	670	672	667	659	645	623	616	626	635	639	640	649	668	675	675	678	678	680	669	669
23 *	669	676	675	674	679	674	663	644	628	623	620	619	626	632	645	663	673	683	684	685	679	673	669	668
24 *	663	663	668	664	666	662	655	649	647	640	637	627	623	639	649	663	674	680	688	679	679	684	684	672
25 **	673	669	669	675	690	686	653	664	655	641	614	619	629	654	701	679	643	659	685	674	658	669	659	669
26	663	683	682	669	669	664	656	659	654	651	635	631	627	634	646	659	665	676	675	674	681	669	667	663
27	657	661	656	662	667	663	649	641	653	655	656	646	639	643	647	664	689	684	697	701	693	691	686	675
28	683	672	666	666	669	673	676	671	664	668	662	652	651	639	654	666	673	684	691	689	690	681	684	687
29	677	681	675	658	665	667	664	661	656	654	649	649	634	633	644	663	663	679	695	683	663	669	669	664
30	672	662	657	659	661	654	664	672	663	659	655	647	649	651	655	666	667	675	679	679	673	663	663	662
Mean	665	664	665	662	664	661	653	648	643	639	635	636	637	642	653	664	667	673	680	680	677	674	672	667
Mean *	665	665	666	665	668	666	659	651	642	634	632	633	635	641	650	662	674	678	682	678	676	677	672	668
Mean **	658	661	660	655	657	659	640	637	635	630	621	622	624	631	652	657	663	667	676	674	672	676	671	665

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
July	18000 γ + Tabular Quantities (in γ)																								
1	661	675	656	653	655	654	655	651	649	652	655	653	649	655	653	660	655	663	695	659	663	662	688	696
2 **	629	603	644	607	609	593	629	625	629	594	593	629	623	639	643	631	639	663	674	676	669	666	663	652
3 **	657	659	653	646	643	629	634	639	626	613	610	604	635	638	634	667	668	681	657	674	667	668	661	664
4	647	650	638	650	642	625	647	640	633	619	625	625	629	631	641	651	657	660	669	669	671	663	657	681
5	656	652	649	649	645	649	645	642	643	633	625	629	620	635	649	655	664	664	664	662	671	669	669	669
6	661	657	659	659	658	658	652	643	636	634	627	628	643	653	659	665	695	679	681	679	673	663	658	660
7	661	656	659	661	660	659	655	650	644	638	633	628	631	639	649	672	685	674	680	681	683	674	670	657
8	663	658	659	659	659	655	649	643	633	631	637	646	650	654	657	667	672	693	695	684	683	673	662	674
9	665	669	663	678	673	667	661	652	643	633	630	639	636	648	661	665	667	695	707	673	673	665	665	660
10 *	664	663	654	659	661	660	651	642	641	638	637	639	635	639	644	652	659	678	685	689	677	666	662	659
11	661	663	663	665	669	669	661	649	641	630	624	633	632	649	653	648	660	675	695	690	681	672	671	673
12 *	663	658	660	664	670	663	656	649	636	629	632	643	645	646	642	654	677	681	673	675	678	679	673	673
13 *	678	672	649	657	662	670	665	659	645	635	629	635	639	649	659	669	674	672	677	670	674	669	670	666
14 *	669	665	664	667	665	663	664	663	663	655	648	636	645	653	656	652	661	673	675	679	679	676	679	681
15	670	660	665	663	668	662	653	645	636	630	638	639	646	657	665	679	683	681	693	683	693	678	656	653
16	662	666	670	670	671	663	653	647	647	633	611	595	630	635	663	659	675	693	688	683	686	689	683	679
17	677	679	676	679	685	679	679	665	638	620	645	659	657	663	649	650	670	674	698	675	674	673	672	670
18	671	666	664	666	675	664	669	656	635	633	637	632	639	643	652	657	670	667	671	667	674	675	669	661
19	659	663	664	668	665	660	653	634	631	614	628	635	638	644	656	662	679	672	685	683	688	674	671	671
20	673	673	674	674	665	668	655	644	642	632	625	622	631	646	661	667	665	673	678	677	679	677	675	676
21	669	667	663	669	675	672	661	648	636	639	637	644	651	646	654	669	681	677	682	675	674	674	674	674
22	679	676	673	674	681	682	656	636	599	630	643	638	635	630	632	629	664	657	679	693	684	682	693	676
23	679	679	667	666	673	659	652	644	616	614	615	633	645	640	652	664	667	672	675	668	666	668	669	663
24 *	668	662	660	666	667	661	656	653	640	635	630	637	634	649	656	672	673	678	678	672	675	677	675	670
25	668	670	668	671	678	676	672	661	656	650	638	631	642	650	665	663	677	681	671	668	672	684	673	672
26 **	670	674	668	671	675	654	630	647	644	645	642	628	630	623	637	666	679	671	671	672	671	665	668	688
27	691	654	654	659	662	659	656	646	628	603	629	647	655	664	666	665	665	664	662	673	677	682	685	694
28 **	682	689	687	692	706	688	658	654	644	632	614	627	620	636	647	665	672	682	678	662	678	663	664	668
29	664	654	659	661	641	645	650	642	630	634	646	645	637	648	652	664	659	673	674	672	663	661	660	664
30	667	657	654	662	658	658	654	648	644	641	627	634	641	658	652	665	660	663	654	679	668	663	657	671
31 **	664	681	684	672	678	656	623	617	621	620	624	634	632	657	642	682	682	651	632	624	619	636	642	680
Mean	666	664	662	663	664	659	653	646	637	630	630	634	638	646	652	661	669	674	677	674	674	671	669	671
Mean *	668	664	657	663	665	663	658	653	645	638	635	638	640	647	651	660	669	676	678	677	677	673	672	670
Mean **	660	661	667	658	662	644	635	636	633	621	617	624	628	639	641	662	668	670	662	662	661	660	660	670
August	18000 γ + Tabular Quantities (in γ)																								
1 **	643	647	657	647	642	642	635	627	621	620	627	637	647	657	665	674	677	692	656	691	695	673	713	659
2	636	638	650	685	670	652	631	616	613	616	621	626	632	639	640	641	650	650	676	663	665	663	672	657
3 *	656	657	650	655	658	657	652	641	624	621	614	623	640	642	648	657	659	671	671	672	670	671	667	669
4	668	662	666	674	662	656	653	644	638	636	639	647	649	650	665	653	654	666	686	662	670	664	676	652
5	659	675	676	666	660	653	648	642	633	633	634	640	646	648	651	653	658	683	671	674	681	671	664	662
6	669	668	666	666	668	666	659	644	636	634	638	644	651	664	664	669	663	666	676	679	673	676	658	661
7	663	664	665	671	676	665	656	652	648	635	632	629	640	640	640	656	669	682	675	672	675	679	671	660
8 *	660	669	665	663	661	662	653	646	638	630	632	637	646	646	647	661	672	677	682	677	674	670	657	663
9	669	662	658	661	668	662	648	641	629	625	617	603	622	625	640	658	661	670	670	679	674	663	670	665
10 *	663	657	660	662	666	670	656	652	649	640	636	631	643	631	650	658	668	677	677	684	677	677	681	666
11	663	671	673	671	679	680	671	665	661	660	642	640	649	631	633	655	664	672	676	672	680	682	673	672
12	676	671	666	666	671	664	657	642	626	615	614	617	616	642	642	652	651	665	664	679	686	690	661	662
13 **	662	660	661	672	683	676	646	663	656	639	628	626	611	620	611	615	626	637	673	654	649	653	652	651
14	651	650	649	650	648	648	647	643	638	633	628	619	642	652	656	649	651	654	656	658	671	666	653	652
15	655	661	660	654	656	656	646	628	631	640	642	650	650	653	649	654	670	660	665	676	704	687	676	668
16	670	671	668	674	676	664	676	666	621	596	595	629	662	650	640	639	639	647	655	653	655	653	664	666
17	661	660	661	656	656	651	645	636	637	635	640	652	661	672	663	681	657	632	648	649	643	646	656	655
18 *	653	647	650	651	653	648	636	634	634	631	631	634	640	646	658	667	670	671	671	673	674	672	670	670
19	666	663	663	661	667	668	662	648	627	619	636	640	646	643	639	662	661	662	657	666	678	679	678	677
20 **	680	698	686	683	646	650	643	666	649	632	617	608	615	611	632	647	658	662	660	663	659	694	663	655
21 **	658	670	658	663	659	658	643	622	607	607	586	610	636	619	627	638	671	689	648	644	635	656	641	666
22	639	671	659	664	660	653	643	621	601	585	591	596	598	616	619	631	641	650	653	649	664	660	658	661
23	646	649	647	651	656	659	651	642	636	630	638	628	631	638	636	650	665	645	670	660	658	665	676	663
24	646	650	651	656	648	649	632	641	639	613	593	618	626	638	631	642	649	658	647	669	662	667	676	657
25 **	664	666	666	667	670	669	652	653	598	610	623	611	616	626	627	638	648	634	658	676	676	661	662	663
26	665	680	648	641	632	626	641	630	592	610	607	619	630	641	638	630	643	662	672	700	677	668	711	675
27	651	650	651	650	658	650	637	641	630	635	633	630	643	639	654	631	646	660	672	663	667	684	652	654
28	655	651	658	658	647	655	651	646	625	630	652	656	663	666	651	646	651	660	661	667	685	688	662	664
29	668	657	655	646	651	648	640	640	633	624	628	641	638	651	647	654	655	658	661	663	665	672	672	674
30 *	661	657	656	658	658	658	653	646	639	636	641	650	652	653	660	666	660	662	658	667	670	660	665	656
31	664	658	665	666	663	658	651	632	633	639	645	656	662	666	666	651	653	661	663	668	667	661	669	678
Mean	659	662	660	662	660	657	649	642	630	626	626	631	639	642	645	651	657	662	665	668	670	670	668	663
Mean *	659	657	656	658	659	659	650	644	637	632	631	635	644	644	653	662	666	672	672	675	673	670	668	665
Mean **	661	668	666	666	660	659	644	646	626	622	616	618	625	627	632	642	656	663	659	666	663	667	666	659

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September	18000 γ + Tabular Quantities (in γ)																								
1 *	650	653	658	658	656	648	637	624	617	618	631	642	656	666	667	668	664	660	661	666	668	676	674	661
2 *	658	656	655	658	656	651	642	632	622	615	619	630	650	662	667	667	663	670	669	668	672	676	671	671
3 *	670	672	660	661	659	655	647	636	633	631	633	630	651	662	662	660	662	668	666	671	676	672	674	679
4 *	662	666	668	668	668	669	656	645	631	622	626	640	657	672	672	669	674	663	672	673	670	672	670	666
5	662	665	672	669	666	665	655	640	625	622	632	636	654	664	668	672	673	677	670	665	681	686	666	666
6	682	666	667	672	672	669	666	650	630	635	629	650	662	662	661	663	664	668	683	673	651	666	666	652
7	651	666	655	658	663	661	656	646	632	639	639	642	647	661	656	661	664	667	663	653	664	666	670	668
8	666	664	666	668	666	670	664	656	633	620	622	632	647	665	661	678	666	666	663	670	670	670	671	672
9	665	665	660	670	662	664	653	648	639	620	615	629	651	641	638	633	651	660	652	651	666	667	664	666
10	653	650	653	670	681	670	666	625	619	622	608	622	620	626	634	624	633	626	636	650	662	661	656	658
11	656	671	658	650	661	656	654	650	634	650	650	645	628	632	647	632	633	646	645	629	617	659	655	627
12	628	626	627	635	639	647	633	622	610	605	605	610	631	631	622	607	633	645	656	651	663	655	646	645
13	631	657	645	649	647	664	656	635	635	635	636	634	634	642	635	604	621	626	627	638	646	635	622	630
14	651	670	641	665	666	657	641	620	606	608	616	620	643	636	656	652	645	650	646	643	641	649	662	659
15	670	680	657	655	656	640	656	635	601	618	620	610	606	620	632	634	624	640	650	648	652	643	646	655
16 **	656	668	669	690	651	631	640	642	626	526	523	556	593	592	609	598	622	613	626	638	655	656	638	665
17	657	644	624	628	634	626	626	606	596	588	586	596	616	633	633	653	623	636	649	656	658	667	689	635
18	637	654	677	673	663	657	664	656	649	628	626	637	653	655	648	645	655	647	664	636	635	646	653	653
19	656	654	654	657	656	656	656	652	640	645	636	630	641	650	674	684	687	626	607	601	605	607	609	612
20 **	619	610	611	639	626	616	630	587	551	516	551	580	602	569	610	599	641	638	636	645	615	644	642	635
21 **	627	618	627	611	615	629	620	617	566	516	544	561	591	592	614	632	622	636	622	673	670	683	678	665
22 **	621	645	656	639	618	630	623	612	597	598	611	569	569	589	625	639	641	627	681	629	631	631	639	645
23	648	631	639	659	657	634	624	631	608	609	610	606	615	617	609	634	640	644	650	649	670	683	646	669
24	674	637	634	647	637	640	622	634	625	630	602	618	617	626	640	632	630	628	638	643	675	655	644	643
25 **	656	652	654	654	651	648	668	655	644	633	605	577	586	597	639	644	663	619	607	565	502	557	519	523
26	505	519	509	644	588	578	585	595	593	594	595	612	619	622	625	625	631	624	632	639	639	631	630	625
27	666	641	645	642	645	654	667	665	641	623	645	599	620	629	626	642	656	642	652	643	649	642	649	650
28	640	643	647	642	640	643	644	640	636	632	630	627	630	632	636	636	642	650	652	653	656	655	647	646
29	650	651	650	647	652	655	655	650	650	649	644	640	646	650	645	620	640	633	632	630	664	650	648	641
30 *	642	652	640	650	643	642	643	632	632	626	624	624	626	628	638	640	644	649	655	656	658	663	665	665
Mean	647	648	646	654	650	647	645	635	621	612	614	617	629	634	642	642	647	645	649	647	649	654	650	648
Mean *	656	660	656	659	656	653	645	634	627	622	627	633	648	658	661	661	661	662	665	667	669	672	671	668
Mean **	636	639	643	647	632	631	636	623	597	558	567	569	588	588	619	622	638	627	634	630	615	634	623	627
October	18000 γ + Tabular Quantities (in γ)																								
1	666	659	654	656	657	658	659	656	648	640	636	639	647	654	657	658	666	656	658	653	657	660	658	655
2	654	657	666	651	653	658	643	646	638	634	637	641	646	653	656	654	655	656	656	657	659	666	651	655
3	656	658	656	654	656	656	655	646	636	628	626	635	635	650	654	655	654	655	657	659	665	659	657	657
4 *	657	657	656	657	659	661	658	650	637	626	627	636	648	657	664	664	662	664	666	667	664	664	661	661
5	658	663	658	659	661	664	659	655	648	643	638	644	653	662	666	666	660	664	663	662	656	656	660	660
6 *	664	666	656	660	661	662	660	653	646	636	633	638	650	660	664	663	666	670	674	673	672	672	672	670
7	670	669	673	680	685	686	687	680	670	646	642	635	643	635	644	635	620	635	622	590	612	619	617	604
8 **	635	647	667	667	644	632	643	611	577	601	604	636	616	603	612	616	616	622	632	647	648	646	666	685
9	651	634	643	641	635	644	636	637	632	603	620	626	616	593	601	617	637	637	644	647	647	685	656	639
10	640	646	641	653	649	657	656	646	638	638	620	584	603	616	630	627	619	640	634	636	637	646	635	659
11	652	650	645	640	645	653	638	632	636	629	636	618	607	626	623	616	630	625	642	647	655	653	650	649
12	648	652	653	656	663	667	664	663	655	648	642	626	637	649	639	635	644	653	652	658	665	660	660	656
13	654	654	650	663	673	676	671	666	665	647	632	624	616	620	632	634	642	650	656	646	642	643	644	660
14	630	636	640	640	642	649	652	652	638	619	629	633	638	640	643	641	626	630	634	666	640	635	642	650
15	653	650	650	651	650	657	655	644	637	630	624	622	627	639	647	649	654	657	654	662	670	664	666	685
16	668	658	656	652	673	664	661	654	641	631	625	633	643	640	647	643	637	637	639	635	630	630	651	662
17 **	635	661	678	666	630	643	643	628	600	601	601	562	587	606	622	593	625	617	644	671	666	650	618	635
18 **	651	635	632	627	626	644	637	638	602	592	610	620	619	606	619	636	627	680	636	644	666	675	668	646
19 **	639	657	662	663	640	662	639	626	628	625	626	623	600	618	630	632	626	637	645	612	616	638	645	646
20	624	629	636	636	629	638	646	642	628	630	618	616	622	620	642	641	643	649	651	636	673	650	650	650
21	640	649	652	648	662	663	666	663	659	639	623	627	628	631	630	630	635	642	651	669	656	656	652	656
22	656	665	661	666	669	668	664	659	657	645	630	620	619	616	626	620	611	636	660	646	656	647	664	646
23	663	654	649	646	646	651	653	648	646	637	633	631	631	631	636	644	651	654	651	654	658	652	650	644
24 *	646	646	649	648	650	652	661	658	658	656	650	649	651	651	656	659	664	669	669	671	666	664	661	654
25 *	657	653	656	659	661	666	666	666	664	662	654	651	650	651	655	661	666	674	674	674	676	676	675	671
26	670	666	662	666	671	671	670	669	670	666	657	653	643	654	656	660	666	672	670	670	661	651	641	636
27	655	663	654	650	662	670	664	660	654	647	646	642	650	645	645	648	655	656	658	659	660	662	662	663
28 **	662	661	661	662	661	653	660	666	666	655	642	639	652	661	669	654	641	619	540	418	491	536	566	580
29	566	573	581	591	600	607	609	610	607	601	598	600	602	608	613	617	619	622	625	625	626	628	628	629
30	627	627	628	631	631	636	627	635	628	612	601	610	620	621	625	630	636	641	646	644	644	645	644	644
31 *	642	640	641	644	648	653	655	652	644	638	629	627	632	636	640	646	650	655	656	656	656	656	652	652
Mean	648	650	651	651	651	656	653	649	640	632	629	627	630	634	640	640	642	648	647	644	648	650	649	650
Mean *	653	652	652	654	656	659	660	656	650	644	639	640	646	651	656	659	662	666	668	668	667	666	664	662
Mean **	644	652	660	657	640	647	644	634	615	615	617	616	615	619	630	626	627	635	619	598	617	629	633	638

* International Quiet Day. ** International Disturbed Day.

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

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 *	652	652	654	654	655	658	659	658	648	634	629	626	630	636	642	650	656	661	659	658	655	646	642	657
2	651	656	656	666	680	674	672	677	667	651	641	628	636	631	624	632	635	636	636	632	642	650	643	632
3 **	641	642	642	684	670	665	660	664	651	640	651	651	642	610	617	632	643	636	649	642	652	666	616	608
4	604	611	652	650	648	650	644	651	648	644	646	643	640	632	626	611	631	638	648	646	646	636	662	640
5	641	640	647	639	647	658	665	651	649	648	645	622	637	644	645	646	650	650	640	637	647	650	657	680
6	647	645	651	653	654	664	656	651	632	616	619	622	627	629	627	623	620	614	610	665	636	642	655	655
7	651	631	670	644	649	646	647	649	650	635	625	627	617	630	633	626	616	626	641	648	646	655	653	656
8	652	655	657	648	652	659	661	663	660	658	655	656	655	657	657	657	660	662	661	658	654	655	656	655
9	653	650	651	652	655	668	674	663	663	672	672	651	657	664	654	649	661	635	657	665	663	664	659	665
10 *	655	653	654	655	659	661	662	669	669	670	668	664	659	655	652	659	661	664	665	662	664	663	663	661
11	659	660	661	661	661	660	660	659	652	648	645	647	650	648	643	651	655	659	660	661	654	645	654	653
12	680	665	651	655	661	664	660	657	631	634	639	624	615	615	610	592	613	645	655	657	659	656	645	655
13 **	657	650	657	663	665	659	665	660	657	605	623	645	639	615	613	598	595	575	579	580	605	589	595	649
14 **	620	633	632	635	651	633	651	634	621	631	627	629	619	605	620	631	636	669	647	617	619	622	622	634
15 **	659	635	628	624	640	651	654	645	646	639	610	614	624	624	618	644	629	650	646	638	648	658	650	659
16	664	649	646	645	656	664	659	660	659	652	640	632	629	634	634	638	645	660	659	651	654	650	654	650
17	648	650	652	654	661	666	675	670	664	664	658	656	660	664	664	665	670	660	653	636	650	609	618	630
18 *	634	630	638	645	649	650	654	652	650	644	639	638	642	648	648	650	652	656	656	652	647	649	650	652
19 *	654	655	657	660	663	663	665	670	663	660	655	656	654	656	655	660	653	659	662	664	668	664	660	667
20	646	650	659	665	667	665	665	667	667	664	658	660	664	665	664	655	650	654	660	656	659	646	665	653
21	649	646	645	650	660	667	665	667	666	665	665	665	662	664	665	669	669	671	672	662	656	659	655	648
22	649	655	659	659	664	662	664	665	671	671	673	665	665	662	664	664	668	670	639	651	657	665	663	646
23	648	651	647	654	655	655	656	659	660	661	653	654	659	660	651	638	647	657	661	654	642	635	645	652
24	654	652	646	649	653	659	661	661	657	652	651	653	656	656	649	624	635	649	651	655	667	661	657	659
25	652	649	649	650	652	656	655	659	656	655	646	649	653	654	648	625	651	659	651	655	651	691	662	656
26	656	651	650	651	656	658	660	659	660	660	658	660	647	627	635	652	659	660	651	645	647	649	660	659
27 *	659	655	654	653	658	665	666	667	665	658	651	655	658	661	661	659	662	667	668	667	664	655	668	660
28	655	655	658	660	660	663	666	667	665	667	672	673	666	658	635	652	640	648	639	645	639	652	690	654
29 **	655	661	660	653	660	659	655	661	667	641	655	655	625	629	621	637	632	653	659	654	648	646	657	657
30	662	648	653	655	661	665	664	657	660	660	652	651	653	641	624	645	641	631	639	645	643	649	652	654
Mean	650	648	651	653	657	660	661	660	656	650	647	646	645	642	640	641	645	649	649	649	649	649	651	652
Mean *	651	649	651	653	657	659	661	663	659	653	648	648	649	651	652	656	657	661	662	661	660	655	657	659
Mean **	646	644	644	652	657	653	657	653	648	631	633	639	630	617	618	628	627	637	636	626	634	636	628	641
December								18000 γ + Tabular Quantities (in γ)																	
1	659	659	660	659	665	668	666	668	669	659	643	634	639	649	649	643	635	648	645	647	644	652	661	654
2	659	655	660	662	669	649	669	670	670	659	649	642	638	635	637	631	630	622	621	628	635	630	630	640
3	645	670	669	660	660	665	672	674	669	652	651	649	645	649	645	645	640	644	645	647	636	637	649	655
4	649	653	656	662	667	667	679	676	675	668	661	649	659	648	620	635	651	645	656	642	637	679	652	647
5	649	641	665	655	661	660	662	662	659	655	647	644	645	644	657	660	660	657	660	666	667	665	675	657
6 *	658	656	660	660	662	665	665	665	663	663	661	662	663	667	669	669	671	673	675	665	651	659	660	661
7	659	659	665	665	667	674	677	678	675	671	658	650	659	671	673	667	654	640	642	651	659	664	664	660
8 **	654	681	661	654	668	671	675	662	658	661	644	604	640	644	645	591	627	635	628	601	648	631	638	669
9 **	640	641	654	665	642	656	661	659	649	605	599	614	636	608	608	598	618	629	682	630	625	637	655	649
10	646	645	648	647	660	653	670	669	636	645	627	611	615	632	636	628	619	644	652	653	651	650	685	669
11	667	650	650	654	660	654	659	635	636	650	644	645	643	629	628	607	632	644	636	645	641	648	645	673
12	651	653	655	656	662	662	670	670	658	648	638	643	643	640	653	657	660	664	661	663	660	663	651	657
13 *	655	656	661	664	663	677	676	669	664	652	649	650	654	649	655	658	659	663	665	662	662	662	658	655
14	659	660	659	656	658	668	672	675	671	662	655	659	665	671	675	675	677	675	677	673	652	644	669	649
15	632	625	641	642	645	652	655	660	649	656	655	650	646	655	658	655	661	659	654	599	641	645	655	652
16	658	654	649	651	665	676	671	659	659	653	652	651	659	665	664	665	662	665	668	665	661	665	670	659
17	659	657	659	669	670	675	675	677	677	672	669	666	659	655	658	641	636	635	628	634	652	646	650	655
18	649	646	649	648	662	655	659	663	664	655	650	651	659	655	660	661	663	652	651	653	659	638	645	649
19	652	652	654	654	660	660	663	659	655	649	635	658	660	642	645	661	659	656	679	667	657	659	679	675
20	648	644	643	656	660	654	659	663	654	630	644	649	652	651	655	656	661	662	660	659	659	658	658	667
21	657	650	651	660	661	668	670	671	668	659	658	654	658	664	668	671	670	677	673	669	669	667	674	666
22 **	649	651	652	639	660	666	658	664	662	660	651	628	626	647	639	622	618	608	626	600	627	636	616	622
23	634	628	636	635	642	644	658	654	651	651	630	629	639	644	645	648	644	652	648	654	658	658	658	656
24 *	653	649	648	654	657	662	664	667	668	665	654	651	654	658	659	662	664	664	664	660	658	661	660	654
25 *	655	652	654	655	658	659	664	665	662	653	650	654	658	662	659	659	660	659	664	668	667	664	665	664
26 *	662	664	666	665	666	668	669	672	669	661	658	659	660	660	664	664	666	666	668	668	670	670	670	668
27	668	668	671	670	668	685	684	684	684	683	680	675	674	667	670	668	671	674	675	678	683	687	679	690
28 **	684	676	667	681	652	689	636	600	595	574	584	586	570	558	580	594	578	594	593	618	636	621	625	640
29	644	634	629	633	639	646	648	647	644	639	634	638	641	638	615	640	648	647	648	653	648	645	645	648
30	647	648	650	650	656	662	663	663	663	659	650	649	643	645	657	656	664	663	660	665	665	665	641	637
31 **	651	651	656	658	658	662	654	668	662	648	627	648	648	636	618	624	604	614	624	626	664	680	641	638
Mean	653	653	655	656	659	664	665	663	659	652	645	644	647	646	647	646	647	649	653	649	653	654	656	656
Mean *	657	655	658	660	661	666	668	668	665	659	654	655	658	659	661	662	664	665	667	665	662	663	663	660
Mean **	656	660	658	659	656	669	657	651	645	630	621	616	624	619	618	606	609	616	631	615	640	641	635	644

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
January	43000 γ + Tabular Quantities (in γ)																								
1	299	303	303	299	298	298	294	292	289	291	293	291	291	295	297	298	298	301	304	303	303	305	307	305
2 **	302	302	299	296	296	296	288	289	289	295	296	294	293	291	295	297	302	304	306	309	304	301	302	302
3	299	299	297	295	289	279	285	289	292	296	297	294	295	296	296	296	299	299	299	300	299	299	299	297
4 *	295	297	297	292	292	294	295	297	297	297	295	289	286	292	295	295	296	296	296	296	301	299	297	297
5	297	295	294	292	291	292	289	291	292	295	294	290	293	294	294	289	295	294	295	298	302	299	292	294
6 *	293	290	289	289	292	295	296	297	297	297	300	295	291	295	298	295	295	298	298	296	298	298	296	297
7 *	296	294	295	294	292	292	291	292	295	297	299	295	290	292	296	295	297	297	298	297	297	296	296	296
8	292	293	296	296	294	296	292	293	292	292	287	284	286	290	294	295	300	298	297	296	296	293	293	290
9 *	292	290	290	291	292	292	290	290	289	289	292	290	286	287	287	290	293	293	294	294	293	293	293	293
10	294	293	293	293	293	294	293	292	290	291	290	284	285	289	290	290	292	301	317	316	313	314	314	310
11	307	303	300	300	300	302	300	296	296	295	294	291	289	292	297	297	298	296	300	305	313	313	308	304
12	300	299	294	296	299	300	295	294	293	292	294	295	296	299	302	304	309	305	305	305	303	299	298	298
13	298	295	289	285	285	292	296	296	298	296	296	291	290	289	292	296	296	296	297	304	308	306	304	302
14	300	294	294	296	296	297	297	296	297	296	295	290	290	296	298	298	303	305	310	311	311	309	303	305
15	303	297	297	291	293	296	295	296	294	292	293	290	288	290	298	297	303	300	302	310	310	310	310	303
16	297	296	297	297	298	300	297	297	297	297	297	299	298	300	303	303	310	310	310	312	308	303	294	295
17	296	292	287	289	292	292	290	293	293	293	298	302	302	302	303	300	300	297	297	300	298	300	300	298
18 *	297	294	293	293	293	295	295	294	293	293	291	293	294	295	296	298	301	298	297	297	297	299	298	293
19	292	293	283	287	290	292	293	293	292	288	289	288	289	290	290	294	294	293	292	293	296	305	310	305
20	298	289	290	292	294	296	295	296	295	294	294	294	294	294	296	297	295	295	295	295	296	295	295	296
21 **	297	294	293	293	291	290	289	287	289	286	287	287	292	293	300	313	329	328	329	320	318	310	307	300
22 **	298	287	275	283	287	292	288	286	287	288	292	296	301	317	327	333	328	316	310	310	310	306	299	293
23 **	287	275	280	288	293	297	297	300	299	295	296	299	296	303	307	313	317	310	312	303	303	300	292	293
24	293	293	295	295	295	295	293	295	293	292	293	294	294	300	303	305	306	303	303	303	302	298	297	296
25	293	295	296	296	296	297	296	296	294	293	293	294	294	298	304	304	304	302	300	300	299	300	297	297
26	296	294	295	294	293	293	293	292	287	285	287	290	288	290	291	295	300	300	314	330	340	327	315	310
27	303	298	298	296	292	292	290	294	293	294	295	290	287	290	299	300	300	301	305	305	305	306	307	304
28	301	295	292	290	291	295	295	293	292	291	292	290	287	290	298	298	300	301	310	312	310	305	304	300
29	299	298	297	297	296	296	295	296	296	294	296	294	294	297	299	298	300	302	304	306	306	308	304	297
30	296	295	296	296	295	294	294	293	290	292	294	292	290	289	290	294	298	303	312	310	313	320	320	315
31 **	306	302	300	290	268	260	255	262	262	273	277	285	294	303	310	316	320	330	334	339	335	322	311	314
Mean	297	295	293	293	292	293	292	292	292	292	293	292	292	295	298	300	303	302	305	306	306	304	302	300
Mean *	295	293	293	292	292	294	293	294	294	295	295	292	289	292	294	295	296	296	297	296	297	297	296	295
Mean **	298	292	289	290	287	287	283	285	285	287	290	292	295	301	308	314	319	318	318	316	314	308	302	300
February	43000 γ + Tabular Quantities (in γ)																								
1	310	303	293	283	290	296	295	298	298	300	299	300	297	302	306	305	305	305	307	308	313	315	313	312
2 *	308	305	304	303	302	301	298	299	300	300	302	301	300	300	302	299	300	302	303	303	304	303	302	300
3 *	298	300	299	298	298	298	296	298	298	298	299	295	292	297	298	297	296	298	298	299	300	299	299	299
4	301	298	297	297	296	296	296	296	297	293	297	297	299	300	306	309	314	314	315	309	306	304	303	300
5	300	300	300	299	297	298	295	295	294	295	296	290	287	295	299	296	295	299	301	314	320	320	316	311
6	296	281	271	283	278	280	292	296	294	300	305	307	307	310	313	310	310	310	310	306	304	300	300	300
7	298	301	303	303	300	301	301	302	300	299	293	292	294	300	304	303	302	300	301	305	302	298	297	293
8	293	295	295	296	299	300	298	299	298	299	298	296	295	298	306	310	320	338	340	323	322	313	306	307
9	303	305	299	297	298	300	295	297	295	296	294	289	290	296	309	328	324	315	316	326	324	302	291	298
10	293	295	290	289	295	294	291	294	295	296	294	293	291	294	300	304	305	306	308	310	310	304	304	290
11	296	296	283	281	289	291	293	294	294	294	299	298	298	294	297	300	310	320	318	316	320	310	306	294
12	280	273	283	285	288	290	290	292	290	290	293	293	297	304	309	312	313	313	323	313	306	303	302	297
13	294	297	293	292	300	300	302	302	300	298	300	300	303	302	305	307	310	313	315	312	308	307	307	297
14	298	296	293	297	300	302	302	302	300	297	298	297	297	294	298	300	300	303	306	302	302	298	298	298
15 *	298	299	298	297	297	298	298	297	293	295	297	297	300	300	302	302	303	306	308	307	307	306	306	300
16 *	300	298	298	297	297	300	299	298	298	299	299	298	296	296	299	299	298	297	299	300	302	301	301	300
17	298	296	296	296	297	298	298	298	297	292	291	290	292	293	296	298	300	300	302	306	310	312	310	308
18	305	300	300	298	297	296	293	289	287	282	283	280	285	290	298	301	305	308	312	312	310	306	302	300
19	298	298	297	297	295	292	290	290	290	287	286	287	290	288	291	295	296	298	299	302	303	300	300	298
20 *	293	295	297	296	296	297	296	297	297	296	293	292	290	290	297	297	298	297	297	297	297	296	297	295
21	297	293	293	292	292	293	293	295	293	290	290	289	288	290	293	296	297	298	303	307	308	307	300	296
22 **	293	280	280	287	290	285	277	275	278	275	278	283	290	306	310	317	333	327	319	317	307	282	282	289
23 **	285	278	276	276	283	283	280	276	277	280	284	285	300	310	323	346	332	342	330	313	305	305	300	277
24 **	280	280	290	292	294	298	298	299	302	296	293	292	300	308	317	328	326	336	320	313	307	306	303	297
25	292	297	300	302	300	298	300	301	300	296	295	295	295	295	300	303	310	308	312	312	312	308	290	290
26	296	300	302	303	300	299	293	295	292	287	286	283	283	288	297	304	313	320	320	315	308	300	300	297
27 **	295	251	237	251	264	278	278	278	291	291	288	291	293	296	308	312	311	311	311	308	306	303	301	298
28 **	301	301	297	287	281	264	261	267	263	271	279	283	288	289	297	295	301	303	306	308	314	311	311	301
Mean	296	293	292	292	293	294	293	294	293	293	293	293	294	297	303	306	308	310	311	309	308	304	302	298
Mean *	299	299	299	298	298	299	297	298	297	298	298	297	296	297	300	299	299	300	301	301	302	301	301	299
Mean **	291	278	276	279	282	282	279	279	282	283	284	287	294	302	311	320	321	324	317	312	308	301	299	292

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
March	43000 γ + Tabular Quantities (in γ)																								
1	299	297	288	289	295	295	295	299	298	296	292	291	298	301	298	299	303	303	305	306	306	305	306	304
2 *	303	299	301	299	301	303	301	303	303	299	296	292	294	297	305	305	305	307	307	306	305	303	302	301
3	295	296	296	296	297	299	297	296	297	295	291	286	289	290	298	303	304	303	301	302	301	301	300	297
4 *	298	297	296	296	295	295	292	293	295	292	292	289	288	291	294	298	299	299	301	301	301	301	296	291
5 *	294	297	297	297	296	297	292	291	288	287	284	283	283	288	294	297	301	300	303	303	301	299	297	296
6	295	295	294	292	290	291	289	287	284	284	283	281	285	289	297	299	304	303	302	304	301	299	296	295
7 **	288	285	281	281	281	288	289	287	281	279	277	274	278	294	300	317	328	328	337	334	325	300	302	294
8	294	296	291	293	297	298	297	292	290	284	290	292	295	298	314	327	325	324	322	311	312	295	293	286
9	287	288	293	284	290	293	287	288	283	283	284	285	291	293	300	310	317	312	312	308	305	297	295	283
10 **	277	277	288	290	273	279	274	280	282	283	283	281	288	296	305	309	317	317	317	307	303	302	289	286
11	290	287	283	286	290	288	286	286	290	284	280	280	288	295	305	313	330	322	322	310	305	303	300	297
12	296	293	285	285	287	285	276	280	282	282	292	290	292	294	310	313	320	316	315	313	304	304	304	303
13 **	300	293	293	297	297	293	292	295	293	290	290	297	300	303	310	330	346	356	356	327	317	284	288	273
14 **	266	286	296	300	297	286	284	296	300	300	296	300	300	311	317	330	347	346	346	336	296	312	316	312
15	307	288	297	301	302	300	300	304	303	303	303	300	299	297	301	303	307	309	308	307	307	303	303	302
16	300	300	300	300	297	296	299	300	298	295	290	286	287	290	295	300	303	304	307	308	310	306	302	295
17	295	296	298	298	298	300	300	300	300	295	296	296	295	296	304	311	317	323	314	309	306	305	303	301
18	301	300	299	297	295	296	299	300	301	294	291	286	286	287	292	300	305	302	300	303	305	306	303	297
19	290	289	289	292	293	296	296	298	297	296	292	288	290	290	296	301	303	303	302	301	300	299	299	298
20	298	297	297	297	297	296	298	300	300	295	290	280	281	287	299	306	311	310	308	306	304	302	300	300
21 *	299	300	300	298	298	298	298	301	295	290	283	279	277	282	292	300	303	302	301	302	300	298	296	287
22 **	290	290	290	287	286	286	286	290	290	287	280	283	285	294	299	303	321	366	354	337	320	304	299	294
23	283	293	297	293	287	285	289	290	288	289	287	286	297	296	304	310	324	323	325	319	304	294	290	296
24	289	286	288	290	296	297	297	299	299	297	296	293	287	297	306	316	328	327	327	320	313	312	310	302
25	299	294	292	284	282	291	294	295	294	286	285	290	290	290	296	303	310	310	308	307	305	303	300	295
26	285	288	290	290	286	287	293	300	300	296	291	286	285	292	303	307	313	313	315	317	308	307	302	294
27	293	290	287	287	286	290	293	297	293	288	286	280	283	284	295	303	307	312	314	312	309	306	304	301
28 *	300	300	295	296	299	300	302	307	306	302	300	298	295	292	300	305	307	306	305	304	303	300	300	300
29	300	297	297	297	296	287	284	286	287	283	280	280	276	280	296	312	327	340	350	342	338	330	323	315
30	310	302	292	297	300	300	302	300	294	286	280	276	281	284	286	294	300	300	302	303	303	303	300	297
31	297	296	297	297	298	298	300	301	300	298	294	284	279	280	288	298	305	314	319	313	309	305	304	300
Mean	294	293	293	293	293	293	293	295	294	291	289	287	288	292	300	307	314	316	316	312	307	303	301	297
Mean *	299	299	298	297	298	299	297	299	297	294	291	288	287	290	297	301	303	303	303	303	302	300	298	295
Mean **	284	286	290	291	287	286	285	290	289	288	285	287	290	300	306	318	332	343	342	328	312	300	299	292
April	43000 γ + Tabular Quantities (in γ)																								
1 *	300	296	294	294	296	296	299	300	301	295	291	286	286	287	290	297	300	300	300	302	303	302	295	292
2	290	292	287	287	287	288	293	296	298	293	286	284	280	283	300	313	333	346	338	328	327	319	315	303
3 **	300	280	264	280	290	288	280	282	282	280	280	282	297	296	300	303	324	348	338	330	312	298	295	287
4 **	290	289	292	290	287	279	282	285	290	287	288	288	291	309	313	320	342	332	320	318	310	302	292	276
5	265	265	250	248	250	258	272	288	285	284	282	292	289	299	324	316	315	313	313	310	310	302	298	297
6 **	295	288	290	291	286	280	277	277	279	276	278	283	281	288	296	310	332	330	330	320	311	310	310	287
7	263	273	273	274	278	288	292	296	289	288	283	282	281	290	297	302	311	327	330	323	320	310	308	303
8	286	286	287	286	288	290	295	292	296	288	286	280	280	284	294	303	318	320	328	322	315	306	287	291
9	297	296	300	300	297	295	293	293	293	292	285	283	284	292	298	306	320	327	330	327	316	310	308	303
10	303	297	279	280	290	297	298	302	297	290	286	282	283	290	297	300	307	310	312	312	316	310	306	302
11	302	290	289	287	290	291	293	300	293	287	283	277	275	276	286	296	300	306	306	304	302	301	304	296
12	286	287	287	289	294	298	299	300	299	293	293	285	285	289	303	308	313	313	312	310	306	303	299	284
13 **	270	273	278	282	281	288	294	295	290	283	273	271	275	289	311	319	321	326	319	318	311	309	309	304
14	289	289	289	289	294	299	301	305	305	299	292	286	285	285	294	301	306	311	312	314	309	303	301	299
15 *	296	293	296	299	299	301	299	302	296	286	278	269	266	279	293	302	309	316	315	309	307	302	301	299
16 *	295	296	299	299	299	299	301	306	306	299	289	279	276	287	295	299	302	302	301	299	299	299	299	295
17	291	282	286	289	293	292	292	291	291	287	285	279	275	279	288	294	299	305	305	305	302	300	299	299
18 **	296	297	296	296	295	295	297	292	287	277	272	275	269	289	302	320	329	335	333	333	326	312	307	303
19	281	281	293	299	301	299	301	297	293	291	287	284	281	279	287	295	301	309	312	311	310	309	306	289
20	282	288	291	292	291	288	291	290	291	286	288	287	286	290	301	318	344	371	368	348	330	316	296	298
21	303	276	268	278	265	271	278	280	286	291	281	285	305	318	326	326	328	328	318	311	311	311	306	299
22	284	278	274	268	270	280	285	288	295	296	294	295	294	303	333	328	340	348	340	330	306	305	301	295
23	301	298	288	274	268	273	284	289	298	300	294	288	288	298	306	310	313	315	314	308	306	306	304	304
24	300	300	300	303	303	295	295	296	295	295	295	292	292	305	334	352	359	357	363	350	330	319	312	299
25	279	275	260	258	273	278	283	287	297	299	293	291	289	298	307	317	337	355	350	343	337	330	317	312
26	301	275	297	301	304	306	308	307	307	304	297	290	290	290	297	302	309	309	313	312	307	307	304	303
27	300	300	300	300	302	299	300	299	295	294	287	278	274	275	279	293	304	310	313	314	309	307	303	299
28 *	299	294	294	295	300	300	301	300	298	297	291	281	273	274	281	288	294	300	304	304	304	302	302	300
29	299	298	297	288	291	294	296	298	296	292	284	282	282	283	294	306	317	311	305	302	300	299	299	297
30 *	299	298	299	298	300	300	299	297	295	289	281	275	274	283	289	293	297	300	300	300	299	299	295	295
Mean	291	288	287	287	289	290	293	294	294	291	286	283	283	290	301	308	317	323	321	317	312	307	303	297
Mean *	298	295	296	297	299	299	300	301	299	293	286	278	275	282	290	296	300	304	304	303	302	301	298	296
Mean **	290	285	284	288	288	286	286	286	286	281	278	280	283	294	304	314	330	334	328	324	314	306	303	291

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
May	43000 γ + Tabular Quantities (in γ)																								
1 **	297	290	288	289	293	292	285	272	272	268	275	279	280	289	299	310	323	343	358	348	343	305	263	238
2 **	251	264	298	314	317	315	314	310	304	304	310	305	304	321	334	329	334	355	346	335	316	296	293	299
3	286	291	298	304	305	307	305	300	300	296	291	290	297	310	322	325	324	324	334	321	314	311	310	304
4	280	275	277	285	296	298	304	296	292	288	286	286	294	305	307	314	321	328	326	326	314	314	306	306
5	306	306	306	307	308	307	310	305	302	295	287	284	286	294	299	305	307	310	309	308	307	305	305	307
6	294	295	300	302	304	301	296	298	295	292	284	280	280	290	300	306	310	314	314	313	306	304	300	304
7	304	301	301	301	303	302	303	299	294	285	276	271	274	282	296	304	309	310	311	314	311	307	304	301
8 *	299	300	302	304	307	306	305	304	301	294	286	280	282	289	294	300	306	310	314	311	310	306	306	304
9 **	302	302	302	302	302	301	300	300	297	295	285	275	275	285	293	306	317	324	326	330	330	319	315	276
10 **	290	299	301	304	305	299	293	285	286	288	279	280	284	296	312	334	332	328	321	321	322	313	308	301
11	301	299	294	300	306	309	309	306	305	299	295	283	283	296	306	314	318	323	322	319	313	309	306	302
12	289	284	286	292	298	303	305	303	297	292	288	279	279	285	295	304	319	330	333	325	317	310	305	305
13 *	302	301	301	302	304	305	305	303	299	297	291	288	289	295	300	307	309	311	311	313	309	306	304	303
14	299	298	299	295	297	297	299	301	301	299	295	289	290	292	300	310	317	325	326	325	321	312	302	302
15	295	298	289	284	287	292	294	294	293	295	289	279	273	279	295	303	304	308	312	316	316	311	307	301
16	294	285	283	270	274	284	291	297	296	290	283	279	275	281	293	308	315	315	317	317	313	309	303	296
17	293	294	278	279	279	283	280	280	279	280	275	275	285	293	301	313	320	333	330	326	324	316	310	304
18	294	291	289	284	295	299	300	295	293	289	279	260	261	279	294	303	307	310	309	306	307	306	305	304
19	299	301	299	298	301	300	305	302	298	294	282	279	281	289	295	303	308	308	309	312	309	305	302	303
20 *	301	302	301	296	297	299	297	299	291	285	275	268	264	279	291	301	306	311	311	311	310	305	301	301
21 *	301	303	303	302	306	304	301	299	294	286	282	274	277	286	293	299	307	314	312	313	308	304	301	299
22 *	296	299	296	296	300	298	293	291	286	281	274	264	254	260	274	288	301	311	310	306	302	300	300	299
23	299	295	292	296	303	300	296	290	283	274	269	262	263	277	289	295	302	308	313	323	326	320	308	300
24	297	279	288	299	305	305	308	310	307	303	297	286	285	294	303	312	314	321	318	318	313	309	302	300
25	299	300	299	301	308	308	307	303	295	288	283	269	266	273	284	293	300	306	307	306	303	303	303	299
26 **	290	290	295	299	302	303	304	303	300	299	290	278	276	284	286	298	314	345	350	355	349	331	310	304
27	270	273	272	271	270	290	304	312	306	294	284	285	284	290	294	303	309	314	314	314	310	310	306	307
28	305	305	302	300	302	298	297	296	294	285	276	273	273	283	289	296	302	307	305	305	305	304	303	301
29	301	300	300	302	304	302	299	298	293	290	284	274	272	284	294	304	311	313	310	310	307	307	304	300
30	299	299	300	303	307	306	305	303	297	290	285	282	284	289	298	305	307	307	311	312	312	311	308	304
31	301	302	301	302	300	297	298	297	293	287	280	280	281	286	294	300	305	306	305	304	302	301	301	300
Mean	295	294	295	296	300	300	300	298	295	290	284	279	279	288	298	306	312	318	319	318	314	309	303	299
Mean *	300	301	301	300	303	302	300	299	294	289	282	275	273	282	290	299	306	311	312	311	308	304	302	301
Mean **	286	289	297	302	304	302	299	294	292	291	288	283	284	295	305	315	324	339	340	338	332	313	298	284
June	43000 γ + Tabular Quantities (in γ)																								
1	300	299	296	296	298	297	295	291	288	282	281	282	287	296	301	306	304	308	308	308	309	311	306	304
2	300	300	300	298	294	288	289	287	286	284	284	285	286	292	302	306	309	316	320	316	313	306	303	294
3	286	284	291	296	294	294	295	294	290	289	285	283	283	290	302	305	305	306	307	307	306	305	304	302
4	300	300	300	302	304	300	299	295	294	290	285	284	288	292	302	310	315	316	316	311	305	303	295	295
5	295	297	294	297	304	302	300	295	293	290	283	279	276	279	287	301	313	316	310	308	306	304	304	302
6 **	297	293	297	299	302	304	301	297	302	295	283	285	289	301	308	316	320	330	330	325	319	311	305	302
7	301	301	301	302	294	297	301	308	306	303	296	290	281	289	301	310	314	312	314	311	306	304	303	300
8	290	284	286	279	274	280	287	291	288	286	284	279	281	289	294	306	315	324	325	320	310	302	297	293
9	295	298	294	286	294	297	299	298	296	289	280	272	274	282	294	304	310	313	312	307	302	301	299	300
10 *	299	300	300	302	301	302	297	300	295	292	283	280	275	280	292	297	292	296	306	305	305	301	300	298
11	294	290	294	296	293	290	292	291	291	287	283	275	275	287	299	314	308	313	320	318	316	308	303	304
12	299	291	282	292	295	296	296	297	296	294	295	285	285	286	288	296	302	309	312	313	314	312	308	305
13	303	301	302	302	306	303	304	307	308	297	288	278	278	281	287	295	297	302	305	309	310	308	306	304
14	300	300	300	302	305	305	302	300	293	285	276	267	268	272	282	292	300	303	308	312	321	311	304	290
15	289	290	294	300	300	300	291	283	283	284	279	271	276	294	316	326	329	321	321	319	314	305	304	303
16	296	288	292	300	305	303	303	300	296	293	286	277	281	287	297	301	306	310	314	314	311	310	305	303
17 **	300	299	294	299	304	306	303	296	291	290	285	284	282	286	294	303	304	310	310	305	304	302	294	266
18 **	187	234	236	241	266	277	292	294	290	285	276	272	280	289	304	312	319	325	324	319	315	311	307	309
19 **	305	303	304	298	271	259	271	274	279	285	294	293	299	304	310	324	337	335	330	324	316	313	310	310
20 *	307	305	300	305	310	310	307	306	304	298	293	282	280	290	303	309	314	313	312	310	306	306	305	301
21	300	301	301	303	308	306	305	304	300	297	289	280	286	293	302	312	321	323	320	315	308	304	302	302
22 *	297	298	300	304	310	312	313	310	307	299	293	284	284	294	297	306	313	316	318	316	312	307	302	300
23 *	300	300	292	298	302	301	302	304	301	295	295	287	287	289	292	297	308	310	310	310	306	305	303	302
24 *	299	300	300	301	302	304	305	305	304	301	292	277	273	280	283	292	299	305	310	313	312	307	301	301
25 **	300	300	297	300	303	299	297	298	294	285	280	277	282	296	314	330	349	350	359	353	341	325	306	309
26	304	299	296	300	308	307	306	307	309	308	302	300	300	304	306	314	317	320	322	317	314	312	310	307
27	304	304	303	303	305	306	306	304	297	296	294	289	292	295	300	305	309	311	312	311	308	307	305	305
28	301	295	300	302	305	304	303	299	301	296	288	284	284	289	297	303	307	308	308	310	310	305	304	298
29	296	297	296	300	302	302	304	303	295	289	283	275	277	286	291	294	298	304	307	312	314	310	306	303
30	297	297	298	300	303	298	295	291	296	296	295	285	285	290	300	301	301	307	311	317	311	308	308	305
Mean	295	295	295	297	299	298	299	298	296	292	287	281	282	289	298	306	311	314	316	315	311	307	304	301
Mean *	300	301	298	302	305	306	305	305	302	297	291	282	280	287	293	300	305	308	311	311	308	305	302	300
Mean **	278	286	286	287	289	289	293	292	291	288	284	282	286	295	306	317	326	330	331	325	319	312	304	299

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
July	43000 γ + Tabular Quantities (in γ)																								
1	301	291	290	295	299	301	301	305	300	291	285	282	281	294	306	317	323	332	337	334	329	320	311	268
2 **	156	140	191	173	173	195	217	257	285	287	305	310	312	315	317	329	330	333	331	332	330	325	313	317
3 **	313	301	299	307	307	308	314	315	315	315	309	298	302	303	314	324	325	336	341	337	330	321	313	302
4	297	301	301	304	303	292	293	299	303	301	298	291	291	301	308	318	324	324	325	324	323	317	314	303
5	293	298	302	303	307	307	308	311	306	301	295	285	285	294	300	305	314	315	318	317	315	312	309	305
6	303	305	307	310	312	312	313	313	307	301	295	286	291	295	305	310	315	317	320	317	313	311	306	305
7	305	305	306	308	311	311	311	305	301	296	284	277	283	286	293	301	313	317	317	315	311	305	305	301
8	300	297	301	303	303	305	305	302	299	291	285	282	283	289	291	306	313	314	315	315	314	309	305	302
9	298	291	293	289	291	297	300	303	298	290	285	283	284	288	296	301	302	316	327	327	321	313	307	306
10 *	302	297	299	303	308	311	311	310	305	302	295	291	289	291	291	297	301	305	312	319	319	312	308	305
11	302	301	301	303	307	307	308	308	307	303	301	293	285	293	307	313	317	321	325	321	315	309	305	301
12 *	297	300	301	302	305	305	307	305	298	291	287	286	281	285	289	296	305	313	315	314	310	307	306	301
13 *	297	288	287	297	303	303	301	300	297	287	277	275	275	283	295	302	306	307	310	308	310	306	302	300
14 *	297	295	296	298	300	300	302	304	300	292	284	281	280	286	297	300	303	306	307	305	304	303	302	300
15	293	294	296	296	299	298	297	300	294	290	289	285	285	290	296	300	297	303	312	315	314	313	308	305
16	307	306	304	297	297	296	300	304	304	298	292	288	289	290	299	305	314	319	324	326	323	314	309	306
17	304	301	300	300	304	302	299	298	297	300	303	293	283	283	296	313	320	330	340	333	320	313	309	307
18	304	300	303	306	304	304	304	306	299	302	295	287	285	292	306	320	324	335	336	324	317	314	310	306
19	305	305	305	305	307	307	307	305	301	295	291	280	278	285	295	303	311	315	317	315	310	303	301	302
20	301	299	296	290	294	299	301	302	295	289	283	269	275	287	298	306	308	313	314	309	303	300	299	299
21	297	299	298	295	300	299	299	299	297	294	287	279	277	281	296	306	313	314	312	310	304	300	299	299
22	295	294	294	295	289	279	284	290	291	294	290	283	279	278	287	299	311	320	325	324	315	310	304	294
23	291	269	259	282	293	294	300	302	302	299	295	294	288	291	296	307	310	309	313	316	314	310	302	299
24 *	295	296	300	301	303	300	302	304	300	294	289	282	285	290	294	305	309	311	310	308	304	302	301	300
25	298	299	298	300	303	303	304	299	300	295	289	289	288	290	302	307	311	320	327	324	320	310	303	301
26 **	299	294	294	294	300	295	293	293	294	291	284	283	293	303	314	331	338	326	319	316	314	311	308	302
27	279	279	283	279	284	287	299	301	299	299	296	285	283	289	300	311	311	314	313	311	307	304	303	297
28 **	285	287	288	274	273	279	283	289	293	294	294	295	293	293	300	315	331	340	337	334	320	311	306	303
29	292	294	298	295	296	295	298	301	299	299	288	282	284	291	297	304	303	309	311	313	313	310	308	304
30	298	297	300	301	302	302	302	300	299	298	297	295	289	292	296	309	316	322	323	323	316	312	309	301
31 **	298	296	286	284	284	283	281	286	286	281	282	285	287	308	332	379	395	401	386	369	353	332	323	307
Mean	294	291	293	293	296	296	298	301	299	295	291	286	286	291	300	311	317	321	323	321	316	311	307	302
Mean *	298	295	297	300	304	304	305	305	300	293	286	283	282	287	293	300	305	308	311	311	309	306	304	301
Mean **	270	264	272	266	267	272	278	288	295	294	295	294	297	304	315	336	344	347	343	338	329	320	313	306
August	43000 γ + Tabular Quantities (in γ)																								
1 **	290	288	289	296	303	308	309	310	303	296	295	289	278	284	298	312	318	325	325	323	315	303	301	265
2	277	282	276	272	276	285	293	295	298	300	295	286	283	288	298	311	320	320	323	317	310	308	305	301
3 *	301	301	300	303	305	300	301	301	295	291	292	293	295	298	302	306	306	307	308	308	305	306	306	303
4	299	299	299	288	293	299	303	299	294	294	289	279	274	279	295	305	309	309	318	314	309	309	304	295
5	299	298	283	289	294	295	296	296	289	283	276	275	279	278	288	300	304	317	317	315	310	306	302	302
6	299	289	292	298	302	303	304	304	303	298	292	283	282	290	299	317	325	325	323	315	309	304	303	303
7	301	302	302	302	296	296	294	292	286	285	284	282	282	287	290	300	304	316	320	324	316	310	297	297
8 *	297	296	295	298	301	305	308	310	307	303	293	285	280	282	293	303	307	310	311	311	309	309	305	303
9	297	295	296	300	303	305	305	302	300	294	286	282	283	281	294	301	309	311	311	312	309	310	306	301
10 *	299	300	301	303	306	307	306	305	299	298	298	284	278	277	283	294	302	305	304	307	307	304	301	299
11	296	297	297	298	300	298	298	298	290	283	284	284	290	291	294	296	306	316	320	321	315	309	306	300
12	287	294	294	294	298	297	299	306	304	300	291	289	289	297	304	315	318	327	323	318	314	305	294	297
13 **	300	301	303	300	284	269	279	281	281	279	284	281	287	304	323	348	370	367	365	333	323	321	317	315
14	313	312	310	310	311	311	314	314	310	303	292	285	289	294	301	315	317	317	314	312	310	309	305	306
15	305	302	295	295	305	304	306	309	305	302	299	297	296	303	311	312	315	320	319	321	316	310	306	306
16	305	303	303	304	301	300	301	300	290	287	286	294	298	299	306	316	320	319	314	311	307	306	304	306
17	306	307	305	306	307	305	306	306	297	292	287	288	279	289	294	314	321	322	325	332	326	319	309	303
18 *	300	303	303	304	309	309	309	309	303	299	292	288	289	297	304	309	312	311	306	304	303	301	301	301
19	300	300	301	302	304	305	304	303	297	293	290	289	286	292	297	307	315	326	329	320	314	309	306	303
20 **	302	284	269	264	270	283	288	284	296	294	295	296	294	298	311	316	320	327	335	339	323	313	299	299
21 **	292	268	263	279	293	300	304	309	309	303	301	304	302	308	326	341	359	379	371	360	339	312	293	282
22	260	257	263	266	270	271	281	286	290	299	302	303	304	317	317	330	329	330	330	331	324	311	307	304
23	297	300	304	307	309	311	309	309	304	301	299	291	294	303	304	310	326	331	330	328	321	314	307	287
24	288	294	301	296	282	293	297	308	306	302	296	292	290	301	311	319	319	323	322	321	313	310	303	301
25 **	299	295	287	284	279	277	293	300	297	298	300	296	299	302	304	308	318	335	333	329	312	310	309	307
26	305	290	283	294	297	302	306	306	300	305	300	304	301	305	310	316	319	317	317	318	303	303	299	282
27	291	300	303	303	304	302	305	303	304	304	294	288	292	298	308	322	333	334	326	320	315	309	305	301
28	301	302	303	304	307	304	305	306	307	307	301	291	292	302	308	313	314	315	311	317	315	305	302	300
29	290	293	295	301	303	305	309	311	313	306	301	296	295	304	311	325	328	329	318	315	311	310	305	304
30 *	301	304	305	306	308	307	310	310	310	305	301	298	295	295	301	311	320	325	324	324	319	318	314	312
31	310	308	307	305	306	306	306	305	300	293	291	288	288	296	310	331	328	327	320	313	310	311	310	301
Mean	297	296	294	296	298	299	302	302	300	297	293	290	289	295	303	314	320	324	323	320	314	309	304	300
Mean *	300	301	301	303	306	306	307	307	303	299	295	290	287	290	297	305	309	312	311	311	309	308	305	304
Mean **	297	287	282	285	286	287	295	297	297	294	295	293	292	299	312	325	337	347	346	337	322	312	304	294

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
September	43000 γ + Tabular Quantities (in γ)																								
1 *	300	303	303	305	308	309	311	306	302	295	294	294	295	299	304	305	308	306	305	307	305	305	300	301
2 *	301	302	303	304	305	308	309	309	303	301	298	296	294	296	300	309	307	306	305	306	304	304	304	302
3 *	302	300	302	305	307	307	306	305	304	298	290	292	292	293	300	309	312	310	304	305	302	304	303	301
4 *	300	301	302	303	302	303	301	300	296	295	288	291	295	300	304	307	309	308	307	307	309	308	305	304
5	304	305	305	304	307	306	305	305	302	298	292	288	297	305	311	315	315	315	313	311	311	307	310	306
6	297	298	302	305	307	307	308	305	301	295	290	291	290	295	303	307	307	307	309	315	317	316	312	308
7	304	300	301	305	308	309	311	310	307	301	290	284	285	290	294	302	307	313	316	321	317	311	308	305
8	304	304	304	305	307	305	302	301	300	297	290	281	281	289	296	306	305	305	306	311	308	307	306	302
9	301	298	297	295	296	299	300	300	298	295	288	288	295	304	311	316	315	316	321	323	318	313	307	301
10	292	294	295	286	287	285	288	286	293	296	299	308	317	324	341	341	346	347	341	331	324	318	315	315
11	311	305	296	305	309	311	315	311	307	303	300	297	298	302	309	320	325	335	353	359	348	324	283	288
12	295	289	285	300	309	301	303	310	309	310	306	303	309	318	330	334	333	324	322	323	322	318	315	299
13	266	294	302	309	302	286	284	290	297	300	300	300	302	301	312	333	346	343	355	341	331	324	299	298
14	302	290	289	290	282	284	293	301	307	306	303	297	304	307	313	321	321	327	327	330	325	321	315	310
15	302	291	288	296	301	305	309	305	305	304	304	304	308	317	329	349	346	340	336	337	328	322	322	318
16 **	308	288	291	291	284	288	285	295	297	295	311	320	324	338	374	391	405	377	352	338	329	300	299	285
17	270	288	285	293	301	303	311	312	314	313	313	319	320	326	334	357	353	349	334	326	320	318	300	298
18	304	303	288	280	286	292	298	304	310	309	305	301	298	302	312	325	329	332	339	329	326	323	314	310
19	307	306	309	310	310	311	311	310	303	298	292	289	288	288	298	337	410	420	422	372	360	348	335	331
20 **	315	302	299	293	285	293	303	302	301	310	320	327	331	342	363	363	386	369	363	335	331	317	298	289
21 **	246	263	290	295	292	282	292	307	303	305	317	322	334	334	349	372	373	361	351	339	321	306	286	277
22 **	287	268	271	281	278	275	285	300	305	308	305	302	321	327	343	357	361	344	345	328	321	315	312	281
23	295	288	281	259	275	285	296	305	306	315	319	319	318	320	333	344	338	331	326	326	329	311	303	299
24	282	277	292	292	292	291	300	311	312	314	313	321	322	338	341	337	342	340	331	331	326	314	315	316
25 **	310	302	302	308	308	306	311	311	312	314	321	322	333	349	383	474	475	435	403	339	351	359	259	252
26	183	194	171	216	232	292	320	324	329	332	332	328	325	325	329	336	339	336	335	334	331	332	331	332
27	321	305	304	295	291	305	311	312	308	318	317	311	314	316	321	327	330	328	326	327	326	326	326	321
28	312	296	305	311	317	317	318	320	321	314	311	302	301	304	308	312	315	315	317	318	319	318	321	317
29	315	310	311	314	315	315	315	315	313	312	305	300	300	302	311	332	361	356	338	335	327	312	311	314
30 *	309	307	309	311	308	309	307	313	315	311	306	301	301	311	317	323	321	321	320	320	320	319	318	317
Mean	295	292	293	296	297	300	304	306	306	305	304	303	306	312	322	335	341	337	334	327	324	317	308	303
Mean *	302	303	304	306	306	307	307	307	304	300	295	295	295	300	305	311	311	310	308	309	308	308	306	305
Mean **	293	285	291	294	289	289	295	303	304	306	315	319	329	338	362	391	400	377	363	336	331	319	291	277
October	43000 γ + Tabular Quantities (in γ)																								
1	317	317	318	317	318	313	313	313	311	311	303	297	297	301	305	311	317	317	319	320	320	317	316	318
2	318	314	311	309	311	311	307	307	311	310	307	306	307	308	310	316	319	320	321	320	319	316	315	317
3	314	314	313	316	318	318	316	317	313	311	304	302	302	302	305	311	314	317	318	318	315	313	312	311
4 *	311	311	312	313	314	314	316	316	313	308	302	301	301	303	310	317	320	319	320	320	315	314	313	312
5	311	309	310	312	314	314	315	314	316	313	307	301	299	300	305	313	315	316	317	318	318	318	315	314
6 *	311	307	308	312	314	314	315	316	313	309	300	294	290	294	301	307	311	311	311	312	311	311	311	308
7	306	307	306	304	301	300	298	303	304	305	296	291	292	295	309	323	352	347	359	370	362	337	301	311
8 **	307	298	289	271	281	296	308	311	318	321	327	330	328	338	355	347	362	361	350	341	332	330	325	303
9	295	299	301	301	310	313	320	321	320	319	312	307	312	322	330	332	331	331	330	329	327	325	307	308.
10	311	313	305	295	305	311	313	313	312	311	308	310	313	314	321	325	341	353	339	332	331	331	320	311
11	300	293	300	306	311	312	314	317	315	314	311	311	320	325	329	341	349	344	340	332	327	322	321	321
12	318	318	315	313	311	311	312	312	313	312	305	304	310	311	309	315	318	320	318	319	318	317	316	315
13	311	311	310	307	303	300	303	307	306	304	306	307	306	307	315	321	325	321	321	321	330	324	312	285
14	279	295	301	307	310	311	313	317	315	315	311	309	309	311	316	321	330	335	334	321	308	314	315	308
15	306	311	310	307	311	311	315	317	317	312	303	300	302	310	316	320	320	317	317	320	314	313	311	305
16	299	299	300	304	305	305	308	310	310	306	302	304	309	313	321	327	330	330	334	332	334	322	315	300
17 **	298	288	271	270	280	290	290	297	301	314	310	319	330	337	350	372	375	354	342	331	308	306	310	310
18 **	295	296	309	302	293	300	302	310	312	320	322	323	320	327	341	340	339	349	334	330	323	310	301	302
19 **	293	289	288	272	289	300	300	310	313	312	311	311	312	324	326	331	340	348	337	321	327	318	304	285
20	274	274	290	306	311	312	316	316	314	314	310	310	314	318	325	325	324	323	320	320	320	313	314	310
21	307	310	309	308	305	302	306	314	314	309	308	306	305	308	315	320	324	324	324	323	317	316	313	312
22	306	303	298	296	300	304	306	310	310	306	304	306	314	316	329	346	348	343	339	326	323	320	312	312
23	307	301	304	307	310	312	312	311	306	305	302	305	308	316	324	329	327	323	322	320	319	318	319	316
24 *	317	314	314	314	314	314	313	310	305	301	300	304	306	308	312	312	313	312	312	314	315	315	314	314
25 *	314	312	311	310	310	310	309	309	306	302	301	301	303	307	311	311	309	309	309	309	310	309	309	309
26	307	305	305	305	304	305	306	308	304	296	293	295	302	300	304	308	309	309	309	312	314	311	312	309
27	312	303	304	304	305	300	302	305	305	303	302	301	303	305	310	315	313	312	312	310	312	311	310	312
28 **	310	309	309	308	308	307	304	304	307	305	303	300	296	299	331	408	483	589	613	448	391	389	369	350
29	343	343	345	347	345	344	340	343	339	339	334	333	334	338	342	339	338	336	334	334	334	333	334	334
30	332	329	329	329	329	330	329	333	332	327	326	329	331	331	336	335	333	330	329	328	328	325	325	325
31 *	325	324	324	324	324	324	323	323	320	315	314	314	316	319	323	324	325	325.	323	321	321	319	319	319
Mean	308	307	307	306	309	310	311	313	313	311	308	307	309	313	321	328	334	337	336	328	324	321	316	312
Mean *	316	314	314	315	315	315	315	315	311	307	303	303	303	306	311	314	316	315	315	315	314	314	313	312
Mean **	301	296	293	285	290	299	301	306	310	314	315	317	317	325	341	360	380	400	395	354	336	331	322	310

* International Quiet Day. ** International Disturbed Day.

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

U.T.	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	24h
November	43000 γ + Tabular Quantities (in γ)																								
1 *	319	322	323	322	320	320	318	319	316	313	311	310	311	313	319	321	322	321	319	319	320	320	323	323
2	322	319	316	313	307	308	306	305	304	303	300	300	309	313	323	329	333	332	331	330	332	325	323	319
3 **	313	309	303	295	295	299	303	305	305	303	304	303	307	316	325	329	329	330	329	327	329	308	303	303
4	299	301	295	289	295	295	298	295	304	308	308	308	313	321	329	343	342	336	334	329	327	327	323	311
5	310	310	311	309	311	316	312	315	319	319	313	310	311	314	319	319	324	324	326	331	328	324	322	313
6	311	311	314	314	316	316	315	317	319	318	319	319	324	325	333	338	346	357	361	353	328	333	330	325
7	313	309	296	295	303	310	314	319	315	314	318	318	323	327	328	337	340	338	338	335	334	331	328	326
8	321	317	305	311	314	316	313	315	317	313	308	310	314	317	321	322	323	321	321	325	329	330	327	325
9	321	318	317	316	313	311	307	305	310	308	309	307	308	309	314	319	324	326	331	328	325	324	328	324
10 *	321	318	318	314	315	314	312	312	313	312	310	313	312	311	314	315	316	317	316	316	317	315	316	314
11	314	313	313	313	313	312	312	314	316	314	314	312	314	316	318	318	318	314	315	315	315	321	319	314
12	311	293	300	307	308	308	308	308	308	312	314	317	324	329	339	348	352	342	332	328	324	322	323	318
13 **	316	312	312	312	312	312	312	311	310	312	314	314	312	318	328	345	368	384	384	372	352	336	324	313
14 **	298	274	300	313	314	317	318	318	320	321	318	319	322	329	338	338	338	338	329	333	331	304	309	301
15 **	305	301	308	307	313	316	313	314	312	309	308	312	317	321	330	335	333	334	327	329	327	322	321	312
16	306	308	311	312	312	311	310	312	313	312	311	310	315	322	326	327	328	327	323	320	322	320	319	318
17	318	316	315	314	315	317	313	312	308	306	304	303	304	305	308	308	312	314	315	322	330	317	318	320
18 *	318	317	317	316	317	316	316	316	316	311	308	309	311	312	315	317	319	319	319	319	320	319	318	314
19 *	314	315	315	314	311	313	313	313	311	311	308	311	314	314	317	320	321	322	320	319	318	315	316	317
20	316	314	310	309	311	314	314	312	309	310	309	310	313	315	318	319	323	324	323	328	334	329	329	317
21	316	315	315	314	314	315	313	311	309	308	307	308	307	308	312	312	314	314	313	314	317	318	318	318
22	318	313	311	309	308	309	310	310	306	303	302	302	302	303	307	308	313	315	323	330	327	327	325	322
23	324	319	318	315	314	316	316	316	315	312	311	312	312	312	314	316	323	322	325	326	330	328	324	322
24	319	312	312	314	315	318	314	317	317	314	314	315	317	317	320	329	330	328	326	325	322	318	318	317
25	315	312	311	312	313	313	313	312	310	308	308	312	314	314	318	320	325	323	323	323	323	318	305	309
26	310	312	313	314	313	313	313	311	311	309	312	313	316	323	323	321	321	319	318	324	323	323	322	322
27 *	318	315	314	313	314	314	313	311	309	309	311	309	308	313	314	316	317	313	313	314	315	316	317	316
28	315	313	311	307	309	309	309	310	308	307	306	307	307	311	318	320	323	323	321	328	325	315	303	296
29 **	303	303	296	300	304	308	308	310	308	304	308	311	318	329	330	330	337	329	322	320	319	321	316	306
30	303	305	309	309	311	312	313	311	309	307	302	302	304	309	320	324	327	328	329	328	323	319	317	316
Mean	314	311	310	310	311	312	312	312	312	310	310	310	313	316	321	325	328	328	327	327	326	321	319	316
Mean *	318	317	317	316	315	315	314	314	313	311	310	310	311	313	316	318	319	318	317	317	318	317	318	317
Mean **	307	300	304	305	308	310	311	312	311	310	310	312	315	323	330	335	341	343	338	336	332	318	315	307
December	43000 γ + Tabular Quantities (in γ)																								
1	314	312	309	308	311	313	312	312	309	306	303	304	308	313	319	322	328	328	326	324	323	318	312	308
2	306	307	308	308	308	304	304	302	305	305	307	309	313	320	328	331	335	338	343	342	333	330	327	318
3	316	306	300	303	308	310	306	310	312	310	310	309	310	314	317	322	325	324	330	332	331	330	327	314
4	310	308	304	307	307	308	307	308	305	308	308	311	312	314	322	327	330	327	335	333	337	332	318	318
5	318	317	315	311	312	314	313	312	312	311	308	308	309	314	318	316	319	322	322	323	321	318	315	308
6 *	311	309	310	309	311	312	311	310	308	305	304	305	306	305	308	310	312	311	312	314	318	318	315	312
7	310	311	309	308	308	308	308	308	308	308	307	308	308	304	306	308	314	319	328	326	323	319	314	311
8 **	308	297	280	293	300	302	305	305	307	304	305	314	322	318	324	328	338	334	343	345	345	322	324	308
9 **	305	311	307	298	298	302	308	307	306	307	314	321	326	334	350	352	351	353	338	321	330	328	321	316
10	315	318	318	318	315	311	311	312	310	315	315	322	327	328	328	335	340	337	333	328	325	324	312	302
11	298	300	301	304	304	304	308	308	309	305	308	313	316	318	328	332	340	329	328	330	328	324	322	312
12	312	313	315	315	314	315	312	313	313	311	311	315	313	318	321	321	320	318	318	319	318	318	318	317
13 *	315	316	315	315	313	312	310	308	307	308	311	313	313	316	320	321	322	320	318	318	318	315	314	314
14	314	313	313	312	314	312	313	312	312	306	303	303	304	308	312	313	315	314	315	314	314	323	311	311
15	308	307	311	310	315	318	317	315	312	308	309	309	312	316	316	319	325	322	323	336	337	330	326	322
16	318	313	313	314	313	309	308	310	311	308	308	308	308	308	311	315	317	318	318	317	317	317	315	312
17	312	313	314	312	309	312	311	310	311	310	306	307	308	314	318	327	331	338	348	347	342	331	326	320
18	318	316	313	311	309	313	317	318	312	312	308	307	309	309	314	319	324	323	328	327	325	324	328	323
19	320	317	317	313	313	312	313	314	313	316	316	317	314	317	329	328	327	323	326	322	323	322	320	309
20	309	308	308	304	304	309	314	314	312	313	314	315	312	312	314	315	322	322	324	324	321	319	318	318
21	317	313	314	313	313	314	313	312	312	311	309	308	306	308	311	312	313	314	313	314	314	313	316	310
22 **	312	312	308	306	304	306	308	313	317	315	316	319	322	325	330	342	348	358	358	352	354	327	328	328
23	325	315	308	310	314	314	316	316	318	313	310	313	312	314	318	320	322	322	323	323	324	322	319	318
24 *	316	313	312	312	314	317	317	318	318	318	320	318	311	314	319	315	318	317	317	318	318	318	318	316
25 *	315	313	312	311	310	309	311	313	315	312	310	309	311	313	314	315	317	316	317	315	317	314	315	314
26 *	313	313	312	311	309	308	308	308	309	310	311	310	309	311	314	312	312	312	312	312	311	309	309	308
27	309	309	309	308	308	305	301	302	304	302	303	305	304	308	308	308	311	309	308	308	307	306	302	293
28 **	293	286	290	294	290	257	244	276	290	300	318	332	344	358	379	368	367	355	353	348	332	325	322	314
29	309	309	314	318	318	321	318	321	318	318	319	318	318	323	328	329	326	324	322	320	319	318	318	318
30	317	317	317	317	317	314	314	312	312	314	317	317	317	322	326	324	321	318	318	317	315	313	317	322
31 **	325	323	321	318	318	316	312	312	307	304	311	319	316	320	332	335	341	345	345	342	332	317	316	319
Mean	313	311	310	309	310	309	309	310	310	309	310	312	314	317	322	324	327	326	327	326	325	321	318	314
Mean *	314	313	312	312	311	312	311	311	311	311	311	311	310	312	315	315	316	315	315	315	316	315	314	313
Mean **	309	306	301	302	302	297	295	303	305	306	313	321	326	331	343	345	349	349	347	342	339	324	322	317

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
January	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	16.8	16 2	21.4	10.8	0 51	10.6	649	9 6	670	624	2 2	46	298	22 38	309	286	8 11	23
2 **	16.4	13 58	22.9	4.6	19 50	18.3	647	20 3	703	620	15 16	83	298	20 1	316	284	8 17	32
3	16.3	4 52	24.6	8.8	0 2	15.8	648	5 11	681	634	15 20	47	295	19 10	304	274	5 16	30
4 *	16.5	13 1	19.5	13.5	21 44	6.0	649	18 37	664	635	0 41	29	295	20 27	303	282	12 4	21
5	16.5	12 59	20.7	6.9	21 2	13.8	653	21 13	678	630	20 18	48	294	20 26	305	284	7 3	21
6 *	16.4	12 6	20.1	10.9	20 37	9.2	648	13 10	661	636	1 39	25	295	10 43	302	284	12 31	18
7 *	16.2	11 50	19.3	13.9	22 4	5.4	649	14 4	662	633	10 57	29	295	10 20	302	288	12 33	14
8	17.2	12 42	22.5	14.4	20 43	8.1	654	7 8	672	630	15 0	42	293	16 46	305	281	10 59	24
9 *	16.8	13 41	19.9	14.6	23 58	5.3	652	5 58	671	633	11 23	38	291	19 10	298	283	12 55	15
10	16.5	18 9	26.3	12.0	21 40	14.3	641	15 28	668	581	18 33	87	297	18 54	322	281	11 58	41
11	16.2	1 7	24.1	6.8	22 21	17.3	635	22 24	667	608	1 15	59	300	21 43	317	285	11 59	32
12	16.5	11 26	21.9	11.4	0 33	10.5	635	5 43	661	605	10 20	56	299	16 44	313	289	8 56	24
13	15.6	13 33	20.7	6.3	20 6	14.4	639	13 47	659	604	19 30	55	296	20 8	314	282	3 43	32
14	15.7	13 50	21.1	8.2	21 20	12.9	635	6 37	659	611	13 29	48	300	19 45	317	287	11 22	30
15	15.5	2 58	22.4	4.2	22 10	18.2	641	23 57	676	616	21 30	60	298	19 37	314	285	12 34	29
16	14.8	12 21	20.1	1.5	21 23	18.6	636	21 48	683	585	13 14	98	301	16 45	317	291	22 16	26
17	15.6	1 51	21.5	10.7	3 31	10.8	642	1 42	670	626	4 37	44	296	14 29	307	285	2 12	22
18 *	15.8	13 24	20.0	8.6	21 53	11.4	648	22 2	668	627	14 34	41	295	17 29	305	288	10 32	17
19	15.3	13 12	21.6	2.3	21 44	19.3	647	18 8	677	594	22 20	83	293	22 30	313	281	2 46	32
20	15.8	13 30	22.6	5.6	0 2	17.0	643	15 44	663	613	0 16	50	295	0 11	300	285	1 49	15
21 **	15.6	16 5	24.3	-3.0	21 41	27.3	640	10 52	671	588	16 26	83	301	18 35	333	284	11 15	49
22 **	14.4	7 13	28.8	-12.8	21 8	41.6	626	21 14	674	558	14 35	116	300	15 25	341	269	2 18	72
23 **	15.6	0 45	23.8	3.8	18 46	20.0	635	18 59	684	597	10 36	87	298	16 48	322	270	1 34	52
24	15.8	13 27	20.6	11.1	20 36	9.5	640	5 47	661	609	12 42	52	297	16 45	312	287	9 4	25
25	15.7	13 21	20.9	9.3	20 53	11.6	643	6 3	659	624	11 20	35	297	16 24	308	289	0 16	19
26	16.6	17 52	26.0	10.6	22 1	15.4	642	13 45	667	582	20 1	85	300	20 37	346	281	8 59	65
27	15.4	13 41	21.5	7.3	22 48	14.2	639	19 55	658	620	20 23	38	298	20 53	310	283	12 8	27
28	14.5	13 19	21.1	2.3	19 4	18.8	637	14 30	659	605	20 49	54	297	19 14	315	284	12 46	31
29	16.0	9 7	20.1	9.9	23 12	10.2	638	22 19	661	616	11 54	45	299	20 59	311	291	11 6	20
30	15.6	16 59	21.1	7.3	22 51	13.8	640	7 29	665	600	22 39	65	299	22 2	322	287	13 34	35
31 **	16.3	9 30	27.4	-0.2	3 10	27.6	620	3 25	691	564	7 36	127	299	19 48	344	248	6 52	96
Mean	15.9	-	22.2	7.1	-	15.1	642	-	670	610	-	59.8	297	-	314	283	-	31.9
Mean *	16.4	-	19.8	12.3	-	7.5	649	-	665	633	-	32.4	294	-	302	285	-	17.0
Mean **	15.6	-	25.4	-1.5	-	27.0	634	-	685	585	-	99.2	299	-	331	271	-	60.2
February	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	13.2	18 37	20.2	-1.1	1 49	21.3	623	1 20	667	593	4 20	74	302	21 11	319	278	3 25	41
2 *	15.4	18 5	18.7	12.0	21 40	6.7	638	18 30	652	620	2 11	32	302	0 6	310	292	6 56	18
3 *	15.6	12 46	20.0	13.2	21 0	6.8	644	19 28	657	631	9 31	26	298	23 50	302	287	12 17	15
4	16.5	12 5	22.6	13.8	22 8	8.8	639	8 25	659	595	17 18	64	302	18 29	318	291	9 21	27
5	15.4	14 28	23.5	4.3	22 6	19.2	642	7 57	674	597	21 12	77	300	21 25	326	282	12 3	44
6	13.5	12 12	20.3	-3.8	2 29	24.1	631	1 16	688	589	0 32	99	298	0 2	318	265	2 14	53
7	14.5	13 6	20.5	9.6	19 50	10.9	639	15 5	656	620	18 56	36	300	18 29	308	288	11 58	20
8	14.7	12 44	21.9	2.2	18 34	19.7	631	18 39	682	568	16 31	114	306	18 38	361	289	0 3	72
9	14.7	14 31	24.1	4.0	19 26	20.1	628	21 19	691	588	16 5	103	304	15 23	335	283	11 58	52
10	14.7	13 34	23.7	-2.7	22 21	26.4	635	22 32	717	615	22 3	102	298	19 52	317	287	3 17	30
11	14.8	2 2	22.3	6.0	23 58	16.3	633	23 46	709	583	16 52	126	300	20 16	324	280	24 0	44
12	14.0	15 3	23.5	-6.3	18 28	29.8	635	23 14	691	596	18 3	95	298	18 43	334	271	1 48	63
13	15.3	11 46	22.0	7.3	19 54	14.7	635	22 35	679	606	12 4	73	303	19 28	320	291	3 6	29
14	14.3	14 20	19.4	6.1	18 50	13.3	640	18 55	681	622	18 17	59	299	18 43	314	290	13 3	24
15 *	15.7	12 59	19.2	10.3	22 57	8.9	644	23 2	670	633	13 39	37	300	18 44	310	287	8 20	23
16 *	15.8	13 8	19.1	13.6	7 30	5.5	649	18 40	664	638	11 22	26	299	20 28	306	291	17 1	15
17	16.1	14 6	21.5	11.3	20 56	10.2	647	7 43	661	626	20 45	35	299	21 8	314	285	11 15	29
18	15.0	12 1	21.7	7.7	1 3	14.0	645	7 55	677	613	18 41	64	298	20 12	318	278	10 4	40
19	15.9	12 25	22.3	7.1	22 33	15.2	652	6 3	675	627	10 50	48	294	19 36	307	281	11 5	26
20 *	15.3	13 1	18.8	11.6	0 0	7.2	648	5 56	663	628	0 50	35	296	17 26	306	285	11 2	21
21	15.3	14 40	21.0	8.9	18 48	12.1	647	6 1	669	617	19 58	52	296	20 36	313	285	9 42	28
22 **	14.7	15 12	24.1	-0.3	19 42	24.4	644	21 7	745	572	13 4	173	294	16 39	348	270	7 57	78
23 **	13.4	14 36	28.8	-6.0	18 43	34.8	628	18 59	738	562	12 2	176	298	15 29	351	261	23 42	90
24 **	14.5	14 8	23.6	2.5	17 6	21.1	624	19 24	667	549	16 47	118	303	17 11	347	275	1 35	72
25	14.7	13 19	21.4	8.5	21 33	12.9	636	21 45	706	606	10 33	100	300	19 35	316	280	22 30	36
26	14.7	13 6	21.4	4.5	18 3	16.9	640	20 35	671	607	15 23	64	299	18 23	328	279	11 58	49
27 **	15.5	0 46	28.6	-3.9	2 36	32.5	642	0 32	730	572	2 37	158	290	20 27	323	227	2 20	96
28 **	15.6	4 45	35.0	8.1	22 29	26.9	639	5 27	724	577	6 48	147	291	20 46	318	249	6 48	69
Mean	15.0	-	22.5	5.3	-	17.2	638	-	684	602	-	82.6	299	-	322	279	-	43.0
Mean *	15.6	-	19.2	12.1	-	7.0	644	-	661	630	-	31.2	299	-	307	288	-	18.4
Mean **	14.7	-	28.0	0.1	-	27.9	635	-	720	566	-	154.4	295	-	337	256	-	81.0

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
March	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	14.5	11 18	20.1	7.7	3 38	12.4	635	2 20	663	607	12 15	56	299	19 6	312	284	2 37	28
2 *	14.7	12 55	20.1	12.5	8 53	7.6	641	23 42	678	608	14 20	70	302	17 28	314	289	12 4	25
3	15.4	6 22	19.8	12.6	9 10	7.2	647	6 36	672	628	15 28	44	297	16 27	309	285	11 18	24
4 *	14.9	12 32	19.1	11.2	8 55	7.9	649	22 29	699	632	12 52	67	295	18 28	305	283	11 46	22
5 *	15.7	13 40	19.4	13.2	9 31	6.2	655	7 57	675	641	17 23	34	294	18 44	309	278	12 41	31
6	15.8	14 37	24.0	11.0	20 6	13.0	657	8 21	706	626	15 21	80	293	18 45	310	275	11 3	35
7 **	16.1	13 36	30.6	7.1	23 24	23.5	640	20 51	692	581	16 54	111	297	18 36	346	270	12 30	76
8	14.2	14 6	23.7	0.1	18 24	23.6	634	20 50	699	575	9 59	124	301	17 57	336	278	9 50	58
9	13.6	13 13	21.9	0.0	23 57	21.9	635	20 23	681	601	23 22	80	294	18 7	320	269	23 45	51
10 **	13.1	12 45	23.6	-1.9	0 19	25.5	636	18 50	692	590	13 19	102	292	18 46	323	268	6 48	55
11	14.0	14 32	23.9	1.1	19 55	22.8	634	19 0	704	595	15 18	109	297	16 43	341	276	10 54	65
12	15.7	13 9	23.1	5.8	19 41	17.3	640	19 47	694	586	10 0	108	297	16 44	327	271	6 12	56
13 **	12.9	14 13	26.3	-9.8	19 56	36.1	625	20 32	718	533	21 36	185	305	18 7	404	256	23 57	148
14 **	14.6	14 32	27.7	3.4	20 46	24.3	620	20 3	716	579	20 41	137	307	16 39	355	254	0 4	101
15	14.2	12 47	21.9	-2.0	2 14	23.9	635	18 33	662	590	0 48	72	302	0 3	313	278	1 54	35
16	15.1	12 41	24.2	1.9	20 49	22.3	649	15 58	680	618	10 34	62	299	20 51	312	278	12 3	34
17	14.6	13 40	23.8	5.4	17 16	18.4	641	6 52	666	590	10 20	76	302	17 34	329	289	9 32	40
18	14.9	12 15	22.5	7.5	22 16	15.0	644	23 18	665	596	9 55	69	298	16 19	309	279	11 59	30
19	15.2	13 40	20.2	11.1	8 29	9.1	647	5 41	668	622	10 40	46	296	16 45	309	284	11 6	25
20	14.5	13 42	23.5	8.9	8 44	14.6	644	10 44	662	593	12 24	69	298	16 28	317	276	12 43	41
21 *	15.7	13 39	22.3	11.1	9 28	11.2	655	22 30	712	642	11 11	70	295	16 40	308	273	12 21	35
22 **	13.6	12 26	25.0	2.2	19 3	22.8	644	23 45	692	580	17 58	112	301	17 15	384	278	10 53	106
23	14.1	13 17	24.7	2.6	20 56	22.1	629	20 31	694	597	15 56	97	298	18 26	331	274	0 7	57
24	13.6	14 7	23.3	2.2	19 13	21.1	634	19 21	695	605	19 53	90	303	16 39	333	278	12 2	55
25	13.7	13 45	24.5	5.7	1 40	18.8	640	23 24	682	579	11 8	103	296	16 38	314	278	4 4	36
26	14.3	13 29	24.7	3.7	22 25	21.0	641	22 40	678	611	11 10	67	298	19 30	322	278	12 16	44
27	14.2	13 30	22.7	7.4	2 12	15.3	644	14 53	670	610	11 17	60	296	18 27	318	276	11 15	42
28 *	14.6	13 0	21.5	9.9	8 50	11.6	648	15 4	665	619	11 20	46	301	7 30	312	289	13 21	23
29	15.9	14 41	30.6	1.5	22 47	29.1	641	6 10	688	605	13 43	83	304	18 28	356	273	12 48	83
30	14.0	14 20	22.1	6.7	2 1	15.4	649	1 43	682	623	8 53	59	296	0 2	314	272	11 1	42
31	14.7	14 4	21.9	9.5	8 34	12.4	648	7 46	680	622	13 28	58	299	18 8	322	274	13 1	48
Mean	14.6	-	23.3	5.5	-	17.9	641	-	685	603	-	82.1	298	-	326	276	-	50.0
Mean *	15.1	-	20.5	11.6	-	8.9	649	-	686	628	-	57.4	297	-	310	282	-	27.2
Mean **	14.1	-	26.6	0.2	-	26.4	633	-	702	573	-	129.4	300	-	362	265	-	97.2
April	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	14.1	14 19	20.1	6.5	23 40	13.6	653	21 42	685	627	10 28	58	296	20 35	307	283	12 0	24
2	15.3	16 39	31.0	5.4	20 53	25.6	648	23 11	672	571	17 22	101	303	17 41	352	274	12 46	78
3 **	12.8	12 56	23.4	0.9	17 29	22.5	636	20 36	696	574	11 43	122	296	17 36	359	257	2 21	102
4 **	15.2	14 26	26.0	0.6	16 47	25.4	632	22 11	709	575	12 39	134	299	16 38	355	268	23 44	87
5	12.9	12 59	23.9	0.1	22 17	23.8	632	20 22	671	579	9 25	92	288	14 40	327	241	2 59	86
6 **	14.2	15 32	24.1	-1.1	19 5	25.2	631	18 28	696	574	12 40	122	296	18 29	341	268	24 0	73
7	13.9	12 31	25.1	3.5	2 36	21.6	633	23 53	689	596	11 40	93	295	17 26	335	261	0 17	74
8	13.2	14 46	22.6	4.4	19 15	18.2	638	22 11	704	605	8 10	99	296	18 46	336	277	12 0	59
9	14.6	12 34	22.5	6.6	19 10	15.9	638	17 13	664	583	12 11	81	302	18 30	341	278	12 4	63
10	14.3	14 4	26.2	6.7	6 20	19.5	641	2 18	676	608	10 21	68	298	21 6	324	273	2 44	51
11	14.0	13 58	22.5	7.4	22 40	15.1	645	16 41	669	616	11 30	53	293	18 37	311	272	12 3	39
12	13.2	13 30	23.6	-4.8	23 45	28.4	647	23 21	723	611	11 16	112	297	16 43	317	281	11 55	36
13 **	13.8	13 31	31.5	-3.7	0 2	35.2	637	0 5	708	551	12 32	157	295	17 44	331	260	0 24	71
14	14.4	13 39	22.6	8.4	6 2	14.2	643	21 24	676	600	11 17	76	298	19 8	317	281	12 2	36
15 *	14.3	13 21	23.4	7.7	7 23	15.7	646	16 6	674	613	10 27	61	296	17 28	321	262	12 17	59
16 *	14.0	13 21	20.9	8.5	22 57	12.4	651	22 31	682	627	11 39	55	297	6 58	309	273	12 22	36
17	13.5	14 5	23.1	7.2	7 34	15.9	650	19 3	673	621	12 20	52	292	17 30	310	273	12 22	37
18 **	14.6	16 14	36.6	-0.2	24 0	36.8	649	10 28	717	464	12 29	253	301	16 57	341	242	12 30	99
19	12.1	16 57	19.1	-0.2	0 0	19.3	642	0 4	709	616	9 50	93	296	18 48	316	272	1 17	44
20	10.8	15 40	23.7	-11.0	22 39	34.7	636	17 35	692	560	22 33	132	306	17 43	382	281	0 41	101
21	12.8	13 22	26.0	3.3	2 40	22.7	622	23 46	675	544	10 42	131	298	17 42	331	260	4 42	71
22	13.5	13 36	25.1	4.1	19 37	21.0	636	14 7	695	587	7 55	108	301	17 39	354	263	3 45	91
23	14.6	13 55	23.6	9.6	4 17	14.0	637	3 39	664	605	11 38	59	297	17 27	321	258	4 0	63
24	15.0	13 28	27.6	3.1	19 39	24.5	639	23 28	697	577	13 41	120	314	17 53	375	286	24 0	89
25	13.1	15 59	27.1	1.8	1 6	25.3	626	17 18	696	587	10 37	109	303	17 15	361	249	3 3	112
26	12.4	17 5	20.1	3.8	1 53	16.3	638	0 42	702	605	0 12	97	302	16 41	316	266	1 3	50
27	14.7	16 42	23.6	8.2	23 32	15.4	654	19 54	685	624	12 44	61	297	17 43	319	268	12 45	51
28 *	13.6	15 23	18.9	8.1	1 39	10.8	659	1 10	676	639	11 42	37	295	19 33	309	268	13 0	41
29	13.8	12 57	21.8	6.7	7 36	15.1	653	19 22	680	620	13 19	60	296	16 26	321	280	12 22	41
30 *	13.5	13 5	19.7	7.8	6 52	11.9	660	23 5	683	636	10 30	47	294	17 42	308	273	12 16	35
Mean	13.7	-	24.2	3.6	-	20.5	642	-	688	593	-	94.8	298	-	332	268	-	63.3
Mean *	13.9	-	20.6	7.7	-	12.9	654	-	680	628	-	51.6	296	-	311	272	-	39.0
Mean **	14.1	-	28.3	-0.7	-	29.0	637	-	705	548	-	157.6	298	-	345	259	-	86.4

* 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
May	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 **	8.9	15 59	21.7	-22.6	23 57	44.3	639	18 26	715	511	23 13	204	296	18 25	367	233	24 0	134
2 **	11.9	13 58	29.3	-22.4	0 0	51.7	618	20 56	742	555	0 20	187	311	17 25	368	228	0 6	140
3	13.5	14 49	24.1	-1.0	18 22	25.1	641	18 32	738	598	8 3	140	307	18 29	343	282	0 35	61
4	12.6	12 6	22.0	0.2	1 26	21.8	640	19 46	714	590	9 35	124	301	17 37	339	272	0 45	67
5	13.6	13 4	22.2	7.2	23 36	15.0	647	23 59	690	622	10 16	68	303	17 25	313	279	11 14	34
6	13.1	14 12	23.2	4.7	6 55	18.5	646	19 24	699	618	11 52	81	299	19 25	321	276	12 8	45
7	13.6	13 22	23.5	6.6	7 37	16.9	645	18 29	671	613	10 56	58	298	19 49	318	270	11 28	48
8 *	13.7	12 43	22.2	8.1	7 47	14.1	650	18 24	678	618	10 16	60	301	18 26	318	277	11 22	41
9 **	15.3	13 22	25.3	4.4	23 20	20.9	664	22 53	855	615	9 25	240	302	20 32	336	261	23 20	75
10 **	13.4	14 53	22.9	4.4	7 45	18.5	644	19 4	690	555	14 30	135	303	15 44	351	269	7 48	82
11	13.2	13 5	23.2	4.7	8 29	18.5	642	21 15	678	592	9 52	86	305	17 35	329	275	11 52	54
12	13.6	0 23	20.6	5.9	17 42	14.7	652	17 57	727	627	9 40	100	301	17 54	347	275	12 1	72
13 *	13.7	13 34	21.0	9.8	5 34	11.2	654	23 37	683	628	11 25	55	302	18 55	318	285	11 28	33
14	12.3	14 16	19.4	4.7	7 53	14.7	656	21 42	700	624	12 17	76	304	18 10	334	286	11 17	48
15	12.0	12 31	21.6	4.3	0 17	17.3	661	15 1	693	636	13 8	57	296	19 48	320	272	13 0	48
16	11.8	13 19	21.3	3.3	2 10	18.0	647	3 4	691	592	11 2	99	294	17 7	322	268	3 28	54
17	13.9	11 55	24.4	7.1	23 6	17.3	650	17 35	705	610	9 13	95	297	17 35	339	273	10 46	66
18	12.4	13 26	22.9	3.8	5 45	19.1	650	0 38	678	619	10 37	59	294	17 43	313	253	11 55	60
19	12.0	13 16	21.7	4.9	5 56	16.8	652	21 12	678	624	14 12	54	299	19 26	313	274	11 32	39
20 *	13.2	12 31	24.0	3.4	7 10	20.6	654	21 8	677	626	8 34	51	296	19 20	317	260	12 17	57
21 *	12.9	12 43	23.7	3.1	6 48	20.6	660	18 57	683	627	9 40	56	299	17 34	318	271	11 33	47
22 *	12.8	14 23	24.0	4.3	6 45	19.7	662	19 2	687	634	13 49	53	291	17 44	317	251	12 26	66
23	12.9	12 50	24.8	-4.0	20 55	28.8	654	19 2	729	598	11 35	131	295	20 43	337	258	12 14	79
24	13.4	14 59	20.8	7.5	7 54	13.3	655	17 18	708	625	9 12	83	303	17 19	327	274	1 30	53
25	13.0	13 59	22.4	4.8	24 0	17.6	657	18 52	705	611	12 21	94	296	18 52	316	263	12 22	53
26 **	13.2	16 27	30.9	4.5	0 6	26.4	662	15 25	738	575	21 33	163	306	19 18	361	271	24 0	90
27	10.4	14 20	18.7	-5.9	2 0	24.6	633	18 25	672	584	10 36	88	295	18 51	318	262	1 51	56
28	12.3	13 21	18.5	4.2	5 43	14.3	657	17 52	682	638	9 22	44	296	17 28	312	270	12 22	42
29	13.3	15 8	20.8	5.5	6 26	15.3	660	22 53	697	608	13 20	89	298	17 16	318	269	11 41	49
30	13.1	13 14	22.9	7.0	7 21	15.9	661	13 15	683	622	13 40	61	301	20 53	318	278	11 45	40
31	12.5	12 59	18.5	6.0	7 46	12.5	661	21 12	696	628	13 34	68	297	17 27	312	277	11 40	35
Mean	12.8	-	22.7	2.5	-	20.1	651	-	703	607	-	95.5	300	-	328	268	-	60.3
Mean *	13.3	-	23.0	5.7	-	17.2	656	-	682	627	-	55.0	298	-	318	269	-	48.8
Mean **	12.5	-	26.0	-6.3	-	32.4	645	-	748	562	-	185.8	304	-	357	252	-	104.2
June	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	13.3	15 38	23.0	6.2	7 34	16.8	667	20 8	699	625	16 17	74	298	21 36	317	278	10 7	39
2	12.2	13 12	21.9	5.3	8 2	16.6	654	17 7	693	618	12 0	75	298	18 40	324	283	10 18	41
3	12.6	12 23	20.8	4.0	0 39	16.8	655	0 32	704	622	8 28	82	296	18 51	311	280	11 52	31
4	13.7	13 20	21.6	6.6	7 55	15.0	665	21 52	702	637	9 19	65	300	17 20	322	282	10 59	40
5	14.3	13 54	25.3	6.6	7 23	18.7	668	20 24	701	644	13 56	57	297	17 27	319	273	13 4	46
6 **	13.5	16 9	20.8	4.9	7 26	15.9	660	5 14	700	572	13 10	128	305	17 49	334	279	10 28	55
7	12.5	12 44	20.1	5.2	8 45	14.9	658	16 15	691	611	13 21	80	302	18 36	318	278	12 46	40
8	12.9	15 57	21.3	5.9	8 46	15.4	662	15 56	729	619	10 29	110	294	17 45	331	270	3 51	61
9	12.9	13 33	20.6	5.1	7 3	15.5	660	14 59	718	616	10 3	102	296	18 12	317	270	11 5	47
10 *	13.9	12 50	22.9	7.5	8 28	15.4	666	18 38	699	625	13 16	74	296	18 37	311	270	12 19	41
11	13.4	14 54	21.8	6.1	7 23	15.7	665	22 11	694	631	16 32	63	298	18 27	324	270	11 46	54
12	12.4	14 53	19.2	4.7	6 3	14.5	659	18 25	694	618	9 42	76	298	20 54	317	278	11 52	39
13	12.2	13 32	21.4	0.9	6 46	20.5	658	20 0	690	613	13 56	77	299	7 0	312	272	11 50	40
14	11.8	14 30	19.4	-0.3	20 20	19.7	662	17 52	755	620	10 5	135	296	20 30	327	263	12 4	64
15	13.2	13 33	21.3	1.6	0 13	19.7	650	18 14	710	603	12 30	107	300	16 24	335	266	11 46	69
16	13.3	14 2	23.1	7.1	6 57	16.0	651	19 36	700	612	9 16	88	299	18 7	320	274	12 1	46
17 **	12.7	23 52	27.6	2.8	7 27	24.8	664	17 5	763	551	24 0	212	296	17 5	330	183	24 0	147
18 **	10.4	13 51	20.0	-6.5	6 24	26.5	631	23 17	700	543	0 2	157	286	17 21	333	144	0 5	189
19 **	13.6	4 43	20.9	9.4	7 35	11.5	646	16 4	716	596	4 34	120	302	16 6	344	251	5 6	93
20 *	12.8	14 5	20.5	5.2	8 13	15.3	655	23 4	694	629	10 26	65	303	16 19	320	278	12 40	42
21	12.6	14 25	21.2	4.7	9 18	16.5	658	24 0	680	616	12 19	64	303	17 26	328	278	11 33	50
22 *	12.3	14 1	21.4	4.6	7 46	16.8	659	18 0	690	611	10 19	79	304	18 12	323	281	12 13	42
23 *	12.0	15 43	19.6	3.5	5 49	16.1	659	20 2	690	615	10 52	75	300	18 38	315	284	11 58	31
24 *	13.3	14 23	21.5	6.0	7 29	15.5	661	18 34	694	614	11 26	80	299	19 29	317	269	12 20	48
25 **	13.2	15 51	29.2	3.3	6 40	25.9	662	13 50	722	606	10 25	116	310	18 53	365	274	11 28	91
26	11.5	14 59	16.8	5.2	4 48	11.6	661	20 10	695	621	12 21	74	308	18 37	326	295	2 17	31
27	13.0	16 14	21.0	5.9	6 52	15.1	666	16 12	742	632	7 18	110	303	16 12	321	287	11 28	34
28	13.3	14 9	20.7	6.3	8 41	14.4	671	23 0	701	627	13 8	74	300	19 42	314	282	13 1	32
29	12.0	14 59	20.2	5.1	8 29	15.1	663	18 36	701	618	13 2	83	298	20 38	319	273	11 43	46
30	11.9	15 42	18.6	7.9	20 13	10.7	663	19 54	697	637	12 24	60	300	19 37	321	279	11 46	42
Mean	12.8	-	21.5	4.7	-	16.8	659	-	705	613	-	92.1	299	-	324	268	-	55.7
Mean *	12.8	-	21.2	5.4	-	15.8	660	-	693	619	-	74.6	300	-	317	276	-	40.8
Mean **	12.7	-	23.7	2.8	-	20.9	652	-	720	573	-	146.6	300	-	341	226	-	115.0

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
July	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	11.7	13 46	21.2	-2.8	23 57	24.0	661	23 36	735	642	11 58	93	304	18 13	348	179	24 0	169
2 **	12.5	4 28	28.4	-8.4	1 48	36.8	634	18 30	702	517	3 38	185	274	17 56	340	109	1 17	231
3 **	11.2	14 12	22.2	1.8	7 43	20.4	647	17 44	701	594	11 12	107	314	17 53	349	294	11 41	55
4	11.4	14 32	18.6	3.1	8 10	15.5	647	23 8	690	609	9 40	81	306	17 53	329	284	12 20	45
5	12.8	14 6	19.7	5.0	8 41	14.7	650	0 0	680	613	12 26	67	304	18 42	323	277	11 41	46
6	12.7	14 3	21.6	5.8	7 9	15.8	658	16 14	721	620	11 39	101	307	18 10	323	282	11 41	41
7	10.7	13 48	17.6	4.3	7 4	13.3	658	16 19	699	621	11 35	78	303	17 35	322	275	11 32	47
8	11.5	13 30	19.4	3.9	6 51	15.5	661	17 44	704	626	9 13	78	301	19 14	321	279	11 47	42
9	12.3	15 10	21.7	2.9	5 49	18.8	662	17 55	728	623	10 31	105	300	19 20	332	280	11 30	52
10 *	10.7	16 39	17.6	3.6	7 9	14.0	656	19 20	699	631	12 32	68	304	19 36	323	286	12 24	37
11	12.7	14 30	21.2	5.5	6 36	15.7	660	18 44	704	615	10 20	89	306	18 36	328	284	12 35	44
12 *	11.9	13 59	19.8	6.0	6 52	13.8	659	17 32	690	625	10 2	65	300	17 44	321	279	12 21	42
13 *	11.6	14 42	19.9	4.4	2 10	15.5	660	18 38	682	620	10 40	62	296	18 37	315	272	11 53	43
14 *	12.2	13 46	20.1	5.3	7 48	14.8	664	23 35	691	632	11 24	59	298	18 34	312	277	12 1	35
15	11.2	16 20	19.2	0.9	22 37	18.3	662	20 19	703	625	22 35	78	299	20 2	321	281	12 21	40
16	13.0	13 54	22.3	3.1	5 15	19.2	661	17 50	725	580	11 33	145	305	19 30	332	283	11 15	49
17	12.7	13 51	22.9	1.0	7 34	21.9	667	18 30	713	603	9 28	110	306	18 31	345	280	13 32	65
18	13.2	12 55	22.4	5.2	7 40	17.2	659	15 8	715	620	8 40	95	308	17 50	343	279	11 54	64
19	11.8	14 40	17.8	5.0	7 46	12.8	658	20 23	700	605	9 26	95	302	18 29	322	274	12 13	48
20	11.8	14 52	19.4	3.9	8 46	15.5	660	23 38	685	614	11 52	71	297	17 38	317	267	11 25	50
21	12.3	13 50	19.5	5.4	7 28	14.1	663	18 51	687	630	7 58	57	298	16 31	317	273	12 42	44
22	12.9	17 3	20.1	4.2	23 54	15.9	659	22 26	711	583	8 30	128	297	19 9	333	273	13 26	60
23	12.0	17 11	19.3	3.3	2 15	16.0	656	1 41	691	602	8 49	89	297	19 20	321	247	2 11	74
24 *	12.0	14 23	17.7	6.2	8 10	11.5	660	15 40	684	623	10 16	61	299	17 36	316	280	11 47	36
25	12.0	14 35	20.8	5.9	8 12	14.9	665	17 22	696	628	11 18	68	303	18 43	335	285	12 53	50
26 **	11.8	15 16	19.6	5.6	16 3	14.0	658	23 54	720	604	13 46	116	304	16 12	353	280	11 12	73
27	11.9	13 23	17.8	4.7	6 45	13.1	660	0 0	715	597	9 20	118	296	15 44	320	275	1 13	45
28 **	11.0	3 10	18.9	0.1	19 24	18.8	663	4 21	728	592	10 48	136	301	17 39	351	265	3 39	86
29	11.3	13 34	18.1	5.5	7 14	12.6	654	18 35	683	620	8 53	63	299	19 35	317	279	11 10	38
30	11.1	13 45	18.7	5.0	7 47	13.7	656	19 5	693	622	10 23	71	304	19 7	331	284	12 48	47
31 **	11.2	14 54	24.8	2.0	4 52	22.8	648	23 25	707	607	8 21	100	317	17 28	409	275	10 5	134
Mean	11.9	-	20.3	3.5	-	16.8	658	-	703	611	-	91.6	302	-	331	269	-	62.3
Mean *	11.7	-	19.0	5.1	-	13.9	660	-	689	626	-	63.0	299	-	317	279	-	38.6
Mean **	11.6	-	22.8	0.2	-	22.6	650	-	712	583	-	128.8	302	-	360	245	-	115.8
August	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 **	11.9	12 36	22.9	2.9	6 46	20.0	656	17 25	765	583	23 53	182	301	17 22	348	253	23 54	95
2	10.7	14 28	19.8	2.9	5 49	16.9	646	4 5	700	589	0 0	111	297	18 9	329	260	0 0	69
3 *	12.2	12 23	19.3	6.2	5 17	13.1	652	17 45	680	609	10 16	71	301	19 36	312	290	10 11	22
4	11.4	14 28	22.3	2.9	7 18	19.4	658	18 30	700	631	9 15	69	298	18 39	323	270	12 30	53
5	11.5	13 3	21.6	3.5	5 52	18.1	658	1 55	712	627	9 32	85	296	17 36	322	273	11 40	49
6	12.6	13 32	22.7	4.8	8 5	17.9	661	19 11	687	628	9 15	59	303	17 47	330	276	11 57	54
7	10.9	14 39	18.1	4.2	8 40	13.9	659	18 1	690	623	11 15	67	298	19 16	331	279	10 58	52
8 *	11.0	13 59	19.3	4.3	8 8	15.0	658	18 18	688	623	9 40	65	301	19 36	318	277	12 58	41
9	11.3	13 2	18.6	5.5	21 36	13.1	652	19 54	689	595	11 27	94	300	19 38	318	277	13 26	41
10 *	11.2	13 3	20.0	5.6	5 29	14.4	660	22 22	691	621	13 27	70	299	5 25	317	274	13 26	43
11	12.9	13 48	21.4	5.6	6 34	15.8	664	21 10	697	620	13 15	77	300	18 37	327	278	10 1	49
12	11.4	13 47	22.2	3.7	8 29	18.5	654	20 43	702	605	10 45	97	302	17 37	335	285	0 12	50
13 **	12.4	13 22	21.2	-3.4	19 4	24.6	647	19 12	727	593	13 48	134	309	18 14	384	265	5 24	119
14	10.4	13 32	17.6	2.9	21 26	14.7	648	20 44	680	607	11 31	73	307	17 37	323	281	11 11	42
15	11.5	2 9	18.6	6.1	5 6	12.5	658	20 14	751	624	7 23	127	307	20 15	334	291	2 53	43
16	10.6	11 14	21.6	3.8	8 2	17.8	651	6 28	689	576	10 21	113	303	16 7	324	281	10 36	43
17	11.2	13 38	20.4	4.8	6 59	15.6	652	16 7	700	615	17 19	85	306	19 29	335	277	12 23	58
18 *	11.1	12 51	19.3	4.5	7 48	14.8	654	20 18	678	627	10 20	51	303	16 37	316	286	11 39	30
19	12.3	14 32	19.6	5.3	7 29	14.3	657	21 41	687	616	9 51	71	304	17 58	339	284	12 5	55
20 **	11.1	6 58	22.0	-4.9	20 57	26.9	653	1 16	712	596	11 28	116	300	19 37	347	263	3 30	84
21 **	9.7	1 34	22.6	-0.9	17 10	23.5	642	17 13	720	573	10 23	147	312	17 1	392	246	1 54	146
22	10.0	14 31	17.4	0.9	1 32	16.5	637	2 35	691	578	9 41	113	299	15 20	341	252	1 13	89
23	10.4	13 33	19.4	-6.3	22 52	25.7	650	23 2	744	613	17 10	131	308	17 27	338	278	23 26	60
24	11.1	12 50	19.3	2.4	19 2	16.9	644	22 6	703	582	10 24	121	304	19 17	330	275	4 25	55
25 **	11.0	4 28	19.0	-6.0	19 37	25.0	647	19 46	734	577	8 47	157	303	17 54	347	270	5 17	77
26	11.3	1 34	18.5	4.0	7 52	14.5	647	22 37	737	570	8 25	167	303	19 19	327	279	23 30	48
27	10.3	14 31	18.9	-6.3	20 59	25.2	649	21 8	726	614	15 16	112	307	17 30	344	284	11 10	60
28	11.5	11 31	19.2	1.2	20 50	18.0	656	21 2	719	615	9 19	104	306	17 36	323	287	11 41	36
29	11.1	12 38	20.2	5.5	7 1	14.7	652	21 53	687	613	9 46	74	307	16 19	338	287	0 46	51
30 *	11.3	12 35	21.0	6.1	6 50	14.9	656	17 56	685	631	9 38	54	309	17 28	334	291	12 49	43
31	11.2	12 3	21.3	2.7	22 58	18.6	658	23 2	704	622	7 53	82	307	15 38	339	282	12 25	57
Mean	11.2	-	20.2	2.4	-	17.8	653	-	706	606	-	99.3	303	-	334	276	-	58.5
Mean *	11.4	-	19.8	5.3	-	14.4	656	-	684	622	-	62.2	303	-	319	284	-	35.8
Mean **	11.2	-	21.5	-2.5	-	24.0	649	-	732	584	-	147.2	305	-	364	259	-	104.2

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
September	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	10.7	13 19	18.1	5.8	6 25	12.3	653	21 38	690	613	9 16	77	303	6 43	314	291	11 32	23
2 *	10.9	13 3	19.3	4.6	7 22	14.7	654	22 41	682	611	9 50	71	303	15 54	314	293	12 47	21
3 *	11.5	13 7	23.5	3.9	7 24	19.6	658	23 25	689	621	11 21	68	302	16 20	317	286	10 58	31
4 *	11.5	12 47	22.5	4.4	6 24	18.1	660	19 4	685	619	10 18	66	302	16 21	315	284	10 55	31
5	11.3	12 46	21.6	4.8	7 47	16.8	660	20 48	731	619	9 20	112	306	20 50	321	285	11 16	36
6	10.6	13 32	20.8	0.6	7 56	20.2	661	19 14	698	618	10 25	80	304	20 45	324	284	12 4	40
7	11.2	13 33	21.1	2.1	19 53	19.0	656	16 58	683	628	8 54	55	304	19 37	327	279	11 42	48
8	11.4	13 43	20.5	5.2	7 42	15.3	659	15 36	700	617	9 50	83	301	19 10	315	275	12 13	40
9	11.5	12 32	22.7	5.5	22 38	17.2	651	20 57	677	608	10 25	69	304	19 39	328	285	11 42	43
10	12.3	13 7	20.9	3.0	0 50	17.9	643	4 57	691	592	10 59	99	311	16 34	352	280	5 18	72
11	10.1	12 48	19.5	-9.6	21 37	29.1	645	21 43	735	601	21 1	134	313	19 20	364	277	22 0	87
12	9.8	23 58	21.4	-1.8	23 27	23.2	632	20 26	670	585	15 16	85	311	16 30	341	280	2 22	61
13	9.8	0 0	21.1	-5.6	23 11	26.7	637	5 6	671	574	22 45	97	309	18 37	366	253	0 17	113
14	10.2	12 32	20.2	3.2	6 40	17.0	644	1 49	684	600	8 19	84	307	17 26	334	279	4 43	55
15	12.1	13 36	21.5	4.1	21 53	17.4	640	1 26	697	583	8 7	114	315	15 39	360	282	2 2	78
16 **	11.0	6 1	21.9	-15.2	21 28	37.1	624	21 3	714	486	9 34	228	319	16 11	427	271	24 0	156
17	10.4	13 35	20.5	-3.7	22 4	24.2	632	22 16	740	569	9 10	171	315	15 29	364	267	0 22	97
18	10.6	12 48	17.9	-7.3	18 5	25.2	650	18 12	693	617	9 40	76	309	18 10	350	279	2 57	71
19	10.6	17 35	29.6	-7.2	19 10	36.8	642	16 51	763	531	17 37	232	328	17 41	463	284	11 54	179
20 **	10.3	10 48	22.8	-25.0	18 33	47.8	609	16 52	715	494	9 39	221	322	16 43	405	252	24 0	153
21 **	10.5	4 59	23.6	-5.5	22 47	29.1	618	22 53	726	491	9 45	235	313	16 19	386	240	0 7	146
22 **	9.7	22 57	24.4	-10.2	19 29	34.6	624	18 38	726	534	11 50	192	309	15 46	369	262	1 46	107
23	9.1	3 9	20.5	-11.0	20 41	31.5	637	20 51	737	586	11 10	151	309	15 37	350	253	3 31	97
24	9.8	5 51	18.5	2.5	20 17	16.0	636	20 36	689	575	10 40	114	315	13 46	353	275	1 22	78
25 **	9.6	22 16	59.5	-27.8	22 58	87.3	613	18 1	777	334	22 21	443	339	16 22	524	188	22 19	336
26	4.2	12 39	14.6	-43.4	0 57	58.0	602	3 47	675	322	0 49	353	302	16 46	349	130	0 50	219
27	7.9	13 22	19.2	-8.9	2 52	28.1	643	7 50	687	576	11 40	111	316	0 9	339	279	3 55	60
28	9.6	14 12	15.8	-1.5	0 19	17.3	642	21 27	663	623	10 35	40	313	22 35	324	292	1 33	32
29	9.3	15 6	21.2	-2.5	16 50	23.7	646	16 57	695	607	15 12	88	318	16 40	380	295	11 51	85
30 *	10.0	13 18	16.8	3.4	0 13	13.4	643	22 36	667	616	11 19	51	313	15 41	327	296	12 8	31
Mean	10.2	-	22.1	-4.4	-	26.5	640	-	702	568	-	133.3	311	-	357	269	-	87.5
Mean *	10.9	-	20.0	4.4	-	15.6	654	-	683	616	-	66.6	305	-	317	290	-	27.4
Mean **	10.2	-	30.4	-16.7	-	47.2	618	-	732	468	-	263.8	320	-	422	243	-	179.6
October	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	10.3	13 25	16.1	5.7	8 47	10.4	654	16 44	676	632	10 37	44	313	16 46	325	292	12 9	33
2	9.6	12 23	15.8	3.2	2 32	12.6	652	21 28	690	623	9 9	67	313	17 27	326	301	7 11	25
3	10.4	12 13	18.7	5.0	20 57	13.7	651	20 46	680	620	10 47	60	312	18 5	321	300	11 22	21
4 *	10.3	13 32	16.9	5.5	8 47	11.4	655	19 54	680	622	10 16	58	312	18 35	324	299	10 51	25
5	10.7	13 0	16.7	6.2	8 20	10.5	657	14 42	669	633	10 34	36	312	19 12	322	295	12 52	27
6 *	10.6	13 50	16.1	6.6	1 54	9.5	660	18 29	677	629	10 32	48	308	7 14	320	287	13 6	33
7	9.5	14 52	24.0	-11.7	20 12	35.7	646	6 48	691	577	19 54	114	316	20 1	400	289	11 32	111
8 **	10.3	13 37	18.6	0.3	3 9	18.3	632	2 51	730	554	8 30	176	322	16 45	369	266	3 13	103
9	10.2	13 57	17.8	-12.5	21 34	30.3	634	21 43	741	577	14 14	164	317	15 1	338	294	0 10	44
10	10.1	13 59	19.6	-5.1	17 36	24.7	635	23 23	671	565	11 14	106	318	17 7	360	294	3 11	66
11	10.6	14 7	17.3	5.8	1 47	11.5	637	2 4	660	594	12 8	66	320	16 28	352	290	1 10	62
12	11.4	13 39	18.9	6.7	20 53	12.2	652	5 51	672	607	11 19	65	314	17 36	325	299	11 17	26
13	9.2	11 33	19.5	-3.5	22 16	23.0	648	23 26	699	609	12 15	90	311	20 38	334	265	23 49	69
14	9.2	13 20	16.0	-5.3	0 22	21.3	639	19 11	702	610	9 19	92	313	19 10	342	267	0 0	75
15	10.2	13 30	16.1	2.2	23 31	13.9	650	23 34	706	618	11 19	88	312	16 8	324	298	11 18	26
16	10.1	12 11	20.4	-3.8	22 47	24.2	646	22 59	697	609	19 58	88	313	20 18	341	292	23 56	49
17 **	9.7	5 55	21.7	-6.9	19 31	28.6	628	19 34	811	536	11 32	275	315	15 54	398	264	1 54	134
18 **	9.7	5 53	18.7	-10.4	17 4	29.1	635	17 13	712	576	10 17	136	317	17 3	364	289	0 49	75
19 **	7.6	3 9	15.3	-11.6	18 22	26.9	635	18 26	712	578	12 40	134	311	18 26	358	268	3 40	90
20	9.1	12 40	16.0	-5.3	0 3	21.3	638	20 10	704	599	10 51	105	311	20 9	337	267	1 4	70
21	9.6	13 40	15.2	3.4	19 36	11.8	647	19 46	686	610	10 22	76	312	17 0	328	301	5 4	27
22	10.0	14 40	19.2	-2.0	18 13	21.2	646	22 5	685	585	15 59	100	316	16 11	355	294	3 33	61
23	10.1	12 54	15.1	4.4	22 16	10.7	646	0 24	672	619	12 58	53	314	15 37	336	300	1 9	36
24 *	10.5	13 14	15.3	6.1	0 0	9.2	657	19 38	677	643	0 49	34	311	19 36	323	297	10 4	26
25 *	10.7	12 27	14.4	7.9	0 16	6.5	663	19 47	680	646	12 40	34	308	0 24	319	297	10 33	22
26	10.3	11 41	18.7	-11.8	22 4	30.5	661	21 27	685	602	21 59	83	306	21 25	323	288	11 50	35
27	9.8	13 1	18.1	2.6	3 17	15.5	655	5 8	681	637	11 10	44	307	15 36	316	297	10 50	19
28 **	12.4	17 10	55.0	-27.9	19 49	82.9	622	13 31	716	171	19 40	545	360	17 46	715	289	13 26	426
29	9.4	13 0	13.5	5.9	8 2	7.6	608	22 5	636	561	0 14	75	338	14 41	348	329	10 28	19
30	9.8	12 58	15.2	5.3	8 55	9.9	630	19 0	650	590	11 0	60	330	14 47	340	321	11 0	19
31 *	9.7	13 45	14.7	5.4	8 56	9.3	646	19 49	663	622	11 19	41	321	16 37	332	310	11 0	22
Mean	10.0	-	18.5	-1.0	-	19.5	644	-	691	589	-	101.8	316	-	352	292	-	60.5
Mean *	10.4	-	15.5	6.3	-	9.2	656	-	675	632	-	43.0	312	-	324	298	-	25.6
Mean **	9.9	-	25.9	-11.3	-	37.2	630	-	736	483	-	253.2	325	-	441	275	-	165.6

* International Quiet Day. ** International Disturbed Day.

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

Date	DECLINATION WEST						HORIZONTAL INTENSITY						VERTICAL INTENSITY					
	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range	Mean Daily Value	Maximum		Minimum		Range
November	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1 *	10.1	13 10	15.8	5.7	22 46	10.1	649	23 35	668	620	11 20	48	318	23 0	327	308	11 0	19
2	9.1	14 0	16.4	0.6	22 52	15.8	648	4 20	685	615	14 34	70	317	17 27	337	294	10 30	43
3 **	7.8	13 8	16.2	-5.0	22 9	21.2	645	21 22	714	587	22 2	127	311	20 33	336	290	3 48	46
4	9.0	6 59	20.7	-6.7	0 36	27.4	640	22 31	696	587	15 8	109	314	15 56	353	286	3 20	67
5	9.2	14 0	13.4	2.2	0 55	11.2	647	22 55	698	614	11 13	84	317	19 45	337	302	11 0	35
6	11.0	14 41	19.2	-10.2	19 20	29.4	638	19 30	748	599	19 3	149	327	19 28	375	306	0 1	69
7	9.1	15 29	14.3	-2.5	2 56	16.8	640	2 34	688	600	16 9	88	321	16 28	344	286	2 52	58
8	9.8	12 17	15.1	3.4	2 32	11.7	657	2 10	673	642	20 51	31	318	20 27	333	303	2 24	30
9	11.7	17 0	19.3	6.0	24 0	13.3	659	10 58	683	619	17 32	64	317	18 32	336	299	7 17	37
10 *	9.8	13 25	13.0	6.0	0 6	7.0	661	9 54	677	648	14 27	29	315	0 12	324	306	10 22	18
11	9.7	13 22	14.4	0.6	21 37	13.8	654	19 51	670	634	20 52	36	315	22 7	326	309	10 2	17
12	10.5	14 14	16.9	2.4	2 4	14.5	643	0 32	703	571	15 20	132	320	15 44	361	285	1 39	76
13 **	9.5	16 20	23.4	-9.5	20 0	32.9	627	23 15	684	534	19 52	150	328	17 20	392	302	8 57	90
14 **	7.3	21 12	24.3	-14.1	20 16	38.4	631	18 1	691	584	21 23	107	318	17 20	347	267	1 10	80
15 **	8.6	13 11	16.0	-0.9	0 2	16.9	639	0 23	683	595	10 40	88	318	17 16	342	297	0 50	45
16	9.2	15 5	13.5	3.3	0 33	10.2	649	0 4	675	618	12 39	57	316	16 45	334	304	0 21	30
17	8.9	13 22	14.4	-15.9	20 11	30.3	654	6 41	683	604	21 3	79	313	20 20	343	301	10 25	42
18 *	9.6	11 40	13.1	5.0	20 29	8.1	647	22 49	661	624	1 45	37	316	16 51	324	304	10 45	20
19 *	9.4	11 59	13.9	1.4	22 57	12.5	660	23 19	680	648	16 39	32	315	17 28	326	302	10 55	24
20	10.0	16 50	18.1	0.5	20 18	17.6	659	22 49	693	634	23 33	59	317	20 28	339	305	11 4	34
21	9.0	11 50	12.5	0.4	23 56	12.1	661	18 12	680	641	1 48	39	313	20 47	322	304	12 1	18
22	9.4	17 58	15.1	0.4	0 50	14.7	661	16 50	679	614	18 29	65	313	19 36	336	297	11 22	39
23	9.4	14 21	16.1	-3.9	20 36	20.0	652	18 58	675	610	15 47	65	318	20 45	342	307	11 4	35
24	9.9	15 23	17.9	5.1	15 43	12.8	653	20 24	675	603	15 25	72	319	15 44	340	307	6 39	33
25	10.1	14 53	17.3	0.5	22 23	16.8	654	21 41	710	609	15 20	101	315	21 14	330	298	22 2	32
26	9.8	12 17	15.2	-0.4	19 9	15.6	653	7 56	668	619	14 3	49	317	19 29	331	304	9 22	27
27 *	9.4	13 7	14.1	5.9	1 21	8.2	661	22 39	681	646	10 17	35	313	0 10	323	305	11 59	18
28	8.4	12 54	15.0	-3.6	22 0	18.6	658	22 22	703	616	19 7	87	312	19 27	335	290	23 8	45
29 **	8.8	13 58	14.2	-1.6	20 55	15.8	650	23 1	679	596	16 11	83	314	16 26	345	294	2 44	51
30	9.2	15 59	14.6	-1.0	0 4	15.6	650	0 14	675	610	14 21	65	314	18 31	336	298	11 2	38
Mean	9.4	-	16.1	-0.9	-	17.0	650	-	686	611	-	74.6	317	-	339	299	-	40.5
Mean *	9.7	-	14.0	4.8	-	9.2	656	-	673	637	-	36.2	315	-	325	305	-	19.8
Mean **	8.4	-	18.8	-6.2	-	25.0	638	-	690	579	-	111.0	318	-	352	290	-	62.4
December	9°+ ′	U.T. h m	9°+ ′	9°+ ′	U.T. h m	′	18000 γ +	U.T. h m	18000 γ +	18000 γ +	U.T. h m	γ	43000 γ +	U.T. h m	43000 γ +	43000 γ +	U.T. h m	γ
1	9.2	12 35	15.1	1.2	23 10	13.9	653	7 51	676	627	11 35	49	314	16 45	331	300	10 14	31
2	9.1	14 20	15.5	1.3	22 7	14.2	645	7 56	675	603	18 59	72	318	19 10	346	299	7 0	47
3	9.7	15 53	16.6	-1.0	22 9	17.6	653	1 14	681	632	20 40	49	316	18 50	336	298	2 34	38
4	9.1	14 32	17.1	-9.6	21 4	26.7	656	21 10	701	614	14 38	87	316	18 31	342	301	2 15	41
5	9.5	12 56	14.0	4.8	21 33	9.2	657	22 22	686	636	13 36	50	315	17 43	327	303	10 47	24
6 *	9.6	13 27	12.9	6.0	20 29	6.9	664	18 39	679	646	20 17	33	310	20 35	321	299	11 0	22
7	9.6	13 48	14.5	0.4	21 2	14.1	663	7 8	684	627	17 44	57	312	18 39	332	302	14 10	30
8 **	8.0	1 30	24.2	-26.3	20 8	50.5	645	1 31	709	570	20 5	139	316	20 11	373	270	2 4	103
9 **	8.9	13 2	19.2	-9.2	18 40	28.4	636	18 17	702	580	15 57	122	321	17 35	363	293	3 40	70
10	9.0	13 3	15.0	-6.0	16 50	21.0	646	22 31	713	599	16 47	114	321	16 53	350	298	22 51	52
11	8.6	8 44	20.8	-0.7	1 21	21.5	645	23 7	707	584	15 41	123	315	16 26	349	296	0 46	53
12	9.0	13 22	12.7	4.1	21 10	8.6	656	7 5	677	625	13 46	52	316	14 43	324	307	10 15	17
13 *	9.2	12 27	12.4	5.9	21 28	6.5	660	5 45	684	642	13 5	42	315	16 44	327	304	7 48	23
14	8.6	13 13	13.7	-3.3	22 46	17.0	665	21 52	694	630	21 26	64	312	21 50	333	298	10 40	35
15	8.1	14 24	15.4	-6.1	19 51	21.5	648	18 12	680	577	19 28	103	318	20 8	343	302	10 1	41
16	9.2	13 46	12.7	3.5	22 3	9.2	661	21 52	682	646	10 33	36	313	0 1	324	306	9 57	18
17	9.1	17 48	16.1	-2.2	23 10	18.3	657	8 8	682	608	17 11	74	320	18 42	355	302	11 6	53
18	8.8	13 20	15.1	-4.4	21 56	19.5	654	8 21	681	619	21 46	62	317	22 9	333	302	10 13	31
19	8.3	13 5	14.8	-2.3	23 32	17.1	658	23 11	704	613	13 48	91	318	14 45	337	303	23 31	34
20	9.0	3 8	13.9	3.6	1 36	10.3	654	7 17	675	611	9 31	64	314	18 31	329	301	3 38	28
21	8.5	14 14	12.7	-2.2	22 48	14.9	665	22 58	701	645	23 55	56	312	20 14	319	300	12 9	19
22 **	7.0	16 54	16.8	-8.6	20 46	25.4	639	20 53	683	580	19 17	103	325	17 45	373	300	4 15	73
23	8.3	12 48	12.7	-2.8	2 29	15.5	646	6 35	664	616	11 5	48	317	0 17	329	306	2 10	23
24 *	8.7	13 25	11.5	5.8	20 37	5.7	659	17 55	671	645	2 29	26	316	11 13	325	308	12 23	17
25 *	8.8	13 18	11.9	5.6	22 18	6.3	660	22 29	672	647	10 32	25	313	16 39	318	308	11 10	10
26 *	9.1	13 23	12.1	6.9	9 39	5.2	666	22 38	675	655	10 48	20	310	18 19	318	303	23 27	15
27	9.1	14 14	12.9	2.2	23 18	10.7	676	23 4	733	655	22 9	78	306	21 39	316	287	23 10	29
28 **	9.9	4 41	31.1	-5.9	20 15	37.0	618	5 53	742	534	13 2	208	318	14 37	389	228	6 18	161
29	8.1	12 7	12.4	3.9	0 47	8.5	641	19 8	659	607	14 19	52	319	15 6	334	305	0 43	29
30	8.5	12 59	11.7	2.3	23 56	9.4	655	21 14	676	626	22 36	50	317	14 5	329	308	21 27	21
31 **	7.0	10 6	15.0	-4.1	21 4	19.1	644	20 40	718	579	16 22	139	323	17 35	351	298	9 11	53
Mean	8.8	-	15.2	-1.2	-	16.4	653	-	689	615	-	73.8	316	-	338	298	-	40.0
Mean *	9.1	-	12.2	6.0	-	6.1	661	-	676	647	-	29.2	313	-	322	304	-	17.4
Mean **	8.2	-	21.3	-10.8	-	32.1	636	-	711	569	-	142.2	321	-	370	278	-	92.0

* International Quiet Day. ** International Disturbed Day.

TABLE IV(A). - THREE-HOUR-RANGE INDICES "K" FOR THE YEAR 1951. (SEE INTRODUCTION PAGE XII).

Date	January		February		March		April		May		June	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3233 3333	23	4432 3244	26	4433 3311	22	2122 1123	14	4344 3466	34	3332 4443	26
2	3333 4353	27	2221 1212	13	0113 3313	15	3332 3544	27	6244 5566	38	1323 3443	23
3	3423 3233	23	1112 1212	11	2232 2211	15	4334 4554	32	4133 3555	29	4222 3222	19
4	2212 1222	14	0023 3332	16	0232 2114	15	4443 4534	31	5334 4453	31	1123 3333	19
5	1122 2344	19	1233 4344	24	1132 2211	13	4435 4344	31	1132 2224	17	3322 3332	21
6	1102 2230	11	5544 2322	27	1353 4333	25	3433 4455	31	4332 2342	23	2355 4321	25
7	0111 2212	10	3221 2333	19	3334 5455	32	5433 3444	30	2221 2332	17	2332 4232	21
8	2022 3321	15	3122 2564	25	3235 4555	32	4332 3344	26	0021 2331	12	3322 4533	25
9	1222 2111	12	2333 4445	28	4333 3344	27	3333 4343	26	1233 3447	27	4223 4501	21
10	1111 1544	18	4343 3345	29	4443 4354	31	4233 3243	24	3444 6542	32	0013 4331	15
11	5132 2344	24	4323 3445	28	4333 3453	28	3222 3314	20	3233 4333	24	3323 3433	24
12	3333 3332	23	5543 3464	34	4334 4353	29	4233 3335	26	4332 3551	26	3333 3333	24
13	2332 2243	21	3333 3344	26	2334 4466	32	5434 5435	33	1122 1223	14	3233 4223	22
14	3322 3333	22	2233 3243	22	4433 4463	31	4333 3333	25	3323 1344	23	1113 1554	21
15	4322 3344	25	1123 2223	16	5433 3321	24	2122 3332	18	4323 3433	25	4333 4433	27
16	4123 4445	27	0122 1221	11	0234 4444	25	3112 1213	14	4423 3333	25	3233 3333	23
17	4322 1211	16	0021 2233	13	2244 4433	26	4222 3321	19	4433 4443	29	2222 1546	24
18	1112 3323	16	3233 2342	22	3334 3334	26	1146 7655	35	4324 3323	24	5454 3424	31
19	3231 3344	23	1223 3333	20	3333 2121	18	5333 3314	25	3222 4223	20	3544 3531	28
20	4212 2211	15	3112 2211	13	1123 3311	15	2332 3455	27	2222 2222	16	3112 2114	15
21	1023 4445	23	2222 3333	20	1122 3134	17	5434 4313	27	1212 1112	11	2334 3312	21
22	4444 5466	37	4444 5456	36	4324 4555	32	4434 4443	30	3211 3221	15	2223 3332	20
23	4234 3354	28	5455 4566	40	3323 3355	27	3432 3212	20	3224 4355	28	3231 2222	17
24	1222 3132	16	4434 3644	32	3233 3354	26	1344 5454	30	4323 3433	25	2123 3233	19
25	1212 3133	16	3223 2335	23	3424 3313	23	4433 3553	30	2233 3333	22	2444 5544	32
26	0113 2444	19	2223 4442	23	3133 3344	24	5212 2320	17	3323 4555	30	3333 3232	22
27	3332 3333	23	6433 4555	35	3322 3333	22	0123 3333	18	5423 2222	22	2332 2523	22
28	3333 3354	27	5555 4434	35	3111 2221	13	3123 2221	16	3322 2210	15	3333 3323	23
29	1333 2333	21			1344 4344	27	3322 3331	20	0143 3324	20	3222 3342	21
30	3233 2334	23			4213 3222	19	1122 2111	11	1134 4323	21	3333 3331	22
31	4554 4445	35			1133 2331	17			2313 3233	20		

TABLE IV(A). - THREE-HOUR-RANGE INDICES "K" FOR THE YEAR 1951. (SEE INTRODUCTION PAGE XII).

Date	July		August		September		October		November		December	
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum
1	3223 3355	26	4223 3666	32	4323 3313	22	2212 1322	15	1022 1233	14	3223 3333	22
2	6655 3544	38	5432 3333	26	2223 2222	17	3333 2324	23	3333 3333	24	3332 2333	22
3	3433 4443	28	2123 3222	17	3233 3113	19	2212 3133	17	3434 4246	30	4212 2234	20
4	3433 3334	26	3322 4344	25	2333 3323	22	1123 1232	15	4543 4434	31	3333 4455	30
5	3333 3322	22	4223 3432	23	3133 3244	23	3011 1122	11	3323 2234	22	3313 3323	21
6	1113 3432	18	3133 3333	22	3243 3343	25	2112 1100	8	3333 3364	28	1112 1131	11
7	2122 2323	17	1323 2333	20	3123 3342	21	1123 3565	26	4444 2333	27	2123 3444	23
8	3223 2333	21	2223 2223	18	1133 3433	21	6554 5444	37	3323 2232	20	6345 4565	38
9	3422 3542	25	2223 3333	21	3223 4433	24	4334 5335	30	1333 3433	23	3434 5553	32
10	3132 3331	19	2222 3323	19	4444 4332	28	4335 3555	33	2122 2111	12	1344 3545	29
11	1133 3332	19	2233 4333	23	3333 3446	29	4234 3330	22	0011 3134	13	4344 4435	31
12	2223 3322	19	3333 3334	25	4333 4435	29	1224 4332	21	4343 3523	27	2232 3133	19
13	3322 1222	17	2444 4451	28	5433 4445	32	3334 3345	28	3245 4555	33	2322 2122	16
14	2123 2323	18	2113 2334	19	4443 4333	28	5233 1354	26	4343 4565	34	1312 1144	17
15	2122 2435	21	3333 3453	27	4353 4434	30	3222 2144	20	4434 3433	28	4233 3353	26
16	3424 5543	30	1355 4423	27	3545 5556	38	3333 3345	27	3333 2331	21	3332 2233	21
17	3345 4442	29	3233 3523	24	5344 4435	32	5555 5675	43	1322 3365	25	2322 3444	24
18	3344 4533	29	2222 2211	14	4333 3553	29	4454 4654	36	3112 1132	14	4332 2445	27
19	1233 3331	19	0133 3432	19	3233 6754	33	5444 4565	37	1212 2223	15	3234 4444	28
20	3323 3312	20	5543 3354	32	4465 5665	41	5233 3352	26	4123 2344	23	4334 2132	22
21	3232 2321	18	5444 4545	35	4556 5555	40	3334 2232	22	2322 1134	18	2122 1224	16
22	2454 3543	30	5443 3343	29	5555 5465	40	3333 3544	28	4133 2344	24	3423 3555	30
23	5334 3333	27	3123 3535	25	4544 4455	35	3223 3333	22	3222 3454	25	4324 1231	20
24	1232 3311	16	4334 3344	28	5544 4344	33	2132 1222	15	3312 3432	21	1122 1222	13
25	1223 3433	21	4454 3552	32	3344 6678	41	2123 2211	14	2133 3435	24	1112 1112	10
26	3444 4424	29	4344 4445	32	7644 3423	33	1133 3235	21	2122 4242	19	0011 0111	5
27	4234 2334	25	2333 3455	28	5555 4333	33	3323 3101	16	3222 1123	16	0313 3125	18
28	4534 4553	33	3334 4344	28	4223 2102	16	0335 6885	38	2232 4344	24	4664 5454	38
29	3423 3332	23	3333 3423	24	3222 4543	25	3333 3211	19	3234 4444	28	3212 4321	18
30	2223 3344	23	1113 3333	18	3322 2111	15	1233 2210	14	4243 4332	25	0112 2224	14
31	3443 4545	32	2234 3334	24			0122 1112	10			3245 4565	34

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

All Days

DECLINATION WEST (Unit 0.′01)

Month and Season, 1951	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	-170	-114	-117	-128	- 84	- 52	- 16	+ 1	+ 12	+ 65	+122	+205	+287	***+318***	+215	+159	+160	+124	+103	- 28	-158	***-340***	-335	-229
February	-134	-133	-182	-214	-162	-104	- 89	- 81	- 25	+ 23	+142	+279	+397	***+424***	+400	+230	+159	+ 45	- 40	-158	-167	-169	***-240***	-201
March	-238	-205	-226	-141	-153	-145	- 97	-165	-171	-106	+ 80	+358	+542	***+633***	+585	+441	+235	+116	- 78	-163	-236	-239	***-332***	-283
April	-192	-254	-274	-284	-258	-245	-277	***-367***	-359	-228	- 1	+325	+630	***+780***	+720	+648	+468	+221	+ 23	-107	-176	-226	-292	-272
May	-185	-200	-202	-220	-341	-418	-490	***-506***	-428	-218	+ 77	+390	+675	***+763***	+684	+535	+405	+194	+ 86	+ 5	- 86	-135	-156	-223
June	-120	-148	-198	-239	-308	-453	-495	***-525***	-481	-348	- 66	+262	+509	+620	***+644***	+584	+440	+283	+174	+ 95	- 49	- 53	- 41	- 82
July	-101	-151	-183	-176	-256	-353	-451	-510	***-514***	-336	- 81	+221	+462	+605	***+630***	+551	+405	+278	+141	+ 18	+ 1	- 28	- 53	-118
August	-137	-133	-199	-210	-218	-356	-397	***-411***	-363	-166	+108	+394	+613	***+675***	+595	+427	+309	+ 83	+ 2	- 80	-101	-121	-167	-138
September	-205	-237	-290	***-300***	-222	- 93	-173	-279	-207	- 81	+211	+467	+650	***+673***	+542	+363	+147	+ 80	-136	-150	-116	-216	-183	-252
October	-191	-145	-143	- 84	- 86	- 57	- 59	-150	-193	-157	+ 60	+323	+516	***+557***	+519	+370	+186	+ 34	+ 19	- 70	-287	-338	***-339***	-291
November	-318	-205	-150	- 83	- 53	- 9	+ 33	+ 9	- 7	+ 1	+100	+244	+355	***+380***	+360	+322	+246	+155	+ 96	-163	-321	-321	-313	***-348***
December	-169	-115	- 34	+ 12	+ 34	+ 51	+ 55	+ 12	+ 12	+ 24	+104	+217	+305	***+373***	+282	+196	+ 86	+ 84	-133	-187	-248	-301	***-360***	-302
Year	-180	-170	-183	-172	-176	-186	-205	***-248***	-227	-127	+ 71	+307	+495	***+567***	+515	+402	+270	+141	+ 21	- 82	-162	-207	-234	-228
Winter	-198	-142	-121	-103	- 66	- 29	- 4	- 15	- 2	+ 28	+117	+236	+336	***+374***	+314	+227	+163	+102	+ 7	-134	-224	-283	***-312***	-270
Equinox	-207	-210	-233	-202	-180	-135	-152	-240	-233	-143	+ 88	+368	+585	***+661***	+592	+456	+259	+113	- 43	-123	-204	-255	***-287***	-275
Summer	-136	-158	-196	-211	-281	-395	-458	***-488***	-447	-267	+ 10	+317	+565	***+666***	+638	+524	+390	+210	+101	+ 10	- 59	- 84	-104	-140

INCLINATION (Unit 0.′01)

January	+ 15	+ 1	+ 2	- 30	- 33	- 61	- ***62***	- 56	- 43	- 15	+ 11	- 6	- 20	- 10	0	+ 3	+ 22	+ 37	+ 51	+ 44	+ ***52***	+ 39	+ 38	+ 28
February	- 19	- 42	- 17	- 21	- 32	- 58	- ***65***	- 50	- 22	- 1	+ 38	+ 50	+ 40	+ 31	+ 30	+ 39	+ ***61***	+ 52	+ 31	+ 33	+ 19	- 16	- 30	- 47
March	- 32	- 44	- 31	- 27	- 42	- 65	- ***70***	- 51	- 34	+ 17	+ 49	+ 46	+ 40	+ 31	+ 37	+ 62	+ ***85***	+ 75	+ 47	+ 18	- 29	- 17	- 34	- 31
April	- ***76***	- 69	- 65	- 53	- 47	- 63	- 33	+ 1	+ 44	+ 73	+ ***110***	+100	+ 95	+ 71	+ 40	+ 27	+ 30	+ 7	+ 1	- 9	- 29	- 35	- 42	- 74
May	- 36	- 39	- 30	- 25	- 23	- 5	+ 22	+ 54	+ 92	+ ***116***	+ 98	+ 61	+ 36	+ 40	+ 26	+ 2	- 27	- 53	- ***68***	- 61	- 32	- 56	- 52	- 38
June	- 52	- 48	- 50	- 26	- 31	- 15	+ 39	+ 69	+ 95	+115	+ ***125***	+107	+ 97	+ 90	+ 36	- 12	- 20	- 50	- 92	- ***98***	- 86	- 74	- 73	- 51
July	- 80	- 70	- 54	- 61	- 62	- 23	+ 18	+ 73	+130	+ ***165***	+155	+115	+ 84	+ 51	+ 37	+ 5	- 37	- 50	- 70	- 52	- 64	- 60	- 60	- ***89***
August	- 63	- 82	- 75	- 80	- 67	- 43	+ 21	+ 68	+139	+ ***160***	+151	+110	+ 53	+ 45	+ 53	+ 42	+ 20	- 5	- 28	- 56	- 87	- 99	- ***102***	- 80
September	- 91	-106	- 89	- ***138***	-103	- 80	- 52	+ 25	+118	+ ***172***	+158	+136	+ 65	+ 45	+ 25	+ 62	+ 44	+ 46	+ 11	+ 5	- 24	- 74	- 76	- 75
October	- 49	- 63	- 69	- 75	- 71	- ***95***	- 78	- 39	+ 15	+ 64	+ 79	+ ***89***	+ 75	+ 59	+ 39	+ 60	+ 65	+ 37	+ 36	+ 37	- 4	- 26	- 35	- 54
November	- 10	- 3	- 26	- 38	- 66	- 77	- ***86***	- 79	- 54	- 18	- 3	+ 10	+ 24	+ 49	+ 80	+ ***83***	+ 69	+ 38	+ 35	+ 39	+ 29	+ 19	+ 2	- 16
December	- 12	- 11	- 30	- 39	- 61	- 91	- ***103***	- 87	- 59	- 13	+ 35	+ 53	+ 35	+ 46	+ 56	+ ***73***	+ 70	+ 53	+ 36	+ 58	+ 26	+ 5	- 11	- 26
Year	- 42	- 48	- 45	- 51	- 53	- ***56***	- 37	- 6	+ 35	+ 70	+ ***84***	+ 73	+ 52	+ 46	+ 38	+ 37	+ 32	+ 16	- 1	- 3	- 19	- 33	- 40	- 46
Winter	- 6	- 14	- 18	- 32	- 48	- 72	- ***79***	- 68	- 44	- 12	+ 20	+ 27	+ 20	+ 29	+ 41	+ 49	+ ***55***	+ 45	+ 38	+ 43	+ 31	+ 12	0	- 15
Equinox	- 62	- 70	- 63	- 73	- 66	- ***76***	- 58	- 16	+ 36	+ 81	+ ***99***	+ 93	+ 69	+ 51	+ 35	+ 53	+ 56	+ 41	+ 24	+ 13	- 21	- 38	- 47	- 59
Summer	- 58	- 60	- 52	- 48	- 46	- 21	+ 25	+ 66	+114	+ ***139***	+132	+ 98	+ 67	+ 56	+ 38	+ 9	- 16	- 39	- 64	- 67	- 67	- ***72***	- 72	- 64

HORIZONTAL INTENSITY (Unit 0.1γ)

January	- 22	- 12	- 19	+ 27	+ 30	+ ***74***	+ 71	+ 64	+ 43	+ 2	- 33	- 14	+ 6	+ 18	+ 5	+ 7	- 10	- 33	- ***44***	- 29	- 40	- 26	- 35	- 30
February	+ 18	+ 39	- 5	+ 2	+ 24	+ 66	+ ***72***	+ 53	+ 9	- 24	- 80	- ***101***	- 79	- 53	- 26	- 26	- 50	- 28	+ 6	- 4	+ 14	+ 48	+ 57	+ 67
March	+ 29	+ 44	+ 23	+ 17	+ 40	+ 75	+ ***81***	+ 61	+ 31	- 57	-114	- ***119***	-103	- 73	- 48	- 54	- 59	- 36	+ 7	+ 33	+ 81	+ 44	+ 60	+ 38
April	+ 86	+ 59	+ 49	+ 33	+ 31	+ 61	+ 27	- 17	- 82	-140	- ***215***	-214	-206	-142	- 48	+ 3	+ 39	+ 96	+100	+ 96	+103	+ 91	+ 83	+ ***107***
May	+ 32	+ 35	+ 24	+ 23	+ 34	+ 10	- 29	- 86	-157	-212	- ***212***	-182	-142	-108	- 48	+ 25	+ 94	+161	+ ***186***	+171	+112	+122	+ 93	+ 55
June	+ 57	+ 52	+ 54	+ 27	+ 44	+ 18	- 61	-111	-158	-204	- ***240***	-237	-217	-177	- 59	+ 47	+ 81	+139	+209	+ ***211***	+180	+145	+127	+ 82
July	+ 85	+ 59	+ 43	+ 55	+ 67	+ 11	- 42	-113	-205	-273	- ***275***	-238	-193	-119	- 60	+ 32	+119	+159	+ ***197***	+161	+160	+129	+112	+132
August	+ 67	+ 89	+ 74	+ 88	+ 76	+ 45	- 39	-104	-223	-266	- ***269***	-222	-139	-103	- 79	- 18	+ 41	+ 97	+127	+158	+ ***176***	+173	+157	+103
September	+ 65	+ 77	+ 54	+ ***138***	+ 93	+ 70	+ 45	- 59	-198	- ***281***	-267	-237	-118	- 64	+ 11	+ 11	+ 64	+ 43	+ 82	+ 63	+ 89	+136	+ 98	+ 77
October	+ 39	+ 54	+ 64	+ 70	+ 73	+ ***114***	+ 94	+ 46	- 37	-117	-154	- ***170***	-141	-102	- 40	- 40	- 21	+ 34	+ 30	- 4	+ 40	+ 57	+ 50	+ 62
November	+ 2	- 22	+ 12	+ 29	+ 74	+ 96	+ ***107***	+ 97	+ 58	0	- 26	- 43	- 53	- 75	- ***100***	- 89	- 55	- 9	- 9	- 14	- 6	- 8	+ 9	+ 19
December	+ 3	- 5	+ 18	+ 31	+ 65	+106	+ ***123***	+105	+ 63	- 8	- 76	- ***94***	- 62	- 66	- 58	- 75	- 58	- 36	- 5	- 43	0	+ 14	+ 26	+ 30
Year	+ 38	+ 39	+ 33	+ 45	+ 54	+ 62	+ 37	- 5	- 71	-132	- ***163***	-156	-121	- 89	- 46	- 15	+ 15	+ 49	+ 74	+ 67	+ 76	+ ***77***	+ 70	+ 62
Winter	0	0	+ 2	+ 22	+ 48	+ 86	+ ***93***	+ 80	+ 43	- 8	- 54	- ***63***	- 47	- 44	- 45	- 46	- 43	- 27	- 13	- 23	- 8	+ 7	+ 14	+ 22
Equinox	+ 55	+ 59	+ 48	+ 65	+ 59	+ 80	+ 62	+ 8	- 72	-149	- ***188***	-185	-142	- 95	- 31	- 20	+ 6	+ 34	+ 55	+ 47	+ 78	+ ***82***	+ 73	+ 71
Summer	+ 60	+ 59	+ 49	+ 48	+ 55	+ 21	- 43	-104	-186	-239	- ***249***	-220	-173	-127	- 62	+ 22	+ 84	+139	+ ***180***	+175	+157	+142	+122	+ 93

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

All Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1951	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	− 7	− 2	− 9	+ 38	+ 37	+ ***78***	+ 71	+ 63	+ 41	− 4	− 43	− 32	− 19	− 10	− 14	− 7	− 21	− 43	− ***52***	− 26	− 26	+ 4	− 5	− 10
February	+ 29	+ 50	+ 11	+ 21	+ 38	+ 74	+ 79	+ 59	+ 11	− 26	− 91	− ***124***	− 112	− 89	− 60	− 46	− 63	− 32	+ 9	+ 10	+ 28	+ 62	+ 77	+ ***84***
March	+ 49	+ 61	+ 42	+ 29	+ 53	+ 87	+ 88	+ 75	+ 45	− 47	− 119	− 149	− ***149***	− 127	− 98	− 92	− 79	− 46	+ 14	+ 47	+ ***100***	+ 64	+ 88	+ 62
April	+ 102	+ 80	+ 72	+ 57	+ 53	+ 81	+ 51	+ 15	− 50	− 118	− 212	− 239	− ***258***	− 208	− 110	− 53	− 2	+ 76	+ 97	+ 104	+ 117	+ 109	+ 107	+ ***129***
May	+ 48	+ 52	+ 41	+ 42	+ 63	+ 46	+ 14	− 41	− 118	− 190	− ***216***	− 213	− 199	− 173	− 107	− 22	+ 58	+ 142	+ ***176***	+ 168	+ 118	+ 132	+ 105	+ 74
June	+ 67	+ 64	+ 70	+ 47	+ 70	+ 57	− 17	− 64	− 114	− 171	− 231	− 257	− ***258***	− 228	− 114	− 4	+ 42	+ 113	+ 191	+ ***200***	+ 182	+ 148	+ 129	+ 88
July	+ 93	+ 71	+ 58	+ 70	+ 88	+ 41	− 2	− 67	− 158	− 240	− ***264***	− 254	− 231	− 170	− 114	− 16	+ 82	+ 133	+ ***182***	+ 157	+ 158	+ 130	+ 115	+ 141
August	+ 78	+ 99	+ 89	+ 102	+ 97	+ 75	− 4	− 67	− 189	− 248	− ***275***	− 253	− 190	− 160	− 130	− 55	+ 14	+ 89	+ 125	+ 163	+ ***182***	+ 181	+ 175	+ 114
September	+ 82	+ 95	+ 77	+ ***160***	+ 110	+ 77	+ 58	− 36	− 179	− 271	− ***281***	− 272	− 169	− 118	− 33	− 18	+ 51	+ 36	+ 92	+ 74	+ 97	+ 152	+ 112	+ 96
October	+ 55	+ 66	+ 76	+ 76	+ 80	+ ***117***	+ 98	+ 58	− 20	− 102	− 157	− ***196***	− 184	− 149	− 85	− 72	− 37	+ 31	+ 28	+ 2	+ 64	+ 86	+ 79	+ 86
November	+ 30	− 4	+ 25	+ 36	+ 78	+ 96	+ ***103***	+ 95	+ 58	0	− 34	− 64	− 83	− 107	− ***130***	− 116	− 76	− 22	− 17	0	+ 22	+ 20	+ 36	+ 49
December	+ 18	+ 5	+ 21	+ 30	+ 61	+ 100	+ ***117***	+ 103	+ 61	− 10	− 84	− ***112***	− 88	− 98	− 82	− 91	− 65	− 43	+ 7	− 26	+ 22	+ 40	+ 57	+ 56
Year	+ 54	+ 53	+ 48	+ 59	+ 69	+ 77	+ 55	+ 16	− 51	− 119	− 167	− ***180***	− 162	− 136	− 90	− 49	− 8	+ 36	+ 71	+ 73	+ 89	+ ***94***	+ 90	+ 81
Winter	+ 17	+ 12	+ 12	+ 31	+ 53	+ 87	+ ***92***	+ 80	+ 43	− 10	− 63	− ***83***	− 75	− 76	− 71	− 65	− 56	− 35	− 13	− 10	+ 11	+ 31	+ 41	+ 45
Equinox	+ 72	+ 75	+ 67	+ 80	+ 74	+ 90	+ 74	+ 28	− 51	− 134	− 192	− ***214***	− 190	− 150	− 81	− 59	− 17	+ 24	+ 58	+ 57	+ 94	+ ***103***	+ 96	+ 93
Summer	+ 71	+ 71	+ 64	+ 65	+ 79	+ 55	− 2	− 60	− 145	− 212	− ***247***	− 244	− 220	− 183	− 116	− 24	+ 49	+ 119	+ 169	+ ***172***	+ 160	+ 148	+ 131	+ 104

WEST COMPONENT (Unit 0.1γ)

January	− 95	− 63	− 66	− 64	− 40	− 16	+ 3	+ 11	+ 13	+ 35	+ 60	+ 108	+ ***155***	+ 173	+ 116	+ 86	+ 84	+ 61	+ 48	− 20	− 91	− ***186***	− 185	− 127
February	− 69	− 65	− 98	− 114	− 83	− 45	− 36	− 35	− 12	+ 8	+ 63	+ 133	+ 200	+ ***219***	+ 210	+ 119	+ 77	+ 20	− 20	− 85	− 87	− 83	− ***119***	− 97
March	− 123	− 103	− 117	− 73	− 76	− 66	− 39	− 79	− 87	− 66	+ 25	+ 173	+ 274	+ ***327***	+ 306	+ 228	+ 116	+ 56	− 41	− 82	− 113	− 121	− ***168***	− 145
April	− 89	− 127	− 139	− 147	− 133	− 121	− 144	− 199	− ***205***	− 144	− 35	+ 140	+ 304	+ ***395***	+ 378	+ 347	+ 257	+ 134	+ 28	− 42	− 78	− 106	− 143	− 129
May	− 94	− 102	− 104	− 114	− 177	− 222	− 267	− ***285***	− 254	− 151	+ 7	+ 180	+ 339	+ ***391***	+ 359	+ 290	+ 232	+ 130	+ 76	+ 30	− 28	− 53	− 69	− 111
June	− 55	− 71	− 97	− 124	− 158	− 240	− 275	− ***299***	− 283	− 219	− 74	+ 102	+ 238	+ 304	+ ***335***	+ 320	+ 249	+ 174	+ 127	+ 85	+ 3	− 5	− 2	− 31
July	− 40	− 71	− 91	− 85	− 126	− 187	− 248	− 291	− ***308***	− 224	− 87	+ 80	+ 217	+ 305	+ ***328***	+ 300	+ 236	+ 174	+ 107	+ 35	+ 26	+ 6	− 10	− 42
August	− 63	− 57	− 95	− 98	− 105	− 183	− 219	− ***237***	− 230	− 131	+ 15	+ 175	+ 306	+ ***345***	+ 306	+ 226	+ 172	+ 60	+ 21	− 18	− 26	− 37	− 64	− 57
September	− 99	− 115	− 147	− 139	− 104	− 39	− 85	− ***159***	− 143	− 88	+ 70	+ 212	+ 329	+ ***350***	+ 292	+ 196	+ 89	+ 50	− 60	− 70	− 48	− 94	− 82	− 123
October	− 96	− 69	− 66	− 34	− 34	− 12	− 17	− 73	− 109	− 103	+ 7	+ 146	+ 254	+ ***282***	+ 272	+ 192	+ 96	+ 24	+ 15	− 38	− 147	− 172	− ***174***	− 146
November	− 170	− 113	− 78	− 40	− 17	+ 11	+ 35	+ 20	+ 6	+ 1	+ 49	+ 124	+ 182	+ ***191***	+ 177	+ 158	+ 123	+ 82	+ 50	− 90	− 173	− 173	− 166	− ***183***
December	− 90	− 62	− 15	+ 11	+ 29	+ 44	+ 49	+ 23	+ 17	+ 12	+ 44	+ 101	+ 153	+ ***189***	+ 142	+ 93	+ 37	+ 39	− 72	− 107	− 133	− 159	− ***189***	− 157
Year	− 90	− 85	− 93	− 85	− 85	− 90	− 104	− ***134***	− 133	− 89	+ 12	+ 139	+ 246	+ ***289***	+ 268	+ 213	+ 147	+ 84	+ 23	− 33	− 75	− 99	− 114	− 112
Winter	− 106	− 76	− 64	− 52	− 28	− 1	+ 13	+ 5	+ 6	+ 14	+ 54	+ 116	+ 172	+ ***193***	+ 161	+ 114	+ 80	+ 50	+ 1	− 75	− 121	− 150	− ***165***	− 141
Equinox	− 102	− 103	− 117	− 98	− 87	− 59	− 71	− 127	− 136	− 100	+ 17	+ 168	+ 290	+ ***338***	+ 312	+ 241	+ 139	+ 66	− 14	− 58	− 96	− 123	− ***142***	− 136
Summer	− 63	− 75	− 97	− 105	− 141	− 208	− 252	− ***278***	− 269	− 181	− 35	+ 134	+ 275	+ ***336***	+ 332	+ 284	+ 222	+ 134	+ 83	+ 33	− 6	− 22	− 36	− 60

VERTICAL COMPONENT (Unit 0.1γ)

January	+ 2	− 25	− 37	− 42	− 46	− 38	− 51	− 46	− 51	− 49	− 40	− 52	− ***54***	− 23	+ 11	+ 27	+ 54	+ 52	+ 75	+ 85	+ ***89***	+ 74	+ 49	+ 29
February	− 23	− 54	− ***71***	− 68	− 54	− 49	− 59	− 52	− 54	− 61	− 55	− 61	− 45	− 14	+ 42	+ 75	+ 94	+ 116	+ ***120***	+ 107	+ 98	+ 56	+ 30	− 8
March	− 43	− 51	− 53	− 53	− 54	− 51	− 55	− 35	− 45	− 75	− 96	− ***116***	− 99	− 62	+ 16	+ 88	+ 157	+ 177	+ ***179***	+ 138	+ 89	+ 44	+ 23	− 19
April	− 65	− 102	− 113	− 108	− 92	− 77	− 53	− 36	− 38	− 73	− 118	− 149	− ***150***	− 83	+ 26	+ 100	+ 196	+ ***248***	+ 235	+ 193	+ 138	+ 90	+ 47	− 9
May	− 50	− 54	− 48	− 34	− 1	+ 7	+ 8	− 12	− 47	− 92	− 152	− ***210***	− 205	− 114	− 21	+ 66	+ 126	+ 189	+ ***196***	+ 186	+ 149	+ 91	+ 37	− 4
June	− 47	− 45	− 47	− 26	− 7	− 11	− 7	− 18	− 36	− 74	− 124	− ***180***	− 169	− 100	− 12	+ 68	+ 118	+ 150	+ ***166***	+ 151	+ 121	+ 81	+ 42	+ 12
July	− 80	− 107	− 88	− 84	− 61	− 56	− 34	− 11	− 25	− 61	− 103	− 153	− ***157***	− 101	− 12	+ 93	+ 149	+ 196	+ ***216***	+ 195	+ 149	+ 93	+ 51	− 1
August	− 62	− 76	− 88	− 74	− 56	− 44	− 17	− 7	− 36	− 65	− 101	− 135	− ***141***	− 84	− 1	+ 104	+ 165	+ ***207***	+ 198	+ 172	+ 107	+ 60	+ 10	− 37
September	− 164	− ***188***	− 185	− 157	− 142	− 116	− 76	− 50	− 52	− 58	− 72	− 79	− 48	+ 9	+ 112	+ 242	+ ***301***	+ 260	+ 229	+ 163	+ 123	+ 61	− 35	− 80
October	− 80	− 92	− 91	− ***99***	− 77	− 63	− 51	− 28	− 35	− 49	− 83	− 87	− 68	− 31	+ 43	+ 116	+ 178	+ ***207***	+ 195	+ 119	+ 78	+ 43	− 4	− 44
November	− 31	− 62	− 64	− 66	− 57	− 44	− 51	− 48	− 51	− 64	− ***71***	− 65	− 39	− 5	+ 46	+ 81	+ ***113***	+ 111	+ 102	+ 103	+ 88	+ 48	+ 28	− 10
December	− 34	− 51	− 63	− 65	− 62	− 68	− ***72***	− 59	− 58	− 64	− 56	− 34	− 24	+ 7	+ 61	+ 80	+ 109	+ 102	+ ***112***	+ 103	+ 90	+ 49	+ 23	− 19
Year	− 56	− 76	− 79	− 73	− 59	− 51	− 43	− 34	− 44	− 65	− 89	− ***110***	− 100	− 50	+ 26	+ 95	+ 147	+ 168	+ ***169***	+ 143	+ 110	+ 66	+ 25	− 16
Winter	− 22	− 48	− 59	− ***60***	− 55	− 50	− 58	− 51	− 54	− 60	− 56	− 53	− 41	− 9	+ 40	+ 66	+ 93	+ 95	+ ***102***	+ 100	+ 91	+ 57	+ 33	− 2
Equinox	− 88	− 108	− ***111***	− 104	− 91	− 77	− 59	− 37	− 43	− 64	− 92	− 108	− 91	− 42	+ 49	+ 137	+ 208	+ ***223***	+ 210	+ 153	+ 107	+ 60	+ 8	− 38
Summer	− 60	− 71	− 68	− 55	− 31	− 26	− 13	− 12	− 36	− 73	− 120	− ***170***	− 168	− 100	− 12	+ 83	+ 140	+ 186	+ ***194***	+ 176	+ 132	+ 81	+ 35	− 8

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, 1951	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	- 73	- 25	- 13	+ 11	- 13	- 41	- 47	-109	- 97	- 47	+ 31	+161	***+237***	+235	+111	+ 65	+ 69	+ 51	+ 53	- 21	-103	***-175***	-167	- 95
February	-101	- 73	- 61	-105	-113	-111	-101	***-119***	-105	- 31	+ 89	+159	***+243***	+233	+139	+ 83	+ 81	+ 91	+ 75	+ 25	- 61	- 75	- 63	- 99
March	-111	- 91	-113	-125	-145	-113	-117	-189	-245	***-247***	- 83	+161	+377	***+417***	+345	+231	+125	+ 91	+ 67	+ 13	+ 5	- 31	- 73	-155
April	- 1	-111	-105	-181	-237	-267	-337	-409	***-423***	-295	- 89	+235	+505	***+587***	+521	+377	+273	+109	+ 49	+ 57	+ 81	- 55	-103	-187
May	-104	-112	- 82	-216	-404	-534	***-664***	-646	-516	-274	+ 52	+454	+736	***+788***	+720	+542	+330	+150	+ 32	- 48	- 42	- 22	- 44	- 90
June	- 46	+ 44	-108	-238	-376	-560	-626	***-630***	-606	-440	-112	+248	+552	+656	***+702***	+596	+488	+316	+146	+ 68	+ 50	- 6	- 28	- 90
July	- 87	-235	-249	-197	-263	-321	-441	-483	***-507***	-335	-169	+101	+389	+563	***+595***	+547	+465	+325	+185	+ 85	+ 21	+ 49	+ 11	- 53
August	-121	-117	-169	-207	-321	-421	-423	-445	***-463***	-285	- 7	+291	+627	***+653***	+539	+429	+311	+189	+117	+ 59	+ 19	- 1	- 75	-169
September	-196	-166	-178	-270	-324	-410	-502	***-516***	-388	-146	+250	+522	+746	***+748***	+518	+254	+ 94	+ 30	+ 78	+ 60	+ 30	+ 24	- 70	-180
October	-151	-157	-149	-117	-127	-163	-191	-259	***-289***	-199	+ 1	+259	+395	***+433***	+335	+227	+141	+127	+117	+ 31	- 3	- 35	- 73	-147
November	-151	- 99	- 71	- 43	- 65	- 49	- 51	- 73	-107	-107	+ 5	+171	+275	***+299***	+219	+183	+117	+117	+103	- 13	- 83	-119	***-237***	-223
December	- 81	- 49	- 33	- 25	+ 1	- 1	- 25	- 61	- 95	-117	- 5	+129	+215	***+225***	+161	+115	+ 51	+ 53	+ 25	- 25	-115	- 85	***-163***	- 97
Year	-102	- 99	-111	-143	-199	-249	-294	***-328***	-320	-210	- 3	+241	+441	***+486***	+409	+304	+212	+137	+ 87	+ 24	- 17	- 44	- 90	-132
Winter	-102	- 62	- 45	- 41	- 48	- 51	- 56	- 91	-101	- 76	+ 30	+155	+243	***+248***	+158	+112	+ 80	+ 78	+ 64	- 9	- 91	-114	***-158***	-129
Equinox	-115	-131	-136	-173	-208	-238	-287	***-343***	-336	-222	+ 20	+294	+506	***+546***	+430	+272	+158	+ 89	+ 78	+ 40	+ 28	- 24	- 80	-167
Summer	- 90	-105	-152	-215	-341	-459	-539	***-551***	-523	-334	- 59	+274	+576	***+665***	+639	+529	+399	+245	+120	+ 41	+ 12	+ 5	- 34	-101

INCLINATION (Unit 0.'01)

January	+ 32	+ 38	+ 30	- 5	- 23	- 32	***- 41***	- 34	- 12	+ 28	***+ 61***	+ 39	- 5	- 31	- 14	- 4	+ 4	- 5	- 14	- 4	+ 6	- 2	- 9	+ 2
February	***+ 47***	+ 39	+ 41	+ 26	+ 13	- 15	- 30	- 16	+ 3	+ 20	+ 35	+ 21	+ 6	- 3	- 13	- 10	- 4	- 21	***- 36***	- 31	- 20	- 16	- 9	- 25
March	+ 25	+ 27	+ 17	+ 7	+ 7	- 8	- 17	- 30	- 25	+ 6	+ 26	+ 37	+ 25	+ 29	+ 42	+ 36	***+ 42***	+ 31	+ 10	- 13	- 26	- 50	***-114***	- 80
April	- 33	- 22	+ 6	+ 16	+ 14	+ 6	+ 1	+ 15	+ 39	+ 80	***+ 98***	+ 63	+ 54	+ 37	+ 24	+ 16	- 1	- 38	- 27	- 48	- 69	- 82	***- 85***	- 54
May	+ 8	+ 12	+ 4	- 10	+ 5	+ 10	+ 35	+ 88	+110	***+114***	+ 88	+ 43	- 6	+ 2	- 31	- 29	- 40	- 40	***- 76***	- 67	- 61	- 60	- 50	- 50
June	- 31	- 36	- 43	- 28	- 39	- 23	+ 18	+ 73	+126	+162	***+130***	+111	+ 90	+ 47	- 13	- 81	- 99	***-118***	- 93	- 86	- 99	- 74	- 54	
July	- 62	- 40	+ 9	- 16	- 21	- 11	+ 25	+ 60	+102	+126	***+128***	+ 99	+ 86	+ 49	+ 39	+ 2	- 44	- 85	***- 86***	- 82	- 83	- 71	- 67	- 61
August	- 28	- 17	- 9	- 13	- 14	- 13	+ 50	+ 92	+127	***+152***	+146	+101	+ 33	+ 44	+ 3	- 35	- 48	- 81	- 85	***-103***	- 99	- 81	- 74	- 58
September	- 24	- 46	- 19	- 32	- 14	+ 13	+ 65	+139	+178	***+197***	+155	+110	+ 12	- 42	- 49	- 30	- 32	- 39	- 62	- 75	- 91	***-111***	-110	- 97
October	+ 30	+ 29	+ 35	+ 24	+ 11	- 9	- 17	+ 10	+ 41	+ 69	***+ 93***	+ 80	+ 41	+ 18	0	- 10	- 26	- 60	- 70	***- 72***	- 65	- 64	- 51	- 36
November	+ 39	***+ 49***	+ 33	+ 15	- 9	- 26	- 41	***- 55***	- 31	+ 3	+ 31	+ 37	+ 34	+ 20	+ 27	+ 6	+ 1	- 31	- 38	- 29	- 20	+ 5	0	- 22
December	+ 36	+ 40	+ 22	+ 9	- 3	- 36	***- 45***	- 45	- 29	+ 11	***+ 42***	+ 36	+ 16	+ 12	+ 8	- 1	- 8	- 17	- 32	- 14	+ 9	- 6	- 4	+ 7
Year	+ 3	+ 6	+ 10	- 1	- 6	- 12	0	+ 25	+ 52	+ 81	***+ 89***	+ 66	+ 34	+ 19	+ 7	- 6	- 20	- 40	- 53	- 53	- 50	- 53	***- 54***	- 44
Winter	+ 39	+ 41	+ 31	+ 11	- 5	- 27	***- 37***	- 35	- 17	+ 15	***+ 42***	+ 33	+ 13	+ 0	+ 2	- 2	- 2	- 19	- 30	- 19	- 6	- 5	- 5	- 9
Equinox	0	- 3	+ 10	+ 4	+ 4	0	+ 8	+ 33	+ 58	+ 88	***+ 93***	+ 72	+ 33	+ 10	+ 4	+ 3	- 4	- 26	- 37	- 52	- 63	- 77	***- 90***	- 67
Summer	- 28	- 20	- 10	- 17	- 17	- 9	+ 32	+ 78	+116	***+138***	+131	+ 93	+ 56	+ 46	+ 14	- 19	- 53	- 76	***- 91***	- 86	- 82	- 78	- 66	- 56

HORIZONTAL INTENSITY (Unit 0.1γ)

January	- 47	- 59	- 51	- 3	+ 25	+ 45	***+ 57***	+ 49	+ 17	- 41	***- 87***	- 67	- 13	+ 37	+ 21	+ 7	+ 3	+ 17	+ 31	+ 13	+ 3	+ 15	+ 21	+ 1
February	***- 67***	- 55	- 59	- 41	- 23	+ 23	+ 39	+ 19	- 11	- 35	- 55	- 41	- 23	- 5	+ 23	+ 15	+ 7	+ 37	***+ 63***	+ 57	+ 43	+ 33	+ 23	+ 37
March	- 31	- 35	- 23	- 11	- 9	+ 17	+ 23	+ 51	+ 37	- 23	- 67	***- 95***	- 81	- 75	- 65	- 39	- 39	- 23	+ 11	+ 45	+ 59	+ 87	***+173***	+109
April	+ 59	+ 33	- 5	- 17	- 7	+ 7	+ 17	+ 1	- 43	-129	***-187***	-169	-169	-113	- 61	- 23	+ 23	+ 91	+ 77	+103	+133	***+145***	+139	+ 83
May	- 3	- 3	+ 7	+ 25	+ 15	+ 5	- 41	-125	-179	***-209***	-201	-163	- 97	- 71	+ 15	+ 49	+ 95	+119	***+173***	+157	+135	+117	+ 95	+ 89
June	+ 47	+ 55	+ 57	+ 49	+ 79	+ 59	- 7	- 89	-179	-255	***-281***	-273	-253	-193	- 99	+ 19	+143	+181	***+223***	+185	+163	+169	+119	+ 81
July	+ 85	+ 41	- 25	+ 27	+ 51	+ 35	- 15	- 67	-149	-215	***-247***	-219	-203	-127	- 85	- 1	+ 89	+165	***+177***	+171	+167	+135	+119	+ 99
August	+ 29	+ 17	+ 5	+ 21	+ 35	+ 33	- 57	-119	-189	-241	***-249***	-207	-115	-121	- 31	+ 61	+101	+159	***+189***	+173	+143	+123	+ 91	
September	+ 26	+ 60	+ 24	+ 52	+ 26	- 8	- 88	-200	-268	***-314***	-272	-206	- 58	+ 42	+ 74	+ 70	+ 76	+ 82	+108	+130	+150	***+180***	+170	+146
October	- 30	- 38	- 46	- 26	- 4	+ 26	+ 38	- 4	- 64	-126	***-176***	-160	-100	- 52	- 4	+ 24	+ 54	+102	+116	***+120***	+106	+102	+ 80	+ 54
November	- 47	- 65	- 41	- 21	+ 13	+ 39	+ 57	***+ 77***	+ 35	- 23	- 71	***- 77***	- 69	- 43	- 39	+ 1	+ 13	+ 59	+ 65	+ 51	+ 41	- 1	+ 11	+ 39
December	- 49	- 61	- 37	- 19	- 3	+ 47	***+ 61***	+ 61	+ 37	- 27	***- 71***	- 63	- 37	- 23	- 3	+ 9	+ 25	+ 35	+ 57	+ 31	+ 1	+ 17	+ 11	- 11
Year	- 2	- 9	- 16	+ 3	+ 17	+ 27	+ 7	- 29	- 80	-137	***-164***	-145	-102	- 62	- 21	+ 16	+ 49	+ 85	***+105***	+104	+ 98	+ 95	+ 90	+ 68
Winter	- 53	- 60	- 47	- 21	+ 3	+ 39	***+ 54***	+ 51	+ 20	- 32	***- 71***	- 62	- 36	- 9	+ 1	+ 8	+ 12	+ 37	+ 54	+ 38	+ 22	+ 16	+ 17	+ 17
Equinox	+ 6	+ 5	- 13	- 1	+ 2	+ 11	- 3	- 38	- 85	-148	***-176***	-158	-102	- 49	- 14	+ 8	+ 29	+ 63	+ 78	+100	+112	+129	***+141***	+ 98
Summer	+ 40	+ 28	+ 11	+ 31	+ 45	+ 33	- 30	-100	-174	-230	***-245***	-216	-167	-128	- 50	+ 32	+107	+156	***+184***	+176	+160	+141	+114	+ 90

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

International Quiet Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1951	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	-40	-56	-49	-4	+26	+48	+60	+58	+25	-36	-89	-80	-33	+16	+11	+1	-3	+12	+26	+15	+12	+30	+35	+9
February	-57	-48	-53	-41	-13	+32	+47	+29	-2	-32	-62	-54	-44	-25	+11	+8	0	+29	+56	+54	+48	+39	+28	+45
March	-21	-27	-13	0	+4	+27	+33	+67	+58	-1	-59	-108	-113	-110	-94	-59	-49	-31	+5	+43	+58	+89	+177	+121
April	+58	+42	+4	-1	+14	+30	+46	+36	-6	-102	-177	-187	-211	-162	-105	-55	-1	+80	+72	+97	+124	+148	+146	+98
May	+6	+7	+14	+43	+50	+51	+17	-67	-132	-182	-203	-200	-160	-138	-48	+1	+65	+104	+168	+159	+137	+117	+98	+96
June	+50	+50	+66	+69	+111	+107	+47	-33	-124	-213	-268	-291	-298	-247	-159	-33	+99	+151	+207	+177	+157	+167	+120	+88
July	+91	+61	-3	+44	+73	+62	+23	-24	-103	-183	-229	-225	-234	-174	-136	-48	+47	+135	+159	+161	+163	+129	+116	+102
August	+39	+27	+20	+39	+62	+69	-20	-79	-146	-213	-245	-230	-168	-176	-77	+23	+73	+141	+149	+181	+169	+141	+128	+104
September	+43	+74	+39	+75	+54	+28	-43	-153	-231	-297	-290	-249	-122	-23	+28	+47	+67	+78	+100	+123	+145	+176	+174	+160
October	-17	-24	-32	-16	+7	+40	+54	+19	-38	-107	-174	-180	-133	-89	-33	+4	+41	+90	+104	+116	+105	+104	+85	+66
November	-33	-56	-34	-17	+18	+43	+61	+82	+44	-13	-71	-91	-92	-68	-58	-15	+3	+48	+55	+51	+48	+9	+31	+58
December	-41	-56	-34	-17	-3	+46	+62	+66	+45	-16	-70	-73	-55	-42	-17	-1	+20	+30	+54	+33	+11	+24	+25	-2
Year	+6	0	-6	+14	+34	+49	+32	0	-51	-116	-162	-164	-139	-103	-56	-11	+30	+71	+88	+101	+98	+98	+97	+79
Winter	-43	-54	-42	-20	+7	+42	+57	+59	+28	-24	-73	-74	-56	-30	-13	-2	+5	+30	+48	+38	+30	+25	+30	+27
Equinox	+16	+16	0	+14	+20	+31	+22	-8	-54	-124	-175	-181	-145	-96	-51	-16	+14	+54	+70	+95	+108	+129	+145	+111
Summer	+46	+36	+24	+49	+74	+72	+17	-51	-126	-198	-236	-236	-215	-184	-105	-14	+71	+133	+171	+169	+156	+136	+115	+98

WEST COMPONENT (Unit 0.1γ)

January	-47	-23	-15	+5	-3	-15	-16	-51	-49	-32	+3	+75	+125	+132	+63	+36	+37	+30	+33	-9	-55	-91	-86	-51
February	-65	-48	-42	-63	-64	-56	-48	-61	-58	-22	+39	+79	+126	+124	+78	+47	+44	+55	+50	+23	-26	-35	-30	-47
March	-64	-54	-64	-69	-79	-58	-59	-93	-125	-136	-55	+71	+189	+211	+174	+117	+61	+45	+38	+14	+12	-3	-11	-66
April	+9	-54	-57	-100	-128	-142	-178	-219	-233	-179	-78	+99	+243	+296	+269	+198	+150	+73	+39	+47	+65	-6	-33	-87
May	-56	-60	-43	-112	-214	-285	-362	-366	-305	-180	-4	+217	+379	+411	+388	+298	+192	+99	+45	-1	-1	+7	-8	-34
June	-17	+32	-49	-120	-189	-290	-336	-352	-353	-276	-105	+89	+255	+320	+360	+322	+284	+198	+114	+66	+53	+24	+4	-35
July	-33	-119	-137	-101	-133	-166	-239	-269	-295	-214	-130	+19	+176	+281	+305	+293	+263	+200	+127	+73	+38	+48	+25	-13
August	-60	-60	-90	-107	-166	-220	-236	-257	-278	-191	-44	+123	+317	+330	+284	+239	+183	+127	+88	+62	+38	+22	-20	-76
September	-101	-79	-91	-136	-169	-221	-283	-308	-251	-128	+90	+247	+390	+407	+289	+147	+62	+29	+59	+53	+40	+42	-10	-73
October	-85	-90	-87	-67	-69	-83	-96	-139	-165	-127	-28	+113	+196	+224	+179	+125	+84	+84	+81	+36	+15	-2	-26	-70
November	-88	-64	-45	-26	-33	-20	-18	-27	-52	-61	-9	+79	+136	+154	+111	+98	+65	+72	+66	+1	-38	-64	-125	-113
December	-51	-36	-24	-16	0	+7	-4	-23	-45	-67	-14	+59	+109	+117	+86	+63	+31	+34	+23	-8	-61	-43	-86	-54
Year	-55	-55	-62	-76	-104	-129	-156	-180	-184	-134	-28	+106	+220	+251	+215	+165	+121	+87	+64	+30	+7	-8	-34	-60
Winter	-63	-43	-31	-25	-25	-21	-21	-40	-51	-45	+5	+73	+124	+132	+84	+61	+44	+48	+43	+2	-45	-58	-82	-66
Equinox	-60	-69	-75	-93	-111	-126	-154	-190	-193	-142	-18	+132	+254	+285	+228	+147	+89	+58	+54	+37	+33	+8	-20	-74
Summer	-41	-52	-80	-110	-175	-240	-292	-311	-308	-215	-71	+112	+282	+335	+334	+288	+230	+156	+93	+50	+32	+25	0	-39

VERTICAL COMPONENT (Unit 0.1γ)

January	+3	-13	-15	-25	-21	-7	-9	-3	-1	+3	+11	-19	-49	-21	+1	+3	+21	+21	+23	+17	+29	+27	+17	+9
February	+6	+6	+4	-6	-8	0	-14	-10	-16	-12	-8	-22	-32	-22	+8	0	+2	+12	+22	+24	+32	+22	+22	0
March	+14	+12	+4	-2	+4	+12	-4	+16	0	-34	-64	-92	-100	-74	-4	+36	+56	+54	+60	+58	+46	+28	+8	-24
April	+23	-1	+9	+15	+33	+37	+43	+55	+37	-23	-95	-175	-205	-135	-59	+3	+49	+81	+85	+73	+69	+53	+29	+7
May	+21	+33	+29	+23	+51	+47	+25	+15	-35	-91	-161	-229	-245	-159	-73	+13	+81	+137	+139	+131	+101	+65	+47	+35
June	+2	+4	-18	+18	+48	+56	+46	+48	+20	-32	-90	-182	-204	-136	-68	0	+50	+78	+110	+106	+80	+50	+20	+2
July	-18	-42	-28	+8	+44	+44	+52	+52	+6	-62	-130	-164	-174	-124	-62	+6	+54	+90	+114	+114	+100	+66	+44	+18
August	-30	-18	-18	+2	+32	+30	+42	+44	+2	-34	-74	-130	-152	-128	-60	+20	+68	+90	+80	+82	+60	+50	+28	+10
September	-23	-21	-9	+9	+13	+25	+21	+19	-7	-47	-95	-99	-93	-49	+3	+59	+67	+55	+35	+43	+33	+33	+13	+3
October	+34	+14	+16	+24	+30	+30	+30	+26	-8	-52	-88	-94	-90	-60	-8	+20	+34	+30	+28	+30	+22	+14	+10	+2
November	+25	+19	+19	+3	-1	-1	-11	-13	-25	-43	-59	-51	-43	-29	+3	+23	+35	+29	+19	+19	+25	+15	+25	+13
December	+10	-2	-8	-14	-16	-14	-16	-16	-16	-24	-18	-20	-30	-12	+20	+16	+32	+22	+22	+24	+34	+18	+12	-2
Year	+6	-1	-1	+5	+17	+22	+17	+19	-4	-38	-73	-106	-118	-79	-25	+17	+46	+58	+61	+60	+53	+37	+23	+6
Winter	+11	+3	0	-11	-12	-5	-13	-10	-15	-19	-18	-28	-39	-21	+8	+10	+23	+21	+22	+21	+30	+20	+19	+5
Equinox	+12	+1	+5	+11	+20	+26	+23	+29	+5	-39	-85	-115	-122	-80	-17	+29	+51	+55	+52	+51	+43	+32	+15	-3
Summer	-6	-6	-9	+13	+44	+44	+41	+40	-2	-55	-114	-176	-194	-137	-66	+10	+63	+99	+111	+108	+85	+58	+35	+16

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, 1951	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	- 29	- 29	-191	-371	-245	- 19	+ 75	+267	+207	+255	+339	+347	+405	***+461***	+309	+135	+169	+ 9	+ 33	-151	-459	***-777***	-411	-331
February	-119	-269	-265	-137	+ 3	+ 65	- 15	+ 23	+ 79	+ 59	+105	+311	+359	+439	***+495***	+219	+163	-117	+ 37	-245	***-415***	-143	-355	-275
March	-344	-224	-256	-166	-100	- 78	- 88	- 76	-130	- 22	+194	+488	+768	+780	***+846***	+746	+444	+274	-404	-368	-426	-606	***-746***	-498
April	-317	-187	-251	-291	-161	-189	-157	-357	-365	-237	+ 63	+481	+773	***+963***	+793	+825	+487	+145	+ 57	-249	-439	-437	***-585***	-353
May	-669	-279	-359	-313	-387	-415	-333	-317	-223	- 41	+293	+501	+755	***+921***	+813	+753	+723	+329	+293	- 5	-233	-519	-583	***-697***
June	- 47	-285	-275	-203	-165	-447	-465	***-593***	-441	-335	- 83	+239	+511	+611	***+721***	+617	+381	+225	+117	+ 55	- 53	- 91	+ 5	- 3
July	- 35	-377	-453	-255	-267	-185	-169	-323	***-507***	-377	+ 23	+355	+549	+615	***+673***	+587	+291	+279	+151	- 95	-101	-171	-111	- 99
August	-250	- 50	***-432***	-372	- 82	-312	-238	-240	-258	-132	+ 96	+442	+718	***+768***	+706	+558	+442	- 58	-192	-396	-322	- 80	-198	-122
September	+ 21	- 93	-273	-251	+223	***+631***	+431	+121	+ 75	+ 79	+371	+385	+493	+493	+307	+339	-377	- 95	***-737***	-563	-273	-617	-183	-497
October	-168	-204	-298	-114	- 36	+286	+250	+100	+ 76	- 4	+102	+284	+566	+624	***+638***	+556	+144	-360	-254	-232	***-624***	-564	-314	-464
November	-254	-288	- 20	+ 94	+ 12	+120	+130	+ 96	+ 54	+ 80	+144	+366	***+560***	+554	+440	+464	+246	- 18	- 30	-250	-638	-622	***-666***	-572
December	- 97	+105	-217	+ 61	+239	+153	+137	+ 69	+119	+189	+301	+405	+373	***+579***	+347	+303	- 1	- 75	-637	-461	***-809***	-545	-377	-171
Year	-192	-182	-274	-193	- 80	- 33	- 37	-103	-109	- 41	+162	+384	+569	***+651***	+591	+508	+259	+ 45	-130	-247	-399	***-431***	-377	-340
Winter	-125	-120	-173	- 88	+ 2	+ 80	+ 82	+114	+115	+146	+222	+357	+424	***+508***	+398	+280	+144	- 50	-149	-277	***-580***	-522	-452	-337
Equinox	-202	-177	-270	-206	- 18	+163	+109	- 53	- 86	- 46	+183	+410	+650	***+715***	+646	+617	+175	- 9	-335	-353	-440	***-556***	-457	-453
Summer	-250	-248	***-380***	-286	-225	-340	-301	-368	-357	-221	+ 82	+384	+633	***+729***	+728	+629	+459	+194	+ 92	-110	-177	-215	-222	-230

INCLINATION (Unit 0.'01)

January	- 61	- 98	- 85	-128	-120	***-145***	-117	- 84	- 64	- 13	+ 22	- 22	- 6	+ 17	+107	+113	+143	***+159***	+147	+ 86	+ 92	+ 6	+ 38	+ 5
February	-112	***-166***	- 36	- 30	- 39	-158	-125	- 37	+ 3	+ 15	+ 66	+109	***+149***	+144	+132	+116	+135	+122	+ 10	- 59	- 44	- 46	- 57	- 99
March	-137	-102	- 48	- 61	-130	***-150***	-150	- 96	-123	-112	- 36	+ 32	+ 62	+ 51	+ 29	+ 75	+177	***+227***	+222	+187	- 46	+ 77	+ 28	+ 21
April	- 93	-118	-115	- 62	- 87	***-144***	- 90	- 75	- 43	+ 3	+ 35	+122	***+251***	+181	+118	+ 64	+152	+ 67	+ 69	+ 49	- 59	- 55	- 65	-108
May	- 80	***-107***	- 42	- 48	- 66	- 43	+ 8	+ 9	+ 83	***+127***	+100	+ 55	+ 57	+ 15	+ 80	- 4	- 4	- 45	- 86	- 16	+ 54	- 45	- 42	+ 38
June	- 99	- 93	- 90	- 52	- 59	- 76	+ 64	+ 81	+ 94	+117	***+163***	+155	+151	+131	+ 21	+ 23	+ 6	- 12	- 65	- 67	- 75	***-121***	-107	- 83
July	-161	-185	***-203***	-153	-187	- 46	+ 32	+ 51	+ 94	+172	***+203***	+149	+134	+ 84	+102	+ 15	0	- 1	+ 35	+ 25	+ 7	- 12	- 34	-124
August	-107	***-179***	-176	-175	-128	-117	+ 6	- 4	+131	+153	***+192***	+172	+124	+134	+133	+102	+ 46	+ 28	+ 51	- 19	- 42	-103	-118	- 98
September	-201	-245	-260	***-272***	-188	-180	-198	- 84	+ 90	***+359***	+323	+322	+220	+249	+108	+171	+ 93	+102	+ 9	- 40	+ 49	-115	-124	-187
October	-164	-230	-290	***-295***	-166	-186	-164	- 77	+ 63	+ 74	+ 62	+ 72	+ 82	+ 77	+ 45	+127	+180	+185	+275	***+298***	+119	+ 25	- 24	- 97
November	- 87	- 93	- 78	-127	***-157***	-124	-147	-116	- 89	+ 23	+ 11	- 22	+ 48	+158	***+172***	+116	+141	+ 83	+ 73	+133	+ 65	+ 14	+ 59	- 53
December	-163	-200	-200	-208	-185	***-286***	-209	-147	-102	+ 4	+ 81	+138	+ 99	+150	+188	***+276***	+266	+219	+116	+204	+ 28	- 21	+ 14	- 58
Year	-122	***-151***	-135	-134	-126	-138	- 91	- 48	+ 11	+ 77	+102	+107	+115	***+116***	+103	+100	+111	+ 94	+ 72	+ 65	+ 12	- 33	- 36	- 70
Winter	-106	-140	-100	-124	-125	***-179***	-150	- 96	- 64	+ 8	+ 45	+ 51	+ 73	+117	+150	+155	***+172***	+145	+ 87	+ 92	+ 35	- 12	+ 13	- 52
Equinox	-149	-174	***-178***	-173	-142	-165	-151	- 83	- 4	+ 81	+ 96	+137	***+153***	+139	+ 75	+109	+150	+146	+144	+124	+ 16	- 17	- 46	- 93
Summer	-111	***-141***	-127	-107	-109	- 70	+ 27	+ 34	+101	+142	***+164***	+133	+117	+ 90	+ 84	+ 34	+ 12	- 7	- 16	- 19	- 14	- 70	- 75	- 66

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+ 86	+116	+ 84	+152	+126	***+164***	+106	+ 64	+ 36	- 32	- 74	+ 2	- 8	- 16	-122	-104	-128	***-158***	-138	- 56	- 74	+ 28	- 44	- 2
February	+148	+174	- 28	- 26	+ 4	***+178***	+116	- 14	- 60	- 76	-144	-198	***-226***	-186	-128	- 68	- 92	- 58	+ 80	+160	+120	+ 96	+104	+136
March	+135	+ 91	+ 25	+ 51	+135	***+163***	+159	+ 97	+135	+113	- 11	-105	-137	- 79	- 19	- 37	-129	-157	-153	***-159***	+119	-115	- 49	- 69
April	+107	+123	+113	+ 51	+ 87	***+165***	+ 85	+ 63	+ 13	- 77	-135	-259	***-439***	-285	-147	- 23	- 89	+ 57	+ 27	+ 39	+159	+119	+119	+135
May	+ 42	+ 96	+ 32	+ 62	+ 98	+ 56	- 32	- 56	-176	***-246***	-218	-170	-172	- 60	-116	+ 56	+ 92	+218	***+284***	+170	+ 40	+106	+ 36	-144
June	+ 53	+ 79	+ 73	+ 25	+ 43	+ 67	-125	-155	-177	-225	***-313***	-307	-283	-215	- 5	+ 39	+103	+147	+229	+209	+195	***+235***	+179	+121
July	+104	+112	+172	+ 76	+122	- 60	-152	-136	-172	-292	***-334***	-256	-220	-114	- 94	+122	+180	+196	+124	+116	+108	+ 96	+ 96	***+204***
August	+123	***+191***	+165	+173	+109	+ 99	- 53	- 29	-229	-275	***-329***	-307	-241	-225	-167	- 67	+ 69	+137	+ 99	+165	+137	+183	+171	+ 97
September	+182	+210	+258	***+290***	+146	+132	+186	+ 50	-208	***-598***	-508	-490	-294	-298	+ 18	+ 48	+202	+ 90	+168	+124	- 30	+166	+ 56	+ 90
October	+141	+219	***+297***	+267	+ 99	+165	+141	+ 35	-157	-155	-137	-143	-155	-115	+ 1	- 41	- 33	+ 47	-109	***-319***	-129	- 13	+ 23	+ 81
November	+ 82	+ 60	+ 56	+136	***+190***	+152	+188	+146	+102	- 70	- 50	+ 6	- 84	***-216***	-204	- 98	-112	- 16	- 22	-120	- 38	- 20	-102	+ 32
December	+192	+236	+216	+230	+196	***+324***	+204	+142	+ 88	- 68	-154	-204	-124	-178	-184	***-306***	-274	-204	- 58	-214	+ 36	+ 46	- 14	+ 72
Year	+116	***+142***	+122	+124	+113	+134	+ 69	+ 17	- 67	-167	-201	***-203***	-199	-166	- 97	- 40	- 18	+ 25	+ 44	+ 10	+ 54	+ 77	+ 48	+ 63
Winter	+127	+147	+ 82	+123	+129	***+205***	+154	+ 85	+ 42	- 62	-106	- 99	-111	-149	***-160***	-144	-152	-109	- 35	- 58	+ 11	+ 38	- 14	+ 60
Equinox	+141	+161	***+173***	+165	+117	+156	+143	+ 61	- 54	-179	-198	-249	***-256***	-194	- 37	- 13	- 12	+ 9	- 17	- 79	+ 30	+ 39	+ 37	+ 59
Summer	+ 80	+119	+110	+ 84	+ 93	+ 40	- 90	- 94	-189	-259	***-298***	-260	-229	-153	- 95	+ 38	+111	+174	***+184***	+165	+120	+155	+120	+ 69

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

International Disturbed Days

NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1951	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	+ 87	+117	+ 99	+182	+146	+164	+ 98	+ 40	+ 18	- 54	-102	- 28	- 43	- 56	-147	-114	-141	-157	-139	- 42	- 33	+ 95	- 8	+ 27
February	+156	+195	- 5	- 14	+ 4	+170	+116	- 16	- 66	- 80	-151	-222	-254	-222	-169	- 86	-105	- 47	+ 76	+179	+154	+107	+133	+158
March	+163	+109	+ 47	+ 65	+142	+168	+165	+102	+145	+113	- 28	-146	-202	-146	- 92	-101	-166	-179	-116	-125	+154	- 61	+ 16	- 25
April	+133	+138	+133	+ 76	+100	+179	+ 98	+ 93	+ 45	- 55	-139	-297	-500	-365	-214	- 94	-130	+ 44	+ 22	+ 60	+195	+155	+168	+164
May	+100	+119	+ 63	+ 88	+130	+ 91	- 3	- 28	-154	-239	-241	-211	-235	-139	-185	- 10	+ 28	+187	+255	+168	+ 60	+150	+ 86	- 82
June	+ 56	+103	+ 96	+ 42	+ 57	+105	- 83	-102	-136	-193	-302	-324	-324	-265	- 68	- 15	+ 68	+126	+216	+202	+197	+240	+176	+120
July	+106	+143	+209	+ 97	+144	- 43	-135	-106	-126	-255	-332	-283	-265	-166	-151	+ 69	+152	+169	+109	+123	+115	+110	+104	+210
August	+143	+193	+200	+203	+115	+125	- 32	- 8	-204	-260	-333	-341	-300	-289	-226	-115	+ 30	+140	+114	+197	+163	+188	+186	+106
September	+178	+215	+278	+308	+125	+ 76	+146	+ 39	-212	-597	-534	-518	-333	-337	- 9	+ 18	+232	+ 97	+230	+171	- 6	+217	+ 71	+132
October	+154	+234	+319	+273	+101	+138	+117	+ 26	-162	-153	-144	-166	-202	-168	- 54	- 89	- 45	+ 78	- 86	-295	- 73	+ 36	+ 50	+120
November	+103	+ 84	+ 57	+126	+186	+140	+174	+136	+ 96	- 76	- 62	- 26	-132	-261	-240	-137	-132	- 14	- 19	- 97	+ 18	+ 36	- 43	+ 81
December	+198	+224	+232	+222	+173	+307	+189	+134	+ 77	- 84	-178	-237	-155	-226	-212	-328	-270	-195	- 2	-171	+106	+ 93	+ 19	+ 86
Year	+131	+156	+144	+139	+118	+135	+ 71	+ 26	- 57	-161	-212	-234	-246	-220	-147	- 84	- 40	+ 21	+ 55	+ 31	+ 88	+113	+ 80	+ 92
Winter	+136	+156	+ 96	+129	+127	+195	+145	+ 74	+ 31	- 74	-124	-129	-146	-191	-192	-166	-162	-103	- 22	- 33	+ 61	+ 83	+ 25	+ 88
Equinox	+157	+174	+194	+181	+117	+140	+132	+ 65	- 46	-173	-211	-281	-309	-254	- 92	- 66	- 27	+ 10	+ 12	- 47	+ 68	+ 87	+ 76	+ 98
Summer	+101	+139	+142	+108	+111	+ 69	- 63	- 61	-156	-236	-301	-290	-281	-214	-157	- 17	+ 70	+155	+174	+172	+134	+172	+138	+ 88

WEST COMPONENT (Unit 0.1γ)

January	- 2	+ 3	- 89	-174	-111	+ 16	+ 57	+153	+117	+131	+170	+186	+216	+244	+146	+ 56	+ 70	- 20	- 4	- 90	-258	-412	-227	-178
February	- 40	-116	-146	- 78	+ 2	+ 63	+ 11	+ 10	+ 33	+ 19	+ 33	+135	+156	+205	+245	+106	+ 73	- 72	+ 33	-106	-203	- 61	-173	-125
March	-163	-105	-133	- 81	- 32	- 16	- 22	- 25	- 48	+ 6	+102	+245	+389	+405	+450	+394	+217	+122	-241	-223	-209	-343	-407	-278
April	-153	- 80	-116	-148	- 72	- 75	- 70	-181	-193	-139	+ 12	+216	+344	+470	+401	+438	+247	+ 87	+ 35	-127	-210	-215	-294	-167
May	-352	-134	-187	-158	-192	-213	-183	-179	-148	- 61	+122	+241	+377	+484	+417	+412	+402	+211	+202	+ 25	-118	-261	-307	-396
June	- 17	-140	-136	-105	- 81	-229	-269	-342	-264	-215	- 95	+ 79	+228	+293	+385	+337	+221	+144	+ 99	+ 63	+ 3	- 11	+ 31	+ 18
July	- 2	-184	-215	-124	-123	-109	-115	-195	-299	-249	- 41	+149	+259	+311	+345	+334	+185	+181	+101	- 32	- 37	- 76	- 44	- 20
August	-114	+ 4	-205	-172	- 26	-151	-136	-133	-175	-115	- 1	+188	+346	+375	+351	+288	+248	- 9	- 87	-186	-151	- 14	- 79	- 50
September	+ 40	- 16	-105	- 88	+143	+359	+261	+ 73	+ 7	- 53	+117	+128	+217	+216	+167	+189	-170	- 36	-368	-282	-151	-304	- 89	-252
October	- 67	- 76	-112	- 19	- 3	+180	+156	+ 59	+ 16	- 27	+ 33	+129	+278	+316	+342	+291	+ 72	-185	-153	-175	-355	-304	-164	-235
November	-123	-145	- 2	+ 72	+ 37	+ 89	+100	+ 75	+ 45	+ 32	+ 69	+197	+286	+262	+203	+233	+114	- 12	- 20	-153	-348	-336	-373	-301
December	- 21	+ 94	- 82	+ 69	+159	+134	+106	+ 60	+ 78	+ 90	+137	+184	+180	+282	+156	+113	- 44	- 73	-350	-281	-427	-284	-204	- 80
Year	- 84	- 75	-127	- 84	- 25	+ 4	- 9	- 52	- 69	- 49	+ 55	+173	+273	+322	+301	+266	+136	+ 28	- 63	-131	-205	-218	-194	-172
Winter	- 47	- 41	- 80	- 28	+ 22	+ 76	+ 69	+ 75	+ 68	+ 68	+102	+175	+209	+248	+188	+127	+ 53	- 44	- 85	-158	-309	-273	-244	-171
Equinox	- 86	- 69	-117	- 84	+ 9	+112	+ 81	- 19	- 55	- 53	+ 66	+180	+307	+352	+341	+328	+ 92	- 3	-181	-202	-231	-291	-239	-233
Summer	-121	-114	-186	-140	-106	-176	-176	-212	-221	-160	- 4	+164	+302	+366	+375	+343	+264	+132	+ 79	- 33	- 76	- 90	- 99	-112

VERTICAL COMPONENT (Unit 0.1γ)

January	- 12	- 72	- 98	- 92	-122	-122	-158	-144	-140	-118	- 96	- 70	- 40	+ 22	+ 86	+152	+200	+184	+190	+170	+148	+ 86	+ 30	+ 12
February	- 43	-171	-191	-165	-127	-135	-163	-161	-129	-125	-107	- 83	- 9	+ 67	+159	+245	+255	+287	+221	+167	+127	+ 63	+ 43	- 27
March	-162	-142	-108	- 94	-136	-140	-154	-108	-112	-126	-152	-134	-102	- 8	+ 58	+174	+314	+422	+416	+278	+118	0	- 16	- 86
April	- 74	-122	-136	- 98	- 98	-116	-116	-114	-120	-170	-194	-178	-150	- 34	+ 68	+168	+320	+366	+304	+262	+164	+ 86	+ 50	- 62
May	-179	-149	- 71	- 23	- 1	- 19	- 47	- 99	-121	-131	-161	-205	-201	- 89	+ 9	+115	+201	+351	+363	+339	+281	+ 89	- 61	-203
June	-220	-140	-142	-124	-106	-108	- 70	- 80	- 86	-118	-162	-176	-134	- 46	+ 62	+172	+260	+302	+308	+254	+192	+126	+ 46	- 6
July	-317	-383	-303	-355	-345	-299	-243	-139	- 73	- 83	- 71	- 77	- 45	+ 25	+135	+337	+419	+453	+409	+357	+275	+181	+107	+ 43
August	- 84	-178	-228	-204	-192	-176	-104	- 82	- 78	-110	-100	-118	-130	- 58	+ 74	+200	+320	+416	+408	+318	+174	+ 68	- 12	-114
September	-275	-361	-301	-271	-313	-319	-255	-177	-171	-143	- 59	- 21	+ 79	+173	+417	+707	+793	+565	+421	+151	+ 99	- 13	-299	-439
October	-243	-289	-317	-403	-347	-263	-241	-185	-147	-105	-103	- 83	- 77	+ 1	+157	+347	+549	+753	+703	+293	+113	+ 57	- 31	-149
November	-110	-182	-142	-126	-104	- 76	- 72	- 64	- 70	- 82	- 76	- 62	- 28	+ 46	+122	+174	+230	+250	+202	+182	+136	+ 2	- 34	-110
December	-119	-147	-193	-187	-185	-239	-251	-179	-151	-145	- 77	+ 5	+ 55	+105	+225	+245	+285	+285	+269	+211	+181	+ 33	+ 17	- 35
Year	-153	-195	-186	-178	-173	-168	-156	-128	-116	-121	-113	-100	- 65	+ 17	+131	+253	+345	+386	+351	+248	+167	+ 65	- 13	- 98
Winter	- 71	-143	-156	-143	-135	-143	-161	-137	-123	-117	- 89	- 53	- 5	+ 60	+148	+204	+243	+251	+220	+183	+148	+ 46	+ 14	- 40
Equinox	-189	-229	-215	-217	-223	-209	-191	-146	-138	-136	-127	-104	- 63	+ 33	+175	+349	+494	+527	+461	+246	+124	+ 33	- 74	-184
Summer	-200	-213	-186	-177	-161	-150	-116	-100	- 90	-110	-124	-144	-128	- 42	+ 70	+206	+300	+380	+372	+317	+230	+116	+ 20	- 70

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 0h U.T. and converted into arc at the rate of 15° to each hour.

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT							
	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
	All Days																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+ 0.5	+3.8	-1.8	+0.1	+0.8	-2.3	-0.3	+0.3	-12.2	- 1.8	-0.8	+ 4.3	-0.7	+1.4	+2.1	+2.3	+2.8	- 6.1	- 1.5	-1.4	+0.2	-0.4	-0.4	-0.3
Feb.	+ 6.9	+2.7	-2.7	-2.1	+2.0	-2.2	0.0	+0.5	-12.6	- 4.0	+3.6	+ 4.5	+0.1	-2.1	+1.0	+1.4	+1.1	- 8.8	- 3.4	-0.8	+0.6	-0.1	-0.2	-0.2
March	+ 9.4	+3.4	-4.0	-3.5	+1.3	-1.9	-0.6	+1.7	-16.3	- 7.0	+3.5	+ 9.6	-1.6	-4.3	+1.0	+1.7	+2.4	- 9.9	- 6.9	-0.4	+1.8	+1.5	-0.3	-0.4
April	+15.3	-1.3	-7.2	-1.4	+2.8	-0.4	+0.1	+0.3	-16.2	-16.1	+4.0	+13.3	-0.7	-4.8	+1.6	+1.0	+2.8	-13.8	- 9.2	-2.8	+3.0	+1.2	-0.3	-0.7
May	+14.0	-6.1	-8.5	0.0	+0.2	-0.1	+1.4	-0.2	-14.0	-19.8	+7.7	+11.9	-4.1	-2.3	+0.6	+0.7	+6.7	- 9.0	-10.9	-1.8	+1.8	+0.2	-1.0	-0.2
June	+16.7	-6.5	-9.1	-0.9	+0.2	+0.4	-0.4	-0.4	- 8.2	-22.5	+5.6	+11.6	-2.1	-2.4	+0.8	+0.1	+5.6	- 8.1	- 8.7	-1.5	+1.9	+0.2	-1.2	-0.5
July	+17.2	-7.0	-8.4	+1.6	+0.6	-0.7	+1.5	-0.3	- 7.1	-20.8	+4.8	+12.3	-2.6	-3.5	+0.8	-0.4	+3.5	-11.4	- 9.3	-3.7	+2.0	+0.8	-1.0	-0.7
August	+18.8	-5.5	-6.8	+1.1	-1.8	-2.5	+0.7	0.0	-11.5	-15.0	+8.4	+10.5	-3.8	-3.1	+0.9	+0.3	+2.3	-10.5	- 9.3	-1.8	+2.3	+1.4	-0.3	-0.3
Sept.	+16.2	-3.3	-6.8	+4.8	0.0	-4.4	+0.1	+0.5	-15.6	- 9.3	+6.6	+ 8.0	-3.6	-5.6	+2.6	+0.5	-5.3	-17.5	- 9.2	-0.8	+2.9	+0.1	-1.2	-1.5
Oct.	+11.5	+2.8	-5.7	-0.4	+2.0	-2.1	+0.1	+0.1	-13.7	- 5.0	+1.8	+10.8	-2.6	-3.1	+2.4	+2.6	-0.8	-11.2	- 7.2	-0.7	+2.1	+1.2	0.0	-0.5
Nov.	+ 5.1	+5.9	-3.2	-3.6	+0.4	-0.7	+1.3	-0.1	-15.0	- 1.8	-2.3	+ 7.0	-0.4	-0.8	+1.8	+0.4	+0.8	- 8.6	- 3.6	-0.3	+0.8	-0.6	-0.3	-0.2
Dec.	+ 5.6	+5.2	-3.7	-2.9	+1.7	-2.3	+0.5	+0.6	-11.8	+ 2.5	-0.4	+ 6.9	-1.1	-1.1	+0.7	+1.3	+0.1	- 9.1	- 2.6	-0.1	+0.1	-0.1	-0.5	0.0
Year	+11.4	-0.5	-5.7	-0.6	+0.9	-1.6	+0.4	+0.2	-12.8	-10.1	+3.7	+ 9.2	-1.9	-2.6	+1.4	+1.0	+1.8	-10.3	- 6.8	-1.4	+1.6	+0.5	-0.5	-0.5
Winter	+ 4.5	+4.4	-2.8	-2.1	+1.2	-1.9	+0.4	+0.3	-12.9	- 1.3	0.0	+ 5.6	-0.5	-0.7	+1.4	+1.4	+1.2	- 8.2	- 2.8	-0.7	+0.4	-0.3	-0.4	-0.2
Equinox	+13.1	+0.4	-6.0	-0.1	+1.6	-2.2	-0.1	+0.7	-15.4	- 9.3	+4.0	+10.4	-2.1	-4.4	+1.9	+1.5	-0.2	-13.1	- 8.1	-1.2	+2.4	+1.0	-0.4	-0.8
Summer	+16.7	-6.3	-8.2	+0.4	-0.3	-0.8	+0.8	-0.2	-10.2	-19.5	+6.6	+11.6	-3.2	-2.9	+0.8	+0.2	+4.5	- 9.8	- 9.6	-2.2	+2.0	+0.6	-0.8	-0.5
	INTERNATIONAL QUIET DAYS																							
Year	+ 9.0	-2.0	-5.9	-0.5	+1.0	-1.7	+0.4	+0.2	- 7.3	-12.7	+4.6	+ 7.5	-3.4	-2.3	+1.1	+1.3	+4.2	- 2.4	- 4.8	-0.9	+1.6	-0.1	-0.7	-0.3
Winter	+ 1.6	+0.6	-4.1	-1.3	+1.3	-1.8	+0.4	+0.7	- 6.0	- 2.8	+0.4	+ 4.0	-2.1	-0.3	+1.7	+1.4	+1.5	- 2.2	- 0.8	-0.4	+0.6	-0.1	-0.4	-0.2
Equinox	+10.4	-1.8	-4.6	-0.6	+1.5	-2.3	-0.2	+0.4	- 8.0	-12.8	+5.7	+ 6.9	-4.8	-3.5	+1.2	+1.9	+4.1	- 2.2	- 5.1	-0.6	+2.1	-0.3	-1.0	-0.2
Summer	+14.9	-5.1	-9.2	+0.5	+0.3	-0.8	+1.2	-0.4	- 7.9	-22.4	+7.6	+11.7	-3.3	-3.1	+0.5	+0.4	+7.0	- 2.7	- 8.5	-1.8	+2.1	+0.4	-0.7	-0.4
	INTERNATIONAL DISTURBED DAYS																							
Year	+17.2	+0.1	-6.6	-0.3	+1.3	-1.3	-0.1	-0.3	-18.0	- 5.5	+2.9	+10.9	+0.3	-4.5	+2.4	+0.6	-3.7	-24.6	-10.7	-0.1	+1.7	+2.0	-0.1	-1.3
Winter	+13.3	+7.8	-3.3	-3.1	-0.3	-2.1	+1.4	+0.9	-17.5	+ 3.7	+1.7	+ 7.6	+1.8	-1.6	+3.0	+1.3	-2.7	-19.1	- 4.9	+1.4	+0.8	0.0	-0.1	-0.6
Equinox	+18.0	+1.9	-7.2	+1.3	+4.0	-2.1	-1.4	-0.6	-20.8	- 2.7	+2.5	+12.7	+0.7	-7.7	+2.4	+0.6	-7.4	-32.2	-14.2	+1.5	+3.6	+3.7	+0.5	-2.5
Summer	+20.2	-9.4	-9.2	+0.8	+0.3	0.0	-0.3	-1.4	-15.8	-17.5	+4.5	+12.4	-1.4	-4.2	+1.8	-0.3	-0.9	-22.6	-13.1	-3.1	+1.0	+2.1	-0.8	-0.8

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

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

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

Month and Season	NORTH COMPONENT								WEST COMPONENT								VERTICAL COMPONENT							
	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
	All Days																							
	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
Jan.	3.8	8	1.8	274	2.4	162	0.4	317	12.3	262	4.4	350	1.6	335	3.1	44	6.7	156	2.1	228	0.4	155	0.5	235
Feb.	7.4	69	3.4	233	3.0	139	0.5	2	13.2	253	5.8	39	2.1	178	1.7	37	8.9	173	3.5	258	0.6	101	0.3	227
March	10.0	70	5.3	230	2.3	147	1.8	342	17.7	247	10.2	21	4.6	202	2.0	32	10.2	167	6.9	267	2.3	51	0.5	218
April	15.4	95	7.3	260	2.8	99	0.3	20	22.8	226	13.9	17	4.9	189	1.9	60	14.1	169	9.6	254	3.2	69	0.8	205
May	15.3	114	8.5	271	0.2	118	1.4	100	24.3	216	14.2	34	4.7	242	0.9	42	11.2	144	11.0	261	1.8	85	1.0	260
June	17.9	112	9.1	265	0.4	28	0.6	227	23.9	200	12.9	27	3.2	222	0.8	84	9.8	146	8.8	261	1.9	85	1.3	249
July	18.6	112	8.6	282	0.9	141	1.5	103	22.0	199	13.2	22	4.4	218	0.9	118	11.9	163	10.0	249	2.2	69	1.2	237
August	19.6	107	6.9	280	3.1	217	0.7	92	18.9	218	13.4	39	4.9	232	0.9	73	10.7	168	9.5	260	2.7	60	0.4	227
Sept.	16.5	102	8.3	306	4.4	181	0.5	13	18.2	240	10.4	40	6.7	214	2.6	81	18.3	197	9.2	266	2.9	89	1.9	220
Oct.	11.8	77	5.7	267	2.9	138	0.1	47	14.6	250	10.9	10	4.0	221	3.5	44	11.2	184	7.2	265	2.4	61	0.5	182
Nov.	7.8	41	4.8	222	0.8	151	1.3	96	15.1	264	7.4	343	0.9	208	1.8	79	8.6	175	3.6	266	1.0	128	0.4	238
Dec.	7.6	47	4.7	233	2.9	145	0.8	41	12.1	282	6.9	357	1.6	226	1.5	30	9.1	180	2.6	269	0.1	136	0.5	272
Year	11.4	93	5.7	265	1.8	152	0.4	65	16.3	232	9.9	23	3.2	217	1.7	56	10.5	170	6.9	259	1.7	74	0.7	227
Winter	6.3	46	3.5	234	2.2	149	0.5	55	13.0	265	5.6	1	0.9	217	2.0	47	8.3	172	2.9	257	0.5	128	0.4	245
Equinox	13.1	89	6.0	270	2.7	145	0.7	353	18.0	239	11.1	22	4.9	207	2.4	53	13.1	181	8.2	262	2.6	69	0.9	208
Summer	17.8	111	8.2	274	0.9	202	0.8	106	22.0	208	13.3	30	4.3	229	0.8	78	10.8	156	9.8	258	2.1	74	0.9	240
	INTERNATIONAL QUIET DAYS																							
Year	9.2	103	5.9	266	2.0	151	0.4	65	14.6	210	8.8	32	4.1	237	1.7	42	4.8	120	4.9	260	1.6	95	0.8	248
Winter	1.7	70	4.3	253	2.2	145	0.8	31	6.6	245	4.0	6	2.1	263	2.2	52	2.7	146	0.9	244	0.6	101	0.4	245
Equinox	10.6	100	4.6	263	2.7	148	0.4	335	15.1	212	8.9	40	5.9	235	2.2	34	4.7	119	5.1	264	2.1	99	1.0	260
Summer	15.7	109	9.2	274	0.9	161	1.3	110	23.8	200	14.0	34	4.5	228	0.6	53	7.5	111	8.7	259	2.1	80	0.8	242
	INTERNATIONAL DISTURBED DAYS																							
Year	17.2	90	6.6	268	1.8	136	0.3	200	18.8	253	11.3	16	4.5	177	2.5	78	24.9	189	10.7	270	2.6	42	1.3	186
Winter	15.4	60	4.5	228	2.1	189	1.7	59	17.9	282	7.8	13	2.4	133	3.3	68	19.3	188	5.1	287	0.8	91	0.6	191
Equinox	18.1	84	7.3	281	4.5	119	1.5	248	21.0	263	12.9	12	7.7	176	2.5	78	33.0	193	14.3	277	5.2	45	2.5	170
Summer	22.3	115	9.2	276	0.3	91	1.4	194	23.6	222	13.2	21	4.4	200	1.8	101	22.6	183	13.5	257	2.3	27	1.1	227

TABLE X. - RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1951

Month and Season	All Days			Quiet Days			Disturbed Days			All Days			Quiet Days			Disturbed Days		
	D	I	H	D	I	H	D	I	H	X	Y	Z	X	Y	Z	X	Y	Z
	′	′	γ	′	′	γ	′	′	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
January	6.78	1.14	11.8	4.12	1.02	14.4	12.38	3.04	32.2	13.0	34.1	14.3	14.9	22.3	7.8	33.9	65.6	35.8
February	6.64	1.26	17.3	3.62	0.83	13.0	9.10	3.15	40.4	20.8	33.8	19.1	11.8	19.1	6.4	44.9	44.8	47.8
March	9.65	1.55	20.0	6.64	1.56	26.8	15.92	3.77	32.2	24.9	49.5	29.5	29.0	34.7	16.0	37.0	85.7	58.4
April	11.47	1.86	32.2	10.10	1.83	33.2	15.48	3.95	60.4	38.7	60.0	39.8	35.9	52.9	29.0	69.5	76.4	56.0
May	12.69	1.84	39.8	14.52	1.90	38.2	16.18	2.34	53.0	39.2	67.6	40.6	37.1	77.7	38.4	49.6	88.0	56.8
June	11.69	2.23	45.1	13.32	2.80	50.4	13.14	2.84	54.8	45.8	63.4	34.6	50.5	71.3	31.4	56.4	72.7	52.8
July	11.19	2.54	47.2	11.02	2.14	42.4	11.80	4.06	53.8	44.6	63.6	37.3	39.7	60.0	28.8	54.1	64.4	83.6
August	10.86	2.62	44.5	11.16	2.55	43.8	12.00	3.71	52.0	45.7	58.2	34.8	42.6	60.8	24.2	54.4	58.0	64.4
September	9.73	3.10	41.9	12.64	3.08	49.4	13.68	6.31	88.8	44.1	50.9	48.9	47.3	71.5	16.6	90.5	72.7	123.2
October	8.96	1.84	28.4	7.22	1.65	29.6	12.62	5.91	61.6	31.3	45.6	30.6	29.6	38.9	12.8	61.4	69.7	115.6
November	7.28	1.89	20.7	5.36	1.04	15.4	12.26	3.29	40.6	23.3	37.4	18.4	17.4	27.9	9.4	44.7	65.9	43.2
December	7.33	1.76	21.7	3.88	0.87	12.4	13.88	5.62	63.0	22.9	37.8	18.4	13.9	20.3	6.4	63.5	70.9	53.6
Year	9.52	1.97	30.9	8.63	1.77	30.8	13.20	4.00	52.7	32.7	50.2	30.5	30.8	46.4	18.9	55.0	69.6	65.9
Winter	7.01	1.51	17.9	4.24	0.94	13.8	11.90	3.78	44.0	20.0	35.8	17.6	14.5	22.4	7.5	46.8	61.8	45.1
Equinox	9.95	2.09	30.6	9.15	2.03	34.8	14.42	4.99	60.8	34.8	51.5	37.2	35.4	49.5	18.6	64.6	76.1	88.3
Summer	11.61	2.31	44.2	12.50	2.35	43.7	13.28	3.24	53.4	43.8	63.2	36.8	42.5	67.4	30.7	53.6	70.8	64.4

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

Month 1951	All Days			Quiet Days			Disturbed Days		
	Declination West	Horizontal Intensity	Vertical Intensity	Declination Westt	Horizontal Intensity	Vertical Intensity	Declination West	Horizontal Intensity	Vertical Intensity
	′	γ	γ	′	γ	γ	′	γ	γ
January	−0.13	−1.0	+0.5	+0.16	+ 1.0	−0.2	−1.22	− 6.6	− 1.2
February	+0.06	+1.3	−0.4	+0.88	+ 7.8	−1.8	−1.56	− 8.0	+.0.8
March	+0.06	+0.5	0.0	−0.16	+11.4	−4.0	−2.14	−17.2	+ 3.6
April	−0.02	+0.7	−0.1	−1.20	+ 2.8	−3.0	+1.70	− 4.4	− 7.6
May	−0.02	+0.1	+0.1	−0.14	+ 6.2	−0.6	+0.90	−21.8	− 2.6
June	−0.06	−0.5	+0.1	−0.44	+ 2.8	−2.2	−0.46	− 6.2	+ 3.0
July	−0.12	0.0	−0.1	−0.02	+ 1.8	0.0	−0.46	− 3.2	+17.0
August	+0.03	+0.1	+0.1	−0.40	+ 5.0	+1.6	+1.38	− 9.6	− 7.8
September	+0.01	+0.1	+0.5	+0.60	+ 4.8	+1.6	−4.40	−19.8	−33.0
October	+0.01	−0.5	+0.1	+0.66	+ 9.2	−4.0	−2.06	−11.2	+ 1.4
November	−0.00	+0.2	−0.1	−0.34	+ 5.2	−2.2	−2.46	− 4.0	− 3.6
December	−0.01	+0.1	0.0	+0.18	+ 3.2	−1.8	+0.94	−13.4	+ 6.4
Year	..	..	..	−0.02	+ 5.1	−1.4	−0.82	−10.5	− 2.0

TABLE XII. - MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS

Month 1951	Declination West	Inclination	Intensity				
			Horizontal	North	West	Vertical	Total
	° ′	° ′	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	9 15.9	66 42.3	.18642	.18398	.03001	.43297	.47140
February	9 15.0	66 42.6	.18638	.18396	.02996	.43299	.47140
March	9 14.6	66 42.4	.18641	.18399	.02994	.43298	.47141
April	9 13.7	66 42.3	.18642	.18401	.02990	.43298	.47141
May	9 12.8	66 41.8	.18651	.18410	.02986	.43300	.47146
June	9 12.8	66 41.2	.18659	.18419	.02987	.43299	.47149
July	9 11.9	66 41.4	.18658	.18418	.02983	.43302	.47150
August	9 11.2	66 41.8	.18653	.18413	.02978	.43303	.47150
September	9 10.2	66 42.8	.18640	.18402	.02971	.43311	.47152
October	9 10.0	66 42.7	.18644	.18406	.02970	.43316	.47158
November	9 9.4	66 42.3	.18650	.18412	.02968	.43317	.47161
December	9 8.8	66 42.1	.18653	.18416	.02965	.43316	.47161
Year	9 12.2	66 42.1	.18648	.18408	.02982	.43305	.47149

TABLE XIII. - DAILY MEAN VALUE OF THE BASE-LINE OF THE DECLINATION MAGNETOGRAMS

Day	January	February	March	April	May	June	July	August	September	October	November	December
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	8 49.5	8 49.6	8 49.6	8 49.8	8 49.8	8 50.0	8 50.1	8 50.0	8 50.0	8 50.2	8 50.5	8 50.4
2	49.6	49.6	49.6	49.8	50.0	50.0	50.1	50.0	50.0	50.2	50.5	50.5
3	49.6	49.6	49.7	49.8	50.0	50.0	50.0	50.1	50.0	50.2	50.5	50.3
4	49.5	49.6	49.7	49.8	50.0	49.9	50.1	50.1	50.0	50.1	50.5	50.3
5	49.5	49.6	49.7	49.8	50.0	49.9	50.0	50.1	50.0	50.1	50.5	50.3
6	49.6	49.6	49.7	49.8	50.0	50.1	49.9	50.0	50.0	50.1	50.4	50.3
7	49.5	49.6	49.7	49.8	50.1	50.0	50.0	50.0	50.0	50.3	50.5	50.4
8	49.7	49.6	49.7	49.9	50.1	50.0	50.0	50.0	50.0	50.2	50.5	50.3
9	49.5	49.5	49.7	49.8	50.0	50.0	50.0	50.0	50.0	50.2	50.6	50.3
10	49.6	49.7	49.7	49.8	49.9	50.0	50.0	50.0	50.0	50.2	50.5	50.2
11	49.6	49.6	49.7	49.8	50.0	50.0	50.0	50.0	50.0	50.1	50.4	50.3
12	49.6	49.6	49.6	49.8	50.1	50.0	50.0	50.0	50.0	50.2	50.5	50.3
13	49.6	49.7	49.7	49.8	50.0	49.9	50.0	50.0	50.0	50.1	50.5	50.4
14	49.6	49.6	49.7	49.8	50.1	50.0	50.1	50.0	49.9	50.1	50.6	50.4
15	49.6	49.6	49.6	49.7	50.0	50.1	50.1	50.0	50.1	50.3	50.4	50.4
16	49.6	49.7	49.7	49.8	50.0	50.1	50.1	50.1	50.0	50.2	50.5	50.3
17	49.5	49.6	49.7	49.8	50.0	50.0	50.1	50.0	50.0	50.2	50.5	50.3
18	49.4	49.7	49.6	49.8	50.1	50.0	50.0	50.0	50.0	50.3	50.5	50.3
19	49.6	49.6	49.7	49.8	50.0	50.1	50.0	50.0	50.0	50.4	50.3	50.3
20	49.5	49.6	49.7	49.8	49.9	50.1	50.1	50.0	49.9	50.4	50.4	50.3
21	49.5	49.7	49.7	49.9	50.1	50.2	50.0	50.0	50.1	50.5	50.4	50.3
22	49.5	49.6	49.7	49.8	50.0	50.1	50.0	50.1	50.2	50.5	50.4	50.3
23	49.6	49.6	49.8	49.9	50.0	50.1	50.0	50.0	50.2	50.6	50.4	50.3
24	49.5	49.6	49.7	50.1	50.0	50.1	50.1	50.0	50.2	50.6	50.4	50.3
25	49.5	49.6	49.9	50.0	50.0	50.2	50.1	50.1	50.2	50.5	50.4	50.3
26	49.5	49.7	49.9	50.0	50.0	50.1	50.0	50.0	50.2	50.5	50.4	50.3
27	49.5	49.7	49.9	50.1	49.9	50.1	50.0	50.0	50.2	50.5	50.4	50.2
28	49.6	49.6	49.9	49.9	49.9	50.1	50.0	50.0	50.2	50.4	50.4	50.3
29	49.7		49.8	50.0	50.0	50.1	50.0	50.0	50.2	50.5	50.3	50.3
30	49.6		49.8	49.7	50.0	50.0	50.0	50.0	50.2	50.6	50.3	50.2
31	49.5		49.7		50.1		50.0	50.0		50.6		50.2

June 5. Recording-Room Temperature raised from 16°.0 C to 21°.0 C.

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

	Universal Time		No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line
	h m	h m		γ	γ
Jan. 1	10 22	- 10 33	8	18664	18483
2	10 19	- 10 28	8	18648	18483
3	10 25	- 10 38	8	18647	18483
4	10 15	- 10 25	8	18645	18483
5	10 19	- 10 28	8	18647	18483
6	10 24	- 10 33	8	18639	18482
8	10 15	- 10 25	8	18650	18483
9	10 13	- 10 22	8	18642	18482
10	9 54	- 10 3	8	18644	18482
11	10 18	- 10 28	8	18642	18482
13	10 8	- 10 19	8	18634	18482
15	10 23	- 10 32	8	18645	18483
16	10 32	- 10 40	8	18631	18483
17	10 17	- 10 26	8	18632	18482
18	10 2	- 10 13	8	18640	18481
19	10 12	- 10 25	8	18649	18483
20	10 17	- 10 28	8	18637	18482
22	10 17	- 10 26	8	18622	18482
23	10 8	- 10 16	8	18609	18482
24	10 20	- 10 28	8	18634	18482
25	10 6	- 10 14	8	18632	18482
26	10 10	- 10 19	8	18648	18482
27	10 9	- 10 21	8	18641	18482
29	10 25	- 10 35	8	18637	18481
30	9 57	- 10 8	8	18650	18482
31	9 50	- 10 2	8	18583	18480
Feb. 1	10 16	- 10 25	8	18604	18482
2	10 22	- 10 32	8	18635	18482
3	10 23	- 10 32	8	18635	18481
5	10 8	- 10 20	8	18659	18481
6	10 26	- 10 35	8	18593	18480
7	10 27	- 10 37	8	18624	18481
8	10 10	- 10 19	8	18630	18481
9	12 40	- 12 50	8	18622	18482
10	10 34	- 10 43	8	18629	18481
12	10 23	- 10 32	8	18631	18481
13	10 26	- 10 36	8	18635	18481
14	10 33	- 10 41	8	18634	18481
15	9 58	- 10 8	8	18645	18482
16	10 32	- 10 41	8	18644	18481
17	10 14	- 10 24	8	18637	18482
19	10 29	- 10 39	8	18631	18482
20	10 17	- 10 28	8	18638	18482
21	10 21	- 10 32	8	18642	18482
22	10 14	- 10 26	8	18631	18482
23	10 20	- 10 34	8	18632	18482
24	10 10	- 10 23	8	18608	18482
26	11 36	- 11 45	8	18630	18482
27	10 16	- 10 27	8	18609	18482
28	10 13	- 10 23	8	18621	18482
Mar. 1	10 01	- 10 13	8	18631	18481
2	10 06	- 10 19	8	18633	18483
3	10 12	- 10 24	8	18645	18482
5	10 25	- 10 37	8	18659	18483
6	10 20	- 10 33	8	18663	18482
8	9 22	- 9 34	8	18625	18480
9	10 4	- 10 16	8	18630	18481
10	10 9	- 10 19	8	18631	18482
12	10 29	- 10 39	8	18616	18481
13	10 19	- 10 28	8	18608	18481
Mar. 14	10 10	- 10 18	8	18612	18480
15	9 51	- 10 01	8	18631	18481
16	9 55	- 10 07	8	18631	18481
17	10 17	- 10 27	8	18596	18480
19	10 6	- 10 18	8	18634	18481
20	9 57	- 10 10	8	18647	18482
21	10 27	- 10 37	8	18650	18481
22	10 10	- 10 21	8	18648	18481
24	10 15	- 10 26	8	18625	18481
27	10 11	- 10 22	8	18621	18481
28	10 20	- 10 29	8	18626	18481
29	10 22	- 10 31	8	18621	18481
30	10 23	- 10 32	8	18632	18482
31	10 04	- 10 14	8	18637	18481
Apr. 2	10 11	- 10 18	8	18642	18480
3	10 19	- 10 28	8	18607	18481
4	10 21	- 10 32	8	18606	18481
5	10 19	- 10 30	8	18585	18480
6	10 20	- 10 30	8	18600	18480
7	10 9	- 10 18	8	18614	18480
9	10 13	- 10 25	8	18609	18480
10	10 15	- 10 24	8	18612	18481
11	10 30	- 10 39	8	18627	18481
12	10 11	- 10 23	8	18623	18480
13	10 19	- 10 30	8	18628	18480
14	10 7	- 10 18	8	18608	18480
16	9 31	- 9 40	8	18637	18481
17	9 15	- 9 24	8	18638	18481
19	9 21	- 9 29	8	18627	18482
20	11 8	- 11 16	8	18626	18482
21	9 4	- 9 13	8	18613	18482
23	9 16	- 9 27	8	18619	18481
24	9 26	- 9 35	8	18620	18481
25	9 24	- 9 33	8	18602	18481
26	9 29	- 9 39	8	18615	18481
27	9 20	- 9 31	8	18647	18483
28	9 10	- 9 20	8	18659	18481
30	9 34	- 9 45	8	18647	18482
May 1	9 19	- 9 28	8	18605	18480
2	9 31	- 9 40	8	18581	18479
3	9 17	- 9 26	8	18614	18481
4	9 07	- 9 16	8	18607	18481
5	9 09	- 9 27	8	18627	18481
7	9 19	- 9 32	4	18620	18480
8	9 22	- 9 32	8	18623	18481
9	9 16	- 9 25	8	18622	18481
10	9 18	- 9 30	8	18626	18480
11	9 21	- 9 31	8	18612	18480
15	9 24	- 9 35	8	18653	18481
16	9 37	- 9 48	8	18614	18480
17	9 17	- 9 27	8	18619	18480
18	9 27	- 9 38	8	18630	18480
19	9 14	- 9 24	8	18635	18481
21	9 9	- 9 21	8	18631	18480
22	9 12	- 9 25	8	18644	18480
23	9 32	- 9 42	8	18623	18479
24	9 15	- 9 24	8	18632	18482
25	9 27	- 9 36	8	18644	18480
26	9 14	- 9 22	8	18641	18481
28	9 35	- 9 44	8	18643	18482
May 30	9 26	- 9 34	8	18633	18479
31	9 21	- 9 30	8	18648	18482
June 1	9 24	- 9 36	8	18665	18481
2	9 10	- 9 19	8	18635	18481
4	9 19	- 9 28	8	18639	18480
6	10 25	- 10 36	8	18632	18479
7	9 34	- 9 42	8	18616	18479
8	10 33	- 10 42	8	18624	18479
9	9 14	- 9 23	8	18624	18478
11	9 26	- 9 35	8	18652	18480
12	9 14	- 9 23	8	18626	18479
13	9 09	- 9 18	8	18654	18481
14	9 20	- 9 29	8	18627	18479
15	9 18	- 9 28	8	18633	18479
16	9 15	- 9 25	8	18614	18478
18	9 23	- 9 33	8	18602	18479
19	9 05	- 9 14	8	18627	18479
20	9 25	- 9 35	8	18636	18479
21	9 18	- 9 31	8	18656	18481
22	9 14	- 9 30	8	18625	18477
23	9 27	- 9 38	8	18622	18479
25	9 25	- 9 34	8	18642	18479
26	9 27	- 9 36	8	18654	18480
27	9 14	- 9 24	8	18657	18480
28	9 09	- 9 17	8	18671	18481
29	9 25	- 9 33	8	18654	18479
30	9 14	- 9 23	8	18659	18479
July 2	8 32	- 8 47	8	18631	18479
3	9 00	- 9 17	8	18613	18478
4	9 06	- 9 15	8	18628	18479
5	9 21	- 9 30	8	18633	18479
6	9 12	- 9 21	8	18632	18479
7	8 49	- 9 04	8	18641	18478
9	9 17	- 9 30	8	18631	18478
10	9 11	- 9 20	8	18641	18480
11	9 12	- 9 24	8	18629	18478
12	9 13	- 9 22	8	18625	18478
13	9 08	- 9 16	8	18635	18480
14	8 59	- 9 08	8	18659	18479
16	9 14	- 9 25	8	18637	18481
17	9 13	- 9 23	8	18612	18479
18	9 11	- 9 21	8	18630	18479
19	9 15	- 9 28	8	18610	18478
20	8 56	- 9 08	8	18641	18479
21	9 33	- 9 42	8	18640	18479
23	8 49	- 9 01	8	18607	18478
25	10 31	- 10 38	8	18636	18477
26	9 22	- 9 34	8	18646	18479
27	9 33	- 9 41	8	18603	18477
28	9 16	- 9 28	8	18640	18478
30	9 26	- 9 35	8	18636	18477
31	9 25	- 9 35	8	18616	18477
Aug. 1	9 31	- 9 41	8	18616	18476
2	9 20	- 9 29	8	18617	18476
3	9 13	- 9 23	8	18619	18476
4	9 23	- 9 33	8	18636	18478
7	9 19	- 9 30	8	18632	18476
8	9 24	- 9 33	8	18628	18476

June 5. Recording-Room Temperature raised from 16°0 C to 21°0 C.

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

Universal Time	No. of Obs.	Observed Horizontal Intensity	Deduced Value of Base-line
		γ	γ
Aug. 9	9 31 - 9 42	8	18622	18476
10	9 25 - 9 36	8	18639	18476
11	9 33 - 9 42	8	18665	18479
13	9 19 - 9 30	8	18642	18477
14	9 27 - 9 36	8	18634	18477
16	8 50 - 9 02	8	18586	18477
17	9 25 - 9 33	8	18635	18476
18	9 30 - 9 40	8	18633	18477
20	9 32 - 9 43	8	18630	18477
21	9 35 - 9 45	8	18609	18476
22	9 31 - 9 41	8	18579	18475
23	9 18 - 9 28	8	18628	18477
24	9 22 - 9 33	8	18615	18475
25	9 36 - 9 46	8	18620	18476
27	9 27 - 9 40	8	18636	18476
28	9 32 - 9 43	8	18632	18476
29	9 22 - 9 35	8	18623	18475
30	9 24 - 9 35	8	18634	18475
31	9 31 - 9 43	8	18642	18476
Sept. 1	9 35 - 9 45	8	18621	18476
3	9 30 - 9 39	8	18631	18476
4	9 22 - 9 31	8	18622	18476
5	9 32 - 9 40	8	18624	18477
6	9 14 - 9 22	8	18632	18477
7	9 14 - 9 24	8	18640	18477
8	9 21 - 9 31	8	18618	18475
10	9 28 - 9 37	8	18624	18477
11	8 55 - 9 07	8	18645	18477
12	8 56 - 9 07	8	18599	18475
13	9 34 - 9 46	8	18632	18476
14	9 19 - 9 33	8	18607	18476
15	8 59 - 9 12	8	18620	18476
17	9 00 - 9 12	8	18583	18476
18	9 10 - 9 23	8	18628	18477
19	9 20 - 9 33	7	18646	18476
21	9 25 - 9 33	8	18511	18474
22	9 35 - 9 44	5	18618	18475
24	9 27 - 9 37	8	18632	18475
25	8 57 - 9 09	8	18639	18475
Sept. 26	9 06 - 9 20	8	18594	18475
27	8 36 - 8 46	8	18631	18475
28	9 09 - 9 18	8	18632	18477
29	8 56 - 9 06	8	18651	18477
Oct. 1	9 21 - 9 31	8	18637	18476
2	9 16 - 9 25	8	18632	18475
3	9 29 - 9 38	8	18625	18475
4	9 16 - 9 26	8	18628	18476
5	14 58 - 15 09	8	18667	18477
6	9 28 - 9 37	8	18636	18476
8	10 51 - 11 02	8	18617	18476
9	10 34 - 10 44	8	18622	18474
10	9 34 - 9 43	8	18636	18476
11	9 12 - 9 25	8	18626	18476
12	9 33 - 9 43	8	18647	18476
13	9 21 - 9 31	8	18644	18476
15	10 17 - 10 28	8	18625	18475
16	8 43 - 8 52	8	18633	18476
17	8 59 - 9 10	8	18595	18475
18	8 58 - 9 07	8	18582	18474
19	9 27 - 9 38	8	18631	18475
20	9 28 - 9 36	8	18631	18475
22	10 29 - 10 38	8	18627	18476
23	10 28 - 10 39	8	18633	18476
24	11 38 - 11 49	8	18649	18476
25	11 31 - 11 46	8	18649	18476
26	11 39 - 11 51	8	18645	18476
27	11 27 - 11 42	8	18643	18476
29	10 30 - 10 38	8	18597	18475
31	11 33 - 11 42	8	18626	18475
Nov. 1	10 26 - 10 38	8	18627	18475
2	10 16 - 10 27	8	18645	18476
3	10 26 - 10 37	8	18648	18476
5	10 27 - 10 36	8	18645	18475
6	10 30 - 10 40	8	18619	18475
7	10 15 - 10 32	8	18623	18475
8	9 43 - 9 54	8	18659	18476
Nov. 9	11 38 - 11 51	8	18653	18475
10	10 22 - 10 31	8	18666	18477
12	10 35 - 10 42	8	18636	18475
13	10 30 - 10 38	8	18625	18473
14	12 20 - 12 32	8	18621	18473
15	10 36 - 10 47	8	18602	18474
16	11 27 - 11 44	8	18630	18473
17	10 16 - 10 24	8	18660	18474
19	10 32 - 10 41	8	18654	18475
20	10 26 - 10 34	8	18656	18474
21	10 34 - 10 42	8	18664	18475
22	10 33 - 10 41	8	18674	18475
23	10 26 - 10 34	8	18652	18475
24	10 24 - 10 32	8	18650	18476
26	10 31 - 10 39	8	18658	18476
27	10 19 - 10 34	8	18651	18475
28	10 33 - 10 40	8	18675	18475
29	10 40 - 10 49	8	18660	18475
30	10 25 - 10 33	8	18647	18474
Dec. 1	10 24 - 10 31	8	18641	18475
3	11 30 - 11 38	8	18646	18475
4	10 31 - 10 40	8	18664	18475
5	9 31 - 9 43	8	18651	18475
6	10 15 - 10 24	8	18660	18475
7	10 27 - 10 39	8	18656	18475
8	10 28 - 10 37	8	18640	18475
11	10 29 - 10 38	8	18645	18475
13	10 06 - 10 18	8	18648	18474
14	9 57 - 10 13	8	18658	18475
15	9 30 - 9 46	8	18655	18475
17	10 07 - 10 22	8	18669	18474
18	10 10 - 10 25	8	18648	18475
19	12 23 - 12 35	8	18661	18475
20	9 50 - 10 07	8	18642	18474
21	12 22 - 12 37	8	18659	18474
22	11 40 - 11 54	8	18626	18474
27	10 16 - 10 27	8	18683	18476
28	10 30 - 10 41	8	18578	18473
29	10 24 - 10 35	8	18633	18474
31	10 29 - 10 40	8	18631	18474

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

	Universal Time	No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line
	h m h m		γ	γ
Jan. 1	10 02 - 10 16	8	43292	43048
2	9 58 - 10 16	8	43295	43050
3	9 55 - 10 19	8	43298	43050
4	9 51 - 10 08	8	43295	43049
5	9 58 - 10 15	8	43296	43050
6	9 58 - 10 18	8	43300	43051
8	9 46 - 10 10	8	43290	43051
9	9 54 - 10 8	8	43293	43051
10	9 29 - 9 49	8	43292	43051
11	10 00 - 10 13	8	43297	43050
13	9 41 - 10 00	8	43296	43050
15	9 53 - 10 19	8	43294	43051
16	10 3 - 10 28	8	43297	43051
17	9 55 - 10 12	8	43297	43052
18	9 31 - 9 53	8	43295	43053
19	9 46 - 10 6	8	43287	43050
20	9 53 - 10 13	8	43293	43050
22	9 47 - 10 11	8	43291	43050
23	9 49 - 10 3	8	43293	43049
24	9 55 - 10 16	8	43292	43050
25	9 44 - 10 01	8	43292	43048
26	9 50 - 10 06	8	43282	43048
27	9 49 - 10 04	8	43297	43052
29	9 59 - 10 19	8	43298	43050
30	9 33 - 9 51	6	43294	43051
31	10 13 - 10 28	8	43274	43049
Feb. 1	9 52 - 10 10	8	43296	43048
2	10 02 - 10 19	8	43305	43052
3	10 02 - 10 21	8	43297	43049
5	9 46 - 10 04	8	43293	43049
6	10 07 - 10 23	8	43302	43049
7	10 06 - 10 23	8	43293	43049
8	9 46 - 10 06	8	43301	43050
9	10 08 - 10 34	8	43291	43048
10	10 14 - 10 31	8	43294	43050
12	10 02 - 10 20	8	43291	43049
13	10 06 - 10 22	8	43298	43050
14	10 08 - 10 29	8	43299	43051
15	9 39 - 9 56	8	43293	43049
16	10 11 - 10 28	8	43300	43051
17	9 53 - 10 10	8	43290	43051
19	9 49 - 10 24	8	43284	43049
20	9 48 - 10 12	8	43294	43050
21	9 58 - 10 18	8	43290	43050
22	9 47 - 10 10	8	43273	43048
23	9 50 - 10 14	8	43282	43049
24	9 47 - 10 06	8	43294	43051
26	9 56 - 10 37	8	43287	43051
27	9 49 - 10 10	8	43288	43051
28	9 41 - 10 02	8	43272	43051
Mar. 1	9 35 - 9 55	8	43295	43051
2	9 40 - 9 58	8	43297	43051
3	9 47 - 10 05	8	43293	43052
5	9 52 - 10 19	8	43283	43049
6	9 52 - 10 12	8	43282	43050
7	9 40 - 9 54	8	43279	43051
8	9 44 - 10 22	8	43285	43049
9	9 31 - 9 54	8	43285	43050
10	9 36 - 10 02	8	43282	43049
12	9 59 - 10 24	8	43288	43050
Mar. 14	10 30 - 10 50	8	43298	43052
15	10 13 - 10 38	8	43302	43050
16	10 14 - 10 38	8	43289	43050
19	9 45 - 10 02	8	43294	43050
20	10 20 - 10 45	8	43291	43051
21	9 54 - 10 21	8	43286	43051
22	9 44 - 10 04	8	43284	43050
24	9 48 - 10 12	8	43300	43052
27	9 43 - 10 07	8	43289	43052
28	9 50 - 10 16	8	43301	43050
29	9 59 - 10 19	8	43282	43050
30	9 55 - 10 19	8	43279	43049
31	9 40 - 9 58	8	43296	43049
Apr. 2	9 53 - 10 5	8	43286	43049
3	9 56 - 10 15	8	43280	43050
4	9 52 - 10 16	8	43287	43050
5	9 51 - 10 14	8	43280	43049
6	9 47 - 10 16	8	43273	43049
7	9 46 - 10 05	8	43288	43051
9	9 49 - 10 09	8	43285	43050
10	9 54 - 10 08	8	43287	43050
11	10 00 - 10 28	8	43283	43049
12	9 35 - 9 58	8	43292	43049
13	9 52 - 10 16	8	43275	43048
14	9 40 - 10 02	8	43294	43049
16	9 09 - 9 27	8	43302	43050
17	8 51 - 9 09	8	43287	43050
18	8 35 - 8 51	8	43284	43050
19	9 04 - 9 17	8	43290	43049
20	10 45 - 11 03	8	43286	43048
21	8 35 - 8 57	8	43287	43047
23	8 55 - 9 13	8	43300	43048
24	8 52 - 9 13	8	43295	43047
25	8 55 - 9 19	8	43301	43047
26	9 04 - 9 23	8	43306	43047
27	8 53 - 9 14	8	43296	43048
28	8 42 - 9 02	8	43298	43048
30	9 10 - 9 30	8	43292	43050
May 1	8 55 - 9 13	8	43267	43048
2	9 03 - 9 27	8	43304	43051
3	8 49 - 9 13	8	43301	43052
4	8 45 - 9 03	8	43292	43051
5	8 37 - 9 01	8	43301	43050
7	8 53 - 9 14	8	43289	43050
8	8 54 - 9 13	8	43296	43050
9	8 54 - 9 13	8	43296	43051
10	8 49 - 9 13	8	43287	43049
11	8 54 - 9 18	8	43301	43049
15	8 51 - 9 19	8	43293	43048
16	8 58 - 9 32	8	43293	43049
17	8 48 - 9 13	8	43278	43050
18	8 59 - 9 23	8	43290	43049
19	8 46 - 9 09	8	43297	43049
21	8 44 - 9 03	8	43291	43050
22	8 40 - 9 04	8	43283	43048
23	9 03 - 9 29	8	43276	43049
24	8 50 - 9 09	8	43303	43048
25	9 01 - 9 25	8	43281	43050
26	8 55 - 9 10	8	43299	43051
28	9 04 - 9 31	8	43289	43052
May 29	8 54 - 9 14	8	43290	43049
30	8 53 - 9 20	8	43292	43052
31	8 51 - 9 16	8	43291	43051
June 1	9 02 - 9 19	8	43282	43050
2	8 51 - 9 06	8	43283	43049
4	8 55 - 9 15	8	43290	43049
6	9 11 - 9 33	8	43297	43050
7	9 09 - 9 29	8	43302	43050
8	9 12 - 9 31	8	43287	43050
9	8 48 - 9 11	8	43290	43048
11	9 00 - 9 23	8	43288	43049
12	8 50 - 9 10	8	43295	43051
13	8 50 - 9 04	8	43303	43049
14	8 56 - 9 17	8	43289	43050
15	8 55 - 9 14	8	43283	43051
16	8 51 - 9 12	8	43296	43051
18	8 55 - 9 19	8	43285	43050
19	8 43 - 9 00	8	43279	43049
20	9 01 - 9 20	8	43299	43049
21	8 46 - 9 13	8	43299	43050
22	8 39 - 9 11	8	43303	43048
23	9 02 - 9 18	8	43294	43049
25	9 01 - 9 21	8	43290	43051
26	9 03 - 9 23	8	43306	43047
27	8 45 - 9 11	8	43297	43050
28	8 56 - 9 05	8	43297	43050
29	8 48 - 9 21	8	43288	43051
30	8 55 - 9 11	8	43295	43052
July 2	9 02 - 9 29	8	43285	43052
3	8 50 -	1	43314	43051
20	9 28 - 9 40	8	43288	43049
21	9 12 - 9 27	8	43297	43050
23	9 06 - 9 33	8	43303	43051
25	9 08 - 9 33	8	43296	43049
26	8 59 - 9 17	8	43293	43049
27	9 11 - 9 31	8	43299	43051
28	8 56 - 9 11	8	43294	43051
30	8 51 - 9 18	8	43300	43049
31	9 02 - 9 21	8	43284	43050
Aug. 1	8 51 - 9 26	8	43300	43049
2	8 59 - 9 17	8	43301	43049
3	8 53 - 9 10	8	43293	43050
4	8 55 - 9 17	8	43291	43049
7	8 52 - 9 12	8	43286	43051
8	8 57 - 9 22	8	43307	43050
9	9 07 - 9 27	8	43294	43050
10	8 58 - 9 20	8	43297	43050
11	9 11 - 9 30	8	43285	43050
13	8 42 - 9 15	8	43279	43051
14	9 06 - 9 22	8	43303	43049
15	9 07 - 9 29	8	43303	43050
17	9 01 - 9 21	8	43293	43048
18	8 48 - 9 24	8	43296	43047
20	8 57 - 9 28	8	43294	43049
21	9 03 - 9 30	8	43306	43049
22	8 53 - 9 23	8	43294	43048
23	8 54 - 9 12	8	43305	43050
24	8 50 - 9 14	8	43302	43049

June 5. Recording-Room Temperature raised from 16°0 C to 21°0 C.

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

Universal Time	No. of Obs.	Observed Vertical Intensity	Deduced Value of Base-line
		Y	Y
Aug. 25 9 02 - 9 29	8	43299	43049
27 8 51 - 9 20	8	43305	43050
28 9 01 - 9 27	8	43310	43051
29 8 53 - 9 17	8	43310	43050
30 8 58 - 9 18	8	43307	43050
31 8 50 - 9 21	8	43293	43049
Sept. 1 8 56 - 9 29	8	43295	43049
3 9 06 - 9 26	8	43300	43051
4 8 58 - 9 18	8	43297	43053
5 9 07 - 9 29	8	43299	43051
6 8 49 - 9 11	8	43301	43052
7 8 47 - 9 10	8	43304	43050
8 9 00 - 9 18	8	43297	43051
10 9 04 - 9 24	8	43297	43051
11 8 23 - 8 45	8	43307	43053
12 8 29 - 8 47	8	43308	43051
13 8 52 - 9 19	8	43299	43052
14 8 32 - 9 05	8	43309	43053
15 8 25 - 8 55	8	43305	43052
17 8 19 - 8 47	8	43315	43053
18 8 18 - 8 47	8	43309	43051
19 8 37 - 9 06	8	43298	43050
20 8 41 - 9 09	8	43295	43050
21 9 02 - 9 22	8	43303	43051
22 8 54 - 9 14	8	43305	43052
24 8 54 - 9 21	8	43314	43051
25 8 22 - 8 50	8	43313	43051
26 8 39 - 9 01	8	43330	43051
27 8 56 - 9 19	8	43314	43051
28 8 51 - 9 06	8	43317	43051
29 8 36 - 8 50	8	43313	43051
Oct. 1 8 55 - 9 17	8	43310	43051
2 8 53 - 9 13	8	43308	43050
3 8 56 - 9 26	8	43308	43051
4 8 54 - 9 11	8	43310	43050
5 9 24 - 9 41	8	43312	43049
6 8 56 - 9 24	8	43310	43052
8 9 16 - 9 38	8	43321	43051
9 9 19 - 9 35	8	43319	43052
10 9 14 - 9 31	8	43307	43048
11 8 36 - 8 59	8	43314	43051
12 9 12 - 9 29	8	43313	43049
13 8 57 - 9 15	8	43303	43052
15 9 8 - 9 26	6	43314	43050
16 8 20 - 8 40	8	43310	43050
17 8 30 - 8 47	8	43304	43051
18 8 32 - 8 53	8	43315	43050
19 9 06 - 9 24	8	43313	43051
20 9 08 - 9 25	8	43314	43051
22 9 59 - 10 25	8	43303	43049
23 9 57 - 10 23	8	43302	43049
24 10 12 - 10 33	8	43300	43049
25 10 08 - 10 31	8	43302	43049
26 10 13 - 10 48	8	43291	43049
27 10 11 - 10 35	8	43301	43049
29 9 57 - 10 26	6	43332	43048
30 15 58 - 16 14	8	43333	43048
31 9 57 - 10 44	8	43314	43049
Nov. 1 9 31 - 10 11	8	43313	43050
2 9 50 - 10 10	8	43301	43049
3 9 59 - 10 22	8	43304	43049
5 10 07 - 10 23	8	43318	43051
Nov. 6 9 57 - 10 25	8	43312	43046
7 9 24 - 10 03	8	43315	43050
8 9 11 - 9 36	8	43318	43052
9 10 05 - 10 40	8	43302	43040
10 9 45 - 10 17	8	43307	43046
12 9 58 - 10 26	10	43320	43054
13 9 57 - 10 26	8	43313	43048
14 10 24 - 10 39	8	43312	43043
15 10 05 - 10 32	8	43309	43050
16 10 12 - 10 34	8	43314	43050
17 9 55 - 10 12	8	43308	43052
19 10 03 - 10 29	8	43304	43044
20 9 57 - 10 23	8	43308	43047
21 10 00 - 10 31	8	43312	43053
22 9 57 - 10 30	10	43297	43043
23 9 58 - 10 24	8	43306	43045
24 9 51 - 10 20	8	43311	43045
26 10 10 - 10 26	8	43313	43050
27 9 53 - 10 13	8	43316	43053
28 10 07 - 10 30	8	43300	43042
29 10 13 - 10 35	8	43312	43051
30 9 50 - 10 11	8	43309	43052
Dec. 1 9 59 - 10 21	8	43305	43051
3 10 06 - 10 36	8	43306	43043
4 10 00 - 10 26	8	43312	43052
5 10 00 - 10 24	8	43312	43052
6 9 51 - 10 09	8	43301	43046
7 9 56 - 10 23	8	43312	43052
8 10 03 - 10 24	8	43309	43053
11 10 00 - 10 25	8	43314	43053

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

Day	January	February	March	April	May	June	July	August	September	October	November	December
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	43044	43042	-	-	-	-	-	-	43049	43053	-	43045
2	43046	43049	-	43045	-	-	-	-	-	43044	43044	-
3	43042	43044	-	43044	43045	-	-	-	43051	43046	43046	43045
4	43046	-	-	-	-	-	-	-	43051	-	-	43045
5	43043	43044	-	43045	-	-	-	-	43045	-	43047	43046
6	43046	43046	-	43044	-	-	-	-	43048	43048	43048	43044
7	-	43045	-	43041	43050	-	-	-	43051	-	-	43037
8	43045	43044	-	-	43047	-	-	-	43049	-	43045	43048
9	43042	43045	-	43044	43044	-	-	-	-	43050	43046	-
10	43042	-	-	43041	-	-	-	-	43050	-	43045	-
11	43045	-	-	43043	43046	-	-	-	43049	-	-	43043
12	-	43043	-	-	-	-	-	-	43040	-	43047	-
13	-	43043	-	43045	-	-	-	-	-	-	43048	43045
14	-	43042	43047	43043	-	-	-	-	-	-	43048	43045
15	43043	43045	43044	-	-	-	-	-	-	43046	43045	-
16	43047	43042	43047	-	-	-	-	-	-	43049	43047	-
17	43042	43046	43047	43044	-	-	-	-	-	-	43045	-
18	43043	-	-	43043	-	-	-	-	-	43052	-	43046
19	-	43047	43045	43041	-	-	-	-	-	-	43045	43045
20	43044	43047	-	43041	-	-	-	-	-	43051	43044	-
21	-	-	43045	-	-	-	-	-	-	-	43045	43044
22	43043	-	43044	-	-	-	-	-	-	43052	43046	43045
23	43045	-	-	-	-	-	-	-	-	43045	43045	-
24	43044	-	43046	-	-	-	-	-	-	43048	43047	-
25	43044	-	-	-	-	-	-	-	-	43046	-	-
26	43042	-	-	-	-	-	-	-	43048	43049	43047	-
27	43045	-	43048	-	-	-	-	-	-	43050	43043	43046
28	-	-	43046	-	-	-	-	-	43052	-	43042	-
29	43045		43043	-	-	-	-	-	43044	43050	-	43047
30	-		43040	-	-	-	-	-	-	-	43041	-
31	-		-		-		-	-		43048		-

TABLE XV(B). - OBSERVATIONS OF VERTICAL INTENSITY MADE WITH THE BMZ 35 AS AN ADDITIONAL CHECK UPON THE STABILITY OF THE Z-VARIOMETER BASE-LINE VALUES

Universal Time		Number of Observations	Observed Vertical Intensity	Deduced Value of Base-line
	h m h m		γ	γ
Feb. 13	9 43 - 9 55	10	43316	43067
14	9 47 - 9 58	10	43315	43067
June 6	8 49 - 8 59	10	43318	43067
7	8 48 - 8 59	10	43321	43067
8	8 48 - 8 56	10	43304	43067
July 5	8 55 - 9 12	10	43323	43071
6	8 53 - 9 05	10	43324	43070
9	8 51 - 9 02	10	43317	43073
10	8 54 - 9 04	10	43324	43073
11	8 52 - 9 03	10	43328	43074
12	8 58 - 9 05	10	43317	43073
13	8 54 - 9 02	10	43312	43072
14	8 45 - 8 54	10	43317	43071
16	8 58 - 9 06	10	43324	43073
17	8 56 - 9 07	10	43318	43071
18	8 51 - 9 02	10	43322	43073
19	8 53 - 9 01	10	43320	43071
20	8 36 - 8 44	10	43315	43071
25	8 49 - 8 58	10	43319	43071
July 27	8 47 - 9 02	10	43319	43071
28	8 38 - 8 46	10	43315	43071
Oct. 16	15 15 - 15 28	10	43347	43071
Nov. 13	9 31 - 9 44	10	43330	43067
14	9 54 - 10 02	10	43337	43066
16	9 44 - 9 52	10	43330	43066
Dec. 14	16 18 - 16 27	10	43332	43065
17	12 25 - 12 36	10	43332	43070
18	14 45 - 14 58	10	43337	43068
19	10 23 - 10 34	10	43336	43068
21	10 15 - 10 31	10	43328	43068
22	10 16 - 10 27	10	43337	43068
27	12 39 - 12 46	10	43322	43067
28	10 14 - 10 22	10	43336	43068
29	10 06 - 10 15	10	43339	43067
31	10 13 - 10 21	10	43331	43068

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

Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip	Year	Declination West	Horizontal Intensity	Vertical Intensity	Dip
	° ′	C.G.S.Unit	C.G.S.Unit	° ′		° ′	C.G.S.Unit	C.G.S.Unit	° ′
1818	24 19 †	..	..	..	1882	18 22.3	0.1806	0.4375	67 34.2
1819	24 21	..	..	..	1883	18 15.0	0.1812	0.4381	67 31.7
1820	24 21	..	..	..	1884	18 7.6	0.1814	0.4379	67 29.7
1841	23 16.2	..	..	..	1885	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.6	..	..	..	1886	17 54.5	0.1818	0.4377	67 27.1
1843	23 11.7	..	..	69 0.6	1887	17 49.1	0.1819	0.4380	67 26.6
1844	23 15.3	..	..	69 0.3	1888	17 40.4	0.1822	0.4383	67 25.6
1845	22 56.7	..	..	68 57.5	1889	17 34.9	0.1823	0.4380	67 24.3
1846	22 49.6	0.1731	..	68 58.1	1890	17 28.6	0.1825	0.4381	67 23.0
1847	22 51.3	0.1736	..	68 59.0	1891	17 23.4	0.1827	0.4380	67 21.5
1848	22 51.8	0.1731	..	68 54.7	1892	17 17.4	0.1829	0.4379	67 20.0
1849	22 37.8	0.1733	..	68 51.3	1893	17 11.4	0.1831	0.4373	67 17.9
1850	22 23.5	0.1738	..	68 46.9	1894	17 4.6	0.1831	0.4374	67 17.4
1851	22 18.3	0.1744	..	68 40.4	1895	16 57.4	0.1834	0.4378	67 16.1
1852	22 17.9	0.1745	..	68 42.7	1896	16 51.7	0.1835	0.4382	67 15.1
1853	22 10.1	0.1748	..	68 44.6	1897	16 45.8	0.1838	0.4377	67 13.5
1854	22 0.8	0.1749	..	68 47.7	1898	16 39.2	0.1840	0.4377	67 12.1
1855	21 48.4	0.1756	..	68 44.6	1899	16 34.2	0.1843	0.4380	67 10.5
1856	21 43.5	0.1759	..	68 43.5	1900	16 29.0	0.1846	0.4380	67 8.8
1857	21 35.4	0.1769	..	68 31.1	1901	16 26.0	0.1850	0.4381	67 6.4
1858	21 30.3	0.1762	..	68 28.3	1902	16 22.8	0.1852	0.4377	67 3.8
1859	21 23.5	0.1761	..	68 26.9	1903	16 19.1	0.1852	0.4368	67 1.2
1860	21 14.3	..	..	68 30.1	1904	16 15.0	0.1854	0.4359	66 57.6
1861	21 5.5	0.1773	..	68 24.6	1905	16 9.9	0.1854	0.4355	66 56.3
					1906	16 3.6	0.1854	0.4353	66 55.6
1861	..	0.1759	..	68 15.8	1907	15 59.8	0.1855	0.4357	66 56.2
1862	20 52.6	0.1763	0.4403	68 9.6	1908	15 53.5	0.1854	0.4356	66 56.3
1863	20 45.9	0.1764	0.4396	68 7.0	1909	15 47.6	0.1854	0.4348	66 54.1
1864	..	0.1767	0.4393	68 4.1	1910	15 41.2	0.1855	0.4345	66 52.8
1865	20 33.9	0.1767	0.4388	68 2.7	1911	15 33.0	0.1855	0.4342	66 52.1
1866	20 28.0	0.1773	0.4397	68 1.3	1912	15 24.3	0.1855	0.4340	66 51.8
1867	20 20.5	0.1777	0.4392	67 57.2	1913	15 15.2	0.1853	0.4333	66 50.5
1868	20 13.1	0.1779	0.4395	67 56.5					
1869	20 4.1	0.1782	0.4396	67 54.8					
1870	19 53.0	0.1784	0.4392	67 52.5	1914	15 6.3	0.1853	0.4333	66 50.8
1871	19 41.9	0.1786	0.4389	67 50.3	1915	14 56.5	0.1851	0.4331	66 51.6
1872	19 36.8	0.1789	0.4383	67 47.8	1916	14 46.9	0.1848	0.4326	66 52.2
1873	19 33.4	0.1793	0.4386	67 45.8	1917	14 37.1	0.1848	0.4330*	66 53.0
1874	19 28.9	0.1797	0.4387	67 43.6	1918	14 27.8	0.1846	0.4325	66 52.8
1875	19 21.2	0.1797	0.4383	67 42.4	1919	14 18.2	0.1845	0.4324	66 53.3
1876	19 8.3	0.1799	0.4383	67 41.0	1920	14 8.6	0.1845	0.4325	66 53.6
1877	18 57.2	0.1800	0.4381	67 39.7	1921	13 57.6	0.1845	0.4322	66 53.0
1878	18 49.3	0.1802	0.4382	67 38.2	1922	13 46.7	0.1844	0.4318	66 52.3
1879	18 40.5	0.1805	0.4382	67 37.0	1923	13 35.1	0.1843	0.4314	66 51.9
1880	18 32.6	0.1805	0.4380	67 35.7	1924	13 22.8	0.1843	0.4311	66 51.6
1881	18 27.1	0.1807	0.4379	67 34.7	1925	13 9.9	0.1841	0.4308	66 51.4

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

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

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

† Mean of seven months June to December.

* Mean of ten months, March to December.

TABLE XVI(B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS DETERMINED AT THE ABINGER MAGNETIC STATION, FOR THE YEARS 1925-1951

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
1948	9 35.4	0.18593	0.43255	66 44.4
1949	9 27.5	0.18507	0.43273	66 44.0
1950	9 19.7	0.18628	0.43288	66 43.0
1951	9 12.2	0.18648	0.43305	66 42.1

The values of Inclination are computed from the corresponding values of horizontal and vertical intensity.

Commencing with the years 1927 and 1929 respectively, the values of horizontal and vertical intensity are based upon observations with Coil-magnetometers.

* Discontinuities of -1.7γ in H and -3.9γ in Z were introduced in 1938. See Introduction pp. x and x1.

January. Limited activity was recorded on 2^d, the largest movement in the form of a polar bay occurring between $19\frac{1}{2}^h$ and $20\frac{1}{2}^h$, (H +70γ, D 12′ E). By the following day conditions had become fairly quiet, and continued so until 10^d, the only significant movement in the traces during this period being a double easterly bay in D at 5^d21^h and 5^d22^h of about 10′. A fall in the value of H occurring between 10^d16^h and $18\frac{1}{2}^h$ marked the beginning of a revival of activity which continued on a moderate scale for several days. Amongst the most outstanding movements was a westerly movement in D of 12′ (PSC with pulsations) between $11^d0^h53^m$ and 1^h4^m followed by a recovery between 1^h9^m and 1^h40^m. The initial movement was accompanied by a pulsating increase in H of 30γ. An easterly PSC with pulsations, of 9′, was recorded in D between $11^d22^h5^m$ and 22^h20^m with an accompanying positive bay in H. A movement of similar character occurred in H (+50γ) between $16^d21^h21^m$ and 21^h28^m, accompanied by an easterly bay in D, these movements occurring during a period of increased activity which was followed next day by a quiet spell. Minor movements were recorded during the night hours of 18^d to 19^d and on a more pronounced scale during the following night, when an easterly movement in D between 19^d21^h and 21^h44^m of 12′ was followed by an unsteady recovery which continued until about 20^d3^h. A further quiet spell terminated with a slow fall in the value of H and an accompanying rise in Z beginning about 21^d14^h. This marked the commencement of a further spell of activity. Noteworthy was an easterly bay in D (17′) occurring between 21^d21^h and $22\frac{1}{2}^h$ and a similar movement on a larger scale between 22^d20^h and 22^h (25′). The latter was accompanied by a positive bay in H of +70γ. This spell of activity, which continued until the end of 23^d, has been classified as being of storm intensity. Between 26^d18^h and 27^d1^h a shallow positive bay in Z (+40γ) was accompanied by a similar negative bay in H (-50γ) while for some ten hours or so, commencing at 26^d18^h the D trace exhibited an irregular oscillatory movement with period very roughly one hour. The month ended with a further outbreak of activity which continued throughout 31^d and showed a noteworthy sequence of oscillations in D, of the order of 10′ double amplitude, between 3^h and 9^h.

Ranges for the month: D, from 8°47′.2 to 9°28′.8 both on 22^d; H, from .18558 on 22^d to .18703 on 2^d; Z, from .43248 on 31^d to .43346 on 26^d.

February. Little of note occurred upon the traces until following the appearance of agitation in the morning of 5^d which later developed into large movements in the elements. Outstanding amongst these was a positive peak in H, with maximum (+80γ) at $6^d0^h5^m$ and of overall duration about 30 minutes. This was accompanied between $5^d23^h56^m$ and $6^d0^h14^m$ by a westerly movement in D of 13′. A second sharp increase in H (+90γ) occurred between 0^h50^m and 1^h10^m, an irregular recovery being made during the following two hours. Between 1^h20^m and 2^h30^m there was an easterly swing in D of 24′ at a time when Z had reached a minimum value. By 6^h the traces exhibited only small scale agitation. A drop in the value of H between 8^d15^h and $16\frac{1}{2}^h$ marked the commencement of several hours of fairly sharp activity. H rose +60γ from 17^h20^m to a peak at 17^h31^m and again +100γ from 18^h30^m to a peak at 39^m. These movements were preceded by easterly peaks in D at 17^h24^m and 18^h34^m respectively, while the second was further accompanied by an increase in Z of 27γ between 18^h34^m and 38^m, followed by a drop of 40γ during the subsequent 20 minutes. Disturbance continued for several days, though this was limited mainly to the night hours in accordance with the diurnal tendency. Of the more outstanding movements were a rise in H of 100γ from $10^d22^h5^m$ to a maximum at 22^h32^m with recovery during the following hour. This was accompanied by an easterly peak (15′) in D at 22^h21^m and a similar small movement (+15γ) in Z. Following an irregular slow rise H dropped 90γ between $11^d23^h46^m$ and $12^d0^h18^m$. Between $12^d17^h52^m$ and 18^h28^m the D trace swung 22′ easterly to a sharp maximum, from which it recovered during the next 70 minutes. At $12^d23^h1^m$ H rose sharply by 50γ (PSC) to a maximum at 23^h14^m from which it recovered during the following 45 minutes. From 15^d to 20^d the traces continued comparitively featureless, but agitation appearing during the morning of 21^d slowly developed into activity of storm intensity which extended from 22^d to 24^d. Peak values in H, representing fluctuations of the order of 100γ, occurred at $22^d21^h7^m$, $23^d18^h59^m$, $23^d19^h53^m$, $23^d22^h40^m$ and $23^d23^h15^m$ with a comparable minimum at $24^d16^h47^m$. Outstanding easterly peaks of similar magnitude occurred in D at $22^d19^h42^m$, $23^d18^h43^m$, $23^d20^h37^m$ and $24^d17^h6^m$. From 24^d4^h to 11^h D was subject to an oscillatory movement similar to that described following January 26^d18^h. On 25^d between $21\frac{1}{2}^h$ and $22\frac{1}{2}^h$ there was a positive bay in H (60γ) with small accompanying movements in D and Z. On 27^d, following a period of some hours of minor disturbance there occurred at 0^h27^m6 a sudden commencement (H +67γ, D 6′W, Z +10γ). Between 1^h55^m and 2^h37^m H fell steadily by 135γ to a sharp minimum from which it rose suddenly by 40γ in about four minutes. Following the SC, D swung from its most westerly value at 0^h46^m to an extreme easterly value at 2^h36^m through 32′. By 2^h40^m it had returned by 6′ and continued to move westward through another 12′ during the next 30 minutes. This sharp movement of sudden commencement

type at 2^h36^m was accompanied by a similar movement in Z (+14γ). Following these movements the character of the traces changed entirely from occasional large movements to small and rapid oscillations. This agitation became very marked in H during the latter half of 27^d and again from about 28^d4^h, when it also became very pronounced in D. At $28^d14^h17^m$ there occurred a characteristic SC-type movement in all elements which, in H consisted of an initial drop of 16γ, followed immediately by a sharp increase of 59γ, the whole movement occupying about three minutes of time. The spell of marked activity terminated with the month.

Ranges for the month: D, from 8°53′.7 on 12^d to 9°35′.0 on 28^d; H, from .18549 on 24^d to .18745 on 22^d; Z, from .43227 on 27^d to .43361 on 8^d.

March. Small isolated bays occurred in H about $2^d23\frac{1}{2}^h$ (+30γ) and $4^d22\frac{1}{2}^h$ (+40γ) and in D at 3^d6^h (6′W), but otherwise the traces remained practically featureless until the appearance of unsteadiness about 6^d3^h marked the beginning of a period of disturbance which continued on a varying scale for about ten days. The build up of activity was gradual. Movements were slow during 6^d but became sharper during the afternoon of 7^d. This scale of activity was practically continuous, with many movements in the H trace of 50γ or more with corresponding movements in D. A period of reduced activity during the earlier hours of 13^d was followed in the evening by an outburst of increased intensity. From 14^d2^h the traces became quieter, though considerable agitation was apparent from midday onwards, with a complex peak in H of over 100γ at 20^h3^m. This was accompanied by a depression in Z (-40γ) with minimum about 20^h35^m. The period 15^d to 21^d was characterized by intermittent small scale agitation of the traces with occasional small bays. About 21^d20^h activity showed an increase and became marked during the evening of 22^d. This was accompanied by a rise in Z to a peak (+80γ) at 17^h15^m and a steady recovery during the next seven hours. A rapid rise in the value of H (+95γ) from 23^h25^m to a sharp peak at 23^h45^m was notable. A similar movement was recorded in H on 24^d between 19^h and 20^h, activity during the intervening period having been maintained at a moderate level. From 25^d movements became more subdued, with a slight revival of activity during the evening of 26^d. 28^d was nearly quiet, but between 29^d3^h and 4^h irregularities began to show in the traces. These were followed by limited disturbance which continued into the early hours of the following morning, when the traces again became relatively quiet.

Ranges for the month: D, from 8°50′.2 on 13^d to 9°30′.6 on 7^d and 29^d; H, from .18533 to .18718 both on 13^d; Z, from .43254 on 14^d to .43404 on 13^d.

April. At 1^d18^h small irregularities began to appear in the traces. These became more pronounced on the following day and rose to storm intensity during the period 2^d to 5^d. The movements in general were not excessively large, but the traces throughout this period were characterized by a state of continuous rapid fluctuation. This became subsequently less marked, but conditions remained generally disturbed until about 14^d when activity abated. Irregularities, however, continued during the next four days until $18^d6^h52\frac{1}{2}^m$ when a sudden commencement, most marked in D (8′E), was followed by a spell of considerable activity which lasted until about 19^d2^h. There followed a lull, but about midday on 20^d increased activity began to show in H and D, accompanied by a rise in Z characteristic of disturbed conditions. The more outstanding movements consisted mainly of bays lasting from 20 minutes to one hour. Activity continued from 21^d until 23^d6^h on a reduced scale, followed by a lull lasting until 24^d4^h, when a revival of the disturbance appeared which lasted until the early hours of 26^d. The remaining four days of the month were made up of intermittent periods of calm and low activity. Taken as a whole the month was one of considerable activity.

Ranges for the month: D, from 8°49′.0 on 20^d to 9°36′.6 on 18^d; H, from .18464 on 18^d to .18723 on 12^d; Z, from .43241 on 5^d to .43382 on 20^d.

May. The month opened with an increase of activity which rose to storm intensity during the night hours of 1^d to 2^d. Particularly noteworthy was an easterly increase in D of 27′ which took place in three stages between 21^h0^m and 34^m. D remained large, attaining a maximum at midnight after

which it fell during the following 70 minutes by 37′ to its normal value. Activity was subdued during the following morning but increased again in the evening becoming again marked between 19^h and 22^h when there occurred four peak values in H accompanying oscillations of the order of 100γ. Similar movements appeared in D. Considerable unsteadiness continued until 5^d with outstanding bays in H and D on 3^d between 18^h and 19^h and again at midnight. Conditions from 5^d to 8^d were fairly quiet, with some irregularities in the traces on 6^d, but disturbance set in on the evening of 9^d. A very sharp peak (PSC) in H occurred at 22^h53^m (+220γ). During daylight hours of 10^d and 11^d the traces became very agitated, though apart from two negative bays in H between 10^d14^h and 16^h (100γ), upon which were superposed rapid oscillations, movements were not large. Bays occurred between 16^h and 19^h on 12^d, but otherwise the traces for 12^d and 13^d were featureless. A renewal of minor activity appeared on 14^d and continued on a fairly uniform scale with no features of outstanding interest until 18^d when conditions gradually became more quiet. From 20^d to 22^d the traces were practically calm but on 23^d a renewal of activity set in. An easterly bay in D (17′) centred on 23^d21^h was noteworthy. Minor disturbance continued throughout 24^d, and to a lesser degree during 25^d, though at $25^d18^h47^m.7$ there occurred a well-defined SC in H (+32γ). Following this, disturbance continued on a very moderate scale until 26^d15^h after which a minor storm was recorded. This was short-lived and by 27^d5^h relative calm had been restored. This was maintained until 29^d when irregularities began to appear in the traces. An isolated bay in D (8′E) centred on 29^d23^h was notable, but apart from this no further feature of note was recorded in May.

Ranges for the month: D, from 8°37′.4 on 1^d to 9°30′.9 on 26^d; H, from .18511 on 1^d to .18855 on 9^d; Z, from .43228 to .43368 both on 2^d.

June. Considerable small-scale activity consisting of short period oscillations was recorded during the first two days of the month. During the evening of 2^d a series of small bays occurred after which conditions remained fairly quiet until the afternoon of 4^d, when the traces again became somewhat irregular. Two well-defined negative bays (-60γ and -80γ) occurred in H between 6^d6^h and 8^h and a general depression of H was shown between 10^h and 16^h on the same day. Well-defined maximum values occurred in H on 8^d near 16^h and on 9^d at 15^h. An easterly movement of 11′ in D between $9^d2^h40^m$ and 3^h10^m followed a slower westerly movement. The period 9^d17^h to 10^d9^h was practically quiet after which the traces were subject to irregularities and occasional small bays until about 14^d0^h. Conditions then became again quiet until the occurrance of a large sudden commencement (H +80γ) at $14^d17^h51^m.4$. The activity, of which this was the onset was not intense, but slightly disturbed conditions persisted for about two days. By 18^d this had disappeared but was renewed on a larger scale with a second large sudden commencement (H +80γ) at $17^d17^h01^m.9$. This storm lasted about 24 hours during which a notable depression in Z occurred at 18^d0^h with a subsequent rapid recovery. Conditions were again quiet from 18^d19^h until $18^d23^h14^m.4$ when a third sudden commencement (H +40γ) marked the onset of renewed activity. This however was on a very limited scale, though a significant bay occurred in H (+100γ) near 19^d16^h. During the period 20^d to 24^d the traces showed only minor irregularities, but on $25^d4^h29^m.1$ a sudden commencement (H +19γ) marked the onset of a further period of limited activity. This was most pronounced during the afternoon of the same day, the largest single movement being an increase in H of 115γ between 13^h20^m and 50^m. By midnight the movements had died down to mere irregularities in the traces, and these conditions prevailed throughout the remainder of the month. The single outstanding feature during this period was a sharp positive bay in H (+75γ) centred on $27^d16^h12^m$.

Ranges for the month: D, from 8°53′.5 on 18^d to 9°29′.2 on 25^d; H, from .18543 on 18^d to .18763 on 17^d; Z, from .43144 on 18^d to .43365 on 25^d.

July. A small bay at 1^d1^h (H +35γ) was followed by a more conspicuous one occurring between 17^h48^m and 18^h40^m, (H +75γ, D 11′E). At $22^h26^m.9$ there occurred a sudden commencement (H +66γ) which was followed by a drop in Z of over 200γ occurring during the succeeding three hours. There was an irregular recovery of Z during the following seven hours. This depression of Z was accompanied by activity in H and D of storm intensity, though the large movements had died out by 2^d7^h. Considerable agitation, with many small sharp bays, was recorded during the following days. By 6^d this had to a large extent subsided though the traces continued to reveal some agitation on a much reduced scale. Throughout the following week the traces showed little variation from a state of minor activity, the most conspicuous movement during this interval being an elongated bay in H

(+50γ) between $9^d17^h26^m$ and 18^h45^m. At $15^d15\frac{1}{2}^h$ activity became more pronounced, and between 14^h and 18^h on the following day there appeared several fluctuations in H of the order of 50γ. Conditions were moderately disturbed throughout 17^d and 18^d, there being a conspicuous bay in H (+80γ) near 18^d15^h. By 19^d0^h this activity had subsided, little of interest appearing in the traces until about 22^d3^h when there was a revival of activity. This was in no way spectacular, however, though some oscillations of about 40 minutes period occurring in H between 15^h and 19^h are of interest. From 23^d3^h conditions were quiet, or nearly so until midday on 25^d when movements became more pronounced and the traces assumed a more agitated appearance. These conditions prevailed, in a varying degree, throughout the remainder of the month. Of the more significant features occurring during this period should be mentioned a broad bay in H (+50γ) between $26^d23^h10^m$ and $27^d1^h10^m$; a bay in D (15′W) with a sharp minimum at $28^d3^h10^m$; several abrupt oscillations in H of 2 or 3 minutes period around 15^h and 16^h on 28^d, of double amplitude up to 45γ; a large positive swing in Z during the afternoon and evening of 31^d accompanied by a period of increased activity in D and H which terminated with a positive bay in the latter (+80γ) between 23^h and midnight.

Ranges for the month: D, from 8°51′.6 to 9°28′.4 both on 2^d; H, from .18517 on 2^d to .18735 on 1^d; Z, from .43109 on 2^d to .43409 on 31^d.

August. After a quiet spell during the morning of 1^d activity became brisk following an abrupt rise in H of 25γ at 15^h41^m. An SC-type movement occurred at 17^h19^m (H +55γ), this being the most striking of several sharp movements about this time. The largest single movement of this storm occurred in H (-140γ) between 23^h0^m and 53^m. By 2^d6^h conditions had returned to normal and throughout the next ten days the records exhibited no more than minor activity with small bays up to about 50γ in H. Signs of increasing disturbance appeared with abrupt movements (SC) in H (+20γ) and Z at $13^d3^h37^m$, but this was short-lived terminating with two sharp bays in H of about +100γ each between 18^h and $19\frac{1}{2}^h$, these being accompanied by similar positive, or easterly bays in D. At $15^d20^h10^m.6$ there occurred a typical SC (H +79γ) which was followed by a temporary increase in the value of H lasting about two hours, but by no marked increase in the general level of activity. Between $16^d7^h30^m$ and 50^m there occurred a striking series of oscillations (pulsation) with period about 30 seconds and with varying double amplitude in H up to 28γ. A similar pulsation, though less marked, occurred during the preceding hour. Between 8^h and 12^h there occurred a double negative bay in H (70γ). Small scale fluctuations were maintained throughout the following day but by 18^d conditions had become quiet. Small movements reappeared on 19^d and at 20^d1^h there appeared a polar bay (H +30γ, D 11′W) which marked the beginning of a period of increasing activity. Between 15^h and 23^h H oscillated with a period of roughly one hour, the largest bay occurring between 21^h and 22^h (+60γ). A double easterly bay occurred in D (10′ to 15′) between 19^h and 22^h and a westerly bay (16′) between 21^d1^h and 2^h. This was accompanied by a negative bay in Z (30γ) centred on 2^h. Activity remained subdued during the morning hours of 21^d but became intensified from midday until about 22^d5^h, during which a number of sharp bays were recorded. The two largest, of about +100γ, were recorded in H between 21^h and 22^h with corresponding westerly bays (10′ and 12′) in D. The traces throughout the remainder of the month were characterized by minor disturbance of varying degree including some outstanding bays of which the following were the most noteworthy:- at 23^d23^h, H +110γ, D 20′E; between 25^d19^h and 20^h, H +90γ, D 15′E; between 26^d19^h and 20^h, H +60γ, and between 22^h and midnight H +70γ; at 27^d21^h, H +70γ, D 16′E; at 28^d21^h, H +50γ, D 9′E; at 31^d23^h, H +40γ.

Ranges for the month: D, from 8°53′.7 on 23^d and 27^d to 9°22′.9 on 1^d; H, from .18570 on 26^d to .18765 on 1^d; Z, from .43246 to .43392 both on 21^d.

September. The month opened quietly with only occasional small bays appearing in the traces. At $5^d20^h45^m.7$, however, there was an SC which showed in all three elements (H +56γ) and was followed immediately by a slight, but limited, increase of activity. At 7^d20^h there occurred an easterly bay in D (9′) on an otherwise quiet trace. Activity increased noticeably at midday on 9^d, when, in the course of six minutes, the H trace rose by 30γ and subsequently performed a rough oscillation forming a series of shallow bays of from a half to one hour duration. From 21^h the D trace exhibited similar movements. During the night hours of 10^d to 11^d conditions became fairly quiet, apart from a bay between 1^h and 2^h (H +30γ, D 6′W) but activity was resumed about 10^h. Between

$11^d18^h21^m$ and 19^h30^m D moved easterly by 14′, while three sharp maxima E occurred at 21^h37^m, 22^h9^m and 22^h35^m, these being each succeeded by maxima in H at 21^h43^m((+120γ), 22^h13^m (+40γ) and 22^h43^m (+90γ). This disturbance was accompanied by a drop of 70γ in Z between 21^h20^m and 22^h0^m. A similar movement in Z (-50γ) was associated with the latter part of a complete oscillation in D occurring between $12^d22^h50^m$ and $13^d0^h20^m$ and having a double amplitude of 23′, while a third (-55γ) accompanied large double swings in D (23′) and H (90γ) centred near 13^d23^h. From $16^d8^h30^m$ H dropped away to a sharp minimum at 9^h34^m. The movements in the traces subsequently recorded on this day appear in an accompanying plate. On 17^d at 22^h a double peak was recorded in H (+100γ) and on 18^d there occurred an easterly bay in D (22′) with maximum excursion at 18^h5^m and extending over the interval from 17^h30^m to 19^h0^m. A quiet spell during the early morning hours of 19^d was followed at 11^h54^m4 by a sudden commencement (H +28γ) which marked the beginning of a prolonged storm. Activity became less marked during 23^d, 24^d and the first half of 25^d though there were notable bays at 23^d21^h in H (+110γ) and D (20′E). Following noon on 25^d activity became brisk with some notably large movements in Z. The storm was of short duration ending fairly abruptly between 26^d5^h and 6^h. Activity remained subdued until $27^d0^h5^m$ when a sudden commencement marked the beginning of a period of considerable agitation in the traces. At 7^h28^m abrupt, SC-like movements appeared in all three elements; H -60γ, D 14′E, Z -18γ. The latter part of 27^d exhibited no features of special interest and apart from a small easterly bay between 0^h and 1^h conditions on 28^d were fairly quiet. A short revival of moderate activity occurred during the latter half of 29^d with bays in H (+70γ) and D (15′E) coinciding with a well-marked maximum in Z about 17^h. 30^d was relatively quiet. The month was one of very considerable activity.

Ranges for the month: D, from 8°16′.6 on 26^d to 9°59′.5 on 25^d; H, from .18322 on 26^d to .18777 on 25^d; Z, from .43130 on 26^d to .43524 on 25^d.

October. After a week of comparatively quiet conditions increased activity began to show about midday on 7^d, becoming marked during the evening and night hours. The largest single movement was an easterly swing in D of 26′ between 18^h54^m and 20^h5^m. An increase in H of 90γ between $8^d2^h30^m$ and 2^h51^m was followed by a recovery of 80γ by 3^h26^m. At $8^d22^h28^m$ H rose steeply in the form of a polar bay reaching a maximum (+60γ) about 23^h. A very sharp polar bay in H (+90γ) and D (18′E) began at $9^d21^h22^m$ the maximum values being attained at 21^h43^m and 21^h34^m respectively. Considerable activity continued until 11^d19^h when conditions suddenly became quiet. Unsteadiness appeared in the traces the following day from about 10^h, and between 13^d19^h and 14^d2^h several pronounced bays occurred in H and D. The most conspicuous was a polar bay in H which increased 90γ between 23^h0^m and 23^h25^m. During a further short spell of activity on 14^d H rose sharply at 19^h4^m through 70γ to a sharp peak at 19^h11^m which was followed by two small peaks at 19^h59^m and 20^h31^m. During the afternoon of 16^d disturbance became more pronounced and considerable disturbance prevailed throughout the following three days. The most striking features occurring during this interval were, in H, a negative movement of 100γ between $17^d15^h0^m$ and 20^m; an abrupt increase of 180γ from 19^h28^m to a sharp peak at 19^h34^m followed by a rapid fall of 170γ during the next 20 minutes; a rise of 130γ in 30 minutes from a sharp minimum to a sharp maximum at $18^d17^h13^m$; a rise of 110γ from $19^d18^h10^m$ to 26^m with a second smaller peak at 40^m. These were accompanied by comparable movements in D, the most striking being an easterly swing of 18′ between $17^d19^h25^m$ and 31^m followed immediately by a westerly movement through 33′ which continued until 41^m when a second easterly swing of 23′ occurred lasting until 20^h0^m. At 20^d20^h an isolated large movement occurred in H (+90γ) accompanied by an easterly bay in D (13′) movements being otherwise on a small scale from 20^d1^h. Similar conditions continued until 24^d by which time the traces had become quiet. Some unsteadiness appeared in all elements on 26^d with the appearance of a large easterly bay in D around 22^h (23′). From 27^d14^h the traces became very quiet and remained so for about 14 hours after which they became less steady. At $28^d11^h53^m.2$ a "sudden commencement" marked the beginning of a storm which in spite of short duration showed a remarkable degree of activity and a well defined storm time pattern. The two most striking features of this storm were, firstly the very high maximum value attained by Z which from $13\frac{1}{2}^h$ rose unsteadily by 420γ to a maximum at 17^h46^m. It returned unsteadily until 20^h, about which time the violent movement suddenly ceased, after which a steady decrease of about 60γ during the next four hours returned the trace to its normal position on the sheet. The second outstanding feature was the very deep and sharp minimum in H which decreased in four or five oscillations by 340γ between 19^h33^m and 40^m, i.e. in seven minutes. Recovery took about 30 minutes. By 0^h the traces had become practically quiet and remained so until the end of the month.

Ranges for the month: D, from 8°32′.1 to 9°55′.0 both on 28^d; H, from .18171 on 28^d to .18741 on 9^d; Z, from .43264 on 17^d to .43715 on 28^d.

November. Following a quiet spell unsteadiness began to appear in the traces on 1^d at about 21^h. At $3^d3^h0^m$ H suddenly began to increase by 60γ in 20^m to form a small bay. A peak in H occurred at $3^d21^h22^m$ followed by a drop of 125γ to a fairly sharp minimum at 22^h2^m. Small positive bays (50γ) appeared in H at $4^d22\frac{1}{2}^h$ and 5^d23^h with a comparable easterly bay in D (10′) at 4^d21^h. A more outstanding example occurred when H increased by 150γ between $6^d19^h10^m$ and 30^m, after which it decreased by 110γ by 19^h46^m. The corresponding movement in D was an easterly swing of 19′ from 18^h50^m to a maximum at 19^h20^m, followed by a westerly swing of 25′ which lasted until 19^h41^m. A second easterly movement of 9′ restored the trace to approximately its initial position. The movements were accompanied by a small initial increase of Z followed by a decrease of about 50γ between 19^h28^m and 50^m. The following three days exhibited only moderate unsteadiness in the traces and conditions on 10^d, and until about 11^d20^h remained practically quiet. After this some irregularities began to appear, but the traces took on a new character from about midday on 13^d. For the following 12 hours all elements were subject to a ripple of small bays of duration from a half to one hour. Single movements varied in magnitude up to 100γ in H and 20′ in D with small movements in Z. Unsteadiness continued until 16^d the ripple being again very marked during the evening hours of 14^d. By 17^d conditions had become comparatively quiet, but at $17^d19^h24^m$ D suddenly swung easterly to reach a maximum (28′) at 20^h11^m. This was followed by a slow recovery during the next three hours. The traces continued to exhibit varying degrees of unsteadiness throughout the remainder of the month with a number of bays of the order of 50γ, but no further features of special interest were recorded.

Ranges for the month: D, from 8°44′.1 on 17^d to 9°24′.3 on 14^d; H, from .18534 on 13^d to .18748 on 6^d; Z, from .43267 on 14^d to .43392 on 13^d.

December. The first five days of the month were characterized by a general unsteadiness in the traces, the largest single movement being an easterly swing in D (20′) at $4^d20\frac{1}{2}^h$ reaching maximum at 21^h4^m and returning 13′ during the following half hour. This was accompanied by a similar positive bay in H (75γ). During the next two days the traces were fairly quiet but on 8^d between 1^h9^m and 30^m D moved westerly through 16′ afterwards swinging back 27′ during the following 45 minutes. This was accompanied by a positive bay in H (70γ) and a decrease in Z of 40γ. A period of increased agitation followed with rapid movements of small amplitude. A sharp easterly bay in D (30′) occurred between $8^d19^h40^m$ and 20^h28^m accompanied by rapid increase in H (110γ) between 20^h5^m and 13^m. On 9^d a large irregular bay appeared in H (+120) between $17\frac{1}{2}^h$ and $19\frac{1}{2}^h$ with a slightly smaller easterly bay in D (15′). This was followed by small scale agitation, with increased activity from 10^d15^h which terminated with a positive bay in H (70γ) at 11^d23^h. Little movement of the traces was then recorded until 14^d21^h when a slight increase of activity set in. An easterly bay in D (15′) occurring between $15^d18\frac{1}{2}^h$ and $20\frac{1}{2}^h$ was accompanied by one in H (-80γ) but otherwise movements were not outstanding. Slight unsteadiness prevailed until 17^d14^h when disturbance became more marked. This state of generally increased activity continued until 20^d though during this no movements of special interest were recorded. A revival of activity occurred during the afternoon of 22^d, the largest movement being an easterly bay in D (23′) between $17\frac{1}{2}^h$ and 19^h, but by midday on 23^d conditions had become practically quiet. Very quiet conditions were maintained for several days. A shallow westerly bay in D (4′) at 27^d5^h was accompanied by a rise in H of 20γ between 4^h40^m and 5^h10^m, following which H again continued fairly steady until the occurrence of a sudden commencement at $21^h37^m.0$ which marked the beginning of a disturbance which reached storm intensity. The largest single movement was a drop in H of 150γ from a maximum at $28^d5^h53^m$ to a minimum at 6^h25^m. By the afternoon of 28^d activity was reduced to moderate intensity and this ceased abruptly at 29^d1^h. The quiet spell continued until 30^d21^h when H and later D became agitated. Between 8^h and 11^h on 31^d this agitation became particularly marked, following which the traces exhibited a series of successive bays (average 50γ) which continued throughout the remainder of the day.

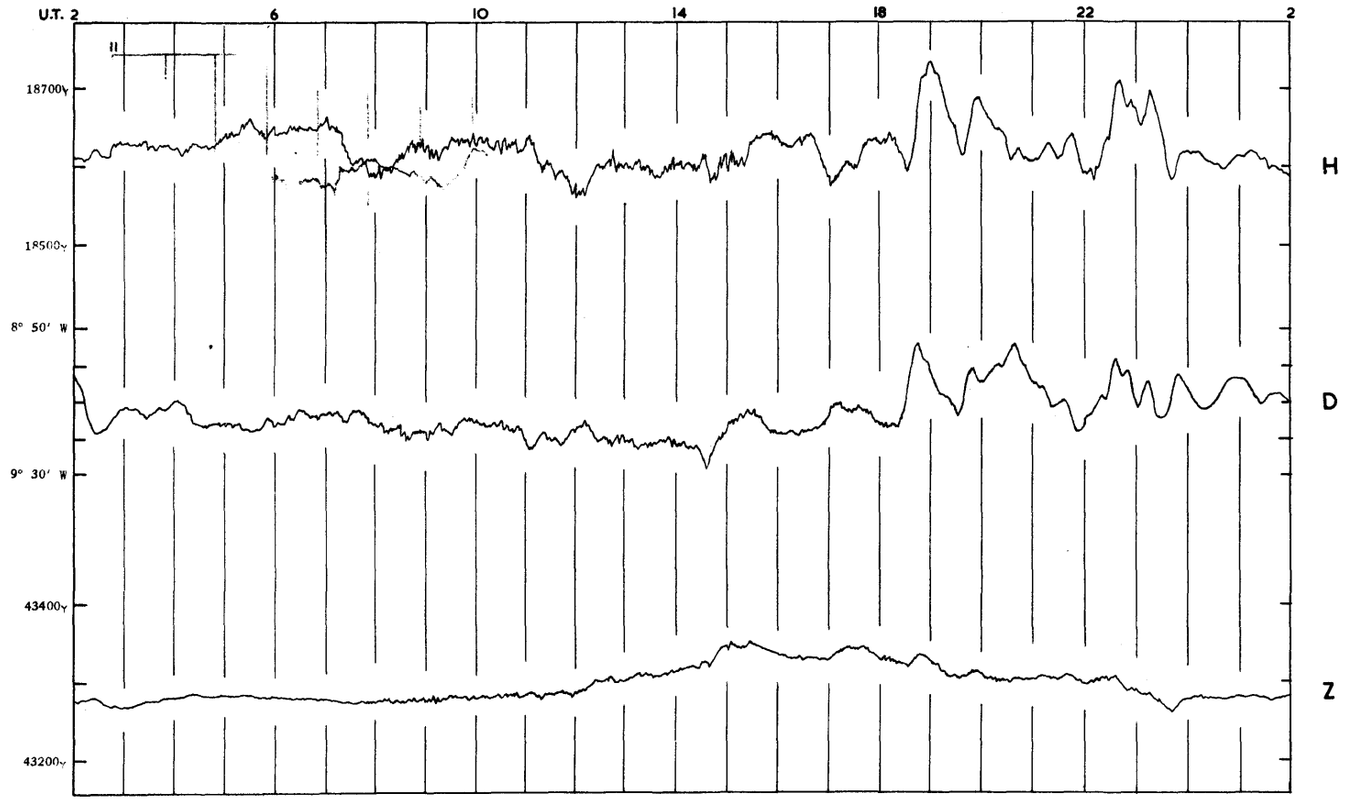
Ranges for the month: D, from 8°33′.7 on 8^d to 9°31′.1 on 28^d; H, from .18534 to .18742 both on 28^d; Z, from .43228 to .43389 both on 28^d.

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

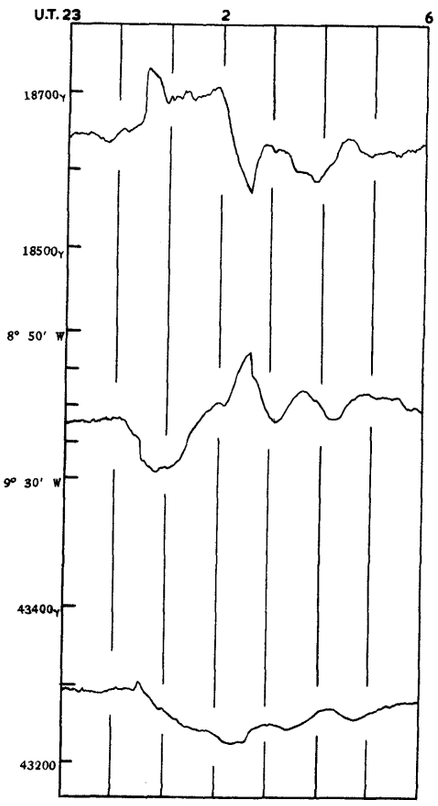
Declination West: 9° 59′.5 on September 25; 8°16′.6 on September 26.
Horizontal Intensity: .18855 on May 9; .18171 on October 28.
Vertical Intensity: .43715 on October 28; .43109 on July 2.

Plate I

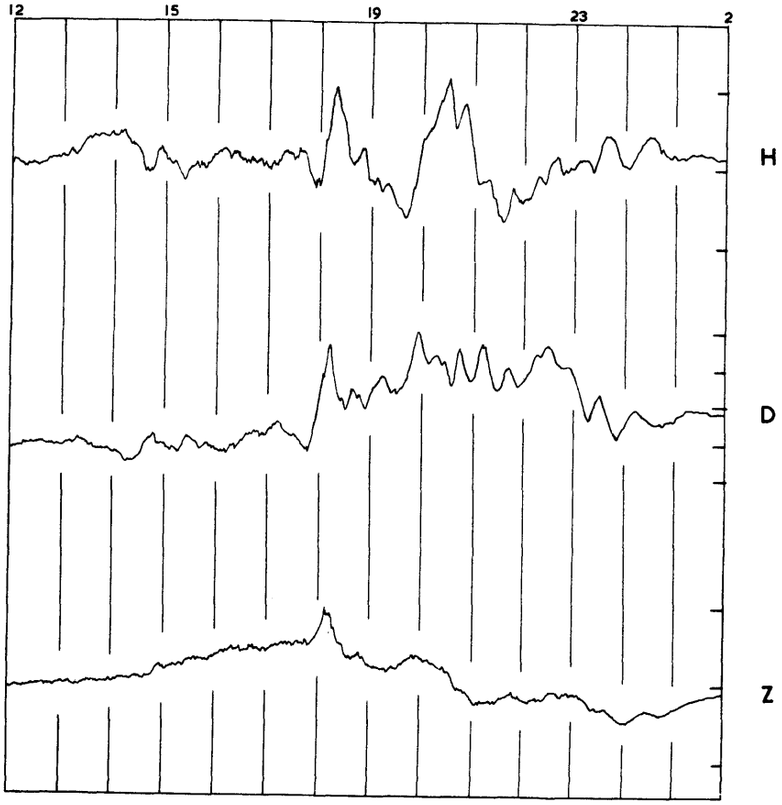
1951 FEBRUARY 23 - 24



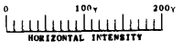
FEB 26 - 27

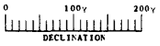


1951 MARCH 13 - 14



SCALES FOR THE MAGNETIC ELEMENTS





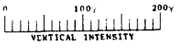
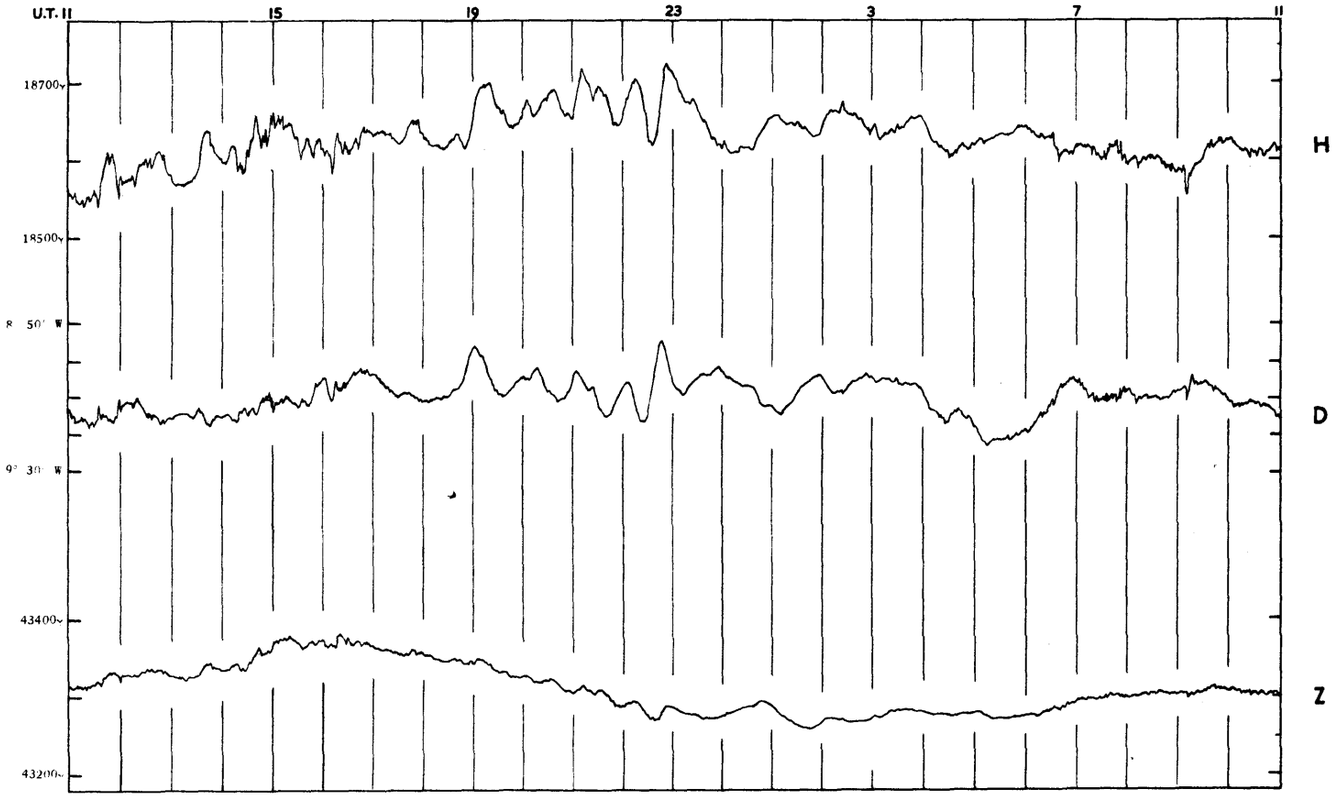
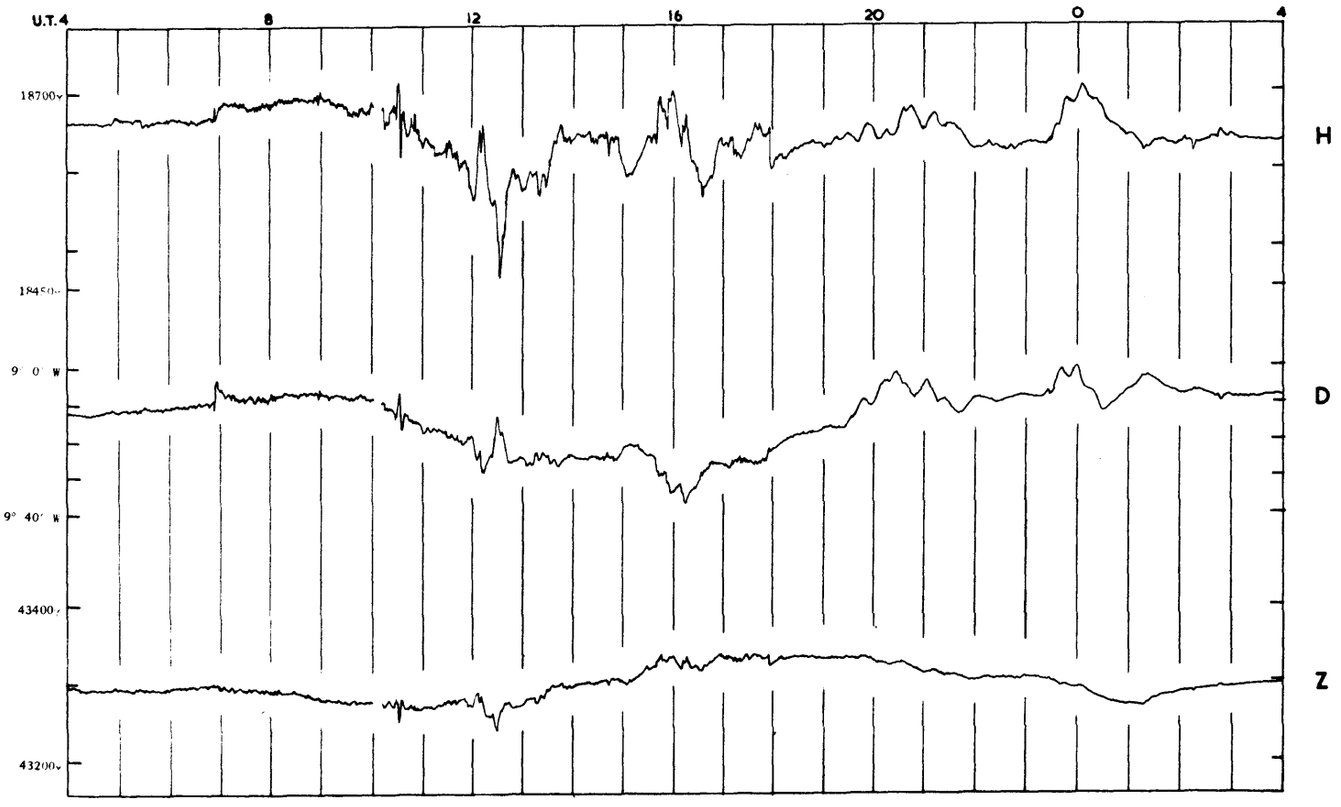


Plate II

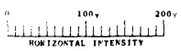
1951 SEPTEMBER 21 – 22

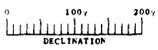


1951 APRIL 18 – 19



SCALES FOR THE MAGNETIC ELEMENTS





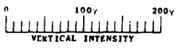
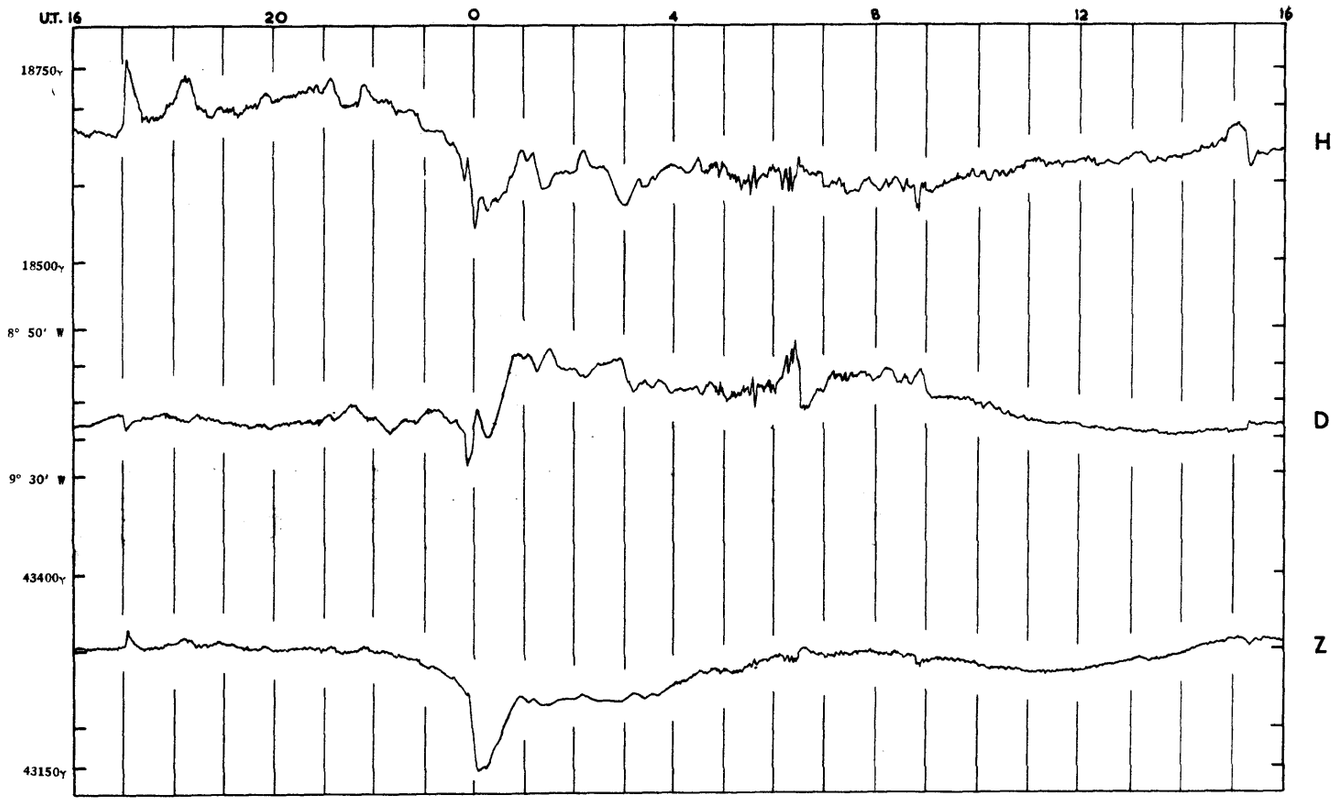
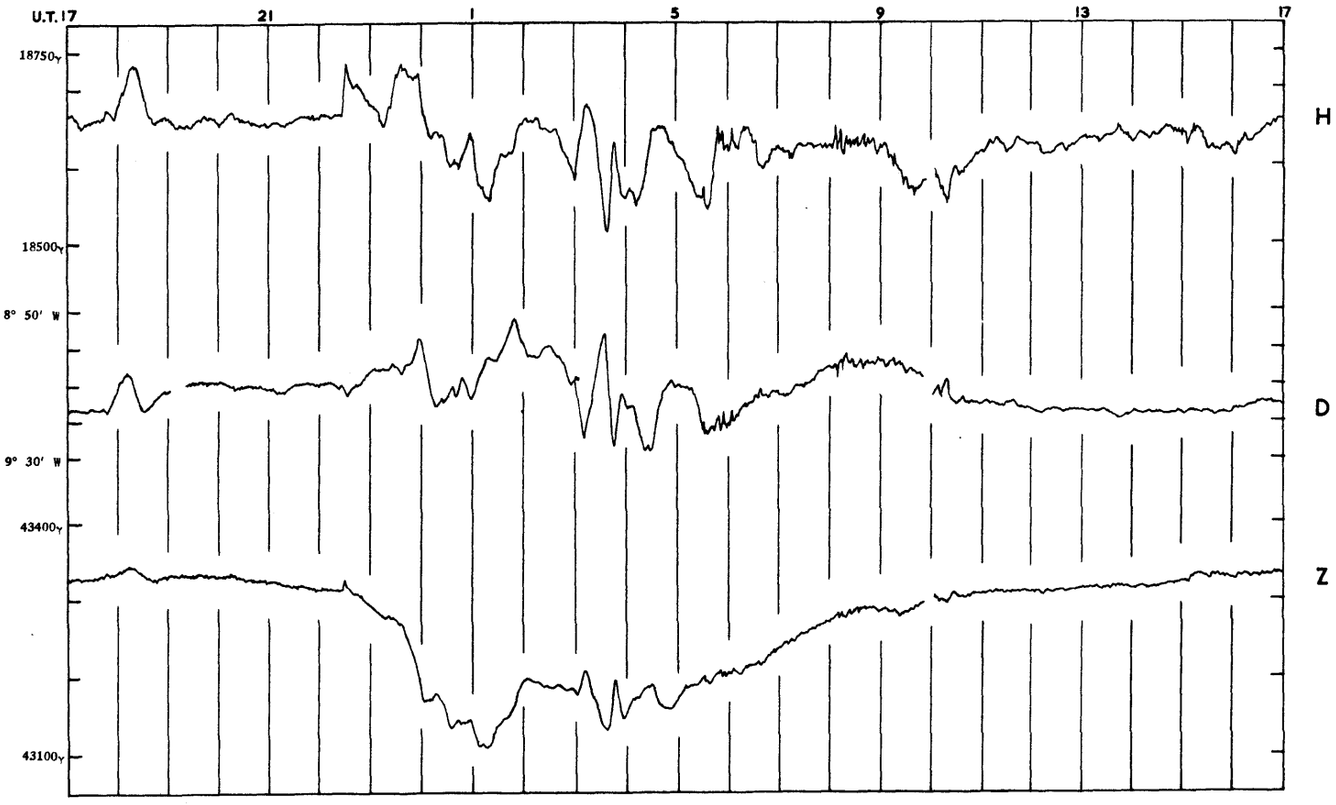


Plate III

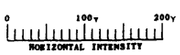
1951 JUNE 17 – 18

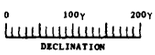


1951 JULY 1 – 2



SCALES FOR THE MAGNETIC ELEMENTS





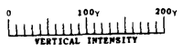
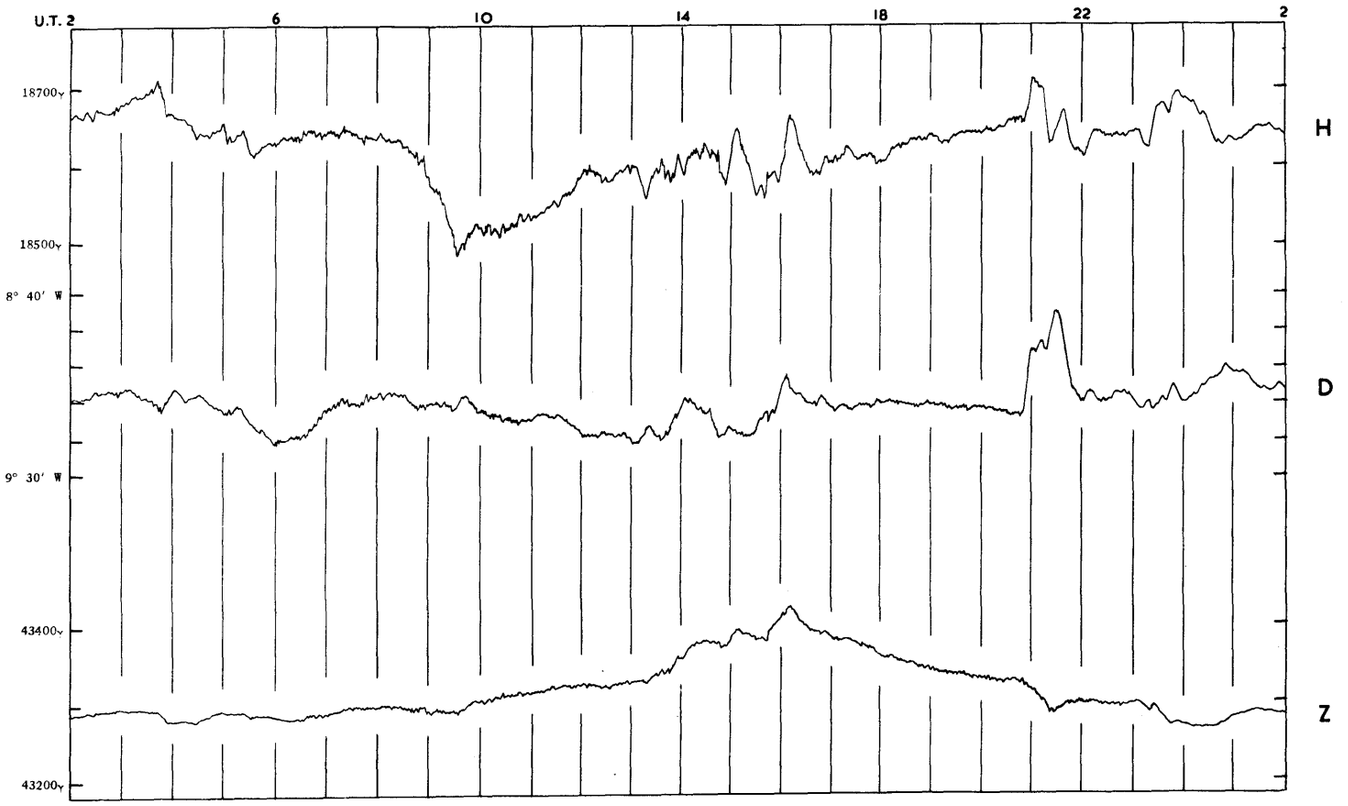
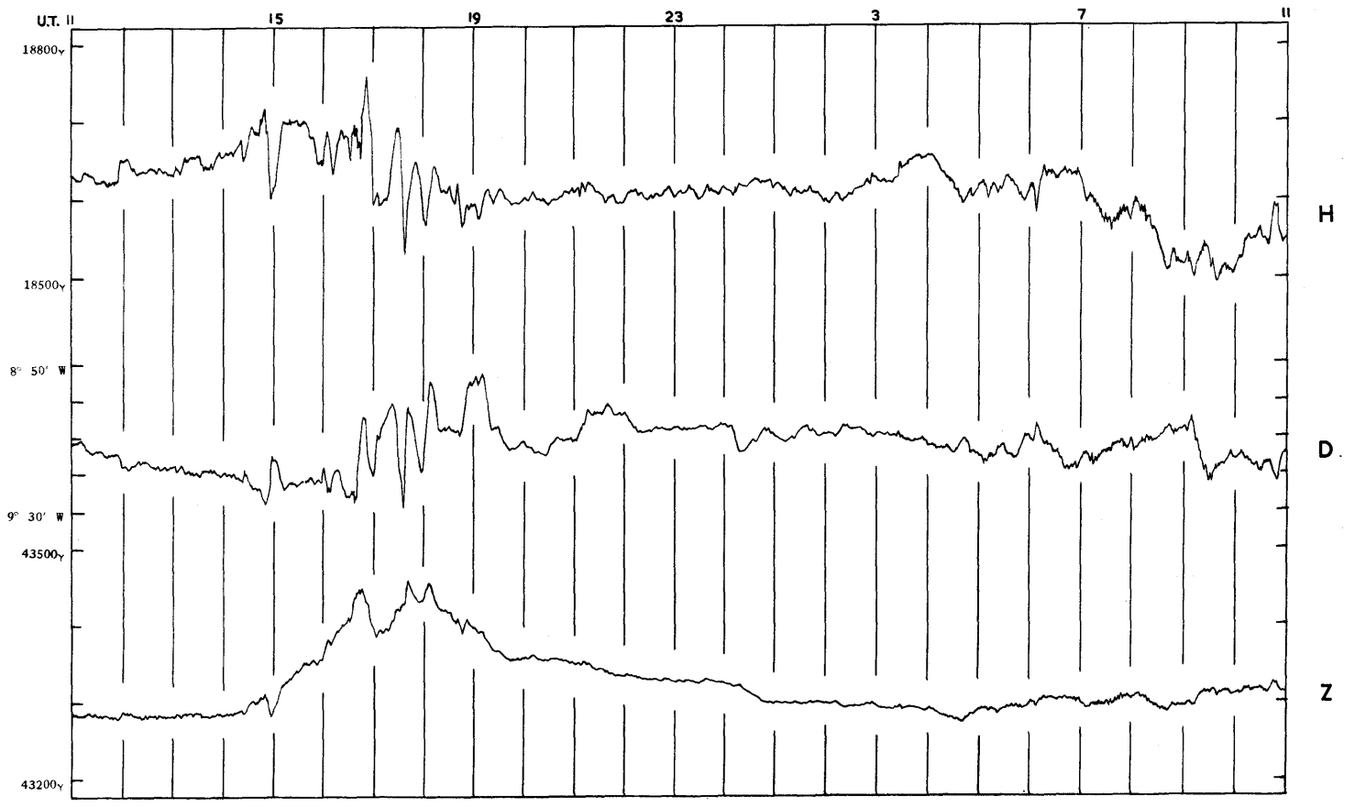


Plate IV

1951 SEPTEMBER 16 – 17



1951 SEPTEMBER 19 – 20



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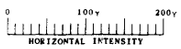
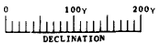
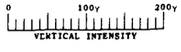
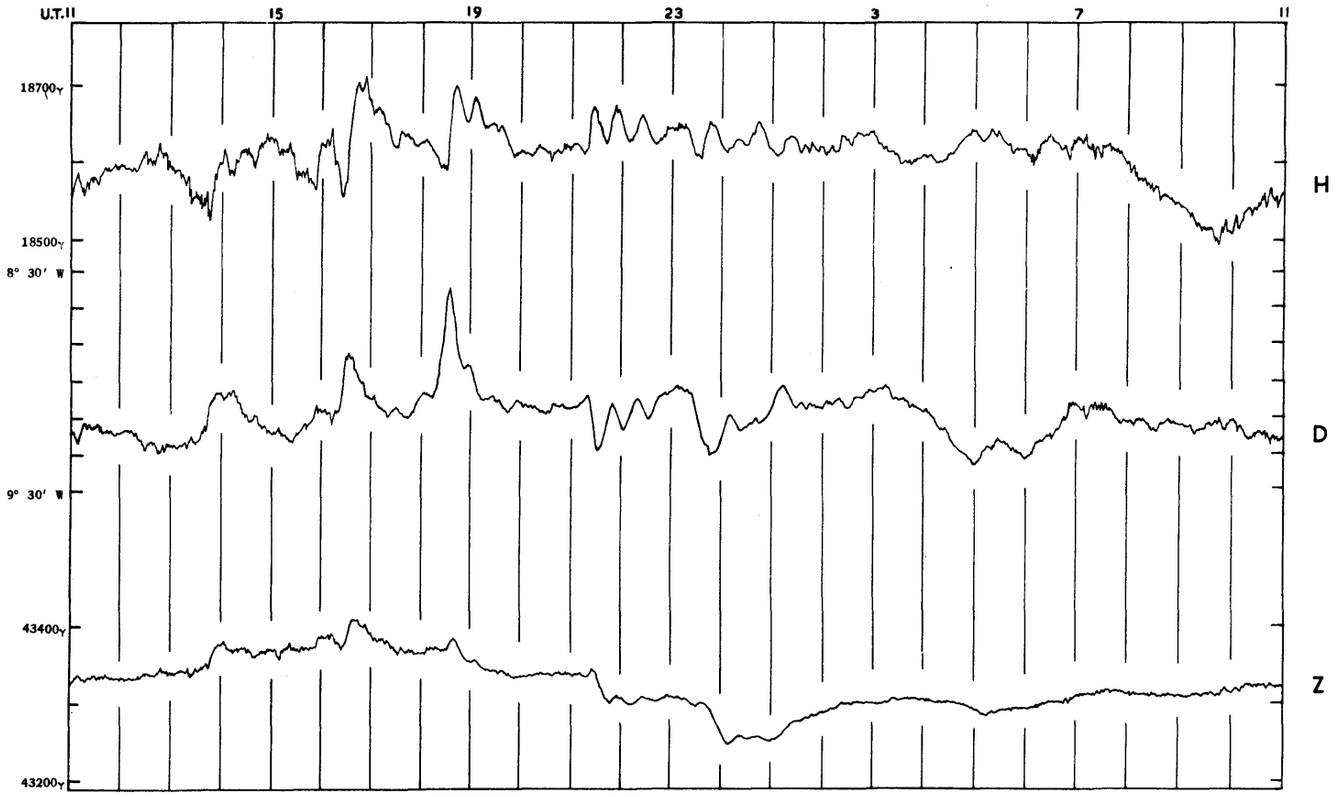


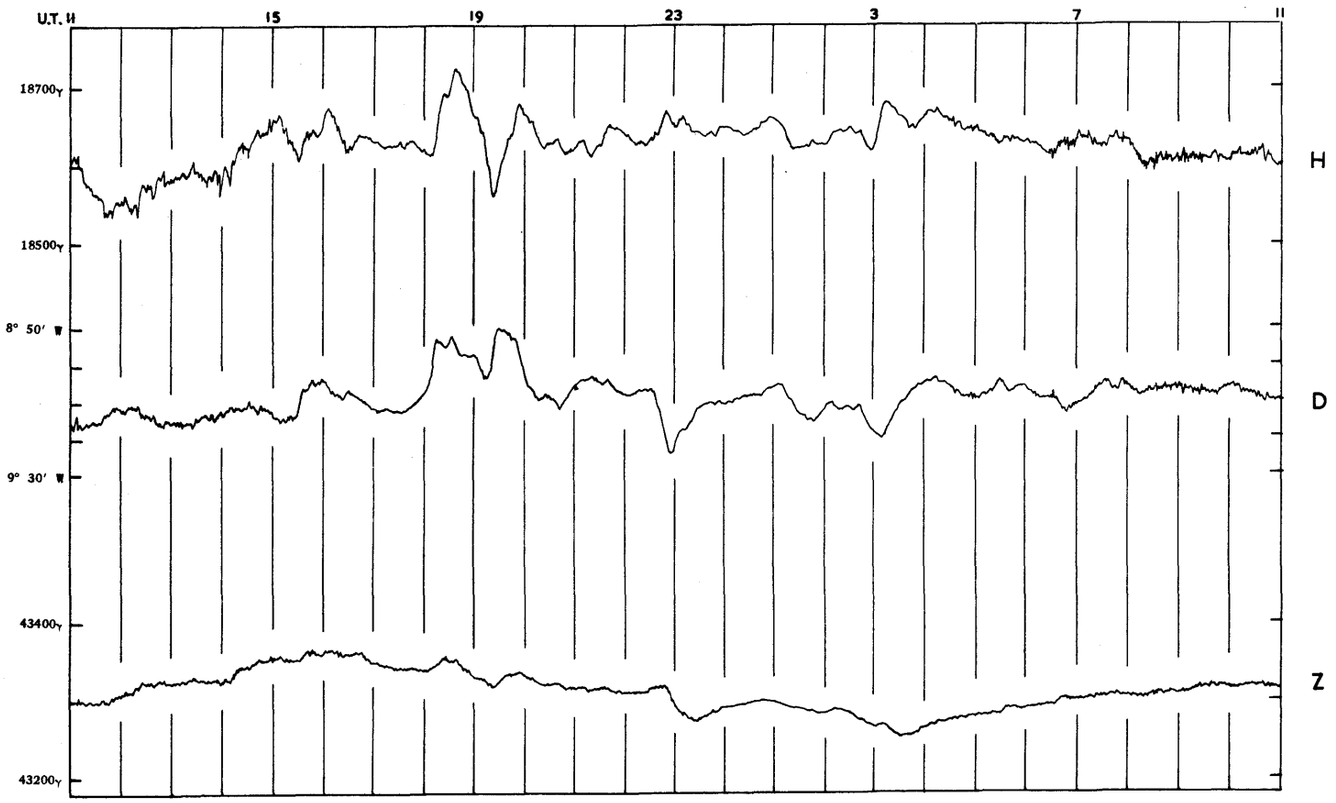




1951 SEPTEMBER 20 – 21



1951 SEPTEMBER 22 – 23



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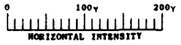
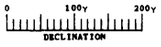




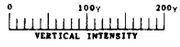
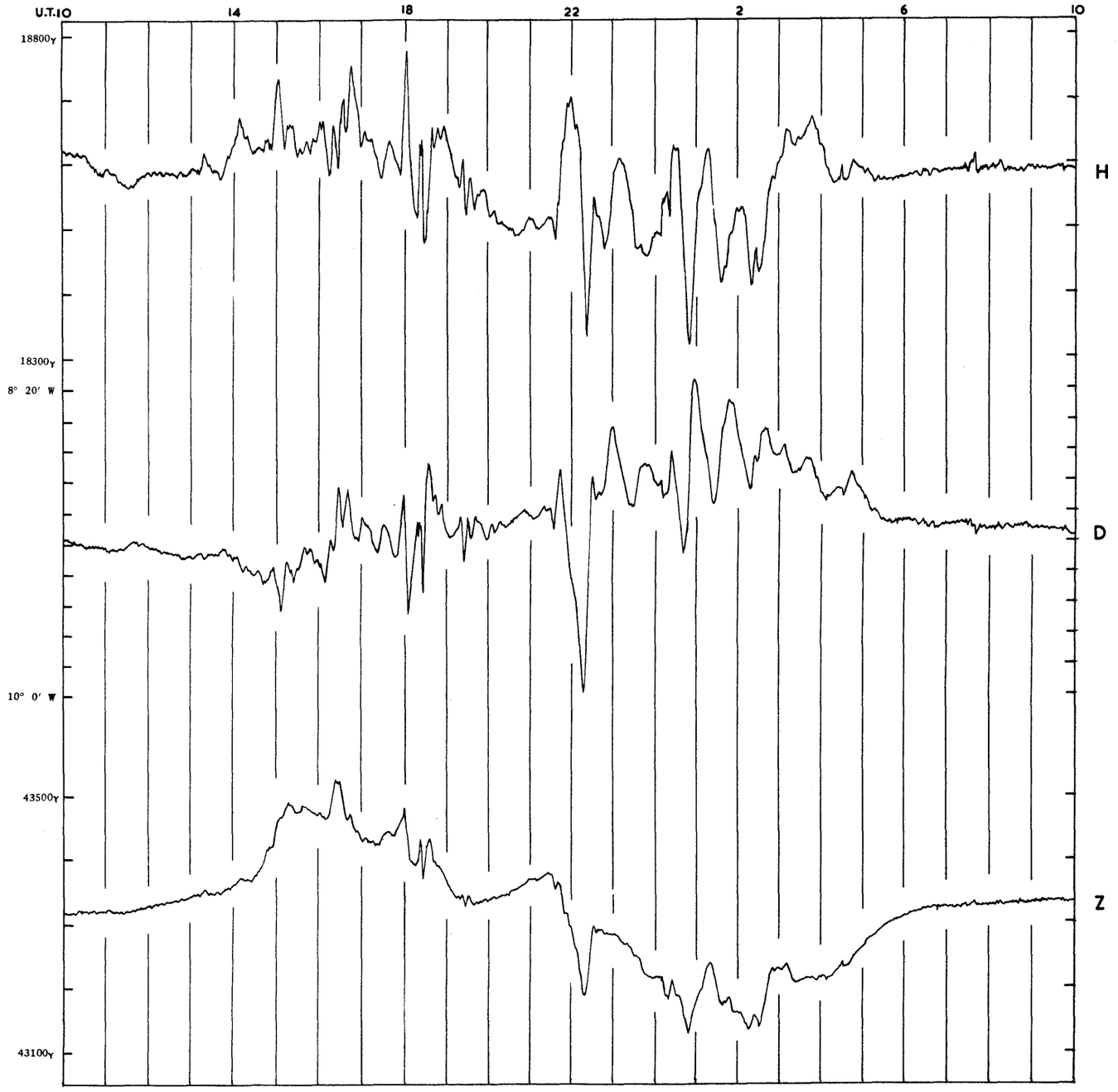


Plate VI

1951 SEPTEMBER 25 – 26



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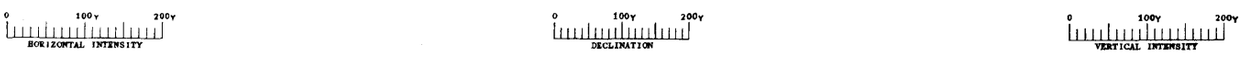
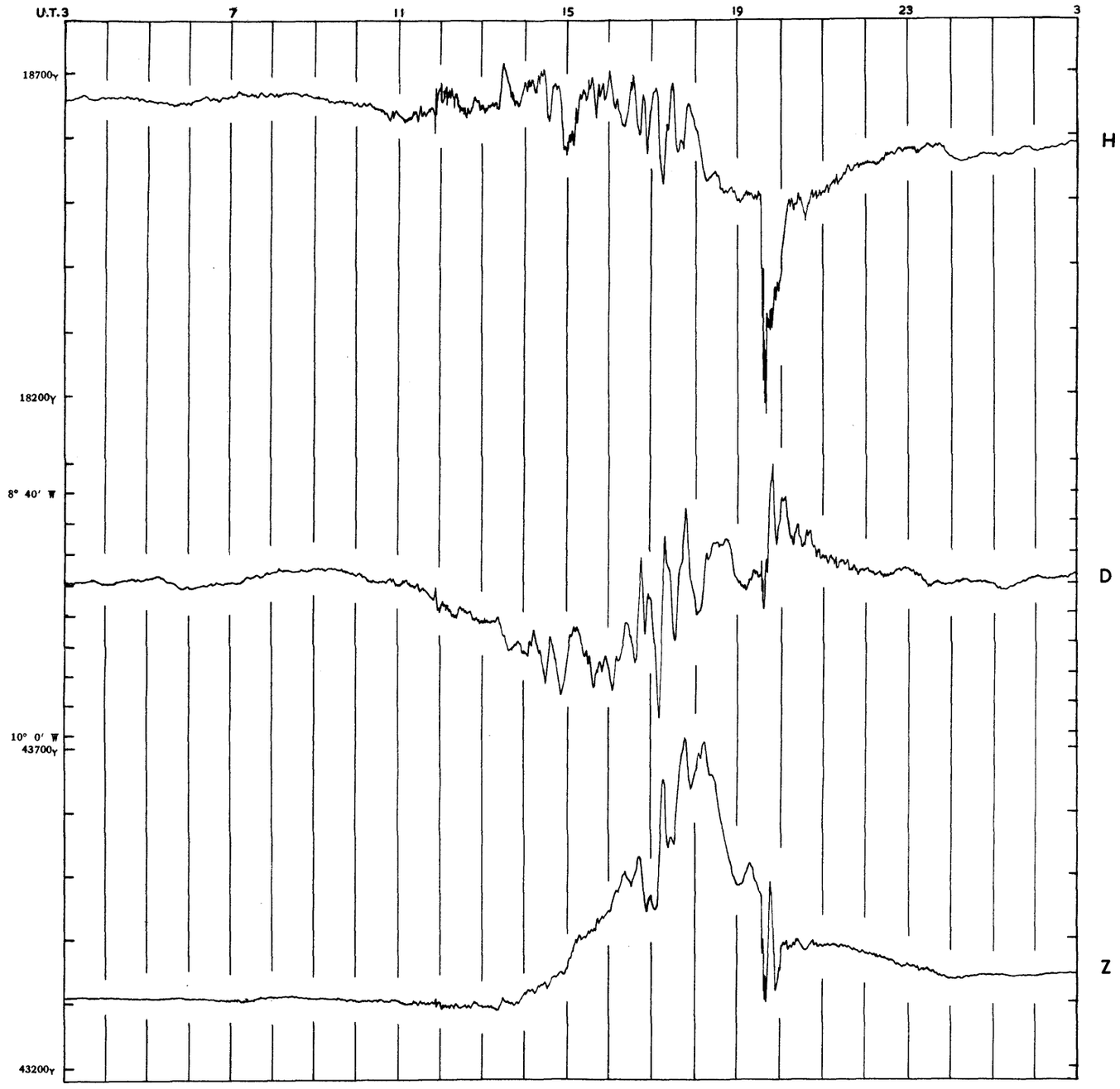


1951 OCTOBER 28 – 29

Plate VII



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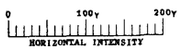
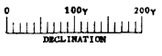




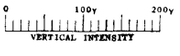
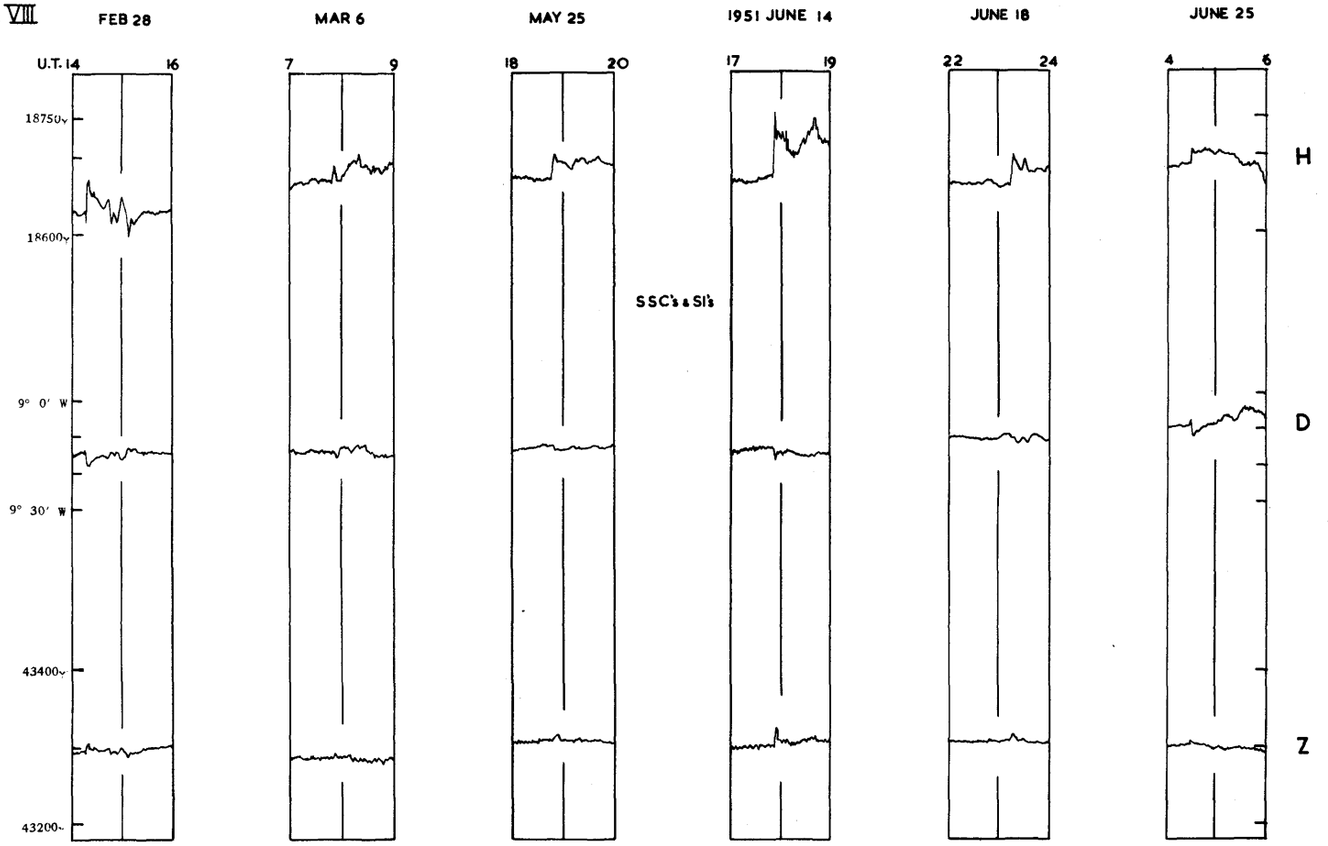
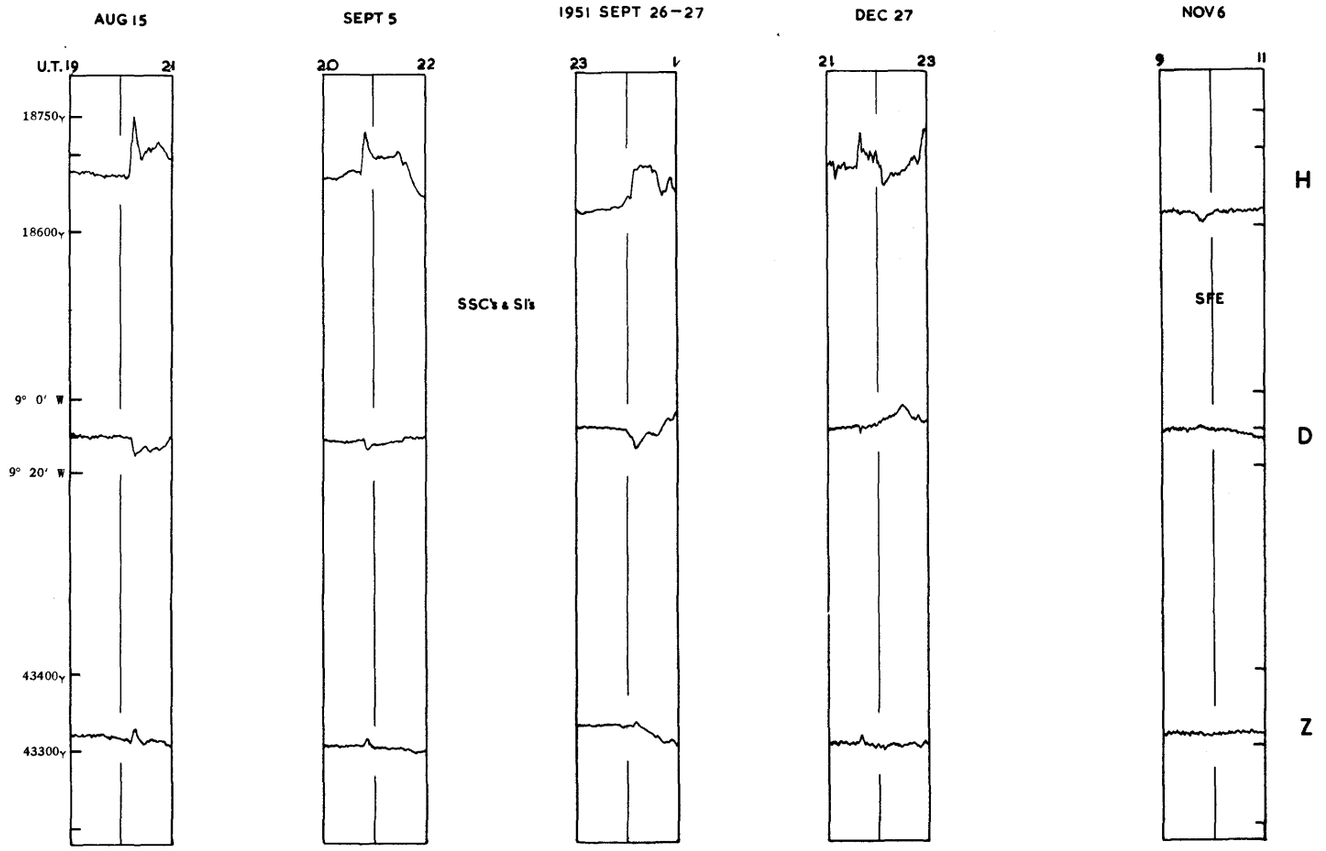


Plate VIII





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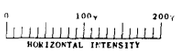
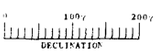




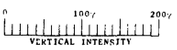
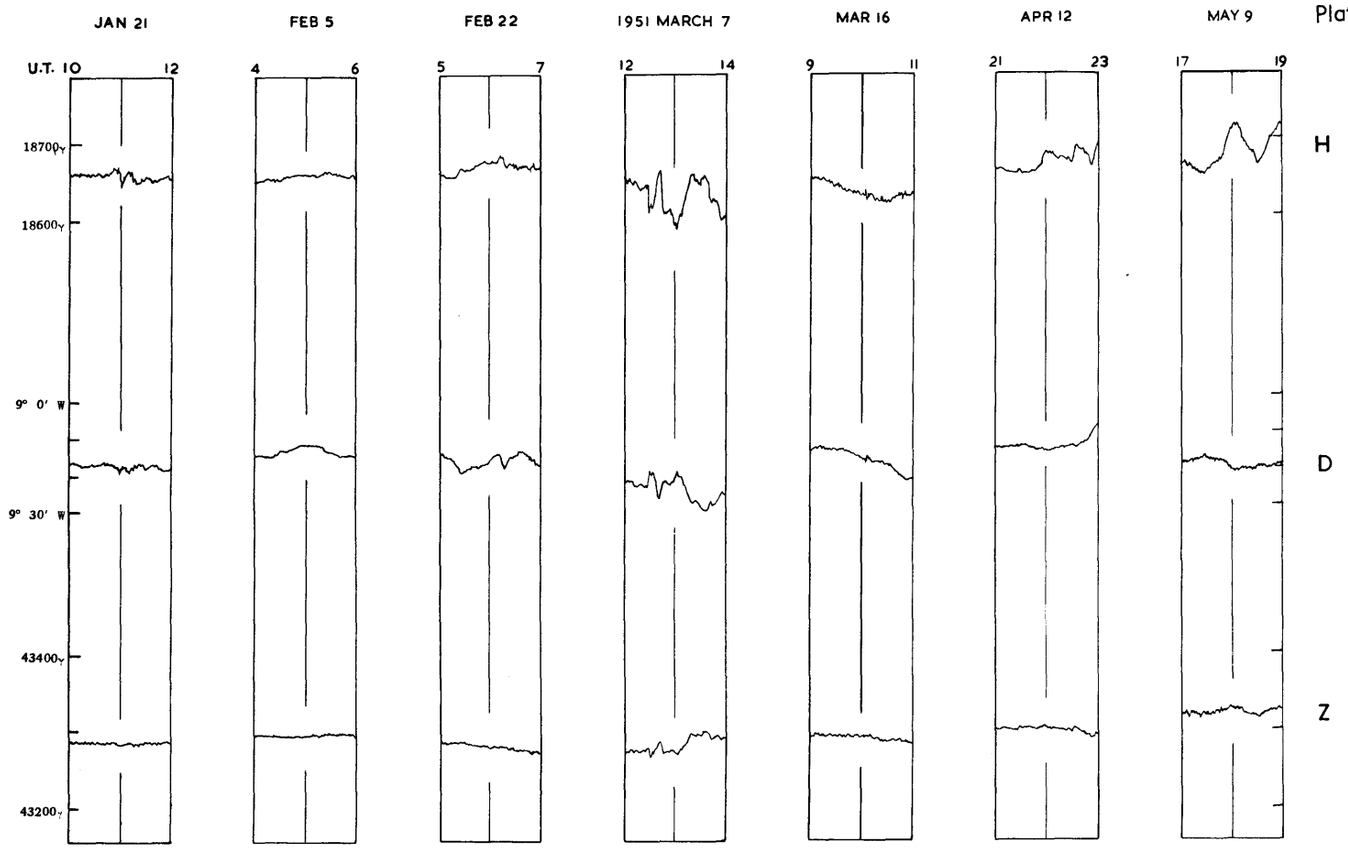
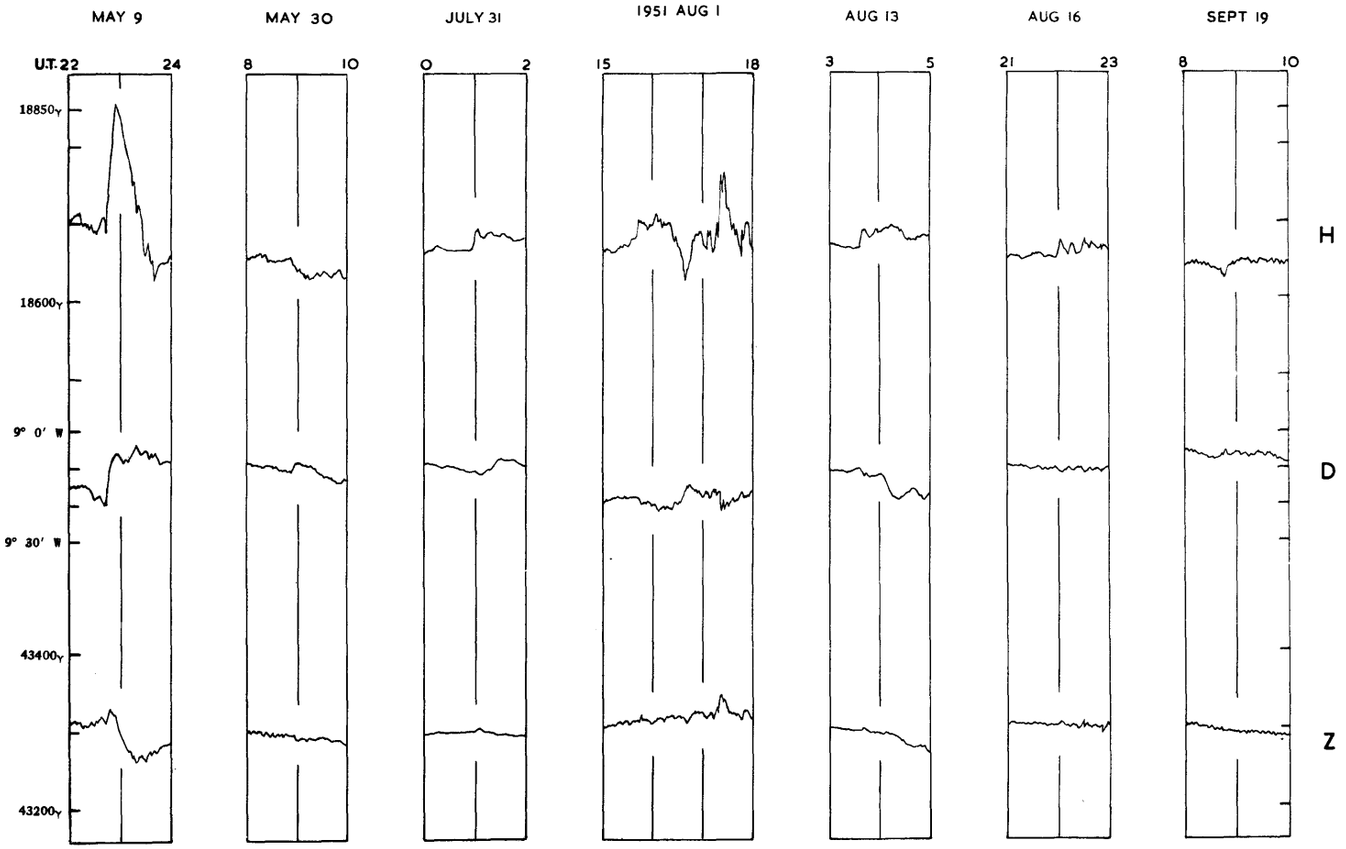
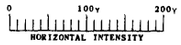


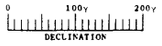
Plate IX

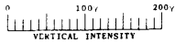




SCALES FOR THE MAGNETIC ELEMENTS







ROYAL OBSERVATORY, GREENWICH
AND THE
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX

Results of Meteorological Observations

1951

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours						Degree of Humidity (Saturation = 100)	Temperature of Radiation		Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
		Temperature of the Air											Polaris		δ Ursæ Minoris	
	Barometer Corrected and Reduced to 32° Fahrenheit	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb		Highest in Sun's Rays (Thrown back)	Lowest on the Grass				Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	in.	°	°	°	°	°		°	°	in.	hours	hours	hours		hours	
Jan. 1	28.869	35.0	31.8	3.2	33.2	32.8	96	38.0	26.8	0.764	0.4	7.9	0.9	0.06	0.3	0.02
2	28.750	36.4	32.4	4.0	34.2	33.9	97	35.0	30.4	0.110	0.0	7.9	1.7	0.12	1.5	0.11
3	29.468	40.8	33.7	7.1	34.2	32.7	84	43.8	29.0	0.023	0.2	7.9	6.5	0.47	5.5	0.40
4	29.512	49.6	30.6	19.0	40.8	40.4	96	50.0	22.9	0.150	0.0	8.0	0.6	0.05	0.0	0.00
5	29.450	51.2	40.8	10.4	49.6	48.2	90	53.3	38.3	0.210	0.0	8.0	0.0	0.00	0.0	0.00
6	29.423	50.4	45.6	4.8	45.6	43.3	82	63.3	43.1	0.030	1.6	8.0	5.1	0.38	3.8	0.28
7	29.547	47.8	41.4	6.4	41.8	39.5	80	63.6	36.4	0.007	5.4	8.0	4.7	0.35	3.4	0.25
8	29.579	47.6	41.4	6.2	47.3	46.1	91	54.2	36.8	0.220	0.0	8.1	8.3	0.61	7.2	0.53
9	29.651	43.6	35.3	8.3	36.2	34.4	82	63.7	30.2	0.004	2.4	8.1	11.7	0.87	10.0	0.74
10	29.522	46.6	33.8	12.8	39.2	37.7	86	56.6	23.3	0.200	0.1	8.1	0.6	0.04	0.0	0.00
11	29.058	48.4	36.6	11.8	46.6	45.3	90	50.4	32.2	0.100	0.0	8.2	9.5	0.70	9.0	0.67
12	28.996	42.1	36.9	5.2	39.6	37.7	83	57.6	31.5	0.055	0.5	8.2	9.3	0.69	8.0	0.60
13	29.115	45.0	35.2	9.8	41.4	38.9	78	67.8	28.8	0.000	1.9	8.2	13.0	0.98	12.6	0.95
14	29.444	46.2	38.6	7.6	41.3	39.1	81	63.2	30.0	0.225	1.2	8.3	2.4	0.18	1.4	0.10
15	29.542	43.6	39.3	4.3	39.7	37.6	81	54.8	34.1	0.000	2.0	8.3	12.3	0.93	9.6	0.72
16	30.249	51.8	33.9	17.9	37.4	35.9	86	51.6	27.1	0.130	0.0	8.3	0.0	0.00	0.0	0.00
17	29.712	51.8	36.7	15.1	51.7	49.3	83	63.3	33.4	0.010	0.1	8.4	5.6	0.43	3.7	0.28
18	29.557	50.0	45.1	4.9	49.0	44.1	65	63.3	40.6	0.020	0.1	8.4	12.2	0.92	12.0	0.91
19	29.905	50.4	38.0	12.4	42.1	39.6	79	48.8	31.9	0.005	0.0	8.5	3.0	0.23	2.4	0.18
20	29.849	49.8	41.8	8.0	48.6	46.6	85	59.4	38.9	0.000	0.0	8.5	2.1	0.16	1.8	0.14
21	29.982	49.7	46.0	3.7	47.2	46.1	91	65.6	39.0	0.003	0.0	8.5	1.6	0.13	1.5	0.12
22	29.898	48.4	43.6	4.8	44.8	43.0	85	66.1	35.3	0.050	0.1	8.6	2.5	0.19	1.1	0.08
23	29.783	48.9	39.8	9.1	43.5	43.0	96	71.1	29.3	0.074	1.0	8.7	0.0	0.00	0.0	0.00
24	29.934	44.5	41.4	3.1	42.6	41.3	89	61.9	39.4	0.006	0.6	8.7	0.0	0.00	0.0	0.00
25	29.693	42.4	39.2	3.2	40.0	39.0	91	51.0	36.4	0.016	0.0	8.8	0.2	0.02	0.0	0.00
26	29.489	44.0	39.6	4.4	41.6	40.9	94	49.4	34.0	0.167	0.0	8.8	5.6	0.43	5.6	0.43
27	29.412	42.8	27.3	15.5	30.9	30.1	91	83.5	18.0	0.000	5.8	8.9	12.8	1.00	12.8	1.00
28	29.603	38.4	27.7	10.7	29.6	29.3	97	64.7	18.0	0.000	3.4	8.9	12.8	1.00	11.3	0.88
29	29.977	30.8	24.4	6.4	28.4	28.4	100	32.5	17.6	0.000	0.0	9.0	0.0	0.00	0.0	0.00
30	29.965	37.0	23.7	13.3	25.2	25.2	100	58.0	24.6	0.000	3.2	9.0	1.0	0.08	0.9	0.07
31	29.758	41.4	24.9	16.5	34.7	33.2	84	60.9	22.6	0.000	0.6	9.1	..	..	..	..
Means	29.571	45.0	36.3	8.7	40.3	38.8	87.5	57.0	31.0	Sum 2.579	1.0	8.4	4.9	0.37	4.2	0.32

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Clouds and Weather				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
							Polaris		δ Ursæ Minoris	
	0^h to 6^h	6^h to 12^h	12^h to 18^h	18^h to 24^h			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
					hours	hours	hours		hours	
Jan. 1	$r_o r_o$ b x	b c ss c s c *Nbst* m	S s c b *Acu Ci* c m	c r c m	2.0	8.0	0.5	0.04	0.5	0.04
2	c ss m	ss c *Nbst* 1 rs m	c *Nbst* rs $1r_o s_o$ m	c $1r_o$ s_o c m	0.2	8.0	1.0	0.08	0.8	0.06
3	c r_o c b m	b bc *Ci* m	bc *Acu* m b f	b c ff x	6.2	8.1	6.5	0.48	4.3	0.32
4	c $1r_o$ f m	c *Nbst* m	c *Nbst* rr c m_o	c r c r m_o	0.0	8.1	0.0	0.00	0.0	0.00
5	rr c r m_o	r c *Nbst* r	rr_o	rr_o	0.0	8.1	1.2	0.09	0.2	0.02
6	dd c r c	c *Nbst* 1r c *Ci Acu*	bc c *Nbst* $1r_o$	$1r_o$ d_o c	2.2	8.1	4.2	0.31	3.1	0.23
7	c b	b *Frcu*	bc *Ci* b	b c	6.2	8.1	5.5	0.41	4.2	0.31
8	c r c	c *Nbst* r_o r	rr f c *Nbst* d_o	d_o c bc	0.0	8.2	5.1	0.38	3.8	0.28
9	bc b x	b c *Ci so-ha* c	c bc c *Acu Ast* p_o	c bc b	3.4	8.2	12.8	0.95	12.5	0.92
10	b c b x	b x c *Acu Ast*	c *Nbst* rr c	c	0.5	8.2	0.0	0.00	0.0	0.00
11	c rr	rr c *Nbst* r	c *Nbst* r b c	c r b c b	0.0	8.3	6.5	0.48	5.9	0.44
12	b	b c p bc *Ci Cumb prhn*	c *Nbst Cumb* p	c b c b	0.9	8.3	6.5	0.48	4.9	0.36
13	b c	c *Stcu* c p_o	c *Stcu* m c b	b	4.4	8.3	12.9	0.98	12.9	0.97
14	b x	b c *Nbst* r_o	c *Nbst* r c *Acu*	c r c	5.4	8.4	..	..	..	..
15	rr c	c b m b *Frcu*	b c *Acu* b	b	5.2	8.4	12.3	0.93	9.8	0.74
16	b c x f	c o *St* ff	o *St* m r_o c	c rr	2.0	8.4	0.0	0.00	0.0	0.00
17	r c rr c	c *Nbst* 1r c	c bc *Frcu* c r_o	c *lu-ha* c	0.7	8.5	3.6	0.27	2.5	0.19
18	c	c *Stcu*	c *Nbst* p b c	c b bc	0.0	8.5	11.9	0.90	11.8	0.89
19	bc b m	b c *Acu Ast* m	c *Nbst* r_o m c m_o	c m_o	0.0	8.6	2.4	0.18	1.8	0.14
20	c m_o	c *Stcu Acu* m_o	c *Stcu Acu* m_o	c	0.0	8.6	0.0	0.00	0.0	0.00
21	c m_o	c *Stcu* m_o m	c *Stcu* m m_o	c 1 d m_o	0.0	8.7	0.0	0.00	0.0	0.00
22	1d c m	bc *Ci* c *Acu* m	c *Stcu St* m	c m m_o	0.0	8.7	0.0	0.00	0.0	0.00
23	c 1 r m	c *Acu Frst* b c m	c m c r c	c r c	4.8	8.8	2.8	0.21	2.4	0.18
24	rr c	c *Stcu Frst*	c *Stcu* c *so-ha* c	c	1.3	8.8	3.8	0.29	0.7	0.05
25	c o d m	o *St* 1 d o m	o *St* m	o m	0.0	8.8	1.2	0.09	0.9	0.07
26	o m	o c *Nbst* r r_o m	c *Nbst* rr c m	c m	0.0	8.9	5.5	0.41	5.3	0.40
27	c b x m	b x m b *Frcu*	b bc *Frcu* b	b m x	4.6	8.9	11.8	0.95	11.7	0.93
28	b x f	b x f m	b m f x	b ff x	7.2	9.0	12.5	1.00	12.5	1.00
29	b ff x	f FF x	FF x	FF x	6.5	9.0	6.6	0.53	4.7	0.37
30	FF x	FF b f x	b f m	b c m	6.0	9.1	0.0	0.00	0.0	0.00
31	c m x	c *Acu Stcu* m x	c *Acu* b m	b x c m	0.6	9.1	12.5	1.00	12.5	1.00
Means	-	-	-	-	2.3	8.5	5.0	0.38	4.3	0.33

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours						Degree of Humidity (Saturation = 100)	Temperature of Radiation		Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
		Temperature of the Air											Polaris		δ Ursæ Minoris	
	Barometer Corrected and Reduced to 32° Fahrenheit	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb		Highest in Sun's Rays (Thrown back)	Lowest on the Grass				Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	in.	°	°	°	°	°		°	°	in.	hours	hours	hours		hours	
Feb. 1	29.979	44.3	28.1	16.2	33.0	31.3	82	61.3	20.6	0.000	0.0	9.1	3.0	0.24	2.7	0.21
2	29.918	42.1	33.0	9.1	40.4	39.7	94	47.2	30.6	0.042	0.0	9.2	0.0	0.00	0.0	0.00
3	29.417	40.4	39.2	1.2	39.9	39.1	93	44.4	37.0	0.343	0.0	9.3	5.5	0.44	5.4	0.43
4	28.605	42.9	31.8	11.1	39.3	38.1	89	46.6	24.4	0.760	0.0	9.3	4.1	0.33	2.6	0.21
5	28.533	46.1	37.7	8.4	40.9	38.4	78	82.9	34.1	0.020	2.8	9.3	12.4	0.99	12.0	0.96
6	28.960	46.4	34.8	11.6	36.8	35.7	89	88.8	28.3	0.020	4.4	9.4	11.6	0.93	11.4	0.91
7	29.302	48.1	32.3	15.8	36.6	35.7	91	89.0	24.5	0.060	6.8	9.5	2.0	0.16	1.1	0.09
8	29.072	48.9	36.6	12.3	48.1	45.4	80	61.3	30.6	0.890	0.0	9.5	0.0	0.00	0.0	0.00
9	29.259	43.8	36.7	7.1	36.8	36.3	95	63.5	34.6	0.065	0.8	9.6	11.8	0.94	11.5	0.92
10	29.622	43.2	32.7	10.5	36.4	35.7	93	66.3	22.2	0.348	0.2	9.6	0.0	0.00	0.0	0.00
11	29.454	40.3	36.5	3.8	36.5	35.8	93	46.8	32.2	0.110	0.0	9.7	9.6	0.80	9.1	0.76
12	29.576	50.6	33.7	16.9	40.3	39.7	94	104.3	23.8	0.000	3.9	9.8	4.1	0.34	4.0	0.33
13	29.560	41.8	35.7	6.1	37.4	37.1	97	46.8	28.1	0.630	0.0	9.8	0.0	0.00	0.0	0.00
14	29.529	38.4	35.9	2.5	36.4	35.9	95	47.0	34.4	0.044	0.0	9.9	0.0	0.00	0.0	0.00
15	29.662	44.8	34.9	9.9	36.0	35.4	94	76.9	30.0	0.040	2.3	10.0	5.4	0.45	4.3	0.36
16	29.497	46.7	34.2	12.5	43.2	42.1	91	61.3	26.2	0.310	0.8	10.0	3.2	0.27	2.9	0.24
17	29.267	46.8	42.5	4.3	46.7	46.0	95	62.3	36.2	0.249	0.5	10.1	10.9	0.95	10.6	0.92
18	29.446	48.6	35.0	13.6	41.6	39.2	79	80.9	29.1	0.370	0.5	10.1	0.7	0.06	0.0	0.00
19	29.206	47.7	38.2	9.5	40.3	37.7	77	97.0	32.6	0.023	7.3	10.2	10.4	0.90	10.0	0.87
20	29.097	47.0	34.8	12.2	44.4	42.5	85	62.9	26.6	0.620	0.0	10.3	2.1	0.19	1.2	0.10
21	28.966	46.6	34.6	12.0	38.8	36.0	74	99.5	29.7	0.095	4.5	10.3	9.3	0.81	8.3	0.72
22	29.290	43.3	34.2	9.1	36.6	35.5	89	83.3	27.8	0.008	2.5	10.4	9.5	0.83	9.2	0.80
23	29.627	47.1	35.4	11.7	40.2	37.9	79	94.3	29.4	0.018	3.0	10.5	9.3	0.81	8.5	0.74
24	29.467	46.7	34.1	12.6	39.8	39.1	93	90.9	25.2	0.628	0.1	10.5	0.0	0.00	0.0	0.00
25	29.673	41.2	36.2	5.0	37.3	36.6	93	53.0	33.7	0.086	0.2	10.6	8.5	0.77	1.0	0.09
26	29.821	42.6	28.0	14.6	33.1	31.3	81	76.1	20.4	0.160	2.6	10.7	0.0	0.00	0.0	0.00
27	29.793	44.6	33.1	11.5	39.6	37.8	84	98.3	32.4	0.000	1.7	10.7	6.5	0.59	2.5	0.23
28	30.159	45.4	30.0	15.4	34.6	33.9	93	84.6	22.6	0.000	1.0	10.8	11.0	1.00	8.6	0.78
Means	29.420	44.9	34.6	10.2	39.0	37.7	88.2	72.1	28.8	Sum 5.939	1.6	9.9	5.4	0.46	4.5	0.38

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Clouds and Weather				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
							Polaris		δ Ursæ Minoris	
	0^h to 6^h	6^h to 12^h	12^h to 18^h	18^h to 24^h			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
					hours	hours	hours		hours	
Feb. 1	c b bc m x	c m x *Acu* c *Stcu*	c *Stcu*	b c	4.3	9.2	2.5	0.20	0.5	0.04
2	c	c *Nbst* id_o m_o	c *Nbst* id_o m_o	c id_o c m	0.0	9.2	0.0	0.00	0.0	0.00
3	c r c m_o	c *Nbst* rr m_o	rr	r c b x	0.0	9.3	5.2	0.43	4.9	0.40
4	b x c rr	rr	rr c	c rr	0.0	9.3	3.8	0.31	2.5	0.20
5	rr c ir bc	bc *Cunb Acu Ci*	bc *Cunb Stcu* p bc	b	2.6	9.4	5.0	0.41	4.8	0.39
6	b x	b x c r b	b c b c p b	b	3.2	9.5	3.9	0.32	3.2	0.26
7	b x m	b x m b *Cu Acu*	b bc c *Cu Acu*	c rr	5.8	9.5	1.3	0.11	0.7	0.06
8	rr c	c *Nbst* rr_o	rr_o m	rr_o c r m	0.0	9.6	0.9	0.07	0.6	0.05
9	rr m	rr m c *Stcu*	c p c *Stcu* b	b c p c b	6.2	9.7	10.0	0.82	9.5	0.77
10	b m x	b m c *Stcu Acu*	c *Ast*	c	0.9	9.7	0.8	0.07	0.1	0.01
11	c r R	R r c *Nbst*	c ff	c ff b m	1.7	9.8	10.6	0.90	9.9	0.84
12	b m x	b m c *Acu Cu*	c *Stcu Frst* b m	b m ff	7.4	9.8	2.4	0.20	1.8	0.15
13	fe fe	fe fe o f r_o	c *Nbst* r_o rr f m	rr m	0.0	9.9	0.0	0.00	0.0	0.00
14	rr m	rr r_o m	c *Nbst* id_o m	c m	0.0	9.9	2.3	0.20	1.4	0.12
15	c r m	r c b m c *Stcu*	c *Stcu*	c b	0.4	10.0	0.0	0.00	0.0	0.00
16	c	c *Nbst* rr_o	r c *Nbst Acu* c r	r c b m c	0.0	10.1	1.2	0.10	0.0	0.00
17	c r	rr	rr c *Stcu* b	b x	0.4	10.1	11.1	0.97	10.5	0.91
18	b x	b c *Nbst* r_o c p c	c *Nbst* p bc *Ast Ci*	c r c r	4.4	10.2	0.9	0.08	0.4	0.03
19	rr c	c b c *Cu Stcu*	c *Cu* p b	b c *lu-ha* b	7.8	10.2	9.6	0.84	9.6	0.84
20	b x c	c *Nbst* ir d_o r	rr c r_o p bc	bc c ir	0.2	10.3	2.9	0.25	1.8	0.16
21	ir c	c *Cist so-ha* bc *Ci Frcu*	bc *Acu Ci* c p t bc	b *prsa*	7.8	10.4	9.3	0.81	9.0	0.78
22	b c r m	r m c *Ci Cist so-ha* c	c p c	c p_o b c b	4.7	10.4	11.4	0.99	11.3	0.98
23	b c m	c m c *Nbst Cunb*	c *Cunb* b	b bc *lu-ha*	5.8	10.5	7.0	0.61	6.5	0.56
24	bc *lu-ha* x c	c *Nbst* ir c *Ast*	c *Nbst* u rr_o	r_o r c	0.1	10.6	2.6	0.24	1.9	0.17
25	c id rr	r rs rr_o	r_o c *Stcu*	c bc	0.6	10.6	9.9	0.90	8.3	0.76
26	bc x m	bc c *Cist so-ha*	*so-ha* c *Nbst* rr	r c r c	4.9	10.7	0.0	0.00	0.0	0.00
27	c	c *Stcu*	c bc *Acu Frcu* m	c b m f	2.8	10.8	8.5	0.77	7.3	0.67
28	f F x	F x b m	b c *Acu* b m	b m F f	4.7	10.8	10.9	0.99	9.0	0.82
Means	-	-	-	-	2.7	10.0	4.8	0.41	4.1	0.36

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours						Degree of Humidity (Saturation = 100)	Temperature of Radiation		Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Barometer Corrected and Reduced to 32° Fahrenheit	Temperature of the Air						Highest in Sun's Rays (Thrown back)	Lowest on the Grass				Polaris		δ Ursæ Minoris	
		Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb							Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	in.	°	°	°	°	°		°	°	in.	hours	hours	hours		hours	
Mar. 1	30.171	45.9	29.2	16.7	35.4	33.9	85	72.3	21.2	0.038	2.5	10.9	0.0	0.00	0.0	0.00
2	30.026	44.4	35.4	9.0	42.1	41.6	96	56.7	32.2	0.006	0.0	10.9	5.2	0.48	4.7	0.43
3	30.208	40.4	34.6	5.8	35.4	31.7	65	86.3	26.5	0.000	2.0	11.0	1.0	0.10	0.8	0.07
4	30.159	46.8	35.1	11.7	36.7	34.4	77	92.3	28.1	0.000	5.8	11.1	5.6	0.53	3.7	0.35
5	29.927	47.4	31.1	16.3	33.4	32.9	95	79.0	19.0	0.008	0.3	11.1	0.0	0.00	0.0	0.00
6	29.646	45.8	33.4	12.4	42.0	40.0	83	80.6	32.2	0.006	0.0	11.2	5.4	0.52	4.0	0.38
7	29.248	50.6	36.2	14.4	44.8	39.7	60	101.0	27.4	0.000	2.9	11.3	8.2	0.78	7.0	0.67
8	29.293	40.4	36.2	4.2	40.0	37.7	79	47.0	25.0	0.114	0.0	11.3	0.0	0.00	0.0	0.00
9	29.366	36.2	34.6	1.6	35.2	34.4	92	39.0	32.2	0.024	0.0	11.4	0.0	0.00	0.0	0.00
10	29.351	38.7	34.3	4.4	35.3	34.3	90	48.9	32.0	0.178	0.0	11.4	0.0	0.00	0.0	0.00
11	29.086	43.8	35.3	8.5	38.7	38.3	96	70.1	34.2	0.060	0.0	11.5	0.3	0.03	0.0	0.00
12	29.157	50.3	37.3	13.0	40.2	38.4	84	104.9	30.1	0.003	7.5	11.6	2.8	0.27	1.7	0.17
13	28.969	52.4	39.0	13.4	48.3	44.4	71	94.3	28.2	0.600	1.6	11.6	0.1	0.01	0.0	0.00
14	28.877	52.6	42.7	9.9	46.2	42.8	74	96.1	40.6	0.000	1.9	11.7	4.1	0.40	4.0	0.39
15	29.601	55.1	39.3	15.8	43.6	41.3	81	104.2	32.0	0.000	5.8	11.8	7.8	0.76	7.0	0.69
16	29.631	52.7	34.1	18.6	44.4	42.4	84	66.7	24.1	0.284	0.1	11.8	0.0	0.00	0.0	0.00
17	29.323	55.9	44.0	11.9	52.2	51.2	92	88.7	45.4	0.050	0.0	11.9	0.0	0.00	0.0	0.00
18	29.248	51.0	44.0	7.0	47.7	42.6	62	96.3	40.6	0.360	2.7	12.0	6.6	0.68	6.0	0.62
19	29.259	43.4	40.8	2.6	42.8	42.3	96	72.8	32.4	0.106	0.0	12.0	2.7	0.28	1.2	0.12
20	29.920	45.4	32.7	12.7	38.4	35.0	68	101.6	25.4	0.000	8.7	12.1	3.8	0.39	0.6	0.06
21	30.181	51.1	31.8	19.3	44.1	39.1	60	99.3	23.6	0.270	3.8	12.2	0.0	0.00	0.0	0.00
22	29.771	57.0	39.8	17.2	50.8	48.8	86	91.3	37.7	0.000	0.1	12.2	0.0	0.00	0.0	0.00
23	29.490	53.7	49.2	4.5	50.1	47.0	78	75.3	47.3	0.278	0.0	12.3	8.0	0.82	7.6	0.78
24	29.728	47.8	37.8	10.0	41.3	36.8	61	107.3	31.2	0.000	5.2	12.4	8.9	0.96	8.5	0.92
25	29.904	46.7	33.7	13.0	40.3	36.0	62	97.7	27.3	0.040	4.9	12.4	0.0	0.00	0.0	0.00
26	29.582	47.9	39.7	8.2	41.6	38.9	77	63.0	38.4	0.163	0.0	12.5	5.4	0.58	5.0	0.54
27	29.428	45.1	37.1	8.0	37.9	36.1	83	92.9	35.4	0.010	2.3	12.6	8.8	0.95	8.4	0.90
28	29.730	45.1	32.1	13.0	38.8	34.5	61	100.5	25.0	0.027	5.7	12.6	4.2	0.46	0.4	0.04
29	29.405	44.2	31.3	12.9	40.3	37.3	73	77.7	25.6	0.135	0.2	12.7	0.0	0.00	0.0	0.00
30	29.508	45.7	34.8	10.9	38.2	34.7	67	101.6	33.3	0.000	4.6	12.7	9.3	1.00	9.3	1.00
31	29.629	46.2	26.7	19.5	41.5	37.0	62	78.3	18.8	0.070	0.0	12.8	7.4	0.85	6.6	0.75
Means	29.575	47.4	36.2	11.2	41.5	38.9	77.4	83.3	30.7	Sum 2.830	2.2	11.8	3.4	0.35	2.8	0.29

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Clouds and Weather				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
							Polaris		δ Ursæ Minoris	
	0^h to 6^h	6^h to 12^h	12^h to 18^h	18^h to 24^h			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
					hours	hours	hours		hours	
Mar. 1	b m f x	b f c *Stcu*	c *Stcu* b c	c	7.4	10.9	0.0	0.00	0.0	0.00
2	c o f	o *St* f m id_o	o *St* c b	b c	0.1	10.9	4.1	0.37	3.4	0.31
3	c x	c *Stcu*	c bc *Frcu* b	b c	7.9	11.0	3.0	0.28	1.8	0.17
4	c x	c bc *Ci Frcu*	bc *Ci Frcu so-ha* b	b x f	6.4	11.1	10.5	0.98	7.7	0.71
5	b c x f F	FF c *Cist so-ha* m	c *Cist so-ha* c *Ast* m	c r c m	6.4	11.1	2.8	0.26	0.6	0.06
6	c m_o	c *Ast Nbst* r_o c	c r_o c *Stcu*	c b	1.3	11.2	1.5	0.14	1.2	0.11
7	b c ir	c *Acu Ast Ci*	c bc *Acu Ci* b m	b m x	5.3	11.3	8.4	0.78	8.4	0.78
8	b x c	c *Stcu*	c *Stcu* c d	dd c r	1.9	11.3	0.0	0.00	0.0	0.00
9	rr_o c m	r rs s c *Nbst* id_o	c *Nbst* r_o $r_o s_o$	c $r_o s_o$ r_o c	0.0	11.4	0.0	0.00	0.0	0.00
10	c	c *Nbst* s_o r_o s_o	c *Nbst* ir r_o	c ir r_o	0.0	11.4	0.0	0.00	0.0	0.00
11	c ir	ir d_o c h c *Nbst*	c *Nbst*	c f	0.0	11.5	3.0	0.30	2.8	0.27
12	FF r c	c p c bc *Cunb Acu Cu*	c p bc *Cu Acu* b	b c	7.4	11.6	4.9	0.48	3.9	0.38
13	c b c bc x	bc *Cist Ci so-ha* b c r	c *Nbst* rr c	c rr	2.5	11.7	0.0	0.00	0.0	0.00
14	rr c	c d c *Nbst*	c *Stcu Nbst* p_o c	c	7.2	11.7	8.5	0.83	8.0	0.78
15	c b	b c *Stcu* m bc b	b bc *Frcu* b	b bc	9.4	11.8	9.8	0.95	8.8	0.86
16	b bc x	bc c *Nbst* r_o c	c *Nbst* r_o c r	rr c r c	0.0	11.8	0.0	0.00	0.0	0.00
17	c ir_o	c *Nbst* ir_o	c *Nbst* r id	c id	0.2	11.9	0.5	0.05	0.4	0.04
18	c ir_o c	c b c *Nbst*	c *Nbst* r c r c	c b	6.6	12.0	6.0	0.61	5.8	0.59
19	b c rr	c rr c *Nbst*	c *Nbst* r c rr	r_o c r c	2.0	12.0	0.0	0.00	0.0	0.00
20	c b x	b *Ci Frcu so-ha* b	b bc *Cu Acu*	bc c *lu-ha* c	10.3	12.1	0.0	0.00	0.0	0.00
21	c x	c *Acu Ci so-ha* c *Ast*	c *Ast*	c rr	5.0	12.2	0.0	0.00	0.0	0.00
22	rr c	c *Nbst*	c	c	0.4	12.2	3.0	0.31	1.1	0.11
23	c	c *Stcu*	c r c r R	r c b	0.0	12.3	8.9	0.91	8.9	0.91
24	b c b	b c *Cu Stcu*	c r_o bc b	b	6.1	12.4	9.0	1.00	9.0	1.00
25	b x	b *Frcu* c	c	c ir c	7.2	12.4	0.0	0.00	0.0	0.00
26	c	c *Nbst* ir_o	c *Nbst* ir_o r	rr bc b	0.0	12.5	6.0	0.66	6.0	0.66
27	b c	c *Nbst* r_o r c	c bc b	b c b	1.0	12.5	9.0	1.00	9.0	1.00
28	b x	b c *Cu Stcu*	c *Nbst*	s c	9.6	12.6	8.2	0.91	7.7	0.85
29	c x	c *Acu Ast*	c *Nbst* $r_o r_o$ r	rr r_o r	0.5	12.7	0.0	0.00	0.0	0.00
30	r c	c bc *Acu Cu Stcu*	bc	b	7.2	12.7	9.0	1.00	9.0	1.00
31	b x bc	bc *Cist so-ha* c *Ast*	c *Nbst* ir	c b	0.2	12.8	6.8	0.80	6.1	0.72
Means	-	-	-	-	3.9	11.8	4.0	0.41	3.5	0.36

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours						Degree of Humidity (Saturation = 100)	Temperature of Radiation		Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Barometer Corrected and Reduced to 32° Fahrenheit	Temperature of the Air						Highest in Sun's Rays (Thrown back)	Lowest on the Grass				Polaris		δ Ursæ Minoris	
		Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb							Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	in.	°	°	°	°	°		°	°	in.	hours	hours	hours		hours	
Apr. 1	29.330	52.3	40.0	12.3	46.2	43.2	77	103.3	34.1	0.200	2.3	12.9	2.4	0.28	1.3	0.15
2	29.538	50.4	37.8	12.6	43.8	39.8	68	92.8	32.2	0.000	4.4	12.9	7.3	0.84	7.1	0.81
3	29.948	53.6	36.3	17.3	46.2	41.6	65	108.3	28.3	0.050	5.4	13.0	3.6	0.41	1.4	0.16
4	29.648	54.0	43.9	10.1	48.7	47.3	89	100.0	39.2	0.230	2.6	13.1	8.6	0.98	8.6	0.98
5	29.946	56.6	37.4	19.2	47.6	42.9	65	113.3	30.0	0.204	8.8	13.2	4.9	0.56	4.2	0.48
6	29.614	57.5	40.2	17.3	49.2	48.3	93	102.3	29.2	0.208	0.1	13.2	1.2	0.14	0.5	0.06
7	29.237	50.0	40.7	9.3	46.2	41.0	60	105.3	37.1	0.437	4.5	13.3	0.0	0.00	0.0	0.00
8	29.377	52.4	37.4	15.0	45.6	41.0	65	103.8	35.0	0.478	4.7	13.3	0.0	0.00	0.0	0.00
9	28.906	46.0	42.3	3.7	43.6	40.9	78	93.3	39.3	0.118	0.7	13.4	6.8	0.83	6.7	0.81
10	29.530	49.0	38.3	10.7	44.8	39.0	55	104.9	32.4	0.068	5.4	13.5	3.9	0.47	3.8	0.46
11	29.890	51.0	33.7	17.3	42.4	37.0	55	105.0	25.6	0.000	7.5	13.5	4.6	0.56	2.9	0.36
12	29.715	54.3	41.4	12.9	50.0	45.9	71	102.1	29.4	0.320	0.8	13.6	0.0	0.00	0.0	0.00
13	29.533	53.7	36.8	16.9	40.9	39.4	87	116.0	35.4	0.020	4.4	13.7	5.5	0.66	5.2	0.63
14	29 849	48.8	37.0	11.8	42.8	37.7	58	103.3	30.8	0.000	5.7	13.7	7.5	1.00	7.5	1.00
15	30.114	52.9	33.2	19.7	46.7	40.1	51	103.5	24.2	0.000	5.1	13.8	3.6	0.48	3.5	0.47
16	29.813	52.2	40.8	11.4	49.7	44.9	66	82.3	33.6	0.006	0.6	13.9	7.4	0.98	7.3	0.97
17	30.029	55.8	36.7	19.1	44.7	37.9	47	112.1	28.1	0.000	10.8	13.9	7.3	0.98	4.8	0.64
18	29.851	56.2	37.4	18.8	47.5	40.7	50	117.9	25.0	0.000	7.0	14.0	1.3	0.18	0.4	0.05
19	29.818	55.7	43.6	12.1	49.3	41.4	44	118.9	38.4	0.000	5.3	14.1	7.2	0.96	6.8	0.91
20	29.931	57.5	40.0	17.5	46.2	42.3	70	115.6	35.0	0.000	8.7	14.1	5.8	0.78	5.7	0.76
21	30.021	49.0	36.7	12.3	43.2	38.5	61	109.9	32.2	0.000	8.3	14.2	3.8	0.55	2.3	0.33
22	30.129	51.3	38.0	13.3	44.4	39.3	59	116.3	30.2	0.000	11.5	14.2	..	..	..	..
23	30.081	70.4	36.8	33.6	46.7	44.8	85	122.7	25.6	0.000	7.6	14.3	6.9	0.99	6.7	0.96
24	30.046	73.3	38.8	34.5	61.2	51.5	47	127.7	27.1	0.000	11.4	14.4	7.0	1.00	7.0	1.00
25	29.975	73.6	39.2	34.4	62.6	50.9	39	128.3	26.9	0.000	11.8	14.4	7.0	1.00	7.0	1.00
26	29.739	58.4	42.7	15.7	55.2	50.1	68	94.1	28.7	0.000	2.1	14.5	0.1	0.02	0.0	0.00
27	29.809	51.6	39.8	11.8	43.3	39.1	66	108.7	36.8	0.012	1.1	14.6	4.0	0.58	3.6	0.51
28	29.934	47.4	37.8	9.6	44.1	39.1	60	99.5	32.7	0.004	1.7	14.6	2.2	0.34	1.2	0.18
29	29.878	50.6	35.2	15.4	43.4	38.9	63	110.0	27.8	0.302	0.8	14.7	0.0	0.00	0.0	0.00
30	29.850	50.0	36.0	14.0	42.0	40.0	83	108.6	33.3	0.154	2.4	14.7	3.5	0.54	3.1	0.47
Means	29.769	54.5	38.5	16.0	46.9	42.1	64.8	107.7	31.5	Sum 2.811	5.1	13.8	4.3	0.56	3.7	0.49

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Clouds and Weather				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
							Polaris		δ Ursæ Minoris	
	0^h to 6^h	6^h to 12^h	12^h to 18^h	18^h to 24^h			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
					hours	hours	hours		hours	
Apr. 1	b c	c *Nbst* r_o t Rc *Cunb Cu*	c *Stcu Nbst* r bc	bc p c	3.5	12.9	2.9	0.35	1.5	0.18
2	c r c b	b c *Stcu*	c *Cu Stcu*	c b	7.9	12.9	6.1	0.72	5.3	0.62
3	b x bc	bc *Cu Frcu*	bc c *Stcu*	c bc c	7.2	13.0	2.7	0.32	1.5	0.18
4	c ir	rr *Nbst*	r c bc *Stcu Ci* b	b	2.2	13.1	8.5	1.00	8.5	1.00
5	b	b *Frcu*	b *Frcu* bc	b bc	10.8	13.1	5.8	0.68	4.9	0.57
6	bc c rr	rr c *Nbst*	c *Nbst* $d_o d_o$	d_o rr c	0.0	13.2	0.1	0.01	0.1	0.01
7	c p c	c bc c *Cu Ci* p	c q h r t l c p c	c rr c	6.6	13.3	1.7	0.21	0.7	0.09
8	c	c *Nbst*	c *Cu Stcu* c r_o	c r_o c rr	7.9	13.3	0.0	0.00	0.0	0.00
9	rr c r	r c *Nbst Cunb*	c *Nbst* $r_o r_o$ rr	r c b	0.7	13.4	7.0	0.85	6.9	0.84
10	b c b	b c *Cu Cunb* p	c *Cunb* p h c	c p c	7.5	13.4	2.1	0.26	2.0	0.24
11	c b x	b bc *Cu Frcu*	bc *Cu Stcu*	bc b c	8.2	13.5	6.6	0.80	5.3	0.64
12	c b c	c *Ci Cu Ast*	c *Ast*	c	0.3	13.6	0.0	0.00	0.0	0.00
13	c rr	c *Nbst* c *Cu*	c bc *Cu Cunb* p c	c p b c b	5.8	13.6	8.3	1.00	8.3	1.00
14	b c	c b c *Cu Cunb*	c *Cunb* p c	c b	10.7	13.7	7.5	1.00	7.5	1.00
15	b x	c bc *Ci Cist so-ha* c	c b	b c	11.5	13.8	4.5	0.60	4.4	0.58
16	c	c *Nbst* $d_o d_o$	c *Nbst* d_od c	c b	3.2	13.8	7.4	0.98	7.2	0.96
17	b c b x	b	b	b bc	12.9	13.9	7.5	1.00	6.8	0.91
18	bc x	bc *Cicu Ci Acu*	bc *Ci Acu* c	c	10.2	14.0	5.7	0.76	4.7	0.63
19	c p c	c bc *Cu Acu Ci*	bc *Cu Acu Ci* c	c b	0.0	14.0	0.0	0.00	0.0	0.00
20	b c	c *Stcu* b	b	b	10.7	14.1	7.5	1.00	7.5	1.00
21	b bc c	c *Stcu*	c *Stcu* bc b	b c	10.7	14.1	7.0	1.00	7.0	1.00
22	c b	b *Frcu Acu*	b	b	11.1	14.2	7.0	1.00	7.0	1.00
23	b c x f	f b *Ci*	b *Ci*	b	13.0	14.3	7.0	1.00	7.0	1.00
24	b x	b x z_o	b z_o	b z_o	13.3	14.3	7.0	1.00	7.0	1.00
25	b x z_o	b z_o	b z_o	b	13.3	14.4	7.0	1.00	7.0	1.00
26	b bc	bc b z_o c	c r_o c	c r_o c	8.5	14.4	0.0	0.00	0.0	0.00
27	c	c *Stcu Nbst*	c *Cunb* p	c p b c p	2.5	14.5	6.0	0.86	5.7	0.81
28	c p	c *Cu Cunb*	r_o c r_o c	c b	3.2	14.6	3.5	0.54	3.5	0.53
29	bc x	bc *Ast Cist so-ha* c *Stcu*	c *Stcu Nbst*	c R c	1.7	14.6	2.6	0.40	2.3	0.35
30	c r c	c rs r c *Nbst* p c	c *Nbst Cunb* p	c b	4.3	14.7	0.6	0.09	0.4	0.06
Means	-	-	-	-	7.0	13.8	4.7	0.61	4.3	0.57

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH									
	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
May 1	54.7	40.6	14.1	43.2	42.2	92	37.1	0.01	1.9	14.8
2	58.0	42.8	15.2	53.2	45.4	49	41.2	Trace	9.6	14.8
3	61.3	41.3	20.0	53.1	48.7	71	30.6	0.07	0.1	14.9
4	54.5	46.4	8.1	47.7	47.1	95	42.6	0.19	0.5	14.9
5	58.6	41.7	16.9	53.2	49.9	78	29.7	0.11	2.3	15.0
6	57.8	42.8	15.0	49.1	46.7	83	33.4	Trace	0.3	15.1
7	49.5	44.8	4.7	45.9	43.9	84	44.2	0.01	0.0	15.1
8	49.4	38.8	10.6	40.2	38.4	84	36.6	0.01	0.2	15.2
9	49.6	40.0	9.6	43.5	42.8	94	40.4	0.06	0.0	15.2
10	58.4	43.2	15.2	48.6	45.7	79	43.5	0.00	8.1	15.3
11	58.8	41.3	17.5	51.8	46.5	64	36.4	0.00	7.0	15.4
12	63.1	38.2	24.9	51.1	44.2	53	29.6	0.00	11.9	15.4
13	58.9	46.2	12.7	55.3	49.3	62	35.6	0.00	3.2	15.5
14	51.8	43.8	8.0	45.9	41.5	66	37.9	0.00	1.0	15.5
15	57.4	45.2	12.2	51.5	47.7	74	36.3	0.12	0.0	15.6
16	52.7	48.3	4.4	49.4	44.9	68	47.1	0.00	1.7	15.6
17	55.7	41.8	13.9	52.5	46.2	58	38.4	0.10	6.8	15.7
18	61.5	45.1	16.4	55.7	50.8	69	41.1	0.02	3.1	15.7
19	61.7	49.4	12.3	54.8	52.1	82	43.6	0.21	0.4	15.8
20	66.2	48.5	17.7	55.8	53.0	82	45.3	0.08	4.4	15.8
21	66.7	48.7	18.0	56.9	50.4	61	43.5	0.12	11.8	15.9
22	62.0	43.3	18.7	55.4	52.8	84	32.6	0.01	6.9	15.9
23	69.7	49.7	20.0	60.5	53.9	62	41.6	0.27	1.4	16.0
24	72.7	53.7	19.0	56.9	56.1	95	46.2	Trace	4.6	16.0
25	70.2	51.4	18.8	64.7	57.7	63	42.6	0.00	8.9	16.0
26	62.8	51.8	11.0	58.3	52.7	67	43.5	0.59	0.0	16.1
27	57.3	48.3	9.0	52.0	49.4	82	45.6	0.00	1.7	16.1
28	65.4	44.0	21.4	57.1	53.2	76	35.4	0.01	2.8	16.1
29	58.7	50.3	8.4	52.4	49.5	80	46.4	0.00	1.1	16.2
30	60.0	45.1	14.9	48.5	45.1	75	43.2	0.00	6.9	16.2
31	61.0	44.6	16.4	57.7	50.0	54	38.3	0.00	13.7	16.3
Means	59.6	45.2	14.4	52.3	48.3	73.7	39.7	Sum 1.99	3.9	15.6

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
May 1	0.0	0.00	0.0	0.00	5.7	14.7	0.0	0.00	0.0	0.00
2	5.7	0.88	5.2	0.80	11.3	14.8	4.7	0.72	4.3	0.65
3	0.6	0.09	0.1	0.01	3.3	14.8	0.0	0.00	0.0	0.00
4	6.2	0.95	6.1	0.94	3.1	14.9	3.8	0.58	3.3	0.52
5	3.2	0.53	3.1	0.51	7.0	15.0	5.8	0.93	5.3	0.85
6	0.1	0.01	0.1	0.01	3.6	15.0	0.9	0.15	0.8	0.13
7	0.2	0.04	0.1	0.02	0.0	15.1	0.0	0.00	0.0	0.00
8	0.0	0.00	0.0	0.00	0.3	15.1	0.0	0.00	0.0	0.00
9	0.0	0.00	0.0	0.00	0.3	15.2	0.0	0.00	0.0	0.00
10	3.7	0.62	3.2	0.54	8.7	15.2	6.3	1.00	6.3	1.00
11	6.0	1.00	6.0	1.00	13.0	15.3	6.3	1.00	6.3	1.00
12	5.4	0.98	4.3	0.78	13.9	15.3	5.7	1.00	5.7	1.00
13	0.3	0.06	0.3	0.05	5.4	15.4	1.5	0.26	1.1	0.18
14	0.8	0.15	0.6	0.12	1.0	15.4	0.0	0.00	0.0	0.00
15	0.0	0.00	0.0	0.00	0.9	15.5	0.0	0.00	0.0	0.00
16	0.6	0.12	0.5	0.10	5.0	15.5	2.1	0.37	1.9	0.33
17	0.2	0.04	0.1	0.02	9.8	15.6	0.0	0.00	0.0	0.00
18	0.0	0.00	0.0	0.00	8.7	15.6	1.8	0.32	1.5	0.26
19	0.0	0.00	0.0	0.00	1.0	15.7	0.0	0.00	0.0	0.00
20	0.0	0.00	0.0	0.00	7.0	15.7	0.0	0.00	0.0	0.00
21	3.6	0.71	3.6	0.71	14.3	15.8	3.3	0.63	3.1	0.59
22	4.8	0.97	4.8	0.97	6.4	15.8	3.3	0.63	2.3	0.43
23	2.9	0.59	2.7	0.53	3.4	15.8	4.3	0.83	4.0	0.76
24	0.8	0.16	0.5	0.10	7.7	15.9	0.0	0.00	0.0	0.00
25	1.2	0.25	1.1	0.21	12.9	15.9	0.0	0.00	0.0	0.00
26	0.0	0.00	0.0	0.00	0.0	16.0	0.0	0.00	0.0	0.00
27	3.7	0.77	3.3	0.70	7.0	16.0	4.4	0.89	3.3	0.66
28	2.6	0.54	2.4	0.51	7.2	16.0	1.4	0.28	0.4	0.07
29	2.8	0.59	2.5	0.52	2.0	16.1	3.8	0.76	2.5	0.51
30	4.7	1.00	4.7	1.00	14.4	16.1	5.0	1.00	5.0	1.00
31	4.7	0.98	4.7	0.98	13.9	16.2	5.0	1.00	5.0	1.00
Means	2.1	0.39	1.9	0.36	6.4	15.5	2.2	0.40	2.0	0.35

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH									
	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
June 1	67.7	46.9	20.8	60.3	53.1	59	41.2	0.00	12.5	16.3
2	68.3	44.0	24.3	55.8	49.8	63	37.2	0.00	10.8	16.3
3	71.6	40.4	31.2	60.7	54.8	67	39.9	0.00	12.3	16.4
4	65.7	46.3	19.4	51.2	47.7	75	35.7	0.00	8.8	16.4
5	73.0	47.7	25.3	58.1	50.7	56	40.6	0.00	12.2	16.4
6	70.8	47.7	23.1	63.0	55.3	59	35.3	0.00	13.0	16.4
7	57.5	49.4	8.1	52.2	48.0	70	44.8	0.00	4.1	16.5
8	65.2	44.8	20.4	55.4	48.3	56	39.6	0.00	13.5	16.5
9	69.7	43.8	25.9	58.9	52.5	62	30.4	0.09	4.8	16.5
10	72.4	49.3	23.1	59.0	53.4	67	41.7	0.01	9.6	16.5
11	75.8	48.8	27.0	64.7	56.7	58	39.0	0.38	12.3	16.5
12	70.0	59.3	10.7	64.2	61.6	86	54.6	0.00	7.6	16.6
13	68.7	57.2	11.5	64.5	58.4	68	52.3	0.00	4.4	16.6
14	74.6	55.6	19.0	67.4	61.1	68	47.4	0.06	3.8	16.6
15	74.6	57.0	17.6	65.3	59.1	68	51.6	0.00	11.5	16.6
16	73.7	51.3	22.4	64.5	55.3	53	39.2	0.00	12.2	16.6
17	71.4	49.6	21.8	64.7	55.5	53	38.7	0.00	11.0	16.6
18	70.4	47.7	22.7	61.8	54.5	59	34.2	Trace	8.7	16.6
19	68.4	46.0	22.4	62.6	54.3	55	33.0	Trace	9.4	16.6
20	72.2	47.1	25.1	64.2	57.5	65	34.2	0.00	6.7	16.6
21	73.5	45.9	27.6	68.3	57.8	50	31.6	0.42	10.8	16.6
22	70.8	58.8	12.0	60.9	58.7	87	56.5	Trace	3.0	16.6
23	65.3	55.5	9.8	56.6	55.0	90	54.4	0.00	0.0	16.6
24	70.5	55.7	14.8	63.7	56.9	64	53.3	0.05	2.7	16.6
25	71.6	47.5	24.1	63.8	56.1	59	38.1	0.14	10.0	16.6
26	59.5	49.2	10.3	53.9	50.6	78	42.6	0.10	0.5	16.6
27	67.4	53.0	14.4	59.1	53.2	65	51.3	0.00	0.9	16.6
28	65.5	55.6	9.9	57.3	54.1	80	53.5	Trace	0.0	16.6
29	68.6	51.4	17.2	62.4	58.4	77	41.4	0.00	6.9	16.6
30	72.1	45.5	26.6	60.3	53.4	61	34.8	0.00	12.5	16.6
Means	69.5	49.9	19.6	60.8	54.7	65.9	42.3	Sum 1.25	7.9	16.5

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
June 1	4.7	1.00	4.7	1.00	13.6	16.2	5.0	1.00	5.0	1.00
2	4.2	0.93	4.1	0.90	13.9	16.2	4.3	0.90	3.9	0.81
3	4.5	1.00	4.5	1.00	13.8	16.2	4.7	1.00	4.7	1.00
4	4.5	1.00	4.5	1.00	9.8	16.3	4.7	1.00	4.7	1.00
5	4.5	1.00	4.5	1.00	14.2	16.3	4.7	1.00	4.7	1.00
6	4.5	1.00	1.7	0.39	13.8	16.3	4.7	1.00	4.4	0.92
7	3.7	0.82	3.6	0.80	6.3	16.4	4.7	1.00	4.7	1.00
8	4.5	1.00	4.5	1.00	14.9	16.4	4.7	1.00	4.7	1.00
9	3.6	0.80	3.5	0.77	9.9	16.4	1.4	0.32	1.2	0.27
10	1.5	0.33	1.4	0.32	12.7	16.4	3.9	0.86	3.9	0.86
11	0.2	0.05	0.2	0.05	12.4	16.4	0.5	0.11	0.3	0.06
12	0.0	0.00	0.0	0.00	5.5	16.5	0.0	0.00	0.0	0.00
13	2.6	0.58	2.4	0.53	6.2	16.5	4.5	1.00	4.5	1.00
14	0.0	0.00	0.0	0.00	10.8	16.5	0.0	0.00	0.0	0.00
15	4.1	0.91	4.0	0.89	10.9	16.5	4.3	0.96	4.2	0.94
16	4.4	0.98	4.3	0.96	12.5	16.5	2.0	0.45	1.8	0.40
17	4.5	1.00	4.2	0.93	12.2	16.5	4.5	1.00	4.4	0.97
18	4.5	1.00	4.5	1.00	11.2	16.5	4.5	1.00	4.5	1.00
19	4.5	1.00	4.5	1.00	15.0	16.5	4.5	1.00	4.5	1.00
20	4.5	1.00	4.5	1.00	14.8	16.5	4.5	1.00	4.5	1.00
21	0.0	0.00	0.0	0.00	12.9	16.5	0.0	0.00	0.0	0.00
22	0.0	0.00	0.0	0.00	6.8	16.6	0.0	0.00	0.0	0.00
23	0.0	0.00	0.0	0.00	0.0	16.5	0.0	0.00	0.0	0.00
24	3.7	0.83	2.8	0.61	1.1	16.5	1.6	0.35	1.0	0.22
25	0.1	0.01	0.0	0.00	9.4	16.5	1.9	0.43	1.7	0.37
26	0.0	0.00	0.0	0.00	3.4	16.5	0.0	0.00	0.0	0.00
27	0.0	0.00	0.0	0.00	4.4	16.5	3.1	0.69	2.5	0.54
28	1.3	0.28	0.8	0.18	0.3	16.5	0.7	0.16	0.6	0.13
29	4.5	1.00	4.5	1.00	6.6	16.5	4.5	1.00	4.5	1.00
30	4.7	1.00	4.0	0.85	14.4	16.5	4.5	1.00	4.5	1.00
Means	2.8	0.62	2.6	0.57	9.8	16.4	2.9	0.64	2.8	0.62

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH									
	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
July 1	80.7	50.5	30.2	67.0	60.5	67	42.1	0.00	10.3	16.6
2	81.9	56.1	25.8	70.6	61.7	58	44.5	0.00	10.6	16.6
3	81.4	61.2	20.2	71.6	62.3	57	49.0	0.01	11.9	16.5
4	67.5	57.8	9.7	64.2	59.9	77	49.0	0.00	3.3	16.5
5	69.0	51.2	17.8	61.2	52.7	53	40.1	0.02	3.5	16.5
6	75.4	55.7	19.7	68.5	62.2	69	50.8	0.00	8.6	16.5
7	74.9	56.3	18.6	66.1	59.7	67	43.5	0.00	5.4	16.5
8	76.0	55.6	20.4	68.4	61.9	68	42.2	0.00	5.0	16.4
9	74.4	54.3	20.1	67.0	57.3	52	44.0	0.13	5.9	16.4
10	76.3	59.3	17.0	66.8	61.6	73	56.6	0.00	5.2	16.4
11	72.5	59.1	13.4	66.0	60.7	73	51.6	0.03	7.2	16.3
12	70.9	54.8	16.1	63.1	56.0	62	47.8	0.44	5.7	16.3
13	70.3	50.3	20.0	60.3	56.5	78	41.4	0.00	7.0	16.3
14	67.8	47.5	20.3	60.3	55.1	70	37.1	0.00	1.7	16.3
15	69.0	52.9	16.1	60.8	56.8	77	42.7	0.00	3.4	16.2
16	73.2	52.4	20.8	65.4	56.9	56	38.6	0.00	8.1	16.2
17	81.3	52.9	28.4	70.3	61.4	58	40.6	0.00	11.7	16.1
18	72.8	59.8	13.0	69.2	63.0	70	49.2	Trace	1.6	16.1
19	81.7	60.2	21.5	67.9	63.2	76	52.2	0.00	7.7	16.1
20	78.3	59.4	18.9	71.2	63.7	64	45.2	0.00	7.4	16.0
21	75.2	55.0	20.2	68.6	61.6	65	41.3	Trace	12.7	16.0
22	78.8	54.4	24.4	68.0	60.6	63	39.2	0.70	3.8	16.0
23	59.9	58.2	1.7	59.2	57.7	91	47.1	0.03	0.0	15.9
24	65.3	53.0	12.3	57.8	52.4	68	44.2	0.00	1.6	15.9
25	74.6	50.0	24.6	61.3	55.2	66	38.4	0.00	6.3	15.8
26	78.0	55.2	22.8	65.0	59.7	72	47.6	Trace	4.8	15.8
27	75.7	60.2	15.5	67.4	60.4	65	56.1	0.00	1.6	15.7
28	84.4	56.9	27.5	71.3	62.3	58	46.2	0.00	14.1	15.7
29	70.6	59.4	11.2	63.6	57.4	67	50.6	0.00	1.5	15.6
30	74.8	52.8	22.0	65.2	59.4	70	41.7	0.14	10.8	15.6
31	72.7	62.9	9.8	69.4	66.4	85	56.6	0.01	0.5	15.5
Means	74.4	55.7	18.7	65.9	59.6	67.6	45.7	Sum 1.51	6.1	16.1

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
July 1	4.7	1.00	4.7	1.00	12.7	16.5	3.4	0.76	3.2	0.71
2	1.9	0.40	1.7	0.35	14.2	16.5	4.5	1.00	4.5	1.00
3	4.7	1.00	4.6	0.99	14.7	16.4	4.5	1.00	4.5	1.00
4	2.5	0.53	2.3	0.48	5.6	16.4	2.0	0.45	1.3	0.30
5	0.0	0.00	0.0	0.00	9.0	16.4	0.0	0.00	0.0	0.00
6	4.7	0.99	4.7	0.99	9.0	16.4	3.7	0.83	3.5	0.78
7	..	..	..	..	12.1	16.3	4.3	0.91	3.1	0.66
8	2.9	0.59	2.1	0.42	8.8	16.3	1.9	0.40	1.2	0.25
9	0.0	0.00	0.0	0.00	3.7	16.3	0.0	0.00	0.0	0.00
10	1.5	0.30	1.4	0.27	0.9	16.3	1.8	0.38	1.7	0.36
11	..	..	..	..	4.3	16.2	2.5	0.52	1.8	0.38
12	1.3	0.27	1.0	0.20	7.1	16.2	1.9	0.39	1.9	0.39
13	5.0	1.00	5.0	1.00	13.5	16.2	4.5	0.94	4.3	0.90
14	3.2	0.62	2.9	0.55	4.7	16.1	1.6	0.31	1.2	0.24
15	3.7	0.70	3.3	0.63	6.5	16.1	1.5	0.30	1.1	0.21
16	5.3	1.00	5.3	1.00	13.3	16.1	5.0	1.00	5.0	1.00
17	4.9	0.93	4.6	0.88	12.7	16.0	5.0	1.00	5.0	1.00
18	0.9	0.17	0.7	0.13	5.0	16.0	2.3	0.46	1.7	0.33
19	5.3	1.00	5.2	0.98	5.3	16.0	5.0	1.00	5.0	1.00
20	3.4	0.65	3.3	0.63	10.6	15.9	5.0	1.00	5.0	1.00
21	4.9	0.86	4.8	0.84	13.8	15.9	5.0	0.91	4.0	0.73
22	0.8	0.15	0.7	0.12	5.4	15.9	0.3	0.05	0.1	0.02
23	0.0	0.00	0.0	0.00	1.0	15.8	0.0	0.00	0.0	0.00
24	..	..	..	..	5.9	15.8	2.8	0.52	2.2	0.39
25	3.5	0.61	2.5	0.42	10.8	15.7	4.8	0.88	4.2	0.76
26	0.1	0.01	0.0	0.00	5.7	15.7	0.0	0.00	0.0	0.00
27	3.6	0.62	3.4	0.60	5.3	15.6	4.4	0.81	3.1	0.57
28	4.4	0.71	2.2	0.36	14.1	15.6	4.3	0.75	3.7	0.65
29	5.5	0.89	5.3	0.84	0.0	15.5	2.0	0.35	1.1	0.19
30	..	..	..	..	11.7	15.5	3.6	0.62	3.1	0.54
31	0.4	0.06	0.2	0.04	1.4	15.4	0.0	0.00	0.0	0.00
Means	2.9	0.56	2.7	0.51	8.0	16.0	2.8	0.56	2.5	0.49

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
Aug. 1	77.4	61.3	16.1	65.0	60.0	73	55.2	0.00	3.8	15.5
2	79.0	54.4	24.6	69.4	61.3	61	41.6	0.00	13.6	15.4
3	79.3	56.7	22.6	68.4	61.3	65	46.3	Trace	13.0	15.4
4	68.8	56.3	12.5	65.4	61.3	78	44.6	0.01	0.4	15.3
5	71.1	54.0	17.1	66.7	60.1	66	43.9	0.01	5.0	15.3
6	68.7	59.3	9.4	63.3	61.0	87	55.3	0.72	0.2	15.2
7	72.3	56.4	15.9	60.4	58.7	90	51.8	0.01	4.4	15.1
8	71.3	52.3	19.0	65.0	56.9	58	45.2	0.00	4.0	15.1
9	67.7	54.4	13.3	58.1	54.9	80	46.0	0.33	1.6	15.0
10	71.4	53.4	18.0	60.2	57.5	84	45.2	Trace	3.7	15.0
11	62.3	51.4	10.9	60.0	56.7	81	43.8	0.47	0.0	14.9
12	66.4	57.0	9.4	59.0	55.3	78	56.1	0.01	6.0	14.9
13	66.7	49.0	17.7	61.0	54.3	62	41.0	Trace	7.4	14.8
14	64.6	50.3	14.3	57.4	54.3	81	41.7	0.00	0.8	14.7
15	68.3	53.3	15.0	61.0	52.3	52	46.2	0.00	5.8	14.7
16	70.8	52.3	18.5	63.3	54.1	51	42.6	Trace	7.5	14.6
17	68.5	51.7	16.8	61.7	58.0	79	42.5	0.03	2.0	14.6
18	72.3	51.3	21.0	63.7	56.7	63	40.7	0.16	10.8	14.5
19	74.4	58.2	16.2	66.2	60.9	73	52.7	0.19	6.4	14.4
20	73.5	51.3	22.2	62.8	57.5	71	43.2	Trace	9.9	14.4
21	71.8	49.8	22.0	64.2	58.1	68	39.6	0.02	6.8	14.3
22	71.9	58.9	13.0	62.3	60.6	91	57.1	0.01	2.7	14.3
23	73.0	50.6	22.4	62.6	56.1	65	40.5	Trace	6.4	14.2
24	69.6	52.3	17.3	64.0	59.8	77	43.5	0.01	0.8	14.1
25	64.7	50.2	14.5	57.8	53.4	73	41.1	0.27	0.3	14.1
26	65.8	53.6	12.2	58.1	54.7	79	48.8	0.20	6.1	14.0
27	65.6	50.8	14.8	58.9	54.3	72	45.0	0.07	5.8	14.0
28	70.2	55.8	14.4	65.6	62.1	81	54.2	0.08	0.1	13.9
29	70.2	60.6	9.6	64.0	58.1	69	56.2	Trace	9.4	13.8
30	63.9	55.8	8.1	61.9	58.5	81	49.2	0.37	2.3	13.8
31	65.7	52.7	13.0	59.4	56.9	85	48.0	0.19	2.9	13.7
Means	69.9	54.0	15.9	62.5	57.6	73.4	46.7	Sum 3.16	4.8	14.6

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
Aug. 1	5.9	0.94	5.6	0.90	2.6	15.4	5.5	0.96	5.3	0.93
2	6.3	1.00	6.3	1.00	14.3	15.3	5.6	0.98	5.6	0.98
3	..	..	..	..	14.2	15.3	5.7	1.00	5.7	1.00
4	2.8	0.41	2.6	0.38	2.7	15.2	5.3	0.84	5.0	0.80
5	0.1	0.02	0.1	0.02	3.7	15.2	0.0	0.00	0.0	0.00
6	1.0	0.15	0.6	0.09	0.1	15.1	..	..	..	..
7	4.9	0.73	4.3	0.63	9.0	15.1	2.9	0.46	1.8	0.29
8	5.9	0.87	5.3	0.79	6.4	15.0	1.1	0.17	0.9	0.15
9	3.3	0.49	3.1	0.46	6.1	15.0	0.7	0.11	0.5	0.07
10	5.0	0.74	4.9	0.72	6.5	14.9	5.8	0.93	5.4	0.86
11	0.0	0.00	0.0	0.00	0.0	14.9	0.0	0.00	0.0	0.00
12	6.2	0.86	6.1	0.85	7.5	14.8	6.7	1.00	6.7	1.00
13	4.5	0.62	4.2	0.58	7.5	14.8	6.5	0.97	6.5	0.97
14	1.5	0.20	1.0	0.14	4.6	14.7	0.0	0.00	0.0	0.00
15	0.3	0.05	0.0	0.00	4.6	14.6	4.3	0.64	2.2	0.32
16	4.5	0.62	2.3	0.31	6.3	14.6	6.1	0.90	3.9	0.57
17	5.6	0.77	5.1	0.70	0.8	14.5	6.7	1.00	6.7	0.99
18	..	..	..	..	11.2	14.5	3.1	0.43	2.4	0.33
19	5.0	0.64	4.9	0.63	4.3	14.4	6.2	0.86	6.1	0.84
20	7.7	1.00	7.7	1.00	12.1	14.3	7.2	0.99	7.2	0.99
21	0.0	0.00	0.0	0.00	8.7	14.3	0.0	0.00	0.0	0.00
22	..	..	..	..	2.4	14.2	6.5	0.89	5.6	0.77
23	5.1	0.66	3.9	0.51	8.0	14.1	6.0	0.83	5.5	0.75
24	5.1	0.66	4.7	0.60	0.6	14.1	5.3	0.73	4.3	0.60
25	0.0	0.00	0.0	0.00	1.8	14.0	1.5	0.19	1.0	0.13
26	1.4	0.17	0.4	0.05	5.6	14.0	0.8	0.10	0.6	0.07
27	0.0	0.00	0.0	0.00	4.3	13.9	0.0	0.00	0.0	0.00
28	0.3	0.03	0.2	0.03	0.0	13.9	0.4	0.05	0.3	0.04
29	6.9	0.82	6.5	0.77	9.8	13.8	7.1	0.89	6.5	0.82
30	6.9	0.82	6.5	0.77	2.9	13.7	6.2	0.78	5.2	0.65
31	8.5	1.00	8.5	1.00	6.7	13.7	6.9	0.86	6.3	0.79
Means	3.7	0.51	3.4	0.46	5.7	14.6	4.0	0.59	3.6	0.52

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH									
	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
Sept.1	65.8	48.9	16.9	60.7	56.1	73	41.4	0.62	4.3	13.6
2	65.6	48.8	16.8	56.2	54.0	86	43.2	Trace	2.9	13.6
3	72.4	47.7	24.7	60.0	54.4	68	39.6	0.21	8.2	13.5
4	76.2	57.2	19.0	66.9	65.1	90	56.1	0.00	6.2	13.5
5	72.7	63.0	9.7	68.2	64.0	79	59.9	0.00	0.1	13.4
6	74.3	62.6	11.7	68.2	64.9	83	56.9	0.25	0.1	13.3
7	68.7	59.2	9.5	61.4	60.3	93	59.5	Trace	0.1	13.3
8	68.0	58.2	9.8	60.7	57.5	81	56.2	Trace	4.6	13.2
9	63.6	54.7	8.9	58.8	57.0	89	50.0	0.00	0.0	13.1
10	70.8	56.8	14.0	59.8	58.5	92	56.7	0.00	0.0	13.0
11	76.7	59.0	17.7	67.8	64.4	82	53.6	Trace	4.8	13.0
12	76.9	62.8	14.1	66.7	64.7	89	60.1	0.00	3.1	12.9
13	70.8	57.7	13.1	67.9	64.3	81	52.0	0.22	2.6	12.9
14	68.7	52.3	16.4	61.4	55.5	67	45.6	0.02	10.5	12.8
15	64.8	57.3	7.5	57.8	56.1	89	51.6	0.06	0.0	12.7
16	64.6	47.7	16.9	57.7	54.2	78	40.8	0.10	4.2	12.7
17	62.0	49.3	12.7	54.2	50.3	75	44.1	0.00	4.9	12.6
18	58.2	47.7	10.5	55.6	50.7	69	39.7	0.00	1.2	12.5
19	61.2	53.0	8.2	57.0	52.0	69	50.9	0.00	1.0	12.5
20	61.1	44.9	16.2	54.3	49.4	69	34.4	0.00	1.3	12.4
21	61.8	46.6	15.2	57.1	50.5	60	37.6	0.00	7.5	12.3
22	66.7	43.8	22.9	58.2	54.0	75	31.1	0.04	6.4	12.3
23	66.0	55.2	10.8	62.0	61.0	94	49.1	0.01	1.0	12.2
24	67.4	51.3	16.1	60.0	55.1	71	44.6	0.00	5.4	12.2
25	68.6	57.8	10.8	63.0	58.7	76	53.0	0.17	3.8	12.1
26	63.8	53.7	10.1	58.8	55.9	83	49.0	Trace	4.2	12.0
27	64.6	51.7	12.9	60.5	58.3	87	44.0	1.34	0.1	11.9
28	64.7	50.7	14.0	54.5	53.2	91	42.5	Trace	6.7	11.9
29	67.4	43.2	24.2	49.2	48.5	95	34.6	Trace	6.0	11.8
30	65.5	44.0	21.5	52.2	51.9	98	36.8	0.00	2.5	11.8
Means	67.3	52.9	14.4	59.9	56.7	81.1	47.2	Sum 3.04	3.5	12.7

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
Sept.1	3.0	0.34	0.5	0.05	4.0	13.6	4.0	0.47	3.2	0.37
2	6.8	0.78	6.7	0.77	1.4	13.6	7.0	0.83	6.8	0.80
3	0.0	0.00	0.0	0.00	8.8	13.5	0.0	0.00	0.0	0.00
4	0.5	0.06	0.2	0.03	0.0	13.4	0.0	0.00	0.0	0.00
5	0.0	0.00	0.0	0.00	1.9	13.3	5.7	0.67	5.0	0.59
6	0.5	0.06	0.3	0.03	10.6	13.3	5.2	0.61	3.9	0.45
7	0.0	0.00	0.0	0.00	3.9	13.2	0.0	0.00	0.0	0.00
8	3.6	0.39	3.4	0.37	1.0	13.2	2.7	0.30	2.5	0.28
9	0.0	0.00	0.0	0.00	0.3	13.1	0.5	0.06	0.3	0.03
10	1.4	0.15	0.0	0.00	0.0	13.0	1.6	0.19	0.0	0.00
11	0.0	0.00	0.0	0.00	1.8	13.0	2.1	0.24	0.9	0.10
12	6.2	0.67	4.6	0.50	1.7	12.9	2.5	0.29	1.9	0.21
13	9.1	0.98	9.1	0.98	1.6	12.9	8.1	0.93	7.9	0.90
14	4.3	0.47	3.4	0.37	9.6	12.8	7.5	0.85	6.3	0.72
15	9.7	0.99	9.7	0.99	0.0	12.7	8.7	0.94	8.7	0.94
16	2.8	0.29	1.6	0.16	6.0	12.6	3.0	0.32	2.9	0.31
17	6.6	0.67	5.9	0.61	9.4	12.6	8.9	0.97	8.7	0.95
18	0.0	0.00	0.0	0.00	1.6	12.5	1.1	0.12	0.7	0.08
19	8.0	0.82	7.3	0.75	4.9	12.5	8.1	0.88	7.5	0.81
20	3.1	0.31	2.9	0.30	4.8	12.4	7.9	0.86	7.8	0.85
21	9.7	1.00	9.7	1.00	5.5	12.3	9.3	1.00	9.3	1.00
22	0.3	0.03	0.0	0.00	7.7	12.3	2.2	0.22	1.2	0.12
23	8.7	0.85	8.6	0.84	0.6	12.2	7.6	0.78	6.6	0.67
24	3.6	0.35	2.6	0.25	4.0	12.1	8.7	0.89	8.0	0.82
25	0.0	0.00	0.0	0.00	5.2	12.1	0.0	0.00	0.0	0.00
26	9.1	0.89	7.5	0.73	6.3	12.0	5.4	0.55	4.3	0.44
27	1.6	0.16	0.6	0.06	0.2	12.0	2.1	0.22	1.5	0.16
28	10.3	1.00	10.3	1.00	7.9	11.9	9.7	1.00	9.7	1.00
29	8.8	0.82	8.7	0.81	9.9	11.8	10.3	1.00	10.3	1.00
30	1.3	0.12	0.8	0.08	8.4	11.8	8.3	0.81	6.9	0.67
Means	4.0	0.41	3.5	0.36	4.3	12.7	4.9	0.53	4.4	0.48

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH									
	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
Oct. 1	60.3	51.8	8.5	57.2	54.9	85	50.7	0.02	0.0	11.7
2	60.8	56.7	4.1	58.1	56.2	89	56.1	0.00	0.0	11.6
3	60.0	57.0	3.0	58.2	55.4	83	55.0	Trace	0.0	11.6
4	56.8	48.9	7.9	49.4	48.3	92	39.4	0.00	0.2	11.5
5	57.4	49.1	8.3	53.7	50.8	80	45.2	Trace	0.1	11.4
6	63.2	52.7	10.5	56.2	54.1	87	45.4	0.00	5.5	11.4
7	59.5	42.2	17.3	51.4	50.9	97	33.0	Trace	6.0	11.3
8	65.8	44.2	21.6	48.5	48.3	98	32.7	Trace	6.1	11.3
9	61.5	39.7	21.8	50.6	48.9	88	27.9	Trace	9.3	11.2
10	62.4	41.9	20.5	50.6	48.2	83	27.7	Trace	9.2	11.1
11	62.0	36.7	25.3	45.3	44.3	92	26.6	Trace	5.6	11.0
12	57.5	40.8	16.7	47.0	42.9	69	28.7	0.01	8.9	11.0
13	65.4	47.0	18.4	53.4	52.5	94	43.6	0.01	0.0	10.9
14	61.7	53.1	8.6	56.6	55.9	95	51.0	Trace	0.1	10.9
15	61.0	49.3	11.7	50.8	50.5	98	40.5	Trace	0.9	10.8
16	52.6	44.8	7.8	45.0	44.7	97	39.1	0.04	0.0	10.7
17	58.0	42.2	15.8	50.2	49.8	97	31.1	Trace	0.3	10.7
18	57.6	41.8	15.8	49.0	46.6	83	32.4	0.03	1.9	10.6
19	54.8	44.8	10.0	50.1	47.9	84	33.3	0.00	1.9	10.5
20	60.6	38.9	21.7	52.0	48.4	75	28.6	0.12	2.3	10.5
21	56.3	46.7	9.6	48.1	45.1	77	41.2	0.01	6.3	10.4
22	44.7	34.8	9.9	39.0	38.0	91	28.1	0.02	0.0	10.3
23	47.2	34.2	13.0	38.6	35.3	69	28.1	Trace	7.6	10.3
24	51.5	28.4	23.1	33.6	32.4	87	20.0	Trace	5.9	10.2
25	52.7	27.8	24.9	33.0	31.9	88	20.4	0.00	5.0	10.1
26	53.1	32.9	20.2	50.0	47.8	84	27.9	0.00	0.0	10.1
27	56.6	45.2	11.4	48.4	41.9	53	44.8	0.00	4.2	10.0
28	61.7	48.3	13.4	52.8	51.3	90	41.2	0.13	5.8	10.0
29	55.4	49.0	6.4	52.4	51.6	94	42.1	0.17	0.7	9.9
30	54.7	44.4	10.3	50.2	49.3	93	34.8	0.15	0.2	9.8
31	48.3	42.2	6.1	46.6	46.0	95	30.6	0.20	0.0	9.8
Means	57.5	43.8	13.7	49.2	47.4	86.7	36.4	Sum 0.91	3.0	10.7

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
Oct. 1	0.0	0.00	0.0	0.00	4.8	11.7	0.0	0.00	0.0	0.00
2	0.0	0.00	0.0	0.00	0.7	11.7	1.9	0.18	1.7	0.16
3	3.9	0.36	2.9	0.27	0.0	11.6	0.7	0.07	0.3	0.03
4	0.9	0.09	0.2	0.02	4.8	11.5	..	..	..	..
5	1.6	0.15	1.2	0.11	4.4	11.4	10.0	0.98	9.0	0.88
6	8.9	0.81	8.7	0.79	9.0	11.4	10.5	1.00	10.5	1.00
7	6.0	0.55	6.0	0.55	9.7	11.3	10.5	1.00	10.5	1.00
8	10.0	0.91	9.7	0.88	9.4	11.3	10.5	1.00	10.5	1.00
9	11.0	1.00	11.0	1.00	9.8	11.2	10.5	1.00	10.5	1.00
10	10.3	0.94	6.3	0.57	9.8	11.1	10.5	1.00	10.5	1.00
11	11.0	1.00	11.0	1.00	8.9	11.0	10.3	0.98	8.0	0.76
12	7.2	0.66	5.9	0.54	9.3	11.0	7.0	0.67	5.7	0.54
13	0.1	0.01	0.0	0.00	0.0	10.9	0.0	0.00	0.0	0.00
14	3.8	0.33	2.0	0.17	0.6	10.9	6.0	0.54	5.3	0.49
15	2.9	0.25	2.2	0.19	7.9	10.8	4.2	0.38	3.9	0.36
16	1.0	0.09	0.4	0.03	8.1	10.8	5.0	0.46	4.9	0.45
17	7.7	0.67	6.7	0.58	0.0	10.7	7.1	0.65	6.7	0.61
18	2.7	0.23	1.5	0.13	0.2	10.6	2.4	0.22	1.5	0.14
19	..	..	..	..	0.8	10.6	7.8	0.71	6.3	0.57
20	4.1	0.34	3.4	0.28	1.2	10.5	1.1	0.09	0.7	0.06
21	11.8	0.98	11.8	0.98	5.8	10.4	10.7	0.93	10.7	0.93
22	12.0	1.00	12.0	1.00	1.9	10.4	10.8	0.94	10.8	0.94
23	12.0	1.00	12.0	1.00	9.2	10.3	11.5	1.00	11.5	1.00
24	11.4	0.95	7.3	0.61	6.5	10.3	9.6	0.84	9.5	0.82
25	6.7	0.56	6.6	0.55	9.2	10.2	7.1	0.61	6.3	0.55
26	0.0	0.00	0.0	0.00	0.0	10.1	0.0	0.00	0.0	0.00
27	2.0	0.16	1.3	0.10	1.5	10.1	1.8	0.15	0.5	0.04
28	2.6	0.21	1.8	0.14	1.8	10.0	0.9	0.07	0.4	0.03
29	4.7	0.38	3.7	0.29	0.7	10.0	6.9	0.59	6.8	0.58
30	4.3	0.34	3.0	0.24	3.9	9.9	8.0	0.68	7.5	0.64
31	3.5	0.28	3.1	0.25	1.0	9.8	7.9	0.67	7.1	0.60
Means	5.5	0.47	4.7	0.41	4.5	10.8	6.4	0.58	5.9	0.54

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
Nov. 1	53.4	44.8	8.6	47.9	45.4	81	38.1	0.02	3.1	9.7
2	55.6	41.0	14.6	52.9	52.0	94	28.6	0.18	1.1	9.7
3	51.3	35.2	16.1	40.0	38.4	86	28.4	Trace	6.9	9.6
4	52.4	36.4	16.0	49.0	47.7	90	27.3	0.15	0.0	9.5
5	54.8	48.8	6.0	52.4	50.0	83	47.0	0.39	0.0	9.5
6	59.6	51.6	8.0	52.9	51.1	87	48.7	0.18	5.0	9.4
7	59.4	48.7	10.7	51.2	50.8	97	37.6	0.16	1.4	9.4
8	53.8	48.4	5.4	52.6	51.9	95	37.2	0.14	0.0	9.3
9	55.2	45.3	9.9	50.7	49.8	93	32.8	0.11	0.7	9.3
10	53.7	45.4	8.3	50.4	49.4	93	35.7	0.43	2.7	9.2
11	56.9	46.6	10.3	50.6	49.2	90	39.8	0.00	5.3	9.2
12	56.7	47.6	9.1	50.4	49.3	92	37.3	0.01	0.1	9.1
13	52.1	47.2	4.9	49.5	48.4	92	38.0	Trace	0.2	9.0
14	53.8	44.8	9.0	46.2	45.0	91	41.5	0.04	3.3	9.0
15	58.2	39.8	18.4	53.8	52.8	93	28.7	0.02	2.2	8.9
16	56.4	47.1	9.3	53.2	51.0	85	38.0	0.53	0.0	8.9
17	54.6	50.2	4.4	53.4	51.1	84	47.0	0.65	0.1	8.8
18	53.0	47.4	5.6	52.2	51.0	91	44.8	0.38	0.0	8.8
19	52.8	42.8	10.0	48.8	47.7	92	35.8	0.09	1.7	8.7
20	54.3	45.2	9.1	48.8	46.7	84	37.2	0.13	4.4	8.7
21	50.6	44.2	6.4	46.9	43.7	75	38.6	0.01	4.3	8.6
22	49.1	41.0	8.1	46.0	41.9	68	34.4	0.15	1.3	8.6
23	57.0	40.9	16.1	44.5	43.9	95	33.8	0.09	0.0	8.5
24	58.1	44.2	13.9	57.0	54.5	84	44.4	0.51	0.0	8.5
25	48.4	46.1	2.3	46.2	43.6	80	39.3	Trace	3.2	8.4
26	45.5	31.2	14.3	33.7	32.2	84	21.7	Trace	1.2	8.4
27	48.9	33.4	15.5	45.5	41.5	69	26.2	Trace	0.0	8.4
28	48.6	43.3	5.3	44.3	40.9	71	37.3	0.02	0.0	8.3
29	50.8	34.8	16.0	40.6	37.5	72	27.2	0.01	0.4	8.3
30	53.1	39.8	13.3	44.3	42.9	88	36.6	0.01	5.9	8.3
Means	53.6	43.4	10.2	48.5	46.7	86.0	36.3	Sum 4.41	1.8	8.9

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
Nov. 1	5.8	0.47	5.5	0.44	6.1	9.8	6.7	0.57	5.6	0.48
2	12.4	0.99	12.4	0.99	1.4	9.7	11.3	0.96	10.8	0.92
3	7.1	0.57	5.7	0.46	8.1	9.7	4.2	0.36	4.1	0.35
4	0.1	0.01	0.0	0.00	0.0	9.6	0.2	0.02	0.0	0.00
5	0.0	0.00	0.0	0.00	0.0	9.5	0.0	0.00	0.0	0.00
6	6.4	0.51	5.5	0.44	3.9	9.5	5.9	0.50	3.9	0.33
7	1.9	0.15	1.5	0.12	5.2	9.4	0.0	0.00	0.0	0.00
8	10.6	0.85	9.9	0.79	0.0	9.3	7.0	0.60	5.9	0.50
9	4.0	0.32	3.9	0.31	0.1	9.3	5.3	0.46	4.5	0.38
10	2.3	0.18	1.1	0.09	0.6	9.2	3.9	0.33	3.6	0.30
11	2.6	0.20	0.9	0.07	5.2	9.2	2.3	0.19	2.3	0.19
12	0.7	0.05	0.3	0.02	0.4	9.1	7.0	0.58	5.6	0.47
13	1.6	0.12	0.8	0.06	0.2	9.1	5.9	0.49	1.5	0.12
14	5.0	0.38	3.7	0.28	6.0	9.1	3.6	0.30	3.5	0.30
15	9.7	0.75	9.7	0.69	1.3	9.0	5.7	0.47	1.6	0.14
16	5.0	0.39	4.4	0.34	0.1	9.0	3.4	0.28	2.1	0.17
17	3.0	0.22	0.0	0.00	0.2	8.9	3.9	0.32	3.5	0.29
18	6.2	0.46	5.0	0.37	0.0	8.9	8.1	0.66	7.5	0.61
19	11.1	0.82	5.0	0.37	2.6	8.8	7.7	0.63	7.0	0.57
20	4.9	0.36	3.8	0.28	4.2	8.8	4.5	0.37	3.7	0.30
21	11.1	0.82	10.3	0.76	4.9	8.7	11.3	0.93	11.0	0.90
22	0.0	0.00	0.0	0.00	3.5	8.7	0.0	0.00	0.0	0.00
23	0.0	0.00	0.0	0.00	0.0	8.6	0.0	0.00	0.0	0.00
24	2.0	0.15	1.4	0.10	0.0	8.6	0.7	0.05	0.7	0.05
25	10.5	0.78	9.7	0.72	5.5	8.6	11.9	0.88	11.0	0.82
26	13.5	1.00	13.5	1.00	7.3	8.5	13.4	0.99	13.3	0.99
27	1.1	0.08	0.4	0.03	0.1	8.5	0.4	0.03	0.1	0.01
28	10.5	0.78	10.5	0.78	0.1	8.4	10.9	0.81	9.4	0.70
29	7.0	0.52	6.0	0.44	0.0	8.4	5.1	0.38	4.7	0.35
30	4.0	0.30	3.4	0.25	5.7	8.4	2.3	0.17	2.2	0.16
Means	5.3	0.41	4.5	0.34	2.4	9.0	5.1	0.41	4.3	0.35

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

AT THE ROYAL OBSERVATORY, GREENWICH

Month and Day 1951	Eye Readings made at 09 00 hours of the Temperature of the Air					Degree of Humidity (Saturation = 100)	Lowest Temperature on the Grass	Rainfall (Thrown back)	Daily Duration of Sunshine	Sun above Horizon
	Highest (Thrown back)	Lowest	Daily Range	Dry Bulb	Wet Bulb					
	°	°	°	°	°		°	inches	hours	hours
Dec. 1	47.3	43.7	3.6	46.7	45.3	89	38.3	Trace	2.6	8.2
2	42.4	33.4	9.0	35.4	34.7	93	23.2	Trace	0.4	8.2
3	50.0	31.8	18.2	34.7	33.8	91	24.6	0.25	1.2	8.2
4	51.5	33.7	17.8	50.0	47.9	85	30.2	0.00	0.0	8.1
5	52.4	48.8	3.6	51.3	45.9	64	42.7	0.23	0.0	8.1
6	43.7	40.9	2.8	41.7	40.5	90	39.3	0.01	1.3	8.1
7	49.5	33.0	16.5	35.2	34.5	93	23.3	0.05	0.6	8.0
8	51.9	35.2	16.7	49.2	47.9	90	27.2	0.39	0.0	8.0
9	45.4	41.8	3.6	42.2	38.7	70	35.5	Trace	5.3	8.0
10	41.6	36.0	5.6	36.7	32.8	62	29.4	Trace	3.1	8.0
11	39.3	23.8	15.5	25.0	25.0	100	15.3	Trace	2.5	7.9
12	38.6	24.3	14.3	28.0	27.6	95	15.6	Trace	1.9	7.9
13	43.0	26.2	16.8	29.7	29.4	96	14.2	Trace	2.2	7.9
14	51.0	29.1	21.9	37.4	37.4	100	24.2	Trace	0.3	7.9
15	53.3	37.4	15.9	51.0	49.5	89	31.6	Trace	0.2	7.9
16	53.4	48.2	5.2	51.2	49.5	88	42.7	0.00	0.0	7.8
17	48.0	46.0	2.0	46.0	44.9	91	43.7	Trace	1.4	7.8
18	52.0	44.9	7.1	48.0	46.5	89	29.0	0.04	0.0	7.8
19	51.7	47.8	3.9	51.6	50.4	91	44.4	0.00	0.0	7.8
20	53.0	44.6	8.4	50.3	49.1	91	37.4	0.14	0.0	7.8
21	48.5	45.7	2.8	46.8	46.4	97	41.0	0.01	0.0	7.8
22	48.0	44.2	3.8	46.5	45.2	90	32.0	0.00	0.0	7.8
23	50.5	42.3	8.2	42.1	41.7	97	33.8	0.04	0.0	7.8
24	52.3	41.9	10.4	50.5	48.7	87	34.0	0.20	0.0	7.8
25	47.8	42.0	5.8	42.1	41.2	92	33.2	0.02	0.7	7.8
26	45.7	33.2	12.5	34.5	33.9	94	24.6	0.27	1.9	7.8
27	45.7	33.8	11.9	45.1	42.1	76	24.7	0.00	0.3	7.9
28	44.8	40.2	4.6	42.8	38.3	63	33.6	0.37	3.1	7.9
29	45.3	37.9	7.4	38.8	38.0	92	35.1	0.05	0.0	7.9
30	52.4	33.0	19.4	45.3	43.9	89	25.0	0.01	1.1	7.9
31	40.6	37.8	2.8	38.6	36.5	80	32.0	0.02	0.0	7.9
Means	47.8	38.1	9.6	42.4	40.9	87.5	31.0	Sum 2.10	1.0	7.9

TABLE XVII. - DAILY RESULTS OF THE METEOROLOGICAL OBSERVATIONS

Month and Day 1951	AT THE ROYAL OBSERVATORY, GREENWICH				AT THE ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX					
	Record of the Night Sky				Daily Duration of Sunshine	Sun above Horizon	Record of the Night Sky			
	Polaris		δ Ursæ Minoris				Polaris		δ Ursæ Minoris	
	Duration	Fraction of total Exposure	Duration	Fraction of total Exposure			Duration	Fraction of total Exposure	Duration	Fraction of total Exposure
	hours		hours		hours	hours	hours		hours	
Dec. 1	13.2	0.96	10.4	0.76	0.9	8.3	11.1	0.82	5.5	0.41
2	10.8	0.78	10.4	0.76	4.4	8.3	13.1	0.97	13.1	0.97
3	0.0	0.00	0.0	0.00	3.7	8.2	0.0	0.00	0.0	0.00
4	4.1	0.30	2.5	0.18	0.0	8.2	0.0	0.00	0.0	0.00
5	0.4	0.03	0.2	0.02	0.1	8.2	2.2	0.17	1.7	0.12
6	8.1	0.59	6.9	0.50	2.2	8.2	6.8	0.50	5.8	0.43
7	3.2	0.23	1.6	0.12	5.6	8.1	5.0	0.37	2.5	0.19
8	6.7	0.49	4.5	0.33	0.0	8.1	8.1	0.59	6.8	0.50
9	11.7	0.85	11.1	0.80	5.0	8.1	12.5	0.91	12.2	0.89
10	13.7	1.00	11.8	0.86	6.6	8.1	13.7	1.00	13.7	1.00
11	13.7	1.00	13.7	1.00	5.7	8.1	13.7	1.00	13.6	0.99
12	13.7	1.00	13.1	0.95	3.3	8.0	13.7	1.00	13.7	1.00
13	8.3	0.61	6.4	0.47	6.6	8.0	13.7	1.00	13.7	1.00
14	6.2	0.45	5.2	0.38	3.5	8.0	7.1	0.52	6.7	0.49
15	4.8	0.35	2.9	0.21	0.0	8.0	3.7	0.27	2.9	0.21
16	0.0	0.00	0.0	0.00	0.0	8.0	0.0	0.00	0.0	0.00
17	0.7	0.05	0.4	0.03	6.3	8.0	0.7	0.05	0.6	0.04
18	0.0	0.00	0.0	0.00	0.0	8.0	0.0	0.00	0.0	0.00
19	10.7	0.76	10.0	0.72	0.0	7.9	12.1	0.88	11.0	0.80
20	0.0	0.00	0.0	0.00	0.0	7.9	0.0	0.00	0.0	0.00
21	1.3	0.09	1.3	0.09	0.8	7.9	1.7	0.12	1.5	0.11
22	0.0	0.00	0.0	0.00	0.0	7.9	0.0	0.00	0.0	0.00
23	0.3	0.02	0.0	0.00	0.0	7.9	0.1	0.01	0.1	0.01
24	5.3	0.38	4.4	0.31	0.0	7.9	3.0	0.22	3.0	0.22
25	8.8	0.63	8.8	0.63	1.7	7.9	8.0	0.58	7.3	0.53
26	4.5	0.32	3.0	0.21	3.7	8.0	3.1	0.23	3.1	0.23
27	7.8	0.56	6.4	0.45	0.4	8.0	8.2	0.60	5.8	0.42
28	0.0	0.00	0.0	0.00	4.8	8.0	0.0	0.00	0.0	0.00
29	8.8	0.64	7.0	0.51	0.7	8.0	9.1	0.67	8.5	0.63
30	5.2	0.38	4.5	0.33	0.9	8.0	5.8	0.43	5.4	0.40
31	3.3	0.24	3.0	0.22	0.0	8.0	..	..	..	..
Means	5.7	0.41	4.8	0.35	2.2	8.0	5.9	0.43	5.3	0.39

TABLE XVIII(A). - TOTAL AMOUNT OF SUNSHINE REGISTERED AT THE ROYAL OBSERVATORY GREENWICH IN EACH HOUR OF THE DAY IN EACH MONTH

Month 1951	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
	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h	16h	17h	18h	19h	20h				
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		o
January					1.7	4.2	4.6	5.2	6.3	5.4	3.0	0.2					30.6	260.3	0.118	18
February				1.1	4.1	5.7	7.6	7.5	6.1	5.2	4.4	3.9	0.3				45.9	278.2	0.165	26
March			0.4	5.2	8.6	8.4	7.5	7.2	6.3	6.5	8.4	7.6	2.4	0.1			68.6	367.0	0.187	36
April			6.1	13.0	14.9	15.8	12.7	14.6	14.6	13.8	14.7	14.3	12.9	6.0	0.1		153.5	414.7	0.370	48
May		3.0	5.1	7.3	8.2	9.7	10.3	10.7	9.5	10.8	9.0	10.9	10.8	10.0	6.7	0.3	122.3	483.1	0.253	57
June	2.3	9.0	13.7	18.1	19.5	20.9	20.3	17.4	17.2	17.9	17.6	18.1	16.6	15.2	10.0	2.7	236.5	496.1	0.477	62
July	1.0	9.1	14.7	15.2	15.6	16.6	17.4	17.1	14.9	13.6	14.3	10.5	9.8	11.1	7.2	0.8	188.9	500.3	0.378	60
August	0.4	4.7	9.9	11.7	13.0	13.4	12.6	12.6	12.4	12.5	10.9	11.6	12.0	9.1	3.1		149.9	453.0	0.331	52
September		0.2	3.5	6.2	11.3	11.3	12.9	10.7	10.6	10.0	10.8	8.7	6.6	0.9			103.7	381.0	0.272	42
October				2.1	5.1	8.7	12.2	13.5	12.1	13.2	12.9	11.1	3.1				94.0	332.6	0.283	30
November					2.5	6.7	9.2	8.3	9.7	6.9	8.1	3.0	0.1				54.5	268.0	0.203	20
December					0.1	3.2	5.4	5.5	6.1	7.3	2.5						30.1	245.7	0.123	16
For the Year	3.7	26.0	53.4	79.9	104.6	124.6	132.7	130.3	125.8	123.1	116.6	99.9	74.6	52.4	27.1	3.8	1278.5	4480.0	0.285	..

The hours are reckoned from "Apparent" midnight.

TABLE XVIII(B). - TOTAL AMOUNT OF SUNSHINE REGISTERED AT THE ROYAL GREENWICH OBSERVATORY HERSTMONCEUX IN EACH HOUR OF THE DAY IN EACH MONTH

Month 1951	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
	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h	16h	17h	18h	19h	20h				
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h		o
January					4.0	9.3	9.4	10.8	12.4	12.5	8.4	3.4	0.1				70.3	263.2	0.267	18
February				0.6	2.9	7.8	11.1	12.5	11.0	10.3	7.7	8.1	4.7				76.7	279.5	0.274	26
March			2.5	8.0	12.2	14.8	13.0	10.6	11.2	11.8	12.4	11.0	10.3	1.7			119.5	367.0	0.326	37
April		3.7	12.5	18.1	19.4	17.5	18.3	17.6	18.4	18.8	16.5	16.9	14.6	11.7	5.4		209.4	413.7	0.506	49
May	0.1	6.8	10.2	12.1	14.4	16.5	16.9	14.8	15.4	16.0	17.9	17.7	14.9	12.9	10.3	1.3	198.2	480.4	0.413	58
June	2.8	14.8	16.0	17.1	18.5	18.6	20.0	22.8	22.7	23.3	22.3	23.3	22.7	22.5	19.8	6.5	293.7	493.1	0.596	62
July	0.5	11.4	16.7	19.1	20.6	20.1	18.7	18.8	17.4	18.9	20.3	17.9	17.3	15.3	12.5	3.3	248.8	497.0	0.501	60
August	0.1	3.6	8.8	11.6	14.0	14.1	14.6	15.3	16.4	16.1	14.0	11.6	15.1	12.9	6.6	0.5	175.3	451.3	0.388	53
September		0.3	4.5	9.8	13.5	16.3	14.4	13.0	12.4	10.9	11.0	10.8	9.2	2.9			129.0	380.6	0.339	42
October				8.1	15.0	15.3	16.7	16.7	15.2	14.6	15.4	14.5	9.3	0.1			140.9	333.5	0.422	31
November				0.3	2.8	7.5	10.7	11.8	12.0	11.5	9.0	6.3	0.8				72.7	270.3	0.269	21
December					1.7	7.2	10.0	11.0	11.9	10.5	10.7	3.9					66.9	249.2	0.268	16
For the Year	3.5	40.6	71.2	104.8	139.0	165.0	173.8	175.7	176.4	175.2	165.6	145.4	119.0	80.0	54.6	11.6	1801.4	4478.8	0.402	..

The hours are reckoned from "Apparent" midnight.

TABLE XIX. - READINGS OF THERMOMETERS AT 9^h ON THE REVOLVING OPEN STAND (FORMERLY CALLED "ORDINARY") AT GREENWICH

1951	January		February		March		April	
Day	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
	°	°	°	°	°	°	°	°
1	38.9	31.8	41.7	27.6	45.1	28.3	46.3	39.4
2	35.0	32.1	44.6	33.7	46.3	35.4	52.3	36.7
3	36.2	32.4	42.1	38.8	44.6	32.6	51.7	35.4
4	41.0	29.2	40.4	31.2	41.1	34.0	54.9	43.6
5	49.6	40.8	43.2	37.6	47.4	29.7	54.7	36.3
6	51.3	45.7	45.2	34.4	47.6	33.2	57.6	39.3
7	50.4	40.5	45.1	32.8	45.6	35.6	58.1	40.4
8	47.9	40.7	48.0	36.0	50.9	34.4	50.0	37.4
9	47.6	34.6	49.0	36.0	40.3	34.2	53.3	42.3
10	43.4	32.5	44.0	31.8	36.2	33.8	47.2	37.3
11	46.9	36.1	44.0	36.0	38.5	35.1	50.7	32.6
12	48.3	36.4	40.5	32.6	44.3	36.7	..	..
13	42.3	34.3	50.4	35.2	49.8	38.6	54.7	36.5
14	45.2	37.9	42.0	35.6	52.0	42.7	54.6	35.6
15	46.3	38.8	38.9	34.3	53.0	38.2	50.1	32.0
16	43.5	32.9	44.4	33.6	56.0	33.9	53.3	40.0
17	51.9	36.4	46.8	41.8	52.8	44.0	52.4	35.6
18	52.0	44.6	46.8	34.0	56.4	43.8	56.4	34.6
19	50.6	36.9	48.6	37.1	51.4	40.0	58.2	42.6
20	50.0	41.5	47.8	34.2	42.8	31.2	57.2	38.8
21	50.1	45.3	47.3	33.4	45.4	30.4	59.2	36.3
22	50.0	42.9	46.9	33.8	51.7	39.6	51.0	36.6
23	48.8	39.4	43.6	34.4	57.6	48.8	52.9	34.6
24	49.3	41.2	47.9	34.6	54.2	36.6	69.8	38.6
25	44.8	38.8	47.0	35.7	49.3	32.4	73.5	36.7
26	42.7	39.0	41.4	26.4	48.0	39.9	75.2	39.8
27	44.3	26.5	42.9	33.6	48.0	36.7	59.2	39.2
28	42.9	25.2	46.0	29.4	46.6	30.8	54.0	36.8
29	38.3	22.7			46.2	30.7	49.0	33.4
30	30.8	23.7			44.9	34.2	52.9	35.4
31	36.9	24.9			46.9	25.8		
Mean	45.1	35.7	44.9	34.1	47.8	35.5	55.5	37.5

TABLE XX. - AMOUNT OF RAIN COLLECTED AT GREENWICH IN EACH MONTH OF THE YEAR 1951

Gauges partly sunk in the Ground in the Christie Enclosure	Monthly Amount of Rain collected in each Gauge													Height of Receiving Surface	
	Number of Gauge	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Sums	Above the Ground	Above Mean Sea Level
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ft. in.	ft. in.
	6	2.579	5.939	2.830	2.811	1.99	1.25	1.51	3.16	3.04	0.91	4.41	2.10	32.53	0 5	149 6
	8	2.547	6.020	2.781	2.761	1.99	1.24	1.50	3.08	3.03	0.91	4.45	2.09	32.40	1 0	150 1
Number of Rainy Days (0.005 in. or over)		21	24	21	15	17	8	9	19	11	12	24	16	197	..	..