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Cover photograph: Faraday Station, Argentine Islands
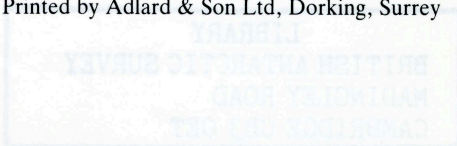
GEOMAGNETIC MEASUREMENTS
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SUMMARY

This report describes the operation of the magnetic observatory on the Argentine Islands from its opening in 1957 to the end of 1982. Full details of the site, buildings, instruments, and their operation are given.

A 'normal' and an insensitive La Cour Magnetograph were installed in 1955 and repositioned in 1971 and 1970 respectively. The QHM has been used throughout for measuring the horizontal component, a 'Quartz Declinometer' replaced the 'Kew pattern' magnetometer for measuring declination in 1982 and the PPM replaced the BMZ for calculating the vertical component in 1979.

The method of computing mean hourly values is described and the accuracy and reliability of the data is discussed. Tables are given listing the monthly and annual means, and listing the mean diurnal variation for each month. These tables are for the H, D and Z components and list values for all days, 'quiet days' and 'disturbed days'.

ACKNOWLEDGEMENTS

CONTENTS

1 INTRODUCTION

The British Antarctic Survey (BAS) base, Argentine Islands (latitude 65°15′S, longitude 64°16′W) was built in 1954, on Galindez Island, which is in the Argentine Islands archipelago. The Argentine Islands lie 6 km west of the Graham Land coast, Antarctica. Although the geophysical observatory is still called Argentine Islands (A. 973), the BAS station name was changed to Faraday in 1977.

The geomagnetic observatory is housed in two huts approximately 250 m to the east of the main hut (Fig. 1). The variometer hut and the fibreglass hut were built in 1955 and 1969 respectively. Three sets of instruments are used to produce a continuous record of variations of the horizontal (H) and vertical (Z) geomagnetic field components and of the magnetic declination (D). These are sensitive and insensitive (or 'normal' and 'storm') La Cour magnetographs, set up in 1956, and a fluxgate magnetometer installed in 1974. Absolute values of the three field components are measured periodically using a set of quartz horizontal magnetometers (QHMs), a Kew declinometer, replaced by a quartz declinometer (QD) in 1982, a set of magnetometric zero balances (BMZs) and a proton precession magnetometer (PPM), which was first used successfully in 1969.

The observatory is normally run by two people, who are trained in the United Kingdom. They serve two years at the observatory, with a one year overlap between personnel changes to maintain continuity and standards. The station is relieved once a year by a BAS ship and all records and observations are returned to the United Kingdom. They are first checked, then absolute hourly values of the three field components are calculated and the variation record microfilmed. Absolute hourly values and the microfilm are sent to the World Data Centres where they are made available for use. At the observatory, the variation records are used to produce a provisional K-index for each three-hour period. At the end of each month, the indices are transmitted to Institut de Physique du Globe, Paris, France, via BAS headquarters. They are then used in the calculation of the geomagnetic disturbance indices, which are published in International Association of Geomagnetism and Aeronomy (IAGA) bulletins.

This report describes the observatory buildings, the operation of recording instruments and the absolute instruments and the preparation of the absolute hourly values. It covers the period from setting up the observatory in 1955 to the end of 1982.
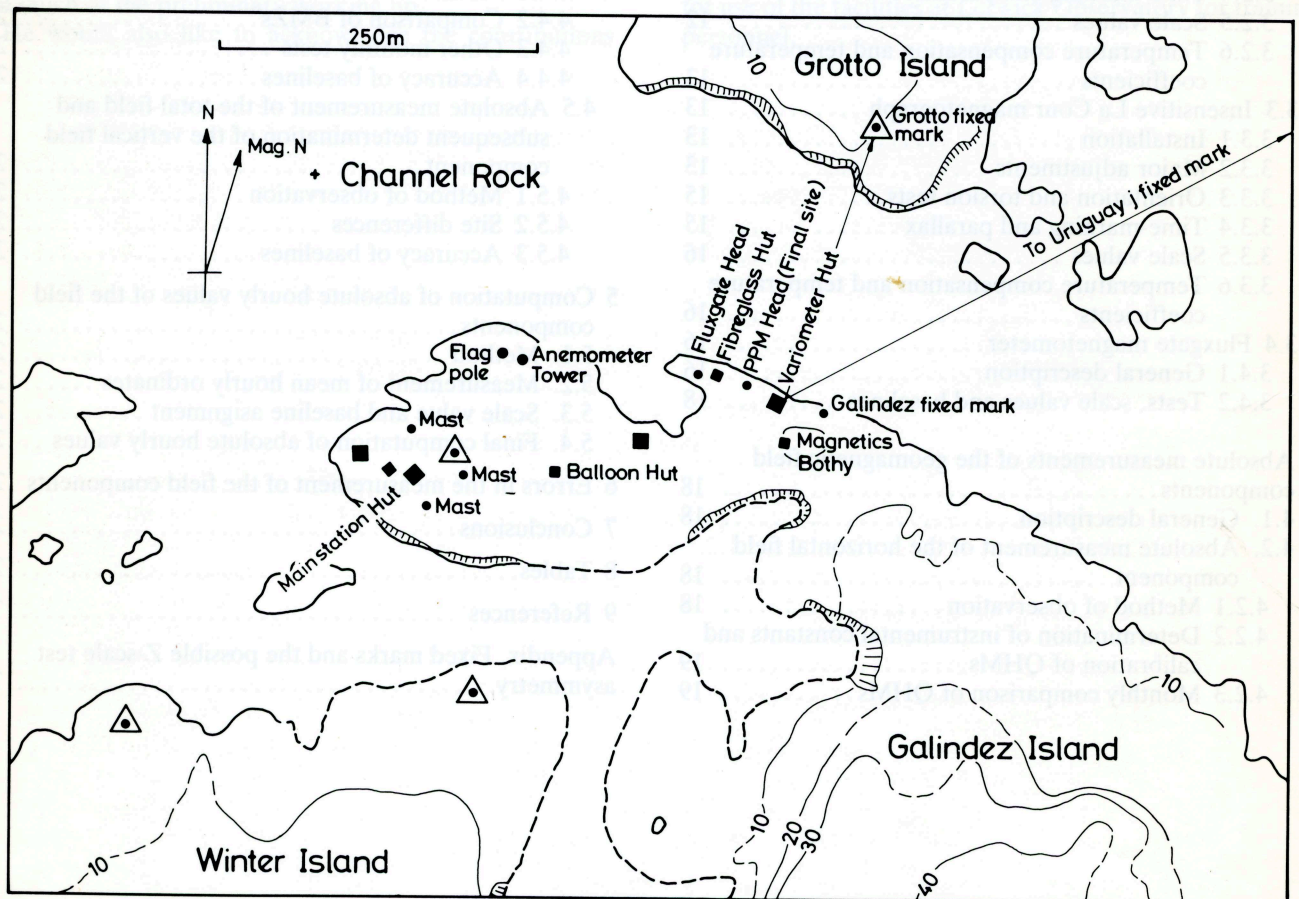

Fig. 1. Map of magnetic observatory on Argentine Islands and surrounding area.

2 OBSERVATORY SITE AND BUILDINGS

2.1. Position of huts and magnetic survey

The positions of the two geomagnetic observatory huts are shown in Fig. 1. The La Cour magnetographs and absolute instruments are kept in the variometer hut, which was built using only non-magnetic materials. The electronic controls for the fluxgate and proton precession magnetometers are kept in the fibreglass hut, which was erected in 1969. This hut was originally intended to be non-magnetic, but the installation of seismometer equipment and new partitions meant that the sensing heads for both instruments had to be moved outside, away from this hut. Fig. 1 shows the positions of these sensing heads and the directions from the variometer hut to the fixed marks that are used during absolute observations (see section 4). All electrical power for the huts comes from the main station hut via the magnetics bothy which, since 1972, has also been used to store the spare absolute instruments.

A magnetic survey of the Argentine Islands was carried out in 1960/61, measuring the vertical geomagnetic field component (Agger and others, 1963). The results, presented in Fig. 2 show large field gradients on Grotto Island and much smaller field variations south of Meek Channel, in the vicinity of the magnetic observatory huts. These field gradients were interpreted as indicating Andean intrusive rock bodies under Grotto Island. Field component values are quoted for the absolute instrument pier positions in the variometer hut. Thus, site-difference corrections are needed when PPM observations are taken as the PPM is located away from the variometer hut. Site-difference corrections are discussed in section 4.5.2.

2.2 Variometer hut

A floor plan of the variometer hut is shown in Fig. 3 (positions of variometers not drawn to scale). The magnetographs, the QHM and the Kew declinometer are mounted on piers topped with marble slabs. This raises them to an easy working level. The BMZ was kept on its own tripod, which was erected on marble slabs. The absolute instruments are left on the piers between observations and the spare BMZs are stored in the bothy, away from the variometer huts. The Kew declinometer magnet was kept in the QHM room and, from 1971 to 1977, it was kept in a position such that it affected the QHM readings (details of this effect are given in section 4.2.4). The QD magnet has a larger magnetic moment than the Kew declinometer magnet so it is stored in the fibreglass hut. The observation hatch in the QHM room allows observation of the azimuth of the sun, stars and Grotto fixed mark, while the other fixed marks are observed through sighting tubes.

In 1971, the hut was covered with butyl sheeting, which required minimal maintenance, making it unnecessary to repaint and repair the hut every year.

In 1963, and again in 1971, the underfloor fibreglass insulation was replaced. The old insulation had sagged and

some panels had fallen out completely, reducing the degree of thermal stability that could be maintained within the hut. Between January and March 1963, this fibreglass was stored under the hut and its steel wrapping straps affected QHM readings. These were subsequently corrected for this effect.

Heating is provided by pyrotenax cable, which is fixed to the walls near floor level and connected to a 230-V, 50-Hz supply controlled by thermostats. The pyrotenax cable is doubled back on itself to prevent any effects at the lower frequencies registered by the magnetograph. In 1960, the thermostats in all the rooms were changed for more reliable units. In April 1971, the thermostat in the QHM absolute room was replaced by a new type of relay (AMCR), which caused a change of about 2 nT in the measured H baselines. The thermostatically controlled switching of the heating causes a small ripple on the field component traces and not a step change as would be expected if the pyrotenax produced a magnetic field. This implies that there is some rectification of the heating supply, though no reason why this should occur has been found. However, as the amplitude of the ripple is small and occurs infrequently, the effect can be considered negligible. In an attempt to stop this ripple, a new heating system was installed in 1976. This consisted of Beckmann contact thermometers in the variometer rooms switching Tetcol AC relays in the magnetics bothy, which controlled Hotfoil GRP heating panels. These Hotfoil panels caused a larger effect on the field component traces than the original system so the original pyrotenax was reconnected. Until they were removed in 1981, the Hotfoil panels were occasionally used to raise the temperature to carry out temperature coefficient tests.

The H and Z variometers produce records that have temperature-dependent baselines and scale values; therefore, it is advantageous to keep the variometer room temperature constant. After the underfloor insulation was replaced in 1963, the temperature within the variometer room could be kept steady to within $\pm 0.1°C$.

No humidity control is provided as the humidity within the variometer hut always remains low.

2.3 Fibreglass hut

The fibreglass hut, erected in 1969, is used to house the electronics of the fluxgate magnetometer and the PPM, and the seismometer recorder. Originally, it was built as a non-magnetic hut to house the PPM, its sensing head and coil system. However, it was uninsulated and the heating could not maintain a temperature above 0°C during the winter. Therefore, partitions were installed and only a quarter of the hut is heated by a thermostatistically controlled heater. However, even with insulation, the temperature still fluctuates by approximately ± 5 degrees. Since the partitions were made with some magnetic materials, the PPM head was moved away from the fibreglass hut.

Fig. 2. The variation of the vertical field component over Argentine Islands measured with a BMZ in 1960–61 (from Agger and others, 1963). The area shown in Fig. 1 is enclosed in the rectangle.

3 CONTINUOUS RECORDING OF GEOMAGNETIC FIELD VARIATIONS

3.1 General description

From 1957 to the present, two La Cour magnetographs have been in operation at Argentine Islands. In addition, a fluxgate magnetometer has been in use since 1974. Each La Cour magnetograph consists of three variometers, a variometre de Copenhague (La Cour and Laursen, 1930) to record the H component, a declinometre de Copenhague

(Laursen, 1943) for D and a balance de Godhaven (La Cour, 1930) for the Z component, and the normal recorder (Laursen, 1943). Light is reflected from mirrors attached to the recording magnets within the variometers, and is recorded on photographic paper, which is held on a rotating drum in the normal recorder. The insensitive, or 'storm', set of variometers has higher torsion constant fibres and a Z

Fig. 3. Floor plan of the variometer hut, showing the position of the La Cour variometers in 1982.

monad (or recording) magnet with a larger scale value, which, when used with shorter optical levers, gives larger scale values for the insensitive magnetogram. The other set is called the sensitive, or 'normal set' (Fig. 4). If the sensitive magnetograph record is lost, or when geomagnetic activity is high and the sensitive record is confused or faint, the insensitive magnetogram may be used to provide a record of field variations. The sensitive magnetograph is set up to produce a daily (U.T.) magnetogram (Figs. 5 and 6) with the H field component record at the top of the paper, increasing field strength up the paper, the D field component in the centre portion of the magnetogram, increasing easterly up the paper and the Z field component on the lower portion of the magnetogram, increasing down the paper (becoming less negative). The insensitive magnetograph produces a magnetogram (Figs. 7 and 8) measuring the variations of the field components in the same sense as the normal magnetograph. Originally they were recorded

with D at the top of the paper, H in the middle and Z at the bottom of the magnetogram. However, in 1970, the insensitive magnetograph was dismantled and reassembled, changing the order in which the variations were recorded, so that Z has, since then, been recorded at the top, H in the middle and the D at the bottom of the magnetogram.

Both magnetographs use supplementary prisms to record large geomagnetic field variations. Without these prisms, the traces would move off their ascribed sections of the magnetogram and would not be recorded. A full set of prisms on the sensitive magnetograph produces three supplementary traces either side of the main H field component trace, four either side of the main D trace and two either side of the main Z trace. The insensitive magnetograph's prisms are set up to give one supplementary trace either side of the main H and Z traces and two either side of the main D trace.

Until 1979, battery banks in the main hut (Fig. 1) sup-
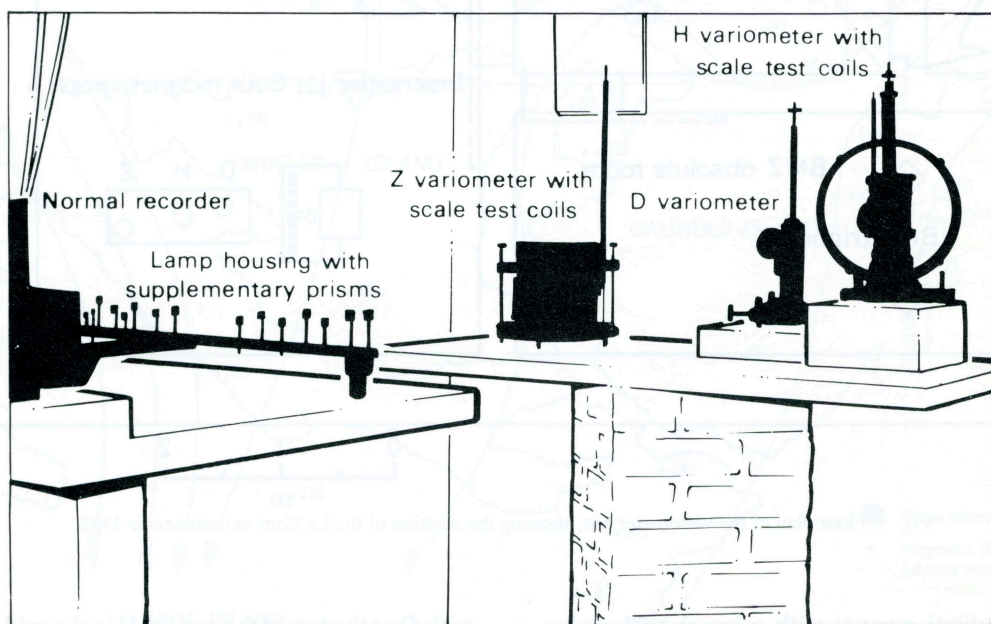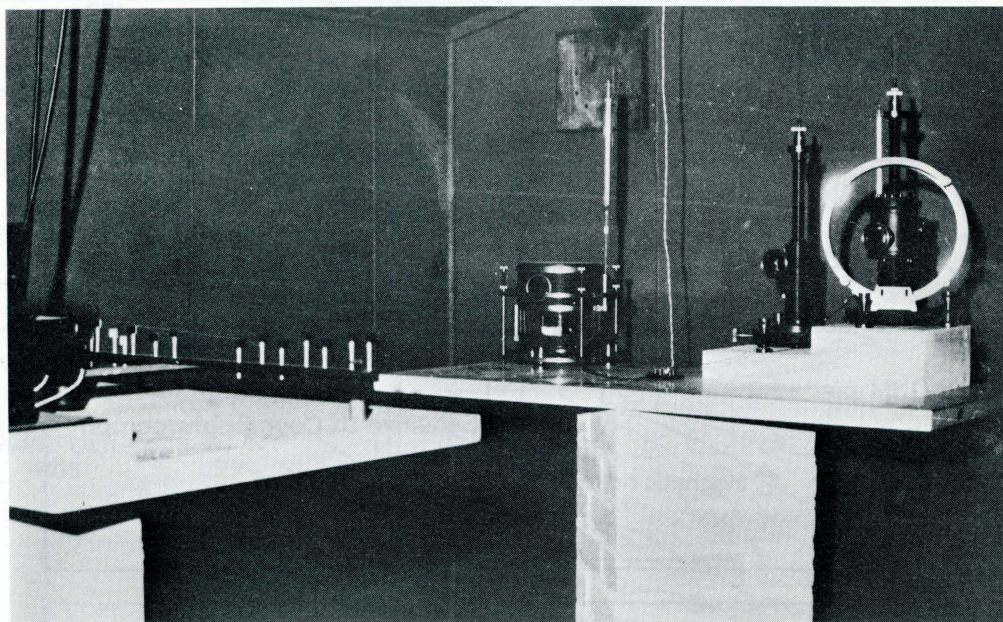
Fig. 4. Sensitive magnetograph after reassembly in 1971. Note the scale test coils on the *H* and *Z* variometer and, compared with Figs. 10 and 11, the full set of supplementary prisms.

plied recording and time mark lamp currents. The intensities of the traces were controlled from the main station hut. Thus, the recording lamp current could be increased during periods of high geomagnetic activity without going into the variometer hut. In 1979, a stabilized power supply replaced the batteries. The batteries are kept as a back-up supply and switch-in automatically if there is a power failure.

The normal recorder produces magnetograms at 15 mm/h, the speed being controlled by a weight driven clock. Magnetograms were originally produced on uncoated photographic paper. In 1969, this was replaced by a high resolution paper, Kodak Bromide, which was waterproof and suffered less shrinkage than the uncoated paper. Production of the Bromide paper stopped in 1975 and it was replaced by Kodak Veribrom N2 paper, the paper size changing from 12×15 inches to 12×16 inch sheets in 1978. Magnetograms are changed at midnight UTC and then developed, dried and annotated.

H-variometer silica gel driers are changed weekly. As the lower chamber of the *Z* variometer is sealed, its drier only needs replacing when the seal is broken.

An EDA fluxgate magnetometer (see section 3.4) was installed in March 1974 and the sensing head aligned to
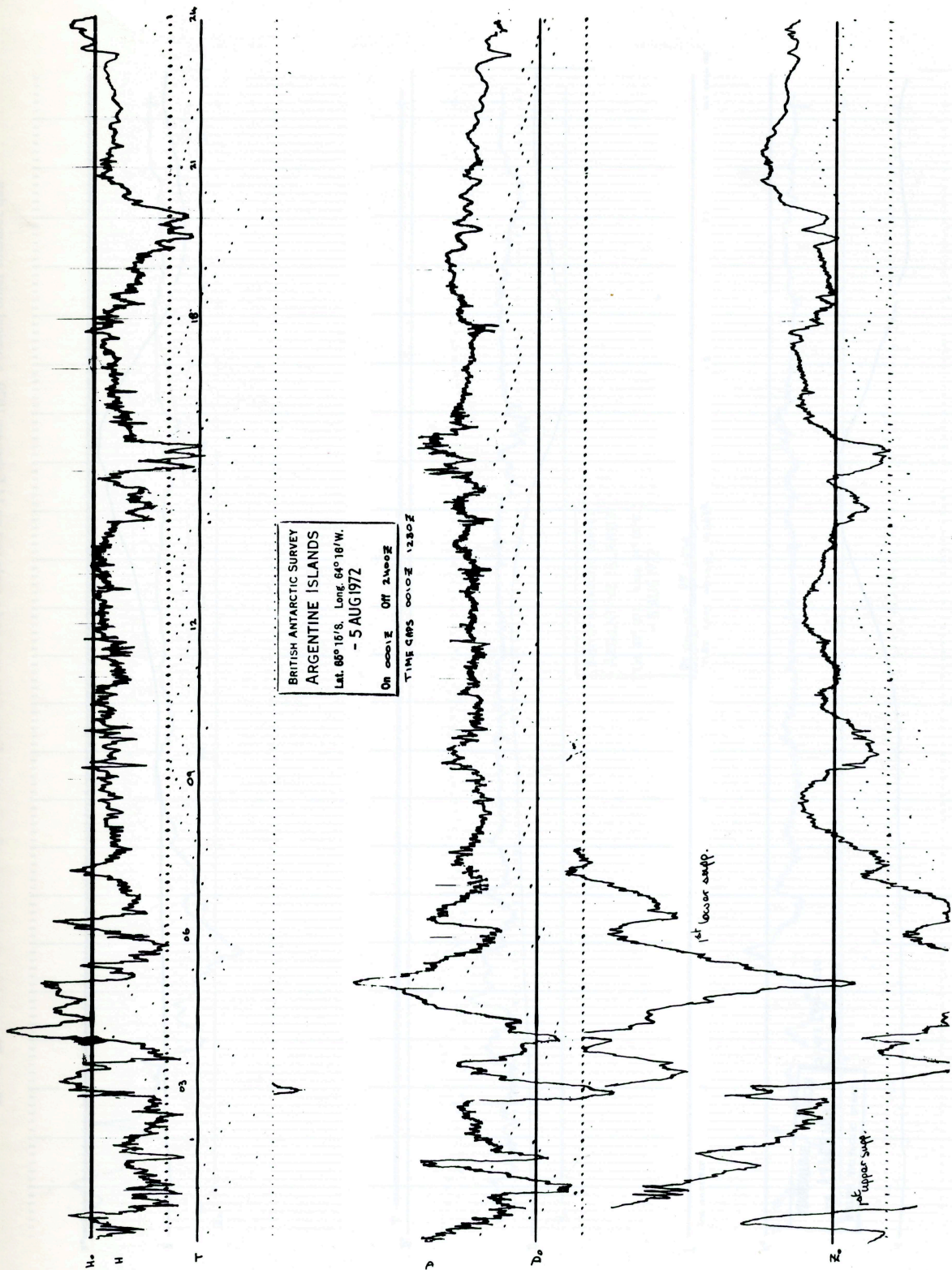
Fig. 5. The sensitive magnetogram, with notable pulsations, showing time mark dotting and illustrating a magnetically disturbed day, 5 August 1972. Times are in UT.

Fig. 6. The sensitive magnetogram, showing time lines, time gaps and a scale test on 14 February 1979, a typical quiet summer day.
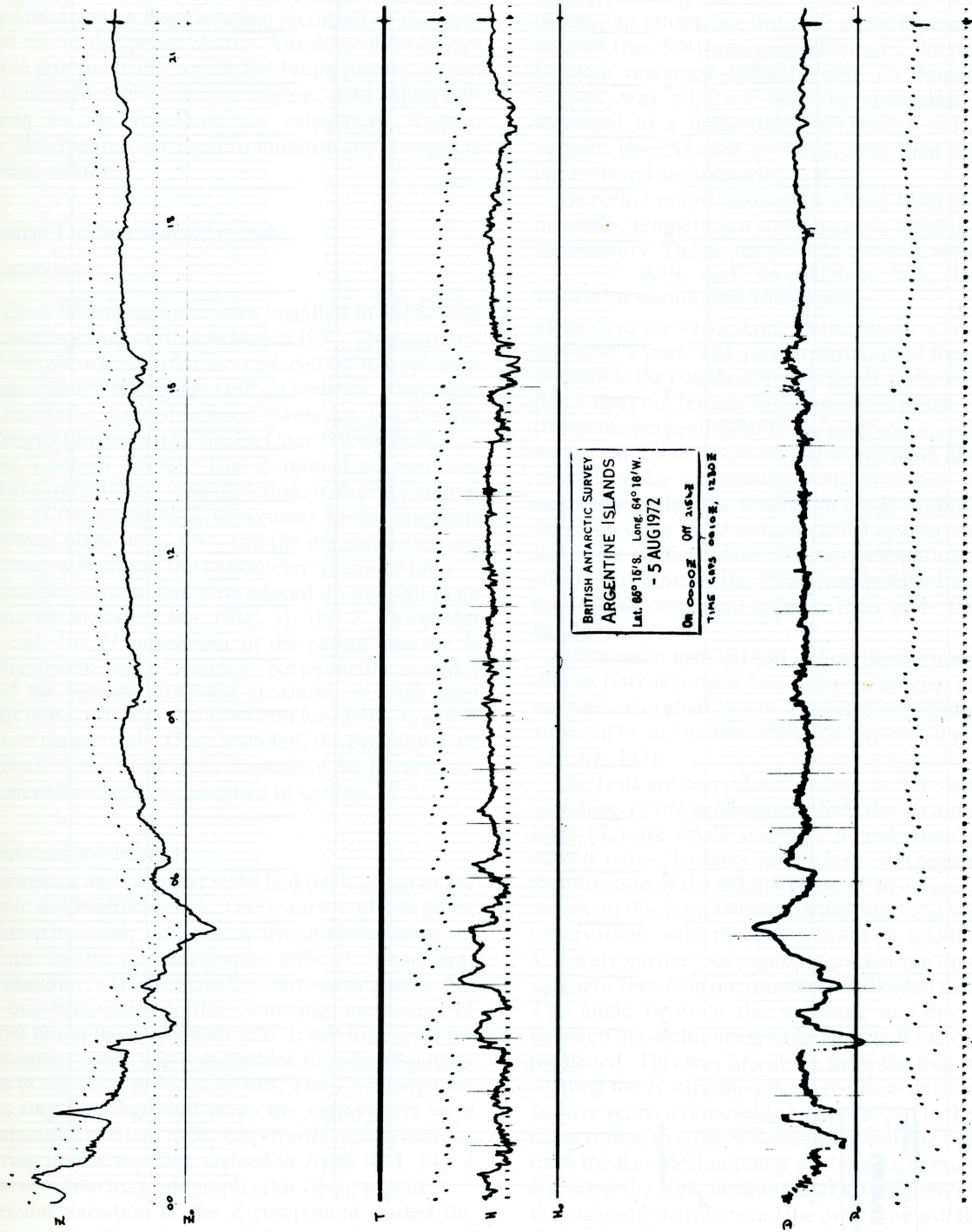
Fig. 7. The insensitive magnetogram for the same day as Fig. 5, the larger scale values giving a clearer record. Time-mark dotting and gaps can also be seen.

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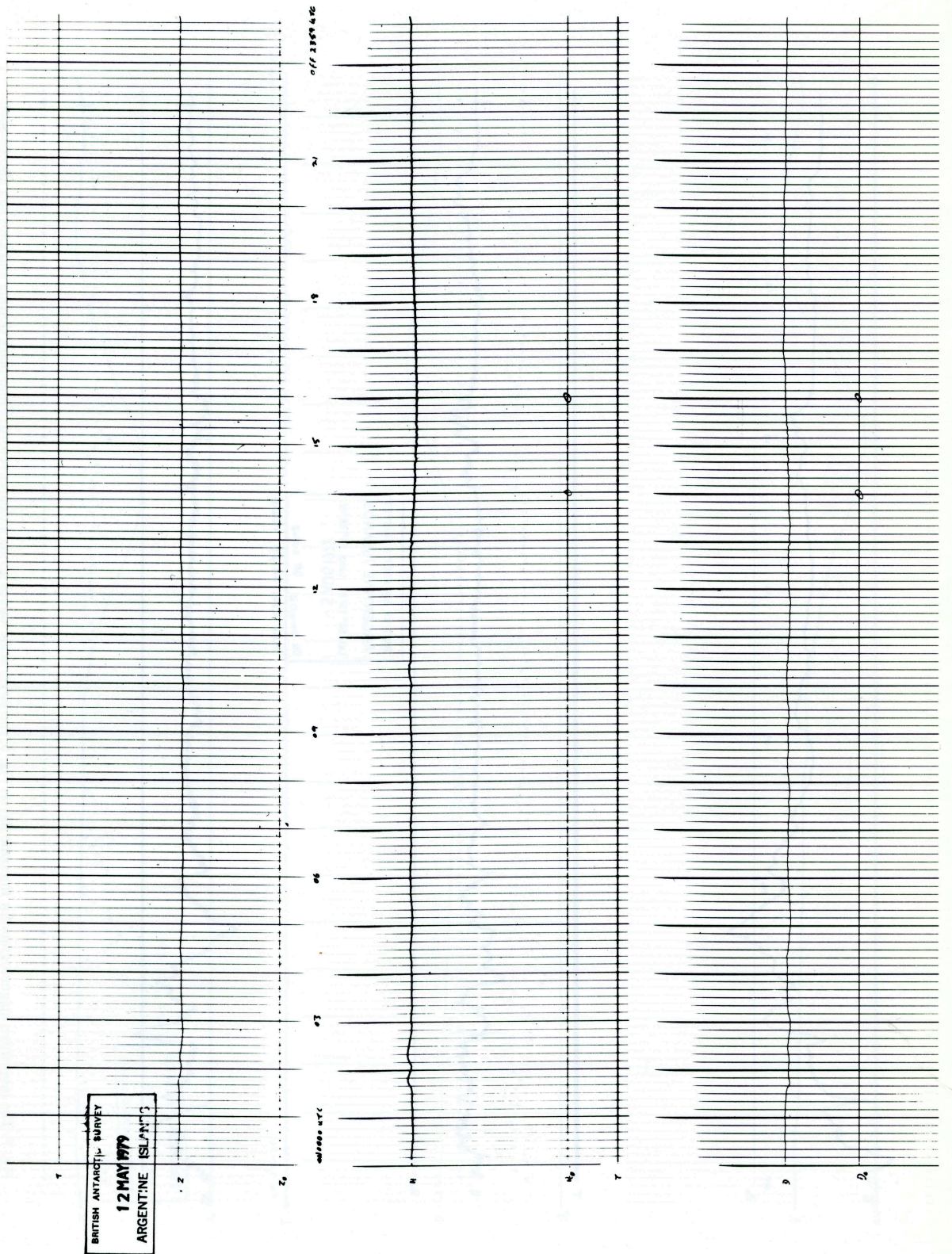
Fig. 8. The insensitive magnetogram, with time lines for 12 May 1979.

record the *H, D* and *Z* field components. This instrument was first used to produce paper chart records only but, from January 1980, it has also produced digital magnetic cassette records using a data logger. These charts can be used if both sensitive and insensitive La Cour records are lost.

Records of the field-components produced by the La Cour magnetographs or by the fluxgate magnetometer are measured relative to a fixed baseline recorded on the magnetogram or on the paper charts. Absolute observations (Section 4) give spot values of the field components. Knowing the scale values of the magnetogram, field values corresponding to the baselines are calculated. Regular absolute observations are used to monitor any changes in the baseline values.

3.2 Sensitive La Cour magnetograph

3.2.1 Installation

The La Cour magnetographs were installed in 1955, with continuous recording starting in March 1957. The variometers and the normal recorder were placed on marble slabs which were fixed to brick piers built on bedrock. They were set up according to instructions given by the Danish Meteorological Institute (1978), La Cour (1930) and by La Cour and Laursen (1930). The *Z* monad magnet was installed in a roughly east-west direction, so the misorientation angle of the sensitive *Z* variometer to the magnetic prime vertical plane was 24.5°, and the magnetic axis was roughly perpendicular to the variometer/recorder line.

The sensitive variometers were placed on the slab in an approximately east-west line (Fig. 3), the *Z* variometer farthest east, the *D* variometer in the centre and the *H* variometer to the west. Distances between the recorder drum and the variometers were measured in 1960; they were 1820 mm, 1870 mm and 1790 mm for the *H, D* and *Z* variometers respectively. Once installed, the orientation of the variometers and the torsion constant of the D variometer fibre were checked, as described in section 3.2.3.

3.2.2 Major adjustments

Both variometer and recorder slabs had been set up at the same height in 1955. This made it necessary to tilt the prism bar and lamp assembly upwards; it also made carrying out adjustments to the magnetographs difficult. Therefore, during February 1971, the sensitive variometers were dismantled and reassembled after removing one course of bricks from under the variometer slab. It was lowered 8 cm and the magnetograph was reassembled to produce a magnetogram in the same order as before. The *Z* variometer's plexiglass ring was shattered when the variometers were being dismantled and had to be temporarily replaced with a perspex ring until a new one arrived in April 1971. Fig. 4 shows the sensitive magnetograph after being rebuilt.

The secular variation of the *Z*-component caused the angle between the magnetic axis of the monad magnet and the horizontal (the so-called ex-level angle) to increase slowly. This meant that it was necessary periodically to regrind or replace the magnet. In January 1969, the sensitive *Z* monad magnet No. 120 was replaced by magnet No. 504, which had been ground for the *Z*-field strength at

Argentine Islands at that time. Further grinding was necessary in June 1978.

In 1982, magnet No. 504 was replaced by magnet ~~No. 214~~ in an attempt to stop the *Z* scale value asymmetry (see Appendix). However, after it was installed on 30 March, the baseline value started to drift at a rate of about 1.4 nT per day, although the scale value remained stable. Despite checks, no reason for this drift could be found so the old magnet (no. 504) was reinstalled on 2 August 1982. The baseline remained constant until 25 August when the magnet was adjusted and the measured scale value increased to a theoretically impossible value. The new magnet, ~~No. 214~~, was installed; since then the variometer has behaved satisfactorily.

The other major adjustments have been changes of the bimetallic temperature compensation strips in the *H* and *Z* variometers. This is discussed in detail in section 3.2.6.

214 not supplied till 1983, installed 1984
DAS 11/92

3.2.3 Orientation and torsion tests

These tests are carried out on the sensitive set of variometers once a year. The secular variation of the geomagnetic field alters the couple acting on the *H* variometer magnet so that it does not remain in the magnetic prime vertical plane (the plane perpendicular to the magnetic meridian). Knowing the direction of the magnetic meridian in the La Cour room, regular orientation tests indicated when it was necessary to alter the torsion on the *H* variometer's quartz fibre (La Cour and Laursen, 1930) to keep the magnet in the prime vertical plane. The misorientation angle is also checked by plotting the *H* field component baseline against the *D* field component ordinate (McComb, 1952, par. 331, fig. 144).

Orientation tests carried out on the *D* variometer check that its fibre is torsion free, with the magnet aligned in the magnetic meridian. If the magnet is out of alignment, it is adjusted by the method described by McComb (1952, par. 331, fig. 143).

The tests are carried out in June or July when the daily variations of the geomagnetic field due to ionospheric currents (S_R) are small, during a period when geomagnetic activity is low. To carry out the tests, it is necessary to know the direction of the magnetic meridian across the variometer room; this is established in the following way. Absolute observations using the Kew pattern declinometer (Section 4.3) were carried out regularly so that the direction of the magnetic meridian measured on its divided circle is known. The angle between the magnetic meridian and a line between the declinometer pier and the *H* variometer is then measured. This was first done from the hall of the hut by sighting the *H* variometer and the Kew declinometer pier. In later years, a removable hatch was put in the variometer room wall so that the *H* variometer could be sighted directly from the Kew declinometer pier and its azimuth measured. Knowing the Kew declinometer divided-circle readings of the magnetic meridian and the dimensions of the room, the direction of the magnetic meridian through the *H* variometer is marked on the walls. Lines parallel to the meridian through the *H* variometer are marked, to align the Helmholtz-Gaugain coils, with their axes perpendicular or parallel to the meridian, centred on either the *H* or *D* variometers and through the *D* variometer itself. The coils

are aligned by stretching cotton across the room along the desired lines. The estimated error in coil alignment using this technique is ±½°.

The orientation of the H variometer magnet is checked by placing the coils over the H variometer and aligning them so that the axis of the coils is perpendicular to the meridian. A current of about 100 mA is passed through the coils and any deflections, seen on the ground glass screen within the normal recorder, are measured. If there is a significant deflection of the magnet, the variometer is adjusted by the method described in La Cour and Laursen (1930). Since the estimated error in coil alignment is ±½°, a significant deflection would be seen if the magnet was more than ±½° from the prime vertical plane. Now

$$\tan x = \frac{uS_H}{7.49I} \qquad 1$$

(McComb, 1952, equation 344, with 12-inch diameter coils), where x=angle from the prime vertical, u=deflection of the H trace, S_H=the H component scale value and I=the current passed in mA. Normally, a 100-mA current was used, so, for an average scale value of 4 nT/mm, a trace deflection of >1.6 mm indicates that the magnet needs to be realigned.

The Helmholtz-Gaugain coils are moved over the D variometer, with their axis parallel to the meridian. A similar deflection test is carried out to check that the D variometer fibre is in a torsion-free state. Realigning the coils so that their axis is perpendicular to the meridian, the D scale value can be checked by measuring deflections on the magnetogram in the same way as the H scale value is evaluated (Laursen, 1943). At the end of these tests the coils are returned to the H variometer, with their axis perpendicular to the meridian, for the routine H scale tests. The orientation of H and D variometer magnets are also checked using the plots described in the previous section.

Torsion tests on the D variometer are carried out about once a year. The torsion head is first rotated clockwise and then anti-clockwise, allowing the trace to settle in each case. The angular deflection is measured and the torsion constant calculated knowing the distance between the variometer and recorder drum. The torsion constant could be checked, using the formula:

$$k' = M_s(H+C)\frac{h}{f-h} \qquad 2$$

(McComb, 1952, equation 99), where k'=torsion constant in dyne cm per radian ($\equiv T/29$, where T is the torsion constant given on the certificates supplied with the fibres), H=the horizontal field component, C=horizontal field due to other magnets (≈ 0) and h=the mean angular displacement (radians) for a twist, f (radians), in the fibre. M_s is the magnetic moment of the magnet. All quantities are given in c.g.s. units.

3.2.4 Time-marking and parallax

Time-marks on the magnetograms are made using a lamp placed behind the recording lamp which is lit for 3 seconds every 10 minutes and 10 seconds on the hour. Light from the lamp is reflected by free-standing plane mirrors, which are mounted on the variometer slab, or from the variometer mirrors themselves, on to the magnetograms. The plane mirrors produce time-lines across the full width of each record. Alternatively, reflections from the variometer mirrors produced dots above each trace on the magnetogram. Examples of each method can be seen in Figs. 5 and 6. Time-lines were used for the period covered by this report, except from January 1971 to November 1975 when the dotting method was used.

Current to the time-mark lamps was switched by the Synchronome impulse transmitter kept in the main hut. This was replaced in 1976 by a digital clock with the impulse transmitter remaining as backup. These are both checked regularly against radio time-signals. Clock errors are normally small enough (less than 10 seconds) to make time corrections to the magnetograms unnecessary.

Until 1971, mean parallax corrections were evaluated for each period between variometer adjustments. The parallax was measured by increasing the current near a time-mark or by using the scale tests. After 1971, parallax corrections can be measured each day from two time-gaps. These are produced by switching off the recording lamp for two minutes, centred between time lines. The time-gaps give the parallax of the trace at one position on the chart. As the parallax changes with trace ordinate, the parallax corrections are found by examining a time-gap at the same ordinate value as that required.

3.2.5 Scale values

The Helmholtz-Gaugain coils are used to evaluate the scale values of the H- and Z-field components' records. The two sets of coils are centred on the variometer magnets with the coil axis parallel to the magnetic meridian on the H variometer and the axis vertical on the Z variometer. These scale tests were initially carried out about once a week but, after 1965, they have been performed about twice a week. Both sets of coils are connected to a power supply in the main hut so that scale tests are carried out remotely from the variometer hut. The scale test schedule has varied. The first schedule used was to pass a current of 10 mA, −10 mA, 12 mA and finally −12 mA through the coils for ¼ minute each. This was changed in March 1968, so that a current of 10 mA and then −10 mA was passed for 10 minutes each. It was changed again, in September 1970, such that the current increased to 10 mA over a minute, starting at a time mark, 10 mA was passed for 4 minutes, then the current reduced to zero over a minute; the same routine was repeated for −10 mA. A scale test of this type can seen in Fig. 6 (the H and Z coils produce fields that affect D). Mean H and Z scale values for each month are calculated; if they show a significant change over several months, a new scale value is adopted.

The scale values of the D field component variations (S_D) is calculated from the geometry of the magnetograph and the variometer constants. Provided the other magnets do not effect the D variometer magnet, it is given by:

$$S_D = \frac{3438}{2R}\left(1 - \frac{k'}{Hm}\right) \qquad 3$$

(arcmin/mm from McComb, 1952, equation 124), where R is the effective distance from the D lens to the recording drum, H

the horizontal field component, m is the magnetic moment of the magnet and k' is from equation 2. All quantities are given in c.g.s. units. This value was checked occasionally using Helmholtz-Gaugain coils, as described in the previous section. It was only changed when the geometry was changed or when repeated yearly checks indicated that it was necessary to do so.

Scale values for each component of the sensitive magnetogram covering the period 1957–1982 are shown in Fig. 9. Before 1981, the H and Z component scale values were calculated to two decimal places. If scale tests indicated that the scale value had changed by 0.01 nT/mm, then the adopted scale value was changed. Changing the scale value at this low threshold caused a large number of scale value changes that did not significantly improve the accuracy of the absolute field component values. Therefore, from 1981, the scale values of the H and Z components have been quoted to only one decimal place.

The scale values of the H and D component record have remained nearly constant. Small changes in the H scale value occurred when the variometer was adjusted and when the magnetograph was dismantled and reassembled in 1971.

The orientation of the Z monad magnet was altered in 1959 and in 1971. The Z scale value is dependent on the misorientation angle of the monad magnet to the prime vertical plane, so turning the monad magnet will alter the scale value of the record. Replacement of the monad magnet in 1969, and again in 1982, only produced small changes in scale value. However, when the monad magnet no. 504 was ground and reinstalled in August 1982 the scale value changed to -7.5 nT/mm. Between 25 August and 24 September 1982, the insensitive magnetogram Z record was used because the sensitive Z record was unreliable and scale tests gave the theoretically impossible scale value of -33 nT/mm.

Scale values derived from scale tests using the Helmholtz coils were checked by plotting the ordinates of the magnetogram traces against field values measured using the absolute instruments (described in section 4). These comparisons showed that there was good agreement between the two methods of determining scale values.

After the new Z monad magnet, no. 504, was installed in July 1969 it was noticed that the Z scale tests were not symmetrical, one deflection being larger than the other. Also, the scale values derived from the scale tests varied as a function of trace ordinate. It has been found that varying the misorientation angle of the Z monad magnet changes this asymmetry. The scale value changed by up to 2 nT/mm when the trace ordinate changed by 56 mm. However, scale value calculated graphically from absolute observations are almost the same as the mean values calculated from scale tests using the coils (± 0.1 nT/mm). Therefore, it has not been possible to prove that the asymmetry is real or whether it is due to the method by which scale values are evaluated. Further details of this asymmetry are given in the Appendix.

3.2.6 Temperature compensation and temperature coefficients

H and Z variometers are affected by temperature changes, so that the H baseline increases and the Z baseline decreases with increasing temperature. This is compensated for by using bimetallic strips within the variometers (La Cour, 1930; La Cour and Laursen, 1930). Neither sensitive nor insensitive sets of variometers have been adjusted to compensate completely

for temperature variations, so that temperature corrections have to be applied to the values calculated from the magnetograms.

Temperature coefficients are evaluated at approximately yearly intervals by carrying out repeated absolute observations (see section 4) at different variometer room temperatures. The temperature coefficient may be checked by plotting the field component baselines against temperature. By plotting recorded temperature against the ordinate of the temperature traces recorded on the magnetograms, the scale values and baselines of the temperature traces are calculated. Before 1967, only the insensitive Z variometer temperature was recorded at chart change; after this time both Z variometer temperatures have been recorded. Tests in 1962 showed that there was no significant temperature gradient along the variometer slab. Therefore, except during rapid temperature changes (1–2 degrees per hour), such as when the heater relays stick, the variometer magnets and the Z-variometer thermometer are at the same temperature.

The temperature coefficients change when the scale values of the field component vary. Thus, when the scale value is changed, the sensitive H and Z variometer bimetallic strips are adjusted to minimize the temperature coefficients. In 1976, the sensitive H variometer was modified to allow a longer bimetallic strip to be fitted, so that temperature compensation could be improved. The old H strip was fitted in the sensitive Z variometer to reduce its temperature coefficient further. Changes in the Z temperature coefficient have been much larger than for H as the Z component scale value has varied over a greater range. Changes in the temperature coefficients are summarized in Table 1.

Table 1. Temperature coefficients of the normal magnetograph.

H field variometer		Z field variometer	
Period	Temp. coeff. (nT/deg)	Period	Temp. coeff. (nT/deg)
1957–76	3.1–4.9	1957–76	0.0–3.0
1976–82	1.0–2.3	1976–82	2.5–3.1

3.3 Insensitive La Cour magnetograph

3.3.1 Installation

The insensitive La Cour magnetograph was installed before the sensitive magnetograph in 1955, following the same instructions as described in section 2.2.1. By installing the insensitive magnetograph first, personnel were able to gain experience before attempting to set up the sensitive magnetograph.

The variometers were placed at different distances from the recorder; the H variometer was closest to the recorder at about 800 mm, with the D and Z variometers at about 1200 mm and 1800 mm respectively. Orientation of the variometers and verification of the torsion constant of the D variometer fibre were performed by the same methods as described in section 3.2.3.

3.3.2 Major adjustments

In July 1970, the variometer slab was reset 8.4 cm lower than the recorder slab. Also, the positions of the variometers were altered. The D variometer is now closest to the recorder at

H scale value / nT mm⁻¹

5.0   4.5   4.0

D scale value / arcmin mm⁻¹

0.93   0.92   0.91

Z scale value / nT mm⁻¹

-4.5   -4.0   -3.5   -3.0   -2.5   -2.0

1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982
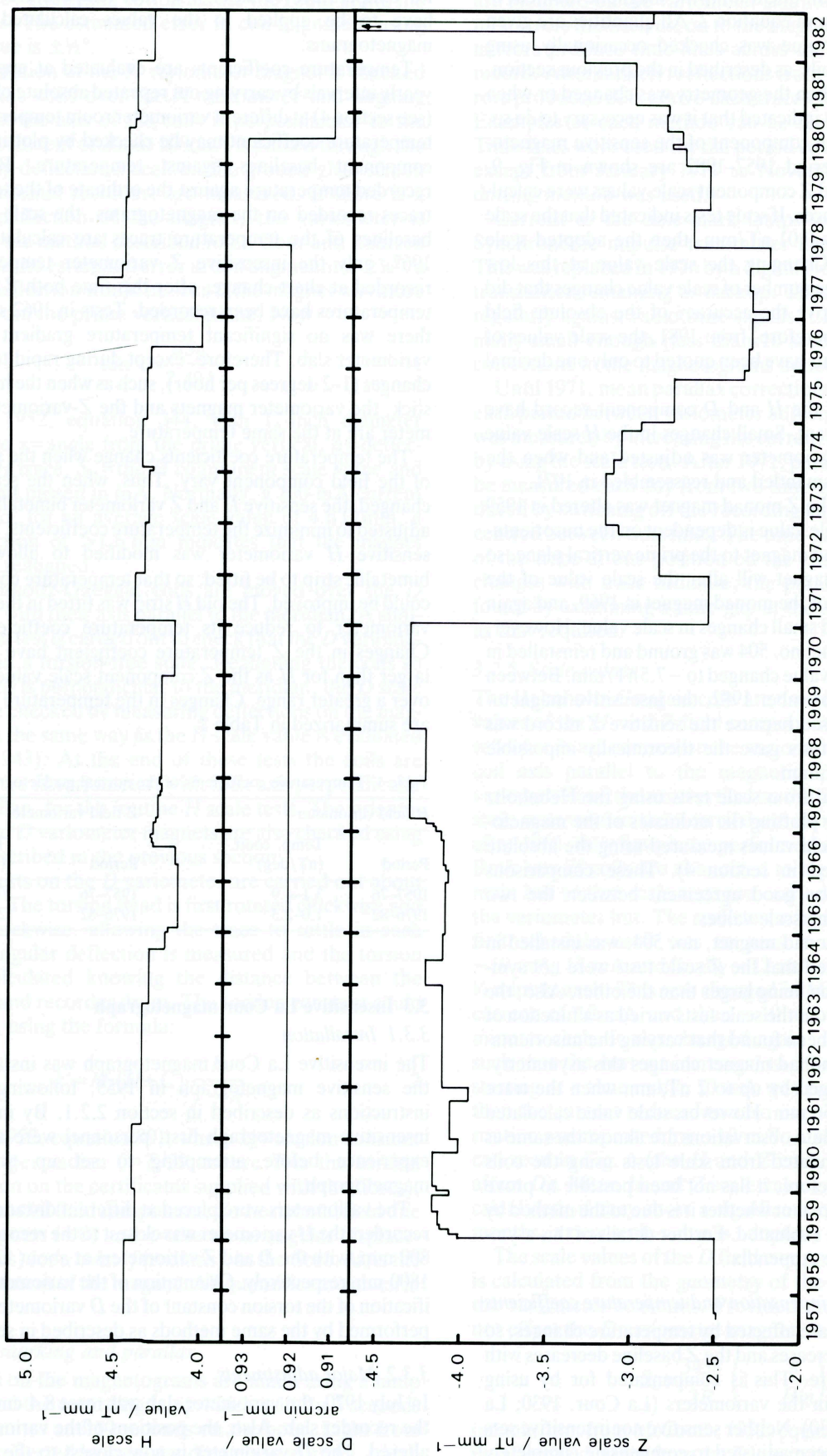
Fig. 9. Scale values of the H, D and Z components of the sensitive magnetogram for the period 1957–1982. Changes are marked to the nearest month. Periods of less than a month between changes have not been shown. From August 1982 to September 1982 the scale value of the vertical field component was greater than was theoretically possible. So the record for this period was considered unreliable and the storm magnetograph record of Z was used instead.

660 mm and the H and Z variometers are 1230 mm and 1875 mm from the recorder, as illustrated in Fig. 3. The order of the magnetogram traces was changed, so that the Z field component is recorded at the top of the magnetogram, H in the middle and D at the bottom. During reassembly, the D variometer fibre was broken and had to be replaced with a spare fibre, No. 264, which has a high torsion constant. Fibre No. 264 was replaced by fibre No. 1454 which had the required small torsion constant, in July 1971. Figs. 10 and 11 show the insensitive La Cour magnetograph before and after adjustment respectively. The other major adjustment to the insensitive La Cour magnetograph, carried out in 1978, was to regrind the Z variometer monad magnet. This was to adjust for the secular variation of that field component.

3.3.3 Orientation and torsion tests

These are carried out nearly every year using the methods described in section 3.2.3.

3.3.4 Time-marking and parallax

Time-marks and time-gaps are produced as described in section 3.2.4. Both time-mark lamps are controlled by the observatory clock. Time-lines have been used for the period covered by this report, except from mid-1970 to July 1977 when time-dots were used. When plane mirrors were reinstalled in July 1977, it was necessary to mount the H and D mirrors on a table next to the variometer slab. In 1979, movement of the prism bar and the Z variometer 3 cm eastwards allowed the time-line mirrors to be placed on the variometer slab. Magnetograms
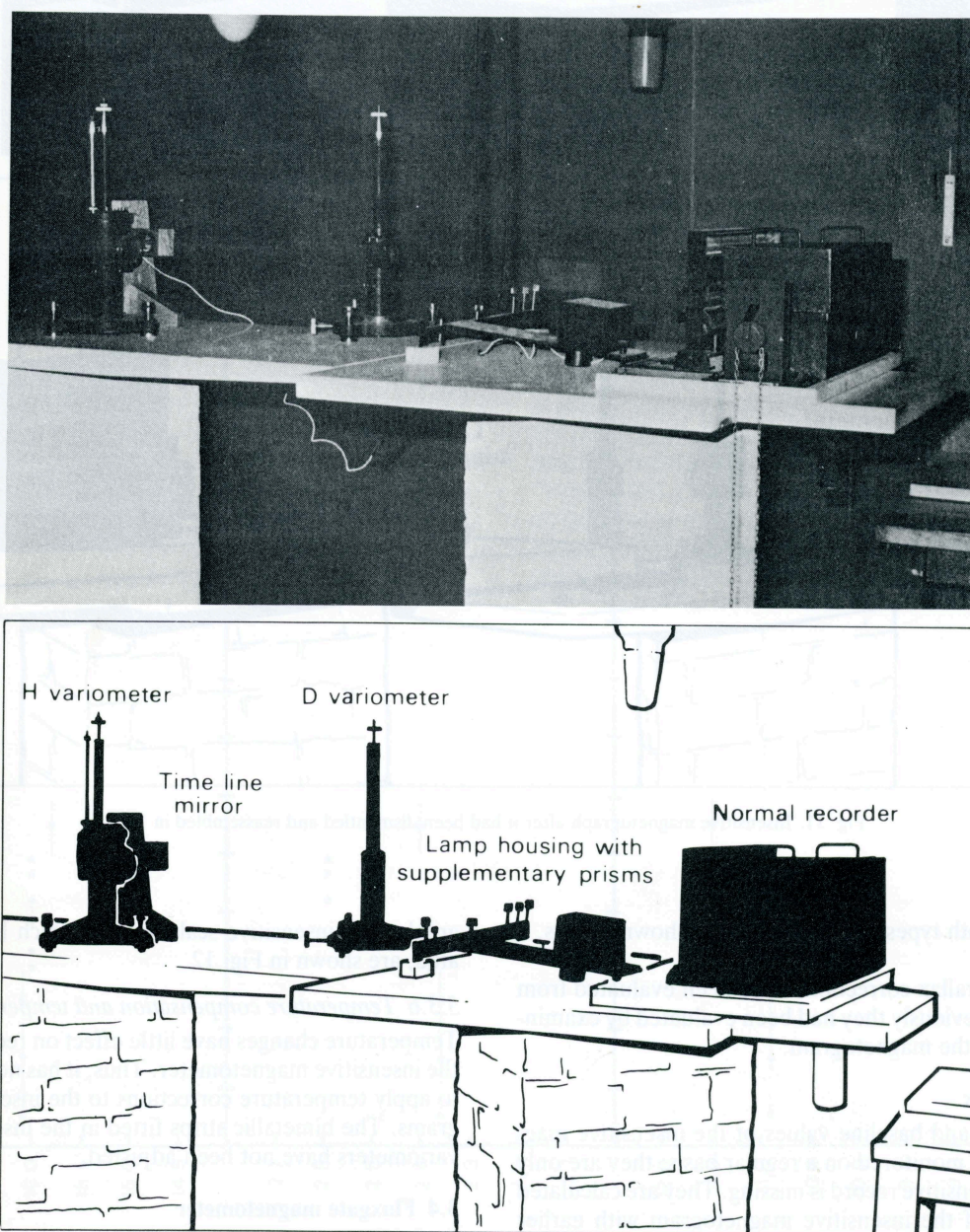
Fig. 10. Insensitive magnetograph before reassembly in 1970. Note that the multiple lamp was canted upwards so that light entered the D variometer. The D variometer prism was also at full lock. The time-mark lamp is beside the H variometer. The Z variometer, off to the left of the picture, was flat on the slab without levelling legs.
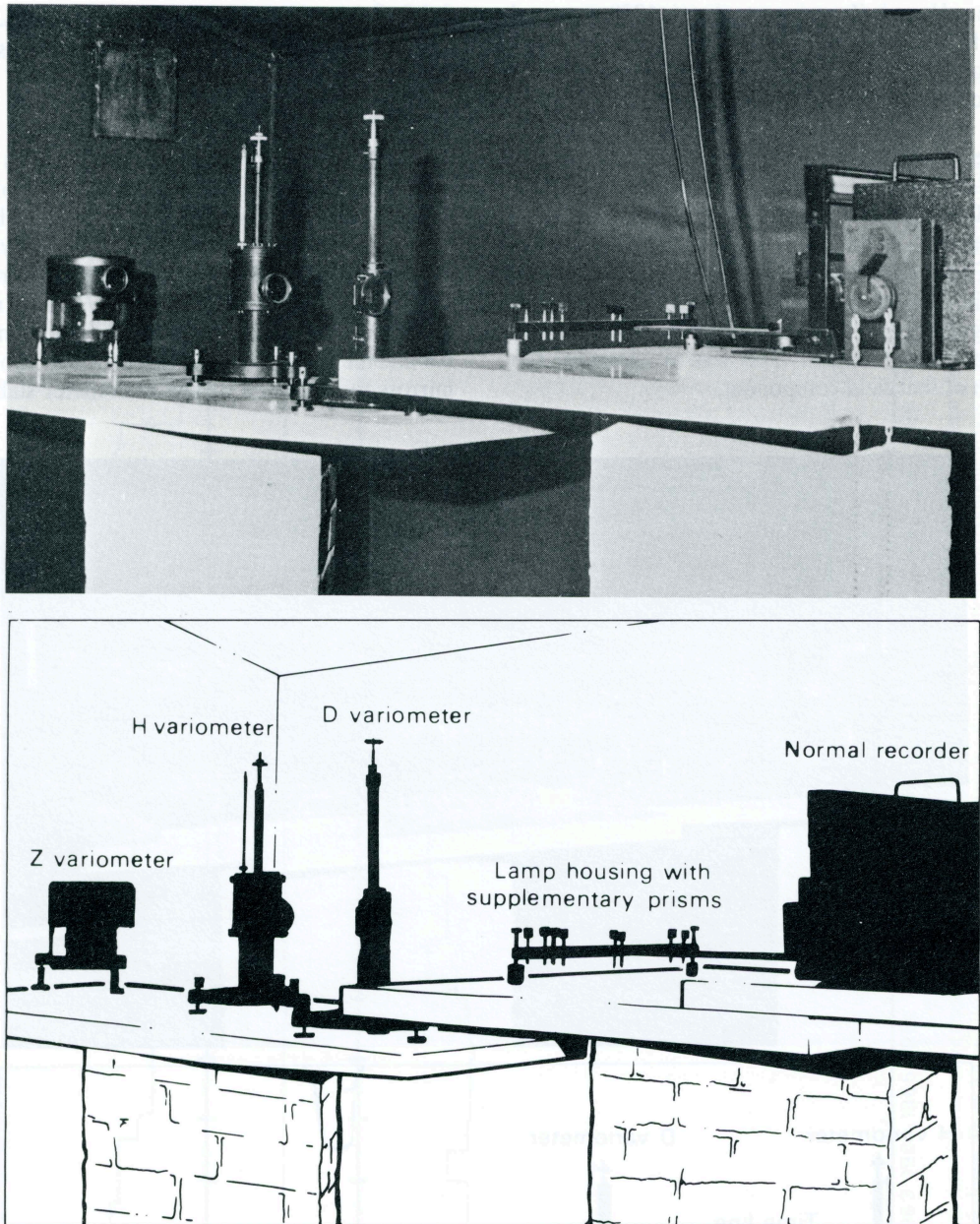
Fig. 11. Insensitive magnetograph after it had been dismantled and reassembled in 1970.

produced with both types of time-marks are shown in Figs. 7 and 8.

After 1971, parallax corrections have been evaluated from the time-gaps. Previously they had been evaluated by examining either end of the magnetogram.

3.3.5 Scale values

The scale values and baseline values of the insensitive magnetogram are not monitored on a regular basis; they are only evaluated if the sensitive record is missing. They are calculated by comparison of the insensitive magnetogram with earlier values obtained using the sensitive magnetogram. About once a year, they are also checked using the Helmholtz-Gaugain coils, which are moved from the sensitive La Cour magneto-

graph. The insensitive scale values, which have been evaluated, are shown in Fig. 12.

3.3.6 Temperature compensation and temperature coefficients

Temperature changes have little effect on records made using the insensitive magnetometer. Thus, it has not been necessary to apply temperature corrections to the insensitive magnetograms. The bimetallic strips fitted in the insensitive H and Z variometers have not been adjusted.

3.4 Fluxgate magnetometer

3.4.1 General description

An EDA three-component fluxgate magnetometer, model FM100B, was installed in March 1974. This instrument
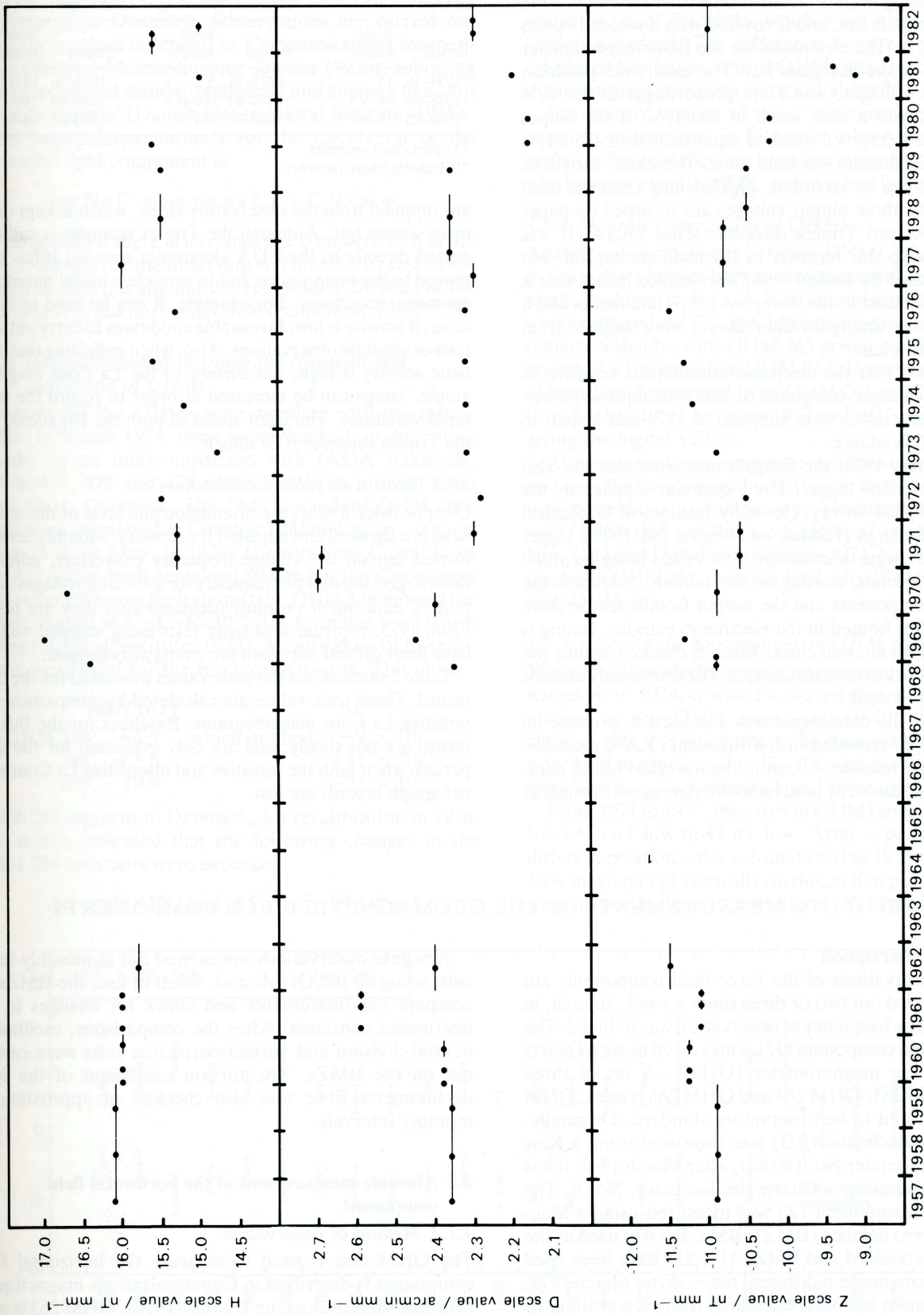
Fig. 12. Scale values of the H, D and Z components of the insensitive magnetogram for the period 1957–82. The dots indicate the scale values calculated and the horizontal bars indicate the period of data used to evaluate the scale values.

measures three orthogonal field components and its sensing head is orientated to monitor the H, D and Z field components. The sensing head is mounted on a concrete block, 30 m from the fibreglass hut, and is covered with a wooden box as shown in Fig. 1. The electronics for the EDA magnetometer are installed in the fibreglass hut. The electronics produces three output voltages, which are proportional to the field components, with a scale value of 50 nT/V. If the output voltage exceed ±9.5 V, which is equivalent to ±475 nT, a latching circuit doubles the scale value. Therefore, variations of ±1000 nT can be recorded. This latching circuit is reset manually. The three output voltages are recorded on paper chart by a Record Triplex recorder, series 270SA. It was planned to keep this recorder in the main station hut, but problems caused by station radio interference meant that it was finally installed in the fibreglass hut. Time-marks and a stabilized power supply for the recorder were supplied from the main station hut.

It was found that the electronic console was sensitive to temperature changes. Integrated circuits with improved temperature characteristics were supplied in 1979 and helped to reduce this dependance.

After January 1980, the fluxgate magnetometer was also connected to a data logger. The logger was supplied by the British Geological Survey, (formally Institute of Geological Sciences) Edinburgh (Riddick and others, 1981). The logger records on to magnetic cassettes, spot values being recorded every thirty seconds, starting on the minute. It records the three field components and the output from a temperature sensor, which is housed in the electronics console. Timing is controlled by an internal clock, which is checked against the observatory clock at cassette changes. The error rarely exceeds two seconds per week.

From 1980, the data logger was also used to produce an analogue output recorded with a Rikadenki KA42 recorder. The Rikadenki recorder is kept in the fibreglass hut to minimize problems caused by local radio interference. Time-marks

Table 2. Fluxgate chart recorder scale values.

H field component (nT/mm)		D field component (arc min/mm)		Z field component (nT/mm)	
Period	Scale values	Period	Scale values	Period	Scale values
†1974–76	15	1974–76	2.2	1974–76	15–17
†1978–80	4–5.5	1978–80	0.6–0.9	1978–80	4–6
*1980–82	8–9	*1980–82	0.6	*1980–82	8–9

†Triplex chart recorder.
*Rikadenki chart recorder.

are supplied from the observatory clock, which is kept in the main station hut. Although the Triplex recorder is still connected directly to the EDA electronics console, it has been moved to the main station hut to provide a useful monitor of geomagnetic activity. For example, it can be used to determine, if activity is low, favourable conditions to carry out scale tests or absolute observations. Also, when indicating that magnetic activity is high, the current to the La Cour magnetographs' lamps can be increased in order to record the more rapid variations. The chart speed of both the Rikadenki and the Triplex recorder is 20 mm/h.

3.4.2 Tests, scale values and baselines
Once or twice a year, the orientation and level of the sensing head are checked and adjusted if necessary. Monthly tests are carried out on the voltage-frequency converters, adjusting them to give the correct frequency for stabilized voltages. They require adjustment on most occasions that they are tested. From 1975, recorder sensitivity tests using stepped voltages have been carried out when the charts are changed.

Table 2 summarizes the scale values evaluated for the chart record. These scale values are calculated by comparison with sensitive La Cour magnetograms. Baselines for the fluxgate record are not steady, and are only evaluated for the short periods when both the sensitive and insensitive La Cour magnetograph records are lost.

4 ABSOLUTE MEASUREMENTS OF THE GEOMAGNETIC FIELD COMPONENTS

4.1 General description
Absolute observations of the three field components are normally carried out two or three times a week, though, in some years, this frequency of observation was reduced. The horizontal field component (H) is measured using a Quartz horizontal-force magnetometer (QHM). A set of three QHMs, QHM 263, QHM 264 and QHM 265 is used; QHM 263 is considered to be observatory standard. Originally, the magnetic declination (D) was measured using a Kew Pattern declinometer No. 140 but, after March 1982, it has been measured using a Quartz declinometer, No. 9. The vertical field component (Z) was measured using a Magnetometric zero balance (BMZ). BMZ 109 was used as the observatory standard and BMZs 110, 231 have been used for comparisons made at different times. After March 1979, the Z component has been calculated from observations of the total field (F) which is measured using a proton precession magnetometer (PPM).

Absolute observations are carried out at monthly intervals, using all the QHMs and, when in use, the BMZs, to compare the instruments and check for changes in the instrument constants. After the comparisons, oscillation, neutral-division and vernier-correction tests were carried out on the BMZs. The torsion coefficient of the Kew declinometer fibre was also checked at approximately monthly intervals.

4.2 Absolute measurement of the horizontal field component
4.2.1 Method of observation
The QHM that is used to measure the horizontal field component is described in Communications magnetiques, l'Institut Meteorologique Danois (1936). QHM 263 is used as the observatory standard, with QHMs 264 and 265 being for comparisons to check for changes in constants of the

instruments. QHMs 263 and 265 have remained at Argentine Islands from 1957 to the present but, from April 1976 until January 1977, QHM 264 was not used as it was being recalibrated in Denmark. Observations are carried out using the method described in Communications magnetiques, l'Institut Meteorologique Danois (1936), following 'the international standard schedule' and keeping to a 'stiff 2 minute scheme' (Danish Meterological Institute, 1978).

The approximate formula for the calculation of the horizontal field component is

$$\log H = C - \log \sin \phi + C_1 t - C_2 H \cos \phi$$

This applies if there is less than one complete turn in the fibre at the start of the observation. Here, C, C_1 and C_2 are constants, ϕ is the angular deflection for a 2π twist in the fibre and H is the horizontal field component, in $nT \times 10^4$.

4.2.2 Determination of instrumental constants and calibration of QHMs

Constants for the QHMs were supplied with the instruments. In March 1974, these were checked, at Argentine Islands, by an intercomparison with IAGA standards, QHMs 477, 478 and 479 which had been brought from Rude Skov, Denmark. The IAGA standard QHM constants were calculated in October 1973 and again, on their return to Rude Skov, in 1974. The constants C_1 and C_2 of the IAGA standards remained steady but the C constants were reduced during their round trip. QHM 479 showed the largest change in C of -6×10^{-5} (for formulae see Danish Meteorological Institute, 1978). Mean values of the constants were used for the intercomparisons. This gave:

	ΔH (nT)		ΔC
for QHM 263	−4.9	which implied	-9×10^{-5}
264	+5.8		$+11 \times 10^{-5}$
265	−10.9		-21×10^{-5}

QHM 264 was sent to Denmark, for recalibration in 1976. The results indicated that the following changes to the QHM 264 constants were necessary

$$\Delta C = +15 \times 10^{-5} \text{ and } \Delta C_1 = -5 \times 10^{-5} \text{ deg}^{-1}$$

These changes, and the changes for QHM 263 and 265 constants, which were calculated in 1973, were adopted from January 1977. In 1981, calibration was checked again, against a set of 2 QHMs, which were brought from the United Kingdom. The difference between the baselines calculated for the two sets of QHMs was less than 5 nT, so the instrument constants were not altered.

The rates of change of the C constants are small compared to instruments in European observatories. This is probably because they are kept at a constant temperature, which rarely exceeds 10°C, and at a low humidity.

4.2.3 Monthly comparison of QHMs

Analyses of comparisons between QHMs 263, 264 and 265 indicate that changes between instrumental constants were small, as shown in Fig. 13. Until the instrument constants were corrected in 1977, the difference between 263 and 265 remained steady, with QHM 265 giving baselines approximately 7 nT higher than QHM 263. However, differences of baselines determined from QHM 263 and 264 increased from 5 nT to 10 nT between 1957 and 1977, with QHM 263 giving the higher values.

Although no thermometer comparisons have been carried out, the baselines indicate that no changes in temperature corrections are necessary. Thermometers supplied with QHMs 263 and 265 were replaced by thermometers Nos. 1543 and 1544. From October 1974, No. 1543 has been used with QHM 263 and from 1964, No. 1544 has been used with QHM 265.

4.2.4 Effect of the Kew magnet on QHM observations

When the Kew declinometer was returned to the United Kingdom in 1978, it was discovered that storing the Kew magnet in the QHM room caused apparent baseline changes. The positions where the Kew magnet and QHM were kept are indicated in Fig. 14, and the times that they were kept in each position (A and B) are given in Table 3.

From 1971 to 1977, the error in QHM baselines increased from 6–8 nT low to 11 nT low. After experimenting with different positions, it was found in May 1979 that, with the Kew magnet kept vertically on the shelf in position A, there were no noticeable baseline effects. The baselines for 1971
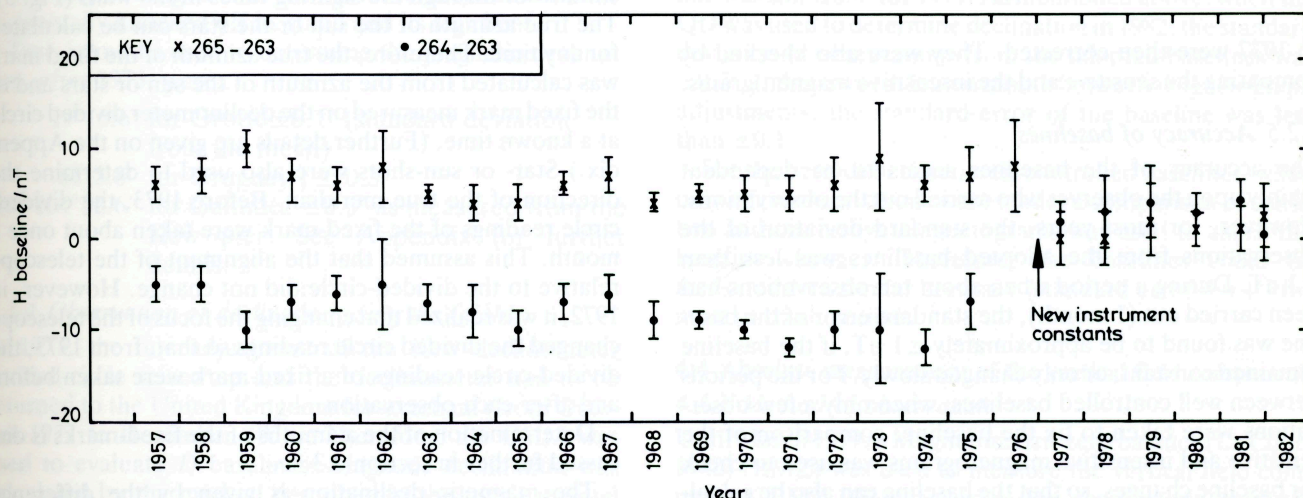
Fig. 13. Mean differences between QHM baselines, with standard deviations, for the period 1957–82 (see text for further details).
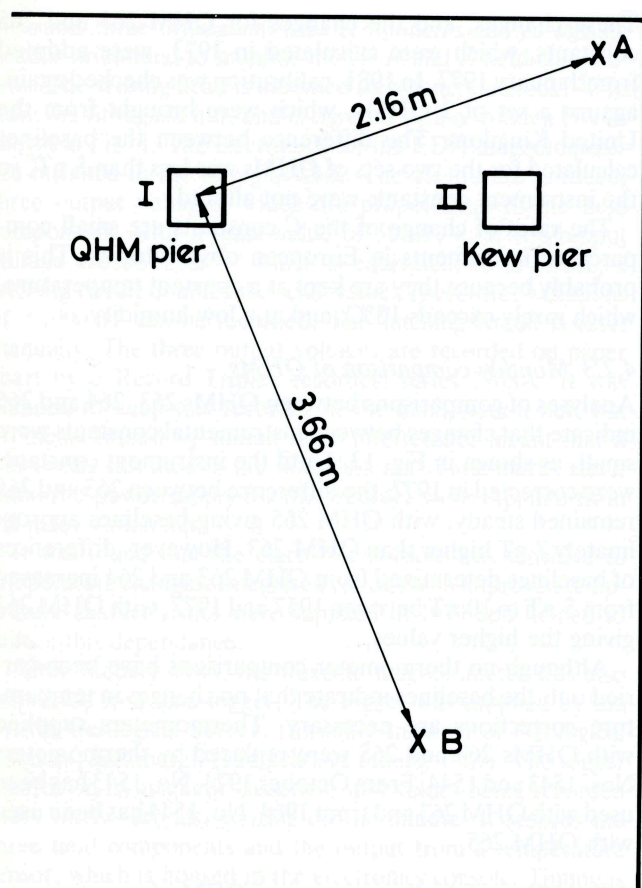
Fig. 14. Positions where the Kew declinometer magnet was stored in the QHM absolute room.

Table 3. Storage positions of Kew declinometer magnet.

	Magnet kept	QHM used
23 November 1971 to 31 December 1977	A (Horizontal)	I
1 January 1978 to 31 December 1978	–	II
2 January 1979 to 28 February 1979	A (Horizontal)	I
1 March 1979 to 11 May 1979	B	I
11 May 1979 onwards	A (Vertical)	I

See Fig. 14.

to 1977 were then corrected. They were also checked by comparing the sensitive and the insensitive magnetograms.

4.2.5 Accuracy of baselines

The accuracy of the baselines seems to be dependent mainly upon the observer who carried out the observations. However, for most years, the standard deviation of the observations from the adopted baselines was less than ±3 nT. During a period when about ten observations had been carried out (1 month), the standard error of the baseline was found to be approximately ±1 nT, if the baseline remained constant, or only changed slowly. For the periods between well controlled baselines, when only a few observations were taken to fix the baseline, comparison of the sensitive and insensitive magnetograms was used to check for baseline changes, so that the baseline can also be calculated to an accuracy of ±1 nT.

Intercomparisons between IAGA standard sets of QHMs and the observatory set of QHMs checks the long term stability of baselines. Although no intercomparisons were carried out until 1974, there was little difference (maximum −5 nT change) between instruments in the set, for the time from when the QHMs were sent to Argentine Islands in 1957 to when the intercomparisons were first carried out. The intercomparison in 1974 indicated that the necessary corrections were small and that the error due to changes in the instrument constants was between 0 and −5 nT. Further intercomparisons in 1981 indicated that the maximum change from 1974 to 1980 was less than 5 nT.

4.3 Absolute measurement of magnetic declination
4.3.1 Method of observation

Magnetic declination was measured with a Kew pattern declinometer, No. 140. This instrument was replaced, in March 1982, by a Quartz declinometer (QD) No. 9 (Kring Lauridsen, 1980). In 1978, the Kew declinometer was returned to the United Kingdom for overhaul and QHM No. 263 was used to measure magnetic declination for that year. Measuring the magnetic declination using the QHM and with the QD are discussed in sections 4.3.4 and 4.3.5 respectively; the use of the Kew declinometer is described below.

The Kew declinometer was used to measure the magnetic declination by observing the orientation of a magnet, which is suspended within the instrument. The magnet is fixed to a tube, which has a glass graticule fitted in one end. By observing the graticule with the telescope, the orientation of the magnet/tube assembly was read on the divided circle. Knowing the divided circle reading of the true meridian, the magnetic declination was then calculated.

As the axis of the tube may not be aligned with the magnetic axis of the magnet, observations were taken twice with the magnet/tube assembly upright and twice with it inverted. The mean of the four observations was used to determine the average declination eliminating the effect of misalignment between the magnet and the tube.

Determining the divided-circle reading of the true meridian was crucial. This was done by taking readings with the telescope pointing at a fixed mark, viewed through the window or through the sighting tubes in the walls (Fig. 3). The true azimuth of the sun or the stars can be calculated for any time. Therefore, the true azimuth of the fixed mark was calculated from the azimuth of the sun or stars and of the fixed mark measured on the declinometer divided circle at a known time. (Further details are given on the Appendix.) Star- or sun-shots were also used to determine the direction of the true meridian. Before 1973, the divided-circle readings of the fixed-mark were taken about once a month. This assumed that the alignment of the telescope relative to the divided-circle did not change. However, in 1972, it was realized that changing the focus of the telescope changed the divided circle readings so that, from 1973, the divided-circle readings of a fixed-mark were taken before and after each observation.

Determination of the azimuths of the fixed-marks is discussed further in section 4.3.3.

The magnetic declination is given by the difference between the mean vernier reading when the magnet is at

rest and that of the true meridian, plus the torsion correction if needed. The true meridian vernier reading was given by the difference between the mean fixed mark vernier reading and the true azimuth of the fixed mark. The torsion correction is half the angle through which the fibre has turned during the observation, multiplied by the torsion constant.

4.3.2 Torsion corrections
Before and after each observation, the angles at which the bob settled were noted. If the two angles were different, the fibre had been under tension during the observation and a torsion correction was needed. Before December 1959, a double unspun silk suspension was used. After 1959, the Kew declinometer was used with a double nylon suspension. Both types of suspension had torsion coefficients of about 1 arc min per degree. The torsion coefficient was determined at approximately monthly intervals and, for a few months after a fibre was replaced, it was checked more frequently.

4.3.3 Fixed-marks and determination of the true meridian
Three fixed-marks have been used at Argentine Islands geomagnetic observatory. The positions of these marks are shown in Fig. 1. The first, Grotto, was used from 1957 to 1969. From 1967 to 1969, snow accumulation on Grotto Island restricted its use; therefore, a new mark was erected on Galindez Island, which was used when the Grotto fixed-mark was obscured. The most recent mark, known as Uruguay j, was erected on Uruguay Island in October 1969. Since then, it has been used for all observations, except in poor visibility when Galindez was used.

The true azimuth of the Grotto fixed-mark was determined by, and later checked by, taking sun and star shots. When first erected, the azimuths of the other two fixed-marks were calculated from the fixed mark bearings, which were measured on the Kew divided-circle. These calculated azimuths were subsequently confirmed by sunshots.

The divided-circle readings of the true meridian used from 1957 to 1973, were:

175°50.8′ for 1957 to August 1965
and 175°56.8′ for August 1965 to 1973.

The angle changed in 1965, when the declinometer was accidentally knocked off its stand and its legs bent.

True azimuths used to determine the magnetic declination, after 1973, were:

19°15.6′ for Grotto±0.1′ (standard deviation from the mean)
61°3.8′ for Uruguay j ± 0.3′
and 104°32.6′ for Galindez ±0.3′ as measured from the Kew pier. See Appendix for further details.

4.3.4 Observation of declination using the QHM
In 1977, the fine adjustment of the Kew declinometer divided-circle seized up and the declinometer had to be returned to the United Kingdom for overhaul (from October 1977 to December 1978). Therefore, the QHM was used to evaluate D baselines. Magnetic declination was calculated by the method described in the user's manual (Danish Meteorological Institute, 1978). This method gave

a standard deviation of baseline observations of ±0.4′ from the adopted baselines, similar to the error obtained when using the Kew declinometer.

When observations using the QHM started, there was an apparent jump of 1.1′ in the baseline. Intercomparisons of normal and storm magnetograms showed that this jump was not real, so a correction of 1.1′ was applied to the baseline for the period when the QHM was used.

4.3.5 Observation of declination using the Quartz declinometer
The Quartz declinometer (QD) (Kring Lauridsen, 1980) replaced the Kew declinometer in March 1982. The QD uses the same principle as the Kew declinometer, except that a mirror, mounted on the side of the magnet, is used to align the telescope at 90° to the magnetic axis instead of the telescope being aligned with the magnet's magnetic axis. As its name suggests, the QD magnet is suspended from a quartz fibre.

Observations with the QD are taken, four times with the magnet in the erect position, and then four times with it in the inverted position, the mean azimuth of the magnet is then calculated. Torsion of the fibre is checked before and after the observation using a bar of the same weight as the magnet, but a torsion correction is rarely required. Each month, the dip angle of the magnet and of the mirror-normal are checked. During 1982, the dip-angle of the mirror-normal only required adjustment once.

4.3.6 Accuracy of baselines
When the Kew declinometer was first used, the standard deviation of observations from the adopted baselines was approximately ±0.2′. The standard deviation from the baseline varied from year to year, which is probably attributable to different observers. However, deterioration of the instrument caused the standard deviation of observations to increase with time. In 1974–1976, the standard deviation from the baseline was approximately ±0.4′. For 1978, the QHM was used to produce D baselines, as described above. The Kew declinometer was returned to Argentine Islands in 1979 but no improvement in baseline scatter was achieved; the standard deviation from the baseline was still ±0.4′ for 1979. As mentioned above, when the QD was used to determine declination in 1982, the standard deviation of observations from the adopted baselines was ±0.3′. If there was at least a month between magnetograph adjustments, the standard error of the baseline was less than ±0.1′.

For the periods between well-controlled baselines, when only a few observations were made, a comparison of sensitive and insensitive magnetograms was used to check the baseline changes. Therefore, the baselines could be measured to a similar accuracy (standard error ±0.1′) for most of these periods.

4.4 Absolute measurement of the vertical field component
4.4.1 Method of observation
Until March 1979, a Magnetometric zero balance (La Cour, 1942) (BMZ) was used to measure the vertical field component. BMZ 109 was used as the observatory standard, with BMZs 110 and 231 being used for comparisons. BMZ

110 was used at Argentine Islands with BMZ 109 from June 1957 until 1959 and from 1973 until 1977, after recalibration in the UK. BMZ 231 was supplied in 1960 and was used for comparisons until March 1979. From March 1979, a proton precession magnetometer (PPM) was used to determine the vertical field component (see section 4.5).

Observations were made with the BMZ using a method described by La Cour (1942); eight measurements of the vertical field component were made at one-minute intervals. The temperature of the field magnet was recorded one minute before the observations, at each observation and one minute after the observations. ΔT was determined by taking two-minute differences. Calculation of the Z-field component from the BMZ observations is described by La Cour (1942).

4.4.2 Comparison of BMZs

BMZ comparisons were carried out at monthly intervals. The yearly averages of the differences between the baselines calculated using BMZ 109 and the other BMZs are shown in Fig. 15. The large differences between 109 and 110 observed in 1957 and 1958 were clearly unsatisfactory. A new field magnet, 110A, was supplied in 1959 and used with BMZ 110. However, this combination gave even larger differences and, from 1960, BMZ 231 replaced BMZ 110. From 1961 to 1967, the field magnet from BMZ 110 was used with BMZ 231 and is referred to as BMZ 231/110, from 1961 to 1967. Although each BMZ should only be used with the field magnet supplied with it for absolute

measurements, it could be used in this configuration for making comparisons.

In early November 1964, BMZ 231 was moved with the monad magnet in an unclamped position, which resulted in an apparent shift in the baseline that were calculated from BMZ 231 observations.

BMZ 110 was recalibrated and returned to Argentine Islands in 1973, but was damaged in May 1976, increasing the 110–109 difference. Further damage, in March 1977, caused the 110–109 differences to become erratic, varying between +40 nT and +110 nT, so it was returned to the United Kingdom at the end of 1977. The difference between BMZs 110 and 109 decreased rapidly during the period from 1973 to when it was damaged. However, as the difference between BMZs 231 and 109 do not show a similar change it was assumed that the instrument constants of BMZ 109 did not alter during this time.

After some comparisons, a small baseline change was seen, but comparison of sensitive and insensitive magnetograms show no such change. These apparent changes are probably caused by changes in distance between either the field magnet or the supplementary magnet and the monad magnet. The ends of the field magnet, or of the supplementary magnet, which are screwed to the body of the BMZ, may not be clean. If their distance from the monad magnet varies the compensating field which they produce at the monad magnet will vary also. These variations are random, so mean values of several comparisons will give the correct field component values.
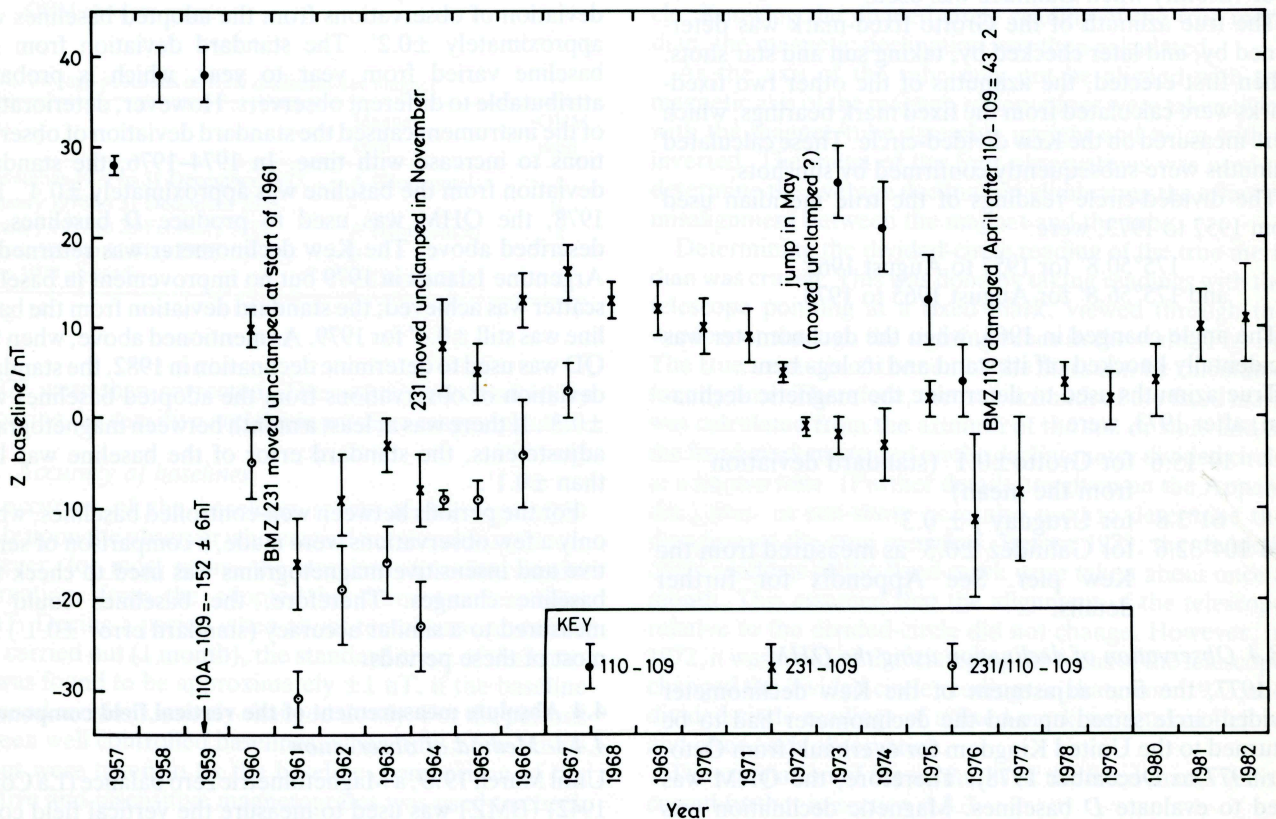
Fig. 15. Mean differences for each year between BMZ baselines, for BMZs 110, 231 and 231/110 relative to the baselines calculated from measurements using the observatory standard BMZ 109.

4.4.3 Other monthly tests

In addition to comparisons, oscillation and vernier correction tests were carried out monthly. After 1965, neutral division tests were also carried out at monthly intervals.

Ten oscillations with the monad magnet facing north, south and east were timed. The east-facing period was calculated from the north- and south-facing periods and compared with the measured period (La Cour, 1942). The neutral division was also calculated from these periods (La Cour, 1942).

The period in the east-facing position gave an indication of any changes in the monad magnet, such as a change in centre of gravity due to corrosion. The results of the monthly tests indicate that none of the monad magnets have changed.

The vernier correction was evaluated by noting the turn magnet readings at position A and B, (La Cour, 1942). The mean of the normal pointing (position A) and $(360° -$ abnormal pointing) (position B) reading, gave the vernier correction.

Neutral-division positions also have remained constant. The results of these tests indicate that the constants of BMZ 109 have not changed during the time that it has been used as the observatory standard.

4.4.4 Accuracy of baselines

When BMZ 109 was in use, the standard deviation of observations from adopted baselines, was ±2–3 nT. Therefore, the standard error of the baseline was normally less than ±1 nT (under the same conditions as described in sections 4.2.5 and 4.3.6).

4.5 Absolute measurement of the total field and subsequent determination of the vertical field component

4.5.1 Method of observation

In 1962, the first instrument measuring the total field, F, a Venner proton precession magnetometer (PPM), was installed at Argentine Islands observatory. A Helmholtz coil system, which produced a uniform field to back-off one field component, was used to measure the perpendicular field component. After problems with stability and maintaining a level base for the coils, it was returned to the United Kingdom in 1964. Another similar Venner PPM was installed in 1967, but suffered from the same problems.

In 1968, an Elsec PPM was taken to Argentine Islands and, despite suffering from mains interference, was used to check Z baselines. This was done by the $F^2 = H^2 + Z^2$ method, described below, where H is the horizontal component of the geomagnetic field and Z is the vertical component.

From 1977, a Barringer Research PPM (GM122) was used to determine the Z component from the total field measurement and, after March 1979, it replaced BMZ 109 as the observatory standard. The sensing head was first mounted in the fibreglass hut but, with the installation of seismology equipment in December 1977, it had to be re-sited approximately 20 m west of the fibreglass hut. It was moved to its present site, between the magnetics huts, in October 1980 (See Fig. 1). Using the Barringer Research

PPM, ten readings of the total field (F) are taken over a one-minute period and the mean value of F is calculated. Then, using the provisional baselines, the H-field component is calculated from the magnetograms for the beginning and end of the PPM observation. After applying the site-difference correction from the variometer hut to the PPM head, Z is calculated from:

$$Z = (F^2 - H^2)^{1/2}$$

Applying the site-difference correction to the Z-field component between the PPM and the variometer hut, the value for the Z component at the BMZ pier is calculated and the baselines for the magnetograms are derived.

4.5.2 Site differences

Site differences for each position were determined by simultaneous observations with the BMZ, QHM and PPM. The corrections for the various configurations of the system are as follows:

(a) for the head in the fibreglass hut, determined in May and October 1977

$$\Delta H = -18 \text{ nT}$$

and

$$\Delta Z = +2 \text{ nT}$$

(b) when the triplex recorder was removed from the hut

$$\Delta H = 10 \text{ nT}$$
$$\Delta Z = -1 \text{ nT}$$

(c) after moving the head to the west of the fibreglass hut

$$\Delta H = +2 \text{ nT}$$
$$\Delta Z = -3 \text{ nT}$$

(d) and to the east of the fibreglass hut, between the two huts

$$\Delta H = +3 \text{ nT}$$
$$\Delta Z = -4 \text{ nT determined in October 1980}$$

Here ΔH is the difference in H, moving from the variometer hut to the PPM head, and ΔZ is the difference in Z, moving back again.

4.5.3 Accuracy of baselines

The H baselines, derived at the time of observing the total field given by the PPM, are used to determine the Z baseline. This method has the advantage, over using the finally adopted baselines, as any changes in baselines are quickly identified and investigated. Also, there is no difference in the accuracy of the resultant Z baseline. For 1979, the standard deviation of observations from the Z baseline determined by both methods was ±2 nT. (For the same period using BMZ observations it was ±3 nT.)

If the period between baseline changes is at least a month, the standard error of the baseline is less than ±1 nT. As before, if a period when few observations were taken to fix the baseline is preceded and followed by periods of well-controlled baseline measurements, comparison of sensitive and insensitive records can be used to calculate the baseline to a similar accuracy.

5 COMPUTATION OF ABSOLUTE HOURLY VALUES OF THE FIELD COMPONENTS

5.1 Method

The mean absolute values of the three field components, *H*, *D* and *Z*, are calculated for each hour and are sent to the World Data Centres. These values are calculated from the mean hourly ordinates that are measured from the baselines on the sensitive magnetogram. Where the sensitive magnetograph record was lost, insensitive or fluxgate records are used to calculate the mean absolute-hourly values. The baseline values and the scale are used with the mean ordinates to calculate the absolute value of the field components for each hour.

5.2 Measurement of mean hourly ordinates

Before 1964, the mean hourly ordinates were scaled by hand. From 1964, the co-ordinates of the field component traces and of the baselines have been measured using a digitizing table, which is interfaced to a PDP11 computer. Co-ordinates of traces and baselines are measured and stored, with a resolution of 0.001″ (0.0025 mm). Baseline co-ordinates are selected for each hour, but the frequency of trace digitizing depends on the level of geomagnetic activity. This digitizing frequency is high enough for the trace to be defined by linear interpolation between the selected points. At least five or six samples for each field component are selected for a quiet hour, but twenty or more are needed for a disturbed hour. The PDP11 computer is then used to produce files of the mean hourly ordinates. If short sections of the sensitive record are lost (<20 minutes), the insensitive magnetogram or the fluxgate records are used to interpolate the missing sensitive magnetogram traces. For longer periods, the insensitive magnetogram or the fluxgate chart records are digitized.

5.3 Scale value and baseline assignment

The scale values are evaluated, as described in section 3.2.5, and baselines are calculated from absolute observations (see sections 4 and 3.1). Discrete steps in the baseline plots are checked to ensure that they coincided with adjustments made to the magnetograph. The size of these steps are checked by comparison of the sensitive magnetogram with the insensitive magnetogram or with the fluxgate record. A linear best fit is made to the baseline measure-

ments and, if it slowly drifted by a few nT over several months, it is redefined as steps of 1 or 2 nT, changing at 2400 UT. Fig. 16 shows the baselines for 1981, which is a typical year. The adopted baselines are indicated by the unbroken line.

Until 31 December 1978, the temperature dependent *H*- and *Z*- baselines were corrected to baselines at a standard temperature, usually 0°C. Then, the magnetogram temperature ordinates were used to measure the temperature at a particular hour and the baselines at that temperature were calculated using the temperature coefficients (see section 3.2.6). In practice, the temperature changed very little. Therefore, from 1 January 1979, the ambient temperature baselines (not corrected to 0°C) have been used for the periods when the hut was kept at a steady temperature. Temperature corrections are only applied for the periods when adjustments were made and the temperature raised, or for occasions when there was heater or thermostat failure. Every few years, the baselines and scale values are reviwed to check that there are no erroneous long-term changes in the values used.

5.4 Final computation of absolute hourly values

The computer files of mean hourly ordinates are checked against the records themselves to ensure that the ordinates of traces produced by the supplementary prisms have been corrected. Then, for short periods up to a day or so of a missing sensitive record, the insensitive magnetogram or fluxgate ordinates are converted to sensitive ordinates. A graph to convert these ordinates is drawn by comparing the records made either side of the missing period or, if an adjustment had been made, on one side only. For longer periods, when the insensitive magnetograms or the fluxgate charts are used, baselines for these records are calculated from the absolute observations. The scale values for the insensitive magnetograms or the fluxgate record are calculated by comparison of records or by plotting absolute field measurements against ordinates. All the baselines and scale values, with dates of change of the type of record used, are used by a computer program that converts the files of mean ordinate values to files of mean absolute hourly values. These results are checked and sent to the World Data Centres.

6 ERRORS IN THE MEASUREMENT OF THE FIELD COMPONENTS

Errors have been evaluated for three ways in which the sensitive magnetograms are often used to study the geomagnetic field. These are to study:

(a) the diurnal range of the field components, if used as variation data;

(b) the range of the field components over periods greater than a day when baselines may have changed (interdiurnal range), and

(c) the measurement of absolute values of the field components.

For case (a) the sources of error that were considered were those associated with the scale value and a possible temperature variation which was not compensated. The error in the baseline determination will not normally contribute in this case and was not considered. For case (b), in addition to the possible causes of error considered in case (a), the error associated with the baseline was also considered. For case (c), all the causes of error mentioned above were considered, in addition an estimate of the error in the field values measured using the absolute instruments was included in the calculation. Errors have been evaluated for
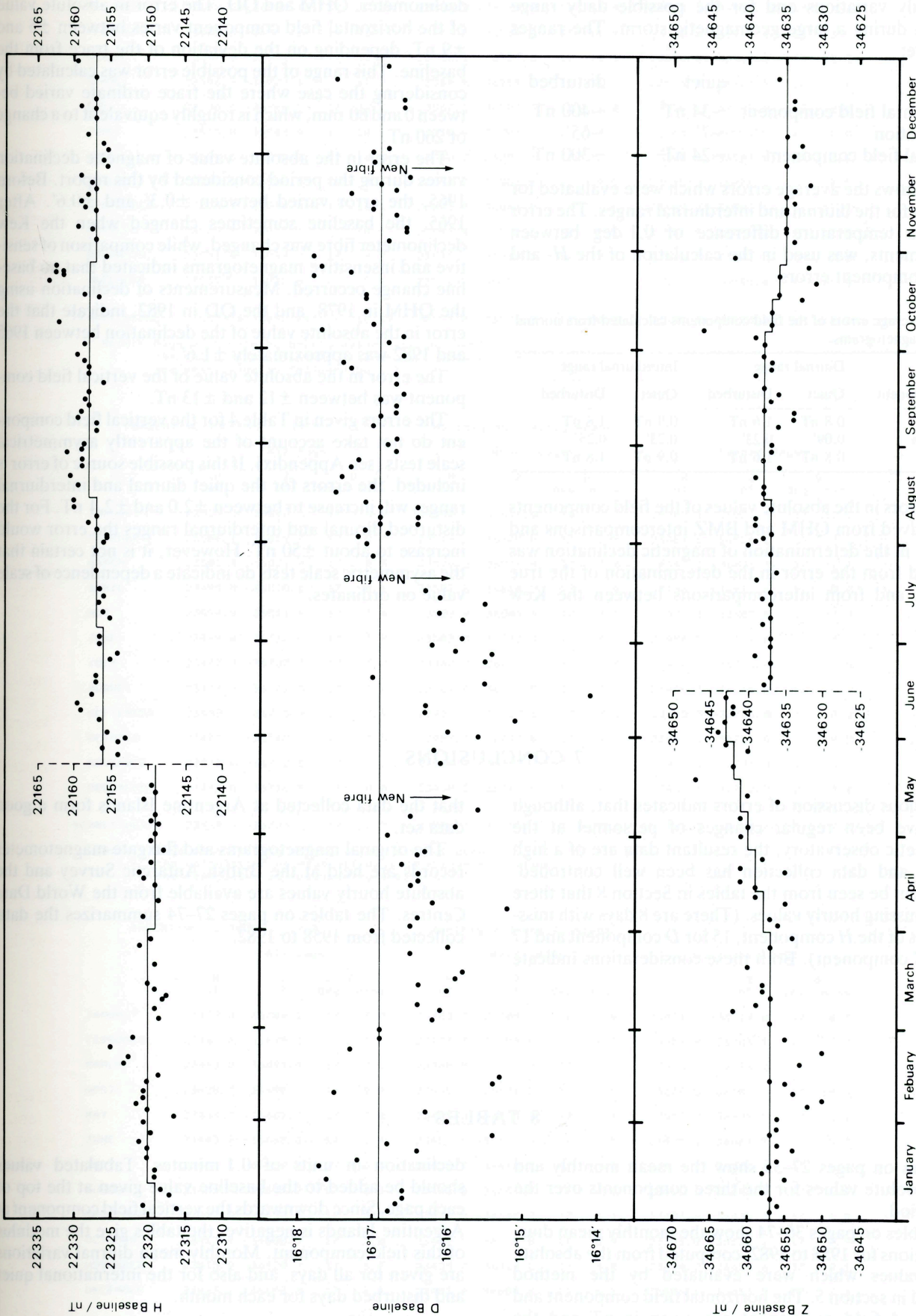
Fig. 16. Baseline plots for the three field components for 1981. The adopted baselines used for calculated field components are marked by the solid lines and the absolute observations by dots. The baseline jumps on May 22 and June 15 were caused by adjustment to the variometers. Times when the suspension in the Kew declinometer was broken are marked by arrows. Careful examination of the declination record shows that there were no real changes in the baseline when the Kew fibre was replaced; hence the adopted D baseline remained constant. It should be noted that the H and Z component baselines have not been corrected to 0°C.

quiet daily variations and for the possible daily range observed during a large geomagnetic storm. The ranges used were:

	quiet	disturbed
Horizontal field component	~34 nT	~400 nT
Declination	~7′	~65′
Vertical field component	~24 nT	~300 nT

Table 4 shows the average errors which were evaluated for each year for the diurnal and interdiurnal ranges. The error due to a temperature difference of 0.1 deg between measurements, was used in the calculation of the H- and Z-field component errors.

Table 4. Average errors of the field components calculated from normal magnetograms.

Field component	Diurnal range		Interdiurnal range	
	Quiet	Disturbed	Quiet	Disturbed
Horizontal	0.8 nT	1.6 nT	0.9 nT	1.8 nT
Declination	0.09′	0.23′	0.23′	0.25′
Vertical	0.8 nT	1.6 nT	0.9 nT	1.8 nT

The errors in the absolute values of the field components were derived from QHM and BMZ intercomparisons and the error in the determination of magnetic declination was estimated from the error in the determination of the true meridian and from intercomparisons between the Kew declinometer, QHM and QD. The error in absolute value of the horizontal field component varies between ±5 and ±9 nT, depending on the deviation of the trace from the baseline. This range of the possible error was calculated by considering the case where the trace ordinate varied between 0 and 60 mm, which is roughly equivalent to a change of 260 nT.

The error in the absolute value of magnetic declination varies during the period considered by this report. Before 1965, the error varied between ±0.3′ and ±0.6′. After 1965, the baseline sometimes changed when the Kew declinometer fibre was changed, while comparison of sensitive and insensitive magnetograms indicated that no baseline change occurred. Measurements of declination using the QHM in 1978, and the QD in 1982, indicate that the error in the absolute value of the declination between 1965 and 1982 was approximately ±1.6′.

The error in the absolute value of the vertical field component was between ±12 and ±13 nT.

The errors given in Table 4 for the vertical field component do not take account of the apparently asymmetrical scale tests (see Appendix). If this possible source of error is included, the errors for the quiet diurnal and interdiurnal ranges will increase to between ±2.0 and ±2.4 nT. For the disturbed dirunal and interdiurnal ranges the error would increase to about ±50 nT. However, it is not certain that the asymmetric scale tests do indicate a dependence of scale value on ordinates.

7 CONCLUSIONS

The previous discussion of errors indicates that, although there have been regular changes of personnel at the geomagnetic observatory, the resultant data are of a high standard and data collection has been well controlled. Also, it can be seen from the tables in Section 8 that there are few missing hourly values. (There are 8 days with missing values of the H component, 15 for D component and 17 for the Z component). Both these considerations indicate that the data collected at Argentine Islands form a good data set.

The original magnetograms and fluxgate magnetometer records are held at the British Antarctic Survey and the absolute hourly values are available from the World Data Centres. The tables on pages 27–74 summarizes the data collected from 1958 to 1982.

8 TABLES

The tables on pages 27–35 show the mean monthly and yearly absolute values for the three components over the same period.

The tables on pages 36–74 show the monthly mean diurnal variations for 1958 to 1982, computed from the absolute hourly values which were evaluated by the method described in section 5. The horizontal field component and the vertical field component are given in nT and the declination in units of 0.1 minutes. Tabulated values should be added to the baseline value given at the top of each page. Since downwards the vertical field component at Argentine Islands is negative, the tables give the modulus of this field component. Monthly mean diurnal variations are given for all days, and also for the international quiet and disturbed days for each month.

ARGENTINE ISLANDS   1958   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23578.5*	-36936.4*	17	12.3*	23586.8	-36939.0	17	11.9	23564.3*	-36945.3*	17	13.6*
FEBRUARY	23561.0	-36932.0	17	12.7	23573.0	-36929.8	17	11.8	23532.6	-36928.6	17	13.4
MARCH	23547.0	-36931.7	17	12.4	23556.1	-36927.5	17	11.4	23534.8	-36933.5	17	13.2
APRIL	23546.3	-36922.1	17	11.7	23564.0	-36919.2	17	11.2	23536.0	-36922.4	17	12.0
MAY	23546.6	-36910.5	17	11.2	23562.5	-36907.5	17	11.0	23529.7	-36908.9	17	12.0
JUNE	23535.8	-36903.4	17	10.5	23550.4	-36903.1	17	10.6	23504.8	-36904.5	17	11.0
JULY	23529.6	-36898.7	17	10.3	23540.2	-36898.1	17	10.4	23500.9	-36903.9	17	11.9
AUGUST	23534.4	-36880.4	17	9.6	23543.2	-36883.3	17	9.5	23515.9	-36876.1	17	9.5
SEPTEMBER	23524.4	-36874.8	17	10.1	23541.0	-36867.9	17	9.4	23489.3	-36881.5	17	11.5
OCTOBER	23529.3	-36855.3	17	10.1	23543.4	-36855.1	17	9.5	23501.5	-36856.2	17	12.3
NOVEMBER	23541.4	-36839.2	17	9.2	23543.5	-36841.1	17	9.2	23535.8	-36843.7	17	9.0
DECEMBER	23535.1	-36832.8	17	9.9	23541.2	-36829.9	17	9.5	23523.2	-36848.4	17	11.4
YEARLY MEANS	23542.3*	-36892.8*	17	10.8*	23553.8	-36891.8	17	10.4	23521.7*	-36895.3*	17	11.7*

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1959   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23529.2	-36818.6	17	8.9	23542.3	-36811.0	17	7.6	23509.1	-36831.3	17	11.1
FEBRUARY	23508.1	-36819.7	17	8.7	23514.8	-36820.8	17	7.9	23489.6	-36826.1	17	9.6
MARCH	23502.4	-36821.4	17	8.3	23520.3	-36816.4	17	7.0	23449.7	-36831.1	17	11.1
APRIL	23494.4	-36818.1	17	8.1	23507.8	-36814.2	17	7.4	23480.2	-36817.6	17	8.7
MAY	23494.9	-36811.6	17	7.4	23503.4	-36809.4	17	7.5	23482.1	-36807.0	17	7.3
JUNE	23499.0	-36792.0	17	7.0	23503.8	-36792.0	17	6.9	23480.5	-36789.6	17	7.9
JULY	23477.3	-36787.3	17	7.7	23488.9	-36786.1	17	7.6	23430.9	-36796.4	17	10.0
AUGUST	23477.9	-36772.5	17	7.6	23489.5	-36771.9	17	7.2	23455.3	-36765.0	17	7.9
SEPTEMBER	23468.9	-36765.4	17	7.9	23481.6	-36767.6	17	7.6	23445.5	-36761.0	17	8.2
OCTOBER	23477.3	-36748.2	17	7.5	23487.7	-36747.0	17	6.9	23456.1	-36756.4	17	8.8
NOVEMBER	23473.0	-36732.8	17	7.6	23484.2	-36732.4	17	7.3	23452.1	-36735.4	17	8.2
DECEMEER	23477.8	-36718.9	17	8.0	23488.2	-36718.5	17	7.1	23466.8	-36722.2	17	9.0
YEARLY MEANS	23489.9	-36783.6	17	7.9	23501.1	-36782.3	17	7.3	23466.5	-36786.6	17	9.0

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1960   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23478.8	-36709.1	17	7.8	23483.7	-36704.8	17	7.0	23471.3	-36714.0	17	8.7
FEBRUARY	23469.6	-36699.2	17	7.5	23473.7	-36698.9	17	6.7	23459.9	-36703.4	17	7.7
MARCH	23463.0	-36691.4	17	7.2	23468.0	-36691.4	17	6.9	23444.0	-36696.2	17	8.1
APRIL	23428.7	-36698.5	17	8.0	23455.1	-36691.5	17	6.9	23379.8	-36704.7	17	10.0
MAY	23439.7	-36689.7	17	7.0	23455.6	-36684.9	17	6.6	23417.9	-36698.9	17	8.2
JUNE	23443.7	-36668.3	17	5.9	23452.5	-36672.3	17	6.5	23425.5	-36664.9	17	5.7
JULY	23438.1	-36660.9	17	6.3	23450.9	-36660.1	17	6.2	23416.3	-36656.6	17	6.7
AUGUST	23435.9	-36647.2	17	6.3	23448.8	-36646.4	17	6.0	23411.6	-36643.3	17	6.4
SEPTEMBER	23427.8	-36638.5	17	6.2	23436.0	-36640.7	17	6.1	23406.6	-36632.3	17	6.8
OCTOBER	23413.9	-36630.5	17	7.0	23436.1	-36630.0	17	5.9	23381.8	-36622.1	17	7.9
NOVEMBER	23415.9	-36624.2	17	6.7	23425.7	-36623.8	17	6.0	23374.2	-36628.6	17	8.1
DECEMBER	23423.2	-36608.3	17	6.4	23433.9	-36608.9	17	6.1	23406.1	-36613.5	17	7.3
YEARLY MEANS	23439.8	-36663.7	17	6.9	23451.7	-36662.8	17	6.4	23416.2	-36664.9	17	7.6

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1961   Monthly and yearly means

                     All days   Quiet days   Disturbed days

            H   Z   D   H   Z   D   H   Z   D
            nT   nT   deg mins   nT   nT   deg mins   nT   nT   deg mins

JANUARY   23427.6 -36593.2   16   5.9   23433.2 -36594.3   16   5.7   23419.2 -36595.6   16   7.1
FEBRUARY   23416.9 -36585.4   16   5.8   23425.0 -36583.1   16   5.2   23414.0 -36587.3   16   6.9
MARCH   23412.5 -36572.5   16   4.8   23419.0 -36574.9   16   4.9   23400.8 -36570.6   16   4.7
APRIL   23406.0 -36565.6   16   4.5   23406.5 -36569.6   16   4.7   23394.6 -36564.4   16   4.8
MAY   23406.0 -36554.0   16   4.2   23409.2 -36555.0   16   4.3   23399.2 -36551.1   16   4.0
JUNE   23402.0 -36542.0   16   4.1   23405.9 -36541.6   16   4.1   23387.6 -36543.4   16   4.3
JULY   23387.9 -36538.7   16   4.5   23394.8 -36538.8   16   4.6   23370.3 -36533.4   16   5.3
AUGUST   23396.0 -36528.4   16   3.8   23398.7 -36529.6   16   3.8   23383.2 -36529.1   16   4.0
SEPTEMBER   23391.9 -36513.0   16   3.8   23399.7 -36512.4   16   3.7   23387.2 -36510.6   16   3.7
OCTOBER   23378.7 -36508.3   16   4.1   23395.5 -36502.0   16   3.4   23352.3 -36512.4   16   5.3
NOVEMBER   23384.3 -36493.7   16   3.7   23390.3 -36488.3   16   3.5   23373.9 -36497.1   16   4.6
DECEMBER   23387.8 -36479.9   16   3.6   23393.3 -36477.0   16   2.9   23374.5 -36484.2   16   5.0

YEARLY MEANS 23399.7 -36539.3 16   4.4   23405.9 -36538.9   16   4.2   23388.1 -36539.9   16   5.0

        Note:- Days with missing hourly values are not used in
               the calculation of means. If days have been excluded
               the mean value is followed by a *.

ARGENTINE ISLANDS   1962   Monthly and yearly means

                     All days   Quiet days   Disturbed days

            H   Z   D   H   Z   D   H   Z   D
            nT   nT   deg mins   nT   nT   deg mins   nT   nT   deg mins

JANUARY   23384.1*-36473.9* 16   3.6*   23384.0 -36474.7   16   3.4   23380.8 -36474.2   16   3.9
FEBRUARY   23379.9 -36462.3   16   3.7   23381.0 -36463.4   16   3.5   23380.3 -36460.5   16   4.0
MARCH   23372.2*-36451.0* 16   3.4*   23374.4 -36450.0   16   3.3   23368.3 -36452.4   16   3.8
APRIL   23362.5 -36445.9   16   3.5   23363.6 -36446.4   16   3.6   23352.3 -36446.2   16   4.0
MAY   23364.5 -36436.7   16   3.1   23370.7 -36434.8   16   2.8   23358.5 -36436.0   16   3.6
JUNE   23361.2 -36424.0   16   2.8   23368.4 -36423.7   16   2.7   23357.3 -36418.8   16   2.5
JULY   23357.0 -36412.7   16   2.8   23360.8 -36412.4   16   2.7   23351.1 -36409.7   16   2.7
AUGUST   23349.3 -36405.6   16   2.7   23355.4 -36408.1   16   2.8   23342.0 -36402.8   16   2.1
SEPTEMBER   23339.0 -36399.0* 16   3.1   23347.0 -36397.1   16   2.8   23335.5 -36396.3* 16   3.2
OCTOBER   23335.6*-36391.8* 16   3.1*   23338.1*-36390.5* 16   2.8*   23331.9 -36391.6   16   3.4
NOVEMBER   23339.4 -36378.5* 16   2.6   23344.3 -36377.5   16   2.2   23331.9 -36376.0   16   2.8
DECEMBER   23338.8 -36368.7   16   2.8   23340.7 -36369.5   16   2.0   23330.7 -36372.2   16   3.9

YEARLY MEANS 23356.8*-36420.6* 16 3.1*   23361.1*-36421.2* 16   2.9*   23351.7 -36420.1* 16   3.3

        Note:- Days with missing hourly values are not used in
               the calculation of means. If days have been excluded
               the mean value is followed by a *.

ARGENTINE ISLANDS   1963   Monthly and yearly means

                     All days   Quiet days   Disturbed days

            H   Z   D   H   Z   D   H   Z   D
            nT   nT   deg mins   nT   nT   deg mins   nT   nT   deg mins

JANUARY   23334.1 -36355.3   16   2.2   23338.0 -36354.7   16   2.3   23324.7 -36354.7   16   2.6
FEBRUARY   23329.2*-36351.6* 16   1.9*   23330.7 -36349.9* 16   1.7*   23320.1 -36356.4   16   2.7
MARCH   23325.6 -36342.4   16   1.6   23325.7 -36341.9   16   1.5   23319.4 -36344.2   16   1.8
APRIL   23318.1 -36337.8   16   1.4*   23318.8 -36338.6   16   1.6   23318.9 -36337.5   16   1.6
MAY   23313.3 -36322.9* 16   1.2   23319.3 -36320.4   16   1.1   23307.0 -36325.3   16   1.5
JUNE   23302.8 -36314.5   16   1.2   23310.7 -36314.2   16   1.3   23287.0 -36312.9   16   1.0
JULY   23305.2 -36302.9   16   1.0   23312.2 -36303.6   16   1.0   23298.3 -36297.9   16   0.8
AUGUST   23296.9 -36293.8   16   1.0   23306.4 -36293.7   16   0.8   23283.9 -36292.3   16   0.9
SEPTEMBER   23279.4 -36290.7   16   1.5   23296.6 -36289.7   16   1.1   23250.9 -36289.4   16   1.1
OCTOBER   23280.2 -36286.6   16   1.4   23285.2 -36289.0   16   1.2   23261.1 -36284.9   16   2.1
NOVEMBER   23283.1 -36277.2   16   1.1   23285.5 -36276.1   16   0.8   23276.5 -36279.2   16   1.8
DECEMBER   23289.0*-36262.0* 16   0.9*   23290.0 -36261.5   16   0.6   23284.1*-36263.4* 16   1.5*

YEARLY MEANS 23304.6*-36311.0* 16 1.4*   23309.9 -36310.5* 16   1.2*   23294.5*-36312.3* 16   1.6*

        Note:- Days with missing hourly values are not used in
               the calculation of means. If days have been excluded
               the mean value is followed by a *.

ARGENTINE ISLANDS   1964   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23281.6	-36254.2	16	0.7	23283.9	-36253.6	16	0.3	23277.0	-36253.6	16	0.8
FEBRUARY	23274.0	-36245.2	16	0.4	23274.2	-36246.4	16	0.2	23272.5	-36243.9	16	0.7
MARCH	23266.9	-36236.7	16	0.3	23269.7	-36235.8	16	0.3	23259.3	-36236.5	16	0.7
APRIL	23259.4	-36231.6	16	0.4	23267.2	-36230.2	16	0.3	23248.3	-36231.8	16	1.3
MAY	23257.4	-36227.3	16	0.3	23262.5	-36229.8	16	0.2	23249.8	-36225.6	16	0.2
JUNE	23255.0	-36216.1	16	59.9	23260.7	-36216.4	16	59.8	23240.3	-36218.9	16	60.0
JULY	23252.0	-36204.5	16	59.6	23254.6	-36202.7	16	59.7	23249.5	-36205.0	16	59.3
AUGUST	23247.2	-36194.6	16	59.5	23248.9	-36194.2	16	59.5	23243.6	-36194.1	16	59.4
SEPTEMBER	23241.9	-36185.6	16	59.5	23246.3	-36184.2	16	59.4	23235.2	-36183.0	16	59.6
OCTOBER	23236.2	-36179.4	16	59.4	23237.2	-36177.7	16	59.4	23233.0	-36178.8	16	58.9
NOVEMBER	23238.6	-36166.8	16	59.1	23235.8	-36166.0	16	59.3	23236.7	-36169.1	16	59.1
DECEMBER	23242.6	-36152.7	16	58.9	23244.2	-36151.0	16	58.8	23245.8	-36153.2	16	58.9
YEARLY MEANS	23254.4	-36207.8	16	59.8	23257.1	-36207.3	16	59.8	23249.2	-36207.8	16	59.9

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1965   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23234.9	-36145.1	16	59.1	23233.7	-36145.6	16	59.2	23235.0	-36146.2	16	59.0
FEBRUARY	23225.1	-36137.6	16	59.1	23228.6	-36138.8	16	58.8	23218.7	-36135.6	16	59.4
MARCH	23217.6	-36133.5	16	59.2	23219.5	-36134.6	16	59.1	23210.3	-36131.7	16	59.1
APRIL	23209.0	-36126.9	16	59.2	23211.5	-36129.8	16	59.4	23194.5	-36120.8	16	59.0
MAY	23207.9	-36118.4	16	59.0	23209.8	-36120.7	16	59.2	23201.7	-36120.2	16	58.9
JUNE	23202.2	-36111.3	16	59.1	23204.7	-36112.9	16	59.1	23189.5	-36109.3	16	0.1
JULY	23200.7	-36101.2	16	58.9	23201.6	-36103.8	16	59.1	23196.8	-36099.3	16	58.5
AUGUST	23195.7	-36092.7	16	59.0	23199.5	-36094.9	16	58.9	23189.5	-36091.7	16	59.3
SEPTEMBER	23187.8	-36084.3	16	59.2	23191.3	-36083.5	16	59.2	23176.9	-36087.0	16	59.8
OCTOBER	23188.7	-36073.1	16	58.7	23188.1	-36075.2	16	58.9	23185.5	-36073.8	16	58.6
NOVEMBER	23187.8	-36062.8	16	58.6	23187.0	-36063.0	16	58.7	23185.0	-36061.9	16	58.9
DECEMBER	23185.8	-36053.4	16	58.8	23187.0	-36051.6	16	58.7	23186.2	-36051.1	16	58.9
YEARLY MEANS	23203.5	-36103.2	16	59.0	23205.2	-36104.5	16	59.0	23197.5	-36102.4	16	59.1

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1966   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	23180.0	-36045.4	16	58.6	23180.6	-36044.9	16	58.4	23175.1	-36044.4	16	58.8
FEBRUARY	23170.6	-36037.9	16	58.6	23172.6	-36037.8	16	58.5	23165.2	-36036.7	16	58.7
MARCH	23158.4	-36035.6	16	58.8	23160.9	-36037.4	16	58.9	23147.1	-36031.8	16	59.2
APRIL	23156.5	-36028.2	16	58.4	23160.7	-36025.0	16	58.3	23149.9	-36029.8	16	58.8
MAY	23150.1	-36016.2	16	58.5	23158.8	-36014.0	16	58.2	23145.3	-36014.6	16	58.7
JUNE	23147.9	-36006.6	16	58.2	23152.1	-36006.3	16	58.1	23140.5	-36009.3	16	58.5
JULY	23141.5	-35993.2	16	58.0	23144.4	-35995.8	16	58.4	23129.6	-35990.1	16	57.6
AUGUST	23137.2	-35993.4	16	57.9	23141.7	-35990.5	16	57.9	23122.2	-35996.7	16	58.6
SEPTEMBER	23119.9	-35992.2	16	58.4	23126.5	-35994.7	16	58.5	23095.2	-35990.9	16	58.6
OCTOBER	23127.8	-35977.9	16	58.2	23133.7	-35977.2	16	58.0	23119.0	-35977.7	16	58.4
NOVEMBER	23129.0	-35962.3	16	57.8	23134.0	-35960.0	16	57.6	23124.5	-35959.6	16	58.4
DECEMBER	23123.1	-35948.7	16	58.0	23130.3	-35946.4	16	57.4	23120.7	-35947.3	16	58.1
YEARLY MEANS	23145.0	-36002.9	16	58.3	23149.7	-36002.5	16	58.2	23136.2	-36002.4	16	58.5

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1967   Monthly and yearly means

                     All days   Quiet days   Disturbed days

	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins
JANUARY	23114.6	-35942.9	16	0.9	23116.4	-35939.3	16	57.5	23107.8	-35941.8	16	58.3
FEBRUARY	23106.2	-35938.0	16	57.6	23112.9	-35934.8	16	57.4	23094.9	-35941.3	16	58.5
MARCH	23104.9	-35929.1	16	57.3	23110.0	-35929.3	16	57.1	23099.8	-35928.7	16	57.4
APRIL	23098.8	-35921.1	16	57.2	23104.2	-35918.2	16	57.1	23091.7	-35920.3	16	57.2
MAY	23076.0	-35920.7	16	57.5	23092.8	-35919.3	16	57.1	23022.4	-35921.8	16	58.8
JUNE	23077.4	-35919.2	16	57.6	23084.7	-35916.1	16	57.5	23062.9	-35921.0	16	57.9
JULY	23083.5	-35902.4	16	57.1	23087.1	-35904.1	16	57.3	23076.5	-35902.2	16	56.9
AUGUST	23083.6	-35890.0	16	57.0	23085.4	-35894.5	16	57.2	23082.7	-35886.0	16	56.7
SEPTEMBER	23070.1	-35882.8	16	57.5	23078.1	-35883.5	16	57.3	23048.9	-35876.9	16	57.9
OCTOBER	23071.7	-35874.3	16	57.3	23076.9	-35868.4	16	56.8	23067.6	-35874.3	16	57.8
NOVEMBER	23072.7	-35862.4	16	57.4	23076.9	-35862.3	16	56.8	23070.2	-35863.2	16	58.1
DECEMBER	23068.2	-35851.6	16	57.6	23071.1	-35848.4	16	57.2	23060.7	-35853.6	16	58.6
YEARLY MEANS	23085.5	-35902.7	16	57.7	23091.4	-35901.5	16	57.2	23073.8	-35902.6	16	57.9

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1968   Monthly and yearly means

                     All days   Quiet days   Disturbed days

	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins
JANUARY	23058.8	-35850.2	16	58.6	23064.5	-35850.2	16	58.0	23050.0	-35853.7	16	59.8
FEBRUARY	23049.0	-35841.1	16	57.9	23055.8	-35838.7	16	57.3	23039.8	-35842.7	16	58.5
MARCH	23043.7	-35834.6	16	57.7	23049.3	-35836.5	16	57.4	23041.3	-35830.1	16	57.3
APRIL	23040.6	-35827.1	16	57.4	23048.6	-35825.6	16	57.2	23029.0	-35831.7	16	58.1
MAY	23037.5	-35818.6	16	57.0	23045.4	-35819.7	16	56.9	23029.8	-35816.5	16	57.0
JUNE	23032.2	-35808.7	16	56.8*	23040.8	-35810.8	16	56.8	23011.5	-35804.9	16	57.4
JULY	23032.8	-35797.4	16	56.6	23037.2	-35795.3	16	56.7	23026.4	-35796.9	16	56.4
AUGUST	23028.9	-35785.7	16	56.6	23034.7	-35783.5	16	56.7	23017.8	-35786.0	16	56.6
SEPTEMBER	23020.1	-35779.9	16	57.0	23023.6	-35779.8	16	57.1	23005.3	-35777.7	16	57.5
OCTOBER	23016.8	-35772.1	16	57.2	23024.0	-35772.0	16	56.8	22998.4	-35772.0	16	57.9
NOVEMBER	23005.9	-35773.9	16	57.8	23016.1	-35765.7	16	56.8	22975.3	-35793.5	16	59.9
DECEMBER	23014.5	-35753.2	16	57.1	23014.8	-35753.2	16	57.1	23012.2	-35753.6	16	57.0
YEARLY MEANS	23031.7	-35803.4	16	57.3*	23037.9	-35802.6	16	57.1	23019.7	-35804.9	16	57.8

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1969   Monthly and yearly means

                     All days   Quiet days   Disturbed days

	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins	H nT	Z nT	D deg	D mins
JANUARY	23008.9	-35755.1	16	56.8	23009.9	-35757.3	16	56.3	23003.4	-35753.7	16	56.9
FEBRUARY	22996.0	-35748.0	16	57.3	23001.5	-35743.0	16	56.8	22982.3	-35752.3	16	58.9
MARCH	22983.7	-35742.0	16	57.1	22990.0	-35743.9	16	56.9	22959.9	-35743.0	16	57.7
APRIL	22982.2	-35735.4	16	56.7	22987.6	-35733.2	16	56.7	22973.2	-35731.5	16	56.8
MAY	22978.4	-35724.6	16	56.5	22988.3	-35723.0	16	56.2	22953.9	-35725.5	16	57.4
JUNE	22980.4	-35716.5	16	56.2	22983.8	-35716.4	16	56.3	22976.3	-35716.4	16	56.4
JULY	22979.9	-35705.5	16	56.0	22984.1	-35705.8	16	56.1	22971.4	-35703.7	16	55.3
AUGUST	22975.3	-35695.8	16	56.2	22977.7	-35695.2	16	56.2	22971.7	-35691.9	16	56.0
SEPTEMBER	22965.1	-35686.4	16	56.5	22973.1	-35687.3	16	56.4	22951.7	-35680.5	16	56.6
OCTOBER	22961.3	-35680.7	16	56.6	22966.8	-35678.5	16	56.2	22947.4	-35689.1	16	57.3
NOVEMBER	22965.7	-35667.6	16	56.5	22967.9	-35669.6	16	55.9	22957.9	-35666.9	16	56.9
DECEMBER	22967.2	-35654.4	16	56.3	22971.2	-35647.7	16	56.0	22966.3	-35655.7	16	56.4
YEARLY MEANS	22978.6	-35709.1	16	56.6	22983.5	-35708.4	16	56.3	22968.0	-35709.2	16	56.9

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1970   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22962.0	-35646.0*	16	56.7	22960.8	-35644.9	16	56.4	22958.9	-35646.3	16	57.1
FEBRUARY	22949.3	-35639.0	16	56.7	22948.0	-35639.3	16	56.7	22951.4	-35638.5	16	56.9
MARCH	22931.5	-35646.4	16	57.3	22941.2	-35642.3	16	56.5	22912.5	-35652.8	16	58.8
APRIL	22924.9	-35641.4	16	57.0	22934.9	-35639.1	16	56.6	22909.2	-35641.0	16	57.4
MAY	22927.8	-35635.7	16	56.6	22933.4	-35635.7	16	56.4	22920.3	-35633.3	16	57.3
JUNE	22923.0	-35625.1	16	56.5	22928.8	-35626.1	16	56.5	22911.6	-35624.2	16	57.0
JULY	22912.5	-35616.2	16	56.6	22920.4	-35617.0	16	56.8	22900.5	-35611.6	16	57.1
AUGUST	22910.3	-35609.9*	16	56.8	22919.4	-35612.1	16	56.7	22888.2	-35609.4*	16	57.2
SEPTEMBER	22909.0	-35598.9	16	56.8	22913.9	-35599.1	16	56.7	22903.2	-35596.6	16	57.1
OCTOBER	22902.3	-35590.8	16	57.3	22910.8	-35588.9	16	56.9	22887.6	-35596.8	16	58.5
NOVEMBER	22902.7	-35581.3*	16	57.2	22909.4	-35578.5	16	57.0	22890.1	-35581.0*	16	57.8
DECEMBER	22900.4	-35566.7*	16	57.4	22903.2	-35567.6	16	57.1	22885.9	-35569.6*	16	58.5
YEARLY MEANS	22921.1	-35616.5*	16	56.9	22927.0	-35615.9	16	56.7	22910.0	-35618.3*	16	57.6

    Note:- Days with missing hourly values are not used in
          the calculation of means. If days have been excluded
          the mean value is followed by a *.

ARGENTINE ISLANDS   1971   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22901.0	-35563.1	16	57.6	22906.8	-35562.3	16	57.1	22888.3	-35565.2	16	58.4
FEBRUARY	22886.6	-35563.6	16	57.3	22893.1	-35560.8	16	57.0	22875.4	-35563.8	16	57.8
MARCH	22878.2	-35555.3	16	56.5	22881.1	-35555.4	16	56.3	22872.3	-35552.6	16	56.9
APRIL	22867.6	-35552.2	16	56.6	22875.5	-35550.2	16	56.5	22854.5	-35553.6	16	57.0
MAY	22866.5	-35540.9	16	56.1	22871.2	-35539.6	16	56.2	22855.0	-35535.3	16	55.9
JUNE	22867.5	-35530.6	16	56.2	22871.5	-35532.1	16	56.1	22859.8	-35528.5	16	56.3
JULY	22863.7	-35519.9	16	56.0	22867.8	-35519.2	16	56.1	22858.7	-35520.2	16	56.3
AUGUST	22860.5	-35511.8	16	55.8	22861.9	-35512.5	16	56.2	22855.8	-35509.2	16	55.5
SEPTEMBER	22849.2	-35505.3	16	56.0	22851.0	-35507.0	16	56.1	22836.6	-35504.4	16	56.1
OCTOBER	22846.3	-35496.4	16	56.2	22852.0	-35491.9	16	55.8	22837.3	-35500.1	16	56.3
NOVEMBER	22851.8	-35481.1	16	56.0	22855.3	-35481.4	16	55.7	22843.1	-35482.3	16	56.7
DECEMBER	22846.0	-35476.9	16	56.6	22850.8	-35472.7	16	56.1	22838.1	-35477.9	16	57.6
YEARLY MEANS	22865.3	-35524.5	16	56.4	22869.8	-35523.8	16	56.3	22856.3	-35524.4	16	56.7

    Note:- Days with missing hourly values are not used in
          the calculation of means. If days have been excluded
          the mean value is followed by a *.

ARGENTINE ISLANDS   1972   Monthly and yearly means

	All days				. Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22843.4	-35474.1	16	56.7	22852.5	-35473.0	16	56.1	22835.7	-35474.9	16	57.6
FEBRUARY	22836.4	-35468.0	16	56.3	22838.6	-35465.8	16	56.1	22830.5	-35466.5	16	56.8
MARCH	22828.6	-35464.7	16	56.2	22833.3	-35464.7	16	56.1	22817.8	-35465.3	16	56.1
APRIL	22825.0	-35455.7	16	55.9	22832.1	-35454.9	16	55.5	22817.5	-35450.3	16	56.0
MAY	22822.3	-35450.0	16	55.8	22826.6	-35449.9	16	55.7	22814.5	-35454.6	16	56.3
JUNE	22812.0	-35440.4	16	55.7	22824.4	-35439.4	16	55.5	22788.1	-35435.3	16	55.3
JULY	22812.8	-35434.7	16	55.8	22815.3	-35434.6	16	55.7	22804.5	-35433.0	16	56.4
AUGUST	22794.5	-35432.2	16	56.1	22807.3	-35430.9	16	56.1	22770.8	-35427.5	16	55.4
SEPTEMBER	22797.5	-35421.6	16	56.1	22803.6	-35420.8	16	55.8	22778.8	-35423.1	16	56.7
OCTOBER	22796.7	-35411.8	16	56.0	22802.7	-35414.4	16	55.6	22790.8	-35409.6	16	56.4
NOVEMBER	22796.1	-35399.6	16	55.7	22802.9	-35400.5	16	55.7	22778.9	-35397.9	16	55.2
DECEMBER	22802.3	-35384.8	16	55.7	22805.5	-35385.4	16	55.3	22796.4	-35384.9	16	56.7
YEARLY MEANS	22813.9	-35436.4	16	56.0	22820.4	-35436.2	16	55.8	22802.0	-35435.2	16	56.2

    Note:- Days with missing hourly values are not used in
          the calculation of means. If days have been excluded
          the mean value is followed by a *.

ARGENTINE ISLANDS   1973   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22788.5	-35380.9	16	56.1	22792.2	-35381.5	16	55.8	22781.4	-35381.9	16	56.1
FEBRUARY	22774.7	-35380.0	16	56.4	22784.6	-35378.0	16	56.0	22753.3	-35389.5	16	58.0
MARCH	22762.9	-35376.0	16	56.4	22773.7	-35373.8	16	55.8	22742.4	-35374.7	16	57.0
APRIL	22749.9	-35374.2	16	56.1	22763.7	-35377.3	16	55.9	22731.3	-35379.2	16	57.0
MAY	22755.4	-35362.4	16	55.7	22762.7	-35359.1	16	55.6	22736.5	-35354.3	16	55.9
JUNE	22753.9	-35350.3	16	55.6	22759.3	-35352.0	16	55.6	22740.3	-35347.1	16	55.7
JULY	22755.6	-35340.4	16	55.4	22759.1	-35344.9	16	55.6	22748.4	-35336.3	16	55.3
AUGUST	22751.1	-35332.0	16	55.5	22758.7	-35331.8	16	55.6	22737.4	-35327.6	16	55.7
SEPTEMBER	22742.4	-35325.8	16	56.1	22746.6	-35323.7	16	55.8	22731.4	-35326.8	16	56.9
OCTOBER	22737.7	-35318.2*	16	55.8	22747.5	-35315.9	16	55.4	22730.3	-35315.8*	16	56.1
NOVEMBER	22739.0	-35308.8	16	55.7	22739.3	-35310.2	16	55.7	22735.7	-35307.3	16	56.1
DECEMBER	22740.9	-35297.0	16	55.6	22742.0	-35297.5	16	55.2	22738.3	-35294.7	16	56.5
YEARLY MEANS	22754.3	-35345.4*	16	55.9	22760.8	-35345.5	16	55.7	22742.2	-35345.1*	16	56.3

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1974   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22719.0	-35289.8	16	55.8	22720.5	-35289.4	16	55.5	22706.1	-35291.1	16	56.2
FEBRUARY	22715.7	-35286.2	16	55.8	22719.8	-35286.5	16	55.8	22709.1	-35284.4	16	56.0
MARCH	22697.2	-35284.5	16	56.1	22698.0	-35286.5	16	56.0	22685.2	-35282.6	16	56.5
APRIL	22696.3	-35277.9	16	55.5	22709.3	-35277.6	16	55.2	22684.5	-35276.2	16	55.9
MAY	22692.0	-35270.8	16	55.7	22697.3	-35274.7	16	55.3	22685.5	-35268.8	16	56.0
JUNE	22690.3	-35260.2	16	55.1	22698.8	-35263.6	16	54.9	22683.0	-35254.5	16	54.6
JULY	22678.4	-35252.8	16	55.7	22693.8	-35249.6	16	55.6	22648.1	-35242.0	16	55.9
AUGUST	22682.3	-35240.5	16	55.6	22692.5	-35242.9	16	55.5	22673.5	-35234.8	16	55.6
SEPTEMBER	22676.5	-35232.3	16	55.9	22683.3	-35234.0	16	56.0	22658.5	-35232.6	16	56.5
OCTOBER	22671.1	-35219.9	16	56.0	22679.9	-35221.8	16	55.7	22652.1	-35214.0	16	56.7
NOVEMBER	22672.9	-35209.8	16	55.9*	22682.2	-35207.9	16	55.5	22656.4	-35212.7	16	56.7*
DECEMBER	22674.6	-35195.9	16	56.0	22679.2	-35196.4	16	55.7	22669.4	-35195.9	16	56.5
YEARLY MEANS	22688.7	-35251.5	16	55.8*	22696.2	-35252.6	16	55.6	22676.0	-35249.1	16	56.1*

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1975   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22673.7	-35195.7	16	55.8	22675.6	-35193.9	16	55.5	22669.6	-35198.0	16	56.2
FEBRUARY	22667.0	-35187.2	16	55.4	22672.7	-35186.7	16	54.9	22659.6	-35186.0	16	55.7
MARCH	22656.8	-35184.8	16	55.6	22664.8	-35184.2	16	55.2	22638.7	-35185.5	16	56.1
APRIL	22655.6	-35178.0	16	54.9	22662.1	-35176.4	16	54.5	22641.5	-35174.3	16	55.1
MAY	22652.7	-35168.7	16	54.5	22656.3	-35170.2	16	54.7	22647.8	-35165.1	16	54.2
JUNE	22652.1	-35158.8	16	54.5	22656.6	-35159.6	16	54.5	22646.0	-35155.6	16	54.3
JULY	22645.0	-35151.0	16	54.8	22647.2	-35150.9	16	54.9	22636.2	-35147.3	16	54.5
AUGUST	22641.4	-35141.8	16	54.8	22645.3	-35143.0	16	54.9	22636.9	-35139.4	16	54.6
SEPTEMBER	22640.0	-35138.5	16	54.7	22644.3	-35138.2	16	54.7	22631.1	-35138.3	16	54.5
OCTOBER	22635.2	-35132.3	16	54.7	22640.9	-35131.5	16	54.5	22624.9	-35133.6	16	55.0
NOVEMBER	22627.6	-35133.6	16	55.2	22632.8	-35138.4	16	55.0	22616.0	-35128.9	16	56.0
DECEMBER	22633.1	-35126.4	16	54.6	22636.1	-35126.7	16	54.3	22628.9	-35127.1	16	55.2
YEARLY MEANS	22648.3	-35157.9	16	54.9	22652.9	-35158.3	16	54.8	22639.8	-35156.6	16	55.1

Note:-Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by *.

ARGENTINE ISLANDS   1976   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22625.9	-35121.2	16	54.7	22632.9	-35117.1	16	54.1	22618.9	-35127.8	16	55.6
FEBRUARY	22618.7	-35114.9	16	54.4	22622.3	-35113.4	16	53.8	22611.6	-35114.9	16	54.0
MARCH	22602.1	-35113.1	16	54.2	22616.4	-35108.9	16	53.8	22574.4	-35107.7	16	54.5
APRIL	22597.3	-35108.3	16	54.0	22610.5	-35107.9	16	53.8	22567.1	-35101.3	16	54.4
MAY	22599.9	-35101.0	16	53.5	22608.2	-35104.0	16	53.5	22582.5	-35097.2	16	53.5
JUNE	22598.8	-35090.2	16	53.0	22600.8	-35091.9	16	53.1	22593.1	-35087.3	16	52.8
JULY	22595.7	-35082.1	16	53.1	22600.9	-35081.7	16	53.0	22591.4	-35079.5	16	53.2
AUGUST	22591.7	-35073.9	16	53.1	22594.5	-35074.4	16	53.0	22582.0	-35071.1	16	53.2
SEPTEMBER	22582.9	-35065.8	16	52.9	22587.2	-35066.9	16	52.9	22573.3	-35060.4	16	52.9
OCTOBER	22578.5	-35055.2	16	52.7	22583.5	-35049.9	16	52.3	22567.9	-35053.3	16	52.9
NOVEMBER	22580.8	-35045.0	16	52.5	22584.9	-35042.7	16	52.4	22573.9	-35047.9	16	52.9
DECEMBER	22577.3	-35044.0	16	52.8	22580.6	-35046.3	16	52.6	22568.6	-35043.1	16	53.1
YEARLY MEANS	22595.7	-35084.5	16	53.4	22601.9	-35083.8	16	53.2	22583.7	-35082.6	16	53.6

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1977   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22571.4	-35037.5	16	52.8	22571.5	-35036.3	16	52.6	22563.3	-35037.9	16	53.6
FEBRUARY	22562.1	-35031.5	16	52.6	22564.3	-35030.6	16	52.3	22560.2	-35034.2	16	52.7
MARCH	22555.2	-35023.4	16	52.4	22563.5	-35019.3	16	51.9	22547.3	-35026.2	16	52.8
APRIL	22542.1	-35018.5	16	52.5	22552.5	-35017.8	16	52.3	22528.0	-35013.5	16	52.6
MAY	22541.7	-35016.9	16	52.6	22549.1	-35015.7	16	52.4	22528.7	-35015.8	16	52.7
JUNE	22546.3	-35007.5	16	52.2	22545.8	-35009.9	16	52.4	22542.3	-35005.0	16	52.3
JULY	22533.5	-34998.1	16	52.4	22539.2	-34996.3	16	52.6	22529.0	-34993.0	16	52.0
AUGUST	22522.7	-34991.9	16	52.6	22527.0	-34991.2	16	52.6	22518.0	-34989.1	16	52.5
SEPTEMBER	22514.2	-34983.4	16	52.7	22522.7	-34983.1	16	52.3	22498.8	-34982.6	16	53.4
OCTOBER	22511.8	-34979.2	16	52.7	22520.7	-34977.0	16	52.3	22490.8	-34983.1	16	53.4
NOVEMBER	22515.2	-34970.1	16	52.6	22519.6	-34967.1	16	52.5	22505.3	-34971.9	16	53.3
DECEMBER	22507.4	-34961.6	16	52.4*	22515.1	-34961.7	16	52.3	22494.7	-34965.9	16	52.6*
YEARLY MEANS	22535.2	-35001.5	16	52.5*	22540.9	-35000.5	16	52.4	22525.5	-35001.5	16	52.8*

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1978   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22507.0	-34956.1	16	52.6	22509.3	-34956.5	16	52.0	22497.2	-34947.6	16	53.7
FEBRUARY	22492.8	-34951.9	16	52.7	22498.7	-34951.3	16	51.8	22479.6	-34948.2	16	53.0
MARCH	22483.0	-34947.7	16	52.3	22490.1	-34948.6	16	51.8	22472.5	-34947.3	16	52.8
APRIL	22471.4	-34950.0	16	51.8	22481.7	-34950.1	16	51.9	22455.4	-34950.3	16	51.5
MAY	22466.5	-34942.4	16	51.9	22478.2	-34946.3	16	51.7	22442.3	-34929.4	16	52.8
JUNE	22469.9	-34933.8	16	51.0	22480.4	-34934.3	16	50.8	22458.0	-34929.4	16	51.0
JULY	22466.1	-34928.5	16	50.7	22471.4	-34920.7	16	50.7	22453.5	-34928.1	16	50.3
AUGUST	22458.2	-34910.0	16	50.9	22468.3	-34912.6	16	50.8	22422.3	-34896.4	16	52.2
SEPTEMBER	22447.2	-34909.0	16	51.6	22460.0	-34908.3	16	50.8	22424.7	-34895.2	16	52.9
OCTOBER	22447.8	-34901.6	16	51.2	22454.4	-34902.2	16	50.8	22431.1	-34899.2	16	51.7
NOVEMBER	22446.6	-34895.0	16	51.2	22452.9	-34893.0	16	50.4	22434.7	-34892.0	16	52.0
DECEMBER	22455.4	-34881.1	16	50.6	22464.5	-34880.8	16	50.0	22446.9	-34879.7	16	51.1
YEARLY MEANS	22467.6	-34925.4	16	51.5	22475.8	-34925.4	16	51.1	22451.5	-34920.2	16	52.1

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1979   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22444.4	-34878.8	16	51.7	22452.2	-34873.3	16	51.0	22437.1	-34885.0	16	52.4
FEBRUARY	22431.9	-34869.9	16	51.7	22437.8	-34867.2	16	51.1	22415.4	-34871.2	16	52.2
MARCH	22416.9	-34864.0	16	52.0	22420.0	-34862.3	16	51.4	22411.4	-34864.6	16	53.2
APRIL	22409.4	-34863.6	16	51.4	22426.6	-34857.4	16	51.1	22383.6	-34866.3	16	51.4
MAY	22413.8	-34851.2	16	50.8	22421.0	-34851.1	16	50.7	22397.8	-34849.4	16	50.6
JUNE	22415.9	-34838.8	16	50.6	22421.6	-34839.6	16	50.6	22409.5	-34838.3	16	50.5
JULY	22411.0	-34828.9	16	50.6	22413.1	-34826.4	16	50.6	22407.7	-34830.7	16	51.0
AUGUST	22397.4	-34822.9	16	51.1	22404.7	-34824.0	16	51.0	22378.8	-34820.5	16	51.3
SEPTEMBER	22390.9	-34818.9	16	51.3	22393.2	-34822.5	16	51.3	22375.0	-34818.4	16	52.0
OCTOBER	22390.8	-34809.2	16	51.2	22396.5	-34804.1	16	50.8	22378.3	-34815.3	16	51.9
NOVEMBER	22394.0	-34797.4	16	50.7	22396.0	-34796.8	16	50.4	22383.4	-34801.0	16	51.1
DECEMBER	22400.7	-34781.6	16	50.4	22406.3	-34781.7	16	50.0	22394.0	-34780.9	16	51.1
YEARLY MEANS	22409.7	-34835.2	16	51.1	22415.8	-34833.9	16	50.8	22397.7	-34836.8	16	51.6

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1980   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22391.9	-34776.7	16	50.3	22394.5	-34772.0	16	49.7	22384.8	-34781.3	16	51.6
FEBRUARY	22380.8	-34774.1	16	50.1	22387.0	-34770.0	16	49.6	22374.2	-34772.5	16	50.4
MARCH	22378.7	-34764.6	16	49.8	22383.5	-34764.9	16	49.6	22363.4	-34766.5	16	49.8
APRIL	22367.5	-34764.1	16	49.9	22370.2	-34767.6	16	50.2	22355.7	-34766.3	16	50.2
MAY	22365.1	-34754.3	16	50.1	22366.5	-34756.5	16	50.1	22350.7	-34754.6	16	50.2
JUNE	22357.0	-34751.9	16	50.2	22359.6	-34752.5	16	50.3	22340.5	-34752.2	16	50.4
JULY	22353.6	-34744.7	16	50.2	22361.3	-34745.3	16	50.1	22345.8	-34750.7	16	50.8
AUGUST	22348.1	-34731.9	16	50.1	22350.9	-34734.1	16	50.3	22344.5	-34730.0	16	49.9
SEPTEMBER	22348.5	-34723.4	16	50.4	22351.4	-34721.8	16	50.2	22340.1	-34725.7	16	50.3
OCTOBER	22337.8	-34716.9	16	50.8	22342.8	-34715.2	16	50.6	22324.0	-34711.0	16	51.5
NOVEMBER	22344.6	-34705.2	16	50.5	22345.0	-34706.2	16	50.0	22345.4	-34705.2	16	51.0
DECEMBER	22340.3	-34700.4	16	50.4	22342.9	-34698.8	16	50.2	22321.7	-34710.1	16	51.6
YEARLY MEANS	22359.4	-34742.2	16	50.2	22363.0	-34742.1	16	50.1	22349.2	-34743.8	16	50.6

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1981   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22343.8	-34688.4	16	49.1	22346.0	-34685.8	16	48.8	22338.5	-34688.5	16	49.3
FEBRUARY	22324.0	-34689.9	16	49.8	22329.9	-34687.5	16	49.1	22317.3	-34692.6	16	50.4
MARCH	22304.3	-34691.0	16	49.8	22315.4	-34687.5	16	49.1	22300.6	-34687.5	16	50.1
APRIL	22292.3	-34689.1	16	49.6	22305.5	-34689.4	16	49.3	22259.8	-34688.1	16	50.4
MAY	22295.4	-34683.1	16	49.0	22315.3	-34681.2	16	48.7	22265.6	-34680.8	16	49.4
JUNE	22304.4	-34666.0	16	48.4	22306.9	-34669.4	16	48.5	22295.7	-34664.2	16	48.3
JULY	22290.4	-34660.4	16	48.8	22300.6	-34659.7	16	48.7	22256.0	-34662.2	16	49.4
AUGUST	22283.6	-34657.3	16	49.1	22290.3	-34658.8	16	49.2	22275.3	-34654.6	16	49.7
SEPTEMBER	22283.8	-34647.3	16	49.2	22288.4	-34649.2	16	49.3	22274.7	-34646.2	16	49.5
OCTOBER	22270.6	-34644.1	16	49.8	22281.3	-34639.5	16	49.2	22253.9	-34647.1	16	50.5
NOVEMBER	22281.4	-34630.4	16	49.1	22289.8	-34625.9	16	48.7	22279.1	-34631.3	16	49.4
DECEMBER	22290.7	-34611.7	16	48.8	22290.2	-34612.4	16	48.7	22285.3	-34605.7	16	49.0
YEARLY MEANS	22296.9	-34663.1	16	49.2	22305.0	-34662.2	16	48.9	22283.5	-34662.4	16	49.6

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

ARGENTINE ISLANDS   1982   Monthly and yearly means

	All days				Quiet days				Disturbed days			
	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins	H nT	Z nT	D deg	mins
JANUARY	22283.5	-34603.8	16	48.6	22292.4	-34602.0	16	48.3	22271.9	-34603.3	16	49.0
FEBRUARY	22252.1	-34617.6	16	50.1	22255.8	-34617.0	16	49.7	22246.0	-34619.3	16	50.9
MARCH	22253.7	-34607.4	16	48.7	22259.7	-34608.0	16	48.5	22238.7	-34605.1	16	48.9
APRIL	22243.4	-34610.6	16	48.4	22251.8	-34613.3	16	48.6	22219.6	-34604.7	16	49.3
MAY	22252.0	-34602.2	16	47.8	22259.1	-34603.4	16	47.6	22227.3	-34595.3	16	48.1
JUNE	22239.3	-34590.6	16	47.7	22250.6	-34592.7	16	47.7	22225.6	-34590.7	16	47.8
JULY	22223.0	-34588.5	16	48.3	22246.1	-34580.7	16	47.6	22198.2	-34605.1	16	49.3
AUGUST	22223.0	-34584.1	16	48.0	22225.5	-34590.0	16	47.9	22208.2	-34580.7	16	48.3
SEPTEMBER	22204.5	-34577.0	16	48.5	22219.5	-34579.0	16	48.8	22154.7	-34551.0	16	48.5
OCTOBER	22215.5	-34566.1	16	49.1	22227.2	-34566.4	16	48.6	22200.9	-34559.9	16	49.6
NOVEMBER	22218.5	-34554.8	16	49.4	22227.7	-34551.3	16	48.3	22194.8	-34565.1	16	51.7
DECEMBER	22220.1	-34546.9	16	49.3	22223.8	-34548.0	16	48.5	22209.5	-34542.9	16	50.3
YEARLY MEANS	22235.7	-34587.3	16	48.7	22244.9	-34587.7	16	48.4	22216.3	-34585.3	16	49.3

Note:- Days with missing hourly values are not used in
the calculation of means. If days have been excluded
the mean value is followed by a *.

corrected 1992 DAS

Temp corrections recalculated
DAS 1987

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ARGENTINE ISLANDS                 Horizontal Intensity

       1958                   Tabular Baseline= 23000 nT
                                                                          no of days
                                                                           excluded
                    All-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   597 599 604 603 602 599  576 594 589 583 576 564  554 541 536 535 546 557  571 581 585 591 590 593        1
FEBRUARY  583 590 600 596 592 582  566 567 566 554 559 553  543 535 525 516 520 531  545 557 566 570 572 574
MARCH     560 564 565 565 564 565  565 562 567 569 572 566  554 533 511 497 493 502  517 533 544 549 552 557
APRIL     551 553 554 556 558 560  567 568 567 568 570 568  555 536 518 505 505 516  528 537 540 542 542 547
MAY       548 546 547 550 553 555  558 560 561 562 562 559  547 533 526 524 529 534  538 541 541 540 544
JUNE      529 530 527 528 532 534  535 538 541 543 548 548  547 541 533 529 529 533  537 539 538 536 532 532
JULY      528 528 527 528 533 533  534 534 536 537 539 538  536 533 524 516 515 521  528 530 529 532 526 525
AUGUST    541 543 545 542 542 539  540 542 542 543 544 544  538 526 515 509 510 516  523 532 535 537 537 540
SEPTEMBER 532 533 534 539 542 539  540 537 540 543 544 542  529 512 496 484 485 491  504 516 523 529 527 525
OCTOBER   548 553 555 554 552 548  545 545 543 543 537 529  515 497 483 476 480 497  513 527 536 542 542 546
NOVEMBER  565 569 570 569 565 561  557 555 552 548 541 529  512 499 493 494 503 517  530 542 551 554 556 560
DECEMBER  563 564 564 563 562 559  555 549 543 538 530 518  504 490 485 483 492 506  523 532 547 556 554 559

                    Quiet-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   599 597 603 607 606 606  603 598 592 584 574 557  543 535 539 549 571 591  604 612 608 603 599 602
FEBRUARY  586 590 592 595 592 588  586 585 584 584 584 575  561 548 534 526 529 544  557 572 581 582 586 592
MARCH     572 572 570 572 577 575  576 572 575 575 575 570  558 539 519 504 501 509  525 546 560 568 566 571
APRIL     572 577 578 578 580 578  579 578 577 579 577 572  558 541 528 519 525 537  553 563 569 569 570 577
MAY       565 565 565 563 564 567  567 568 568 571 573 572  569 559 545 541 542 550  558 563 567 566 568 567
JUNE      548 550 548 551 552 550  550 552 553 554 555 557  556 552 544 539 539 543  550 555 555 551 550 553
JULY      540 539 536 537 540 538  543 544 546 545 545 545  543 539 533 531 531 535  541 545 545 543 542 539
AUGUST    546 546 549 550 547 550  548 551 550 549 551 550  545 533 523 521 525 531  539 544 548 547 547 548
SEPTEMBER 551 553 554 555 554 554  554 554 556 559 561 556  543 525 508 499 499 508  523 533 541 545 547 551
OCTOBER   559 562 561 563 561 559  558 559 558 558 556 550  534 515 498 491 494 508  527 544 550 554 558 564
NOVEMBER  562 563 565 565 564 563  561 560 556 551 544 531  517 504 497 496 505 522  537 549 554 556 559 563
DECEMBER  559 565 565 564 564 564  563 559 552 542 533 521  506 493 491 490 500 518  538 551 560 562 559 570

                    Disturbed-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   587 589 595 590 581 575  580 581 573 567 565 558  544 529 516 520 537 546  557 563 570 574 575 575        1
FEBRUARY  577 601 644 615 594 564  489 503 501 446 474 491  501 509 506 492 499 508  520 534 540 559 562 555
MARCH     545 546 547 547 544 548  547 540 549 560 571 564  550 533 502 491 489 490  504 520 529 533 541 544
APRIL     537 533 538 541 542 554  563 562 563 564 578 574  554 531 514 494 494 500  508 518 525 527 522 528
MAY       529 519 523 534 540 542  547 551 552 551 556 552  552 542 524 521 515 511  512 503 511 504 505 515
JUNE      486 497 474 472 487 491  497 499 508 516 526 531  524 524 514 512 514 517  518 513 506 500 491 499
JULY      502 501 498 498 506 508  510 506 517 516 526 514  518 519 504 478 477 489  495 493 486 508 481 471
AUGUST    532 546 554 529 519 508  518 525 513 515 521 521  508 497 496 498 498 499  507 512 516 511 517
SEPTEMBER 497 485 495 508 526 508  517 507 517 522 523 518  501 486 475 459 459 454  454 465 473 485 469 439
OCTOBER   530 539 541 536 527 522  510 522 519 516 502 487  476 454 449 444 451 474  488 493 508 516 517 514
NOVEMBER  565 577 570 571 565 559  547 545 544 537 534 527  504 487 485 489 498 512  518 532 542 547 549 554
DECEMBER  568 568 563 558 555 556  552 544 533 529 523 513  495 477 467 459 470 474  500 505 526 550 528 544
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Note:-The last column shows the number of days excluded
        from the calculation of the means because the
        days include missing hourly values.

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ARGENTINE ISLANDS                 Horizontal Intensity

       1959                   Tabular Baseline= 23000 nT
                                                                          no of days
                                                                           excluded
                    All-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   547 549 552 553 551 549  547 545 542 538 530 517  506 496 488 485 491 502  516 525 537 541 545 546
FEBRUARY  526 529 536 537 534 525  521 519 517 518 516 509  493 477 469 465 470 479  492 501 508 512 519 525
MARCH     516 519 522 521 520 518  517 515 520 521 520 513  501 481 463 454 459 469  483 494 502 507 509 513
APRIL     499 501 501 502 507 509  510 509 513 510 510 508  497 482 468 461 462 470  480 489 493 494 494 498
MAY       500 495 498 499 499 500  500 500 499 502 504 504  500 492 482 477 477 482  489 495 497 495 495 497
JUNE      495 495 496 499 499 500  501 502 505 509 509 506  500 493 490 490 494 498  502 501 495 496 494
JULY      479 479 476 476 476 477  477 478 483 481 479 481  480 477 470 465 464 470  482 480 483 482 482 479
AUGUST    479 480 479 482 485 484  487 487 487 490 490 487  481 471 462 454 456 463  473 480 481 479 477 481
SEPTEMBER 480 481 480 480 481 481  479 479 482 485 485 482  468 453 440 431 433 443  454 463 470 473 474 478
OCTOBER   495 499 498 498 494 490  489 486 487 489 488 480  466 451 438 432 437 450  463 475 481 486 489 492
NOVEMBER  501 499 499 494 489 486  485 483 480 477 471 463  451 440 430 428 433 447  460 472 482 489 495 498
DECEMBER  503 504 505 503 500 494  490 485 479 474 466 457  450 441 438 447 459 471  480 493 495 496 500

                    Quiet-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   551 554 557 559 559 559  561 559 556 550 541 527  516 510 504 506 518 534  541 546 550 551 552 555
FEBRUARY  528 532 533 532 531 528  525 525 525 524 520 512  500 485 475 473 479 493  510 522 522 523 527 533
MARCH     533 535 538 538 536 535  534 532 533 533 531 524  510 494 478 473 479 493  509 521 526 531 534 538
APRIL     515 515 518 519 519 520  519 520 519 519 521 518  506 490 475 470 474 486  497 506 512 515 516 518
MAY       504 502 505 507 508 507  508 508 509 510 510 507  503 497 489 485 488 494  501 506 507 509 510 508
JUNE      503 503 504 504 503 503  502 504 505 506 507 507  506 502 496 494 497 501  507 510 510 509 505 503
JULY      483 486 483 491 486 489  493 492 494 494 497 495  493 489 480 474 475 481  488 495 496 496 493 492
AUGUST    493 495 492 495 492 495  494 497 498 500 500 497  490 479 468 465 467 477  485 492 494 494 493 495
SEPTEMBER 487 489 491 490 490 491  491 490 493 493 493 492  481 469 457 451 451 460  472 481 486 489 485 488
OCTOBER   499 503 505 505 504 502  503 499 499 500 498 490  476 461 449 445 448 459  475 486 491 499 503 506
NOVEMBER  501 503 499 502 502 500  499 495 492 488 484 476  466 455 446 445 451 462  475 483 493 501 504 502
DECEMBER  503 505 506 510 509 507  503 499 495 487 478 468  461 456 456 459 466 475  486 491 496 502 499 498

                    Disturbed-days mean diurnal variation

       UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   533 532 538 545 539 529  523 522 516 513 505 488  485 478 467 466 463 467  482 501 524 528 535 538
FEBRUARY  511 519 532 530 530 521  516 508 501 503 502 500  481 459 441 436 439 438  457 467 479 484 499 499
MARCH     447 452 466 465 466 461  460 451 481 488 492 484  480 443 412 391 405 412  418 427 442 449 449 452
APRIL     474 480 483 492 501 503  502 502 515 501 502 506  497 473 467 458 450 455  456 457 462 467 478
MAY       515 495 501 498 497 486  481 476 475 480 485 495  486 479 471 468 458 465  475 482 482 475 469 474
JUNE      472 468 474 480 478 486  489 491 496 504 510 496  494 485 474 471 470 471  476 479 476 456 467 467
JULY      449 441 441 428 434 436  426 434 454 431 424 430  427 431 420 413 398 404  454 421 436 441 441 425
AUGUST    440 446 445 458 474 469  483 478 478 469 487 475  457 444 445 431 424 429  445 454 454 454 442 446
SEPTEMBER 479 478 474 465 450 454  443 448 455 468 465 460  441 421 411 396 402 415  427 434 439 430 455 455
OCTOBER   476 481 482 483 469 463  464 459 466 473 478 463  446 436 423 412 418 431  435 451 450 460 462 465
NOVEMBER  506 501 501 474 453 447  452 463 462 459 447 434  411 405 399 398 406 426  442 453 467 480 484 482
DECEMBER  511 509 501 499 491 483  477 475 470 467 461 453  445 424 419 409 419 439  458 463 489 479 474 487
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Note:-The last column shows the number of days excluded
        from the calculation of the means because the
        days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1960   Tabular Baseline= 23000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	500	503	505	504	499	497	493	489	483	478	472	465	457	447	439	435	440	454	470	482	490	498	497	494	
FEBRUARY	488	490	494	492	493	489	485	482	480	478	474	467	460	447	434	427	429	438	451	462	472	477	479	483	
MARCH	473	476	478	478	480	479	475	477	475	474	473	469	464	451	438	429	425	432	446	456	462	468	468	466	
APRIL	433	431	428	433	438	435	435	440	441	443	444	441	429	418	412	410	411	405	420	429	430	429	427	429	
MAY	437	441	439	441	445	444	446	442	443	444	447	447	446	439	432	426	429	432	436	439	441	440	439	439	
JUNE	441	438	437	433	434	438	440	443	444	447	448	450	451	448	444	441	442	445	448	451	450	447	446	445	
JULY	434	431	432	432	438	438	437	439	440	442	445	444	445	442	438	433	432	435	439	442	442	439	438	437	
AUGUST	438	436	438	437	438	435	435	437	440	440	442	441	440	434	427	422	423	427	432	439	440	439	436	441	
SEPTEMBER	431	431	434	435	437	435	437	436	438	438	439	436	427	416	405	399	403	409	417	427	434	435	434	434	
OCTOBER	429	429	432	430	424	426	425	423	424	424	423	417	405	386	372	372	377	391	403	415	424	428	430	426	
NOVEMBER	447	444	440	437	432	427	410	417	409	406	397	399	386	376	372	376	389	403	417	429	434	445	447	443	
DECEMBER	449	449	451	447	443	441	435	428	423	418	414	405	399	390	384	381	387	400	417	426	438	442	445	445	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	505	510	511	511	507	506	501	496	490	485	478	468	455	447	441	440	448	461	473	482	493	500	500	501	
FEBRUARY	496	496	497	495	493	486	485	482	482	482	476	467	457	447	440	437	440	449	460	469	476	481	485	490	
MARCH	477	480	481	480	482	482	478	478	477	474	475	474	466	453	441	434	434	439	449	461	472	480	482	486	
APRIL	459	460	462	463	462	458	456	458	459	463	461	461	456	445	435	430	436	444	453	457	458	460	461	464	
MAY	456	457	455	455	458	455	459	457	456	457	458	458	456	451	444	443	446	451	459	462	462	459	461	462	
JUNE	454	452	451	452	450	452	452	454	453	454	454	454	455	452	447	443	445	449	455	459	457	454	456	457	
JULY	446	449	450	450	452	450	450	450	452	452	453	453	454	452	447	443	444	447	453	456	457	455	455	453	
AUGUST	450	453	452	451	453	452	451	451	453	455	455	454	452	444	439	435	436	441	447	449	450	449	451	451	
SEPTEMBER	442	444	447	447	448	447	447	445	445	448	449	447	438	421	407	401	403	411	423	433	438	442	444	447	
OCTOBER	453	455	456	456	451	452	449	445	444	443	439	431	418	404	394	393	401	416	430	438	445	448	451	455	
NOVEMBER	439	442	441	439	440	438	435	434	431	428	420	411	400	388	385	388	397	414	429	438	444	446	445	445	
DECEMBER	448	454	453	452	449	445	445	438	436	433	424	418	411	402	398	394	403	417	434	444	454	452	453	454	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	497	508	496	499	496	500	496	487	472	464	461	458	455	437	423	421	423	438	468	480	478	491	487	476	
FEBRUARY	481	485	489	487	478	474	468	470	470	470	463	458	449	432	414	412	420	437	444	457	466	473	472	477	
MARCH	452	450	453	451	459	457	446	458	458	467	460	436	447	441	426	421	409	411	432	448	448	453	448	426	
APRIL	395	400	355	366	387	384	389	404	413	419	419	412	368	351	370	383	372	299	349	372	370	386	373	377	
MAY	408	422	409	415	426	420	434	432	432	421	434	433	427	419	410	404	407	406	399	404	414	415	408	423	
JUNE	426	416	417	406	406	414	416	416	420	426	426	433	436	434	427	427	429	430	432	440	438	433	432	430	
JULY	414	412	409	414	419	423	414	421	425	429	434	434	433	423	422	413	407	403	408	413	417	406	404	400	
AUGUST	412	403	414	423	405	395	405	419	425	425	425	424	418	414	401	396	398	398	399	413	416	413	414	421	
SEPTEMBER	404	402	405	403	407	404	407	414	416	411	410	414	404	406	397	390	400	403	399	408	419	415	409	416	
OCTOBER	339	381	396	396	374	384	391	392	400	401	405	390	377	346	334	335	335	357	377	400	409	405	404	382	
NOVEMBER	467	432	414	404	390	382	305	361	325	316	299	347	335	327	321	325	356	371	398	418	409	419	430	429	
DECEMBER	453	449	449	436	415	418	416	409	411	404	405	386	378	367	359	352	358	377	397	404	414	432	434	425	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1961   Tabular Baseline= 23000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	443	446	447	446	445	441	439	434	431	429	426	419	412	403	397	392	398	412	422	429	434	437	439	441	
FEBRUARY	428	429	431	433	432	431	428	427	425	423	421	418	408	397	387	382	386	397	408	416	422	424	424	427	
MARCH	422	421	424	426	426	427	423	423	420	419	417	412	401	392	384	384	389	399	408	414	416	417	416	420	
APRIL	404	408	408	410	412	414	414	413	415	415	416	417	409	399	389	386	390	397	403	408	407	405	404	405	
MAY	402	404	406	407	408	408	406	408	407	409	409	409	404	399	397	401	406	409	410	410	410	408	406	404	
JUNE	397	398	398	399	398	399	399	401	403	406	405	406	407	405	403	401	403	404	405	406	405	402	400	398	
JULY	385	384	380	382	387	385	388	389	390	394	391	394	395	391	383	383	384	389	392	393	391	387	388	386	
AUGUST	393	395	394	398	399	399	399	398	398	401	403	404	400	396	389	386	387	391	394	397	397	395	395	395	
SEPTEMBER	398	400	400	398	401	400	398	398	397	398	399	399	393	383	372	368	370	377	385	393	394	394	394	396	
OCTOBER	390	389	388	388	388	383	385	384	384	386	387	381	371	360	352	349	350	357	371	387	390	388	389	389	
NOVEMBER	399	399	397	398	396	395	392	390	388	388	384	376	367	360	356	355	361	371	380	387	391	397	398	399	
DECEMBER	402	404	403	401	399	397	395	393	388	382	378	374	369	363	365	366	371	381	387	392	395	398	402	401	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	447	448	450	449	450	449	444	441	436	434	434	431	423	410	399	392	399	413	428	439	445	444	445	448	
FEBRUARY	436	436	437	437	438	437	435	434	431	430	427	422	411	400	392	389	396	409	422	432	437	439	436	437	
MARCH	424	425	431	434	435	434	431	429	427	425	423	418	408	398	389	389	397	407	418	422	422	423	422	425	
APRIL	406	407	407	407	411	412	413	411	408	411	412	411	406	397	388	386	389	399	406	411	411	411	412	414	
MAY	407	409	409	409	411	411	410	408	408	411	411	411	410	407	402	400	405	411	415	415	412	412	410	408	
JUNE	403	405	404	403	402	402	403	403	403	404	406	407	408	405	403	401	403	408	412	413	412	411	410	410	
JULY	390	390	390	391	395	392	394	395	394	396	396	397	399	396	393	391	393	397	401	399	397	398	397	397	
AUGUST	399	398	395	396	398	401	402	401	401	404	405	405	403	398	391	387	388	392	396	402	403	402	401	401	
SEPTEMBER	406	407	406	406	405	405	404	404	404	404	405	404	398	385	376	374	379	388	397	403	406	408	409	411	
OCTOBER	408	410	410	410	408	408	403	402	400	400	400	396	386	373	362	358	365	377	391	401	405	405	408	409	
NOVEMBER	402	400	400	400	400	400	399	397	395	392	388	382	375	369	363	361	368	379	385	394	401	404	406	407	
DECEMBER	402	402	402	401	401	401	401	399	392	385	379	378	374	369	368	373	382	393	400	405	403	403	404	406	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	440	445	445	446	438	435	433	425	426	425	416	406	400	390	381	376	387	406	417	423	425	427	426	425	
FEBRUARY	430	424	427	431	427	429	430	425	423	422	420	416	401	386	382	377	382	394	410	413	425	425	420	418	
MARCH	419	412	413	410	414	416	410	411	411	415	401	390	380	377	373	377	376	380	392	403	409	407	408	413	
APRIL	379	397	396	398	397	399	406	416	419	414	416	421	402	392	382	374	376	379	385	390	389	380	382	381	
MAY	406	402	407	410	413	404	393	397	399	402	402	399	397	390	387	387	391	396	397	404	403	399	398	398	
JUNE	373	376	374	371	372	380	378	388	397	407	397	401	400	395	392	392	393	389	386	394	392	389	384	382	
JULY	379	383	376	378	380	380	373	379	378	398	372	378	383	372	352	356	356	357	353	358	361	359	368	361	
AUGUST	375	377	373	385	390	388	381	382	388	393	393	389	388	373	381	377	377	381	382	385	383	377	377	378	
SEPTEMBER	397	398	406	403	409	402	398	394	396	401	392	399	384	374	362	359	358	366	374	383	381	386	382	388	
OCTOBER	372	362	359	358	361	341	352	350	359	369	370	350	340	336	331	328	315	318	336	390	378	362	363	357	
NOVEMBER	400	397	390	391	391	391	388	386	377	385	382	366	350	342	340	341	348	354	368	371	373	384	380	382	
DECEMBER	399	394	390	390	389	388	388	389	379	371	367	371	364	335	349	341	342	355	360	365	380	387	402	392	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS — Horizontal Intensity

1962 — Tabular Baseline= 23000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	397	397	398	398	396	396	394	393	388	382	376	373	368	365	362	362	368	376	381	386	389	390	390	392		2
FEBRUARY	390	390	393	393	392	390	387	385	384	383	380	375	368	360	356	357	361	371	378	382	384	386	387	388		
MARCH	380	381	382	383	384	382	383	382	381	381	381	372	367	357	349	345	346	352	362	369	375	378	378	380		1
APRIL	366	367	370	370	370	369	371	369	370	371	373	371	365	356	345	341	343	351	357	362	360	360	363	363		
MAY	363	364	366	366	367	367	368	367	369	369	371	372	370	365	359	356	357	360	363	364	364	362	358	360		
JUNE	356	355	357	360	361	360	363	362	362	365	368	368	367	366	362	360	362	364	364	361	360	359	356	355		
JULY	352	353	353	355	357	357	358	358	359	359	360	361	361	360	357	356	357	359	360	361	357	351	353	352		
AUGUST	346	345	346	352	354	352	354	353	355	356	356	357	355	349	344	341	341	344	349	352	349	345	343	344		
SEPTEMBER	343	345	345	348	347	348	347	347	345	345	345	343	340	332	324	320	320	327	333	335	338	339	338	343		
OCTOBER	348	346	348	347	350	349	345	344	344	341	339	333	325	315	307	306	312	322	329	337	339	340	343	343		2
NOVEMBER	355	356	355	355	354	353	350	347	343	338	332	326	316	313	312	313	321	331	339	343	347	346	350	351		
DECEMBER	351	354	354	353	353	351	348	345	339	335	332	327	323	316	313	316	323	329	337	341	345	347	348	351		

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	393	393	394	394	394	393	392	392	389	384	377	373	370	365	361	361	366	375	384	391	394	393	392	395		
FEBRUARY	387	389	389	391	391	389	387	387	385	385	382	376	368	359	352	353	358	370	382	389	392	394	394	394		
MARCH	384	386	384	386	386	383	383	381	381	381	380	376	366	356	348	346	350	358	369	376	380	381	382	382		
APRIL	364	366	367	368	370	369	370	370	369	370	371	371	367	358	351	349	349	352	359	362	362	363	364	365		
MAY	371	372	373	372	370	369	371	372	371	372	372	373	372	368	363	362	365	369	373	375	374	373	373	373		
JUNE	367	365	365	365	365	365	366	366	367	369	371	370	369	368	365	365	367	371	373	374	373	373	372	372		
JULY	356	358	358	358	358	359	361	360	357	362	362	363	362	360	358	358	360	363	366	365	365	362	364	363		
AUGUST	353	355	355	356	357	357	358	357	359	360	361	362	359	351	345	343	346	349	355	359	360	359	358	354		
SEPTEMBER	351	354	354	354	353	356	355	353	352	353	353	351	344	334	327	324	325	334	343	350	352	352	351	353		
OCTOBER	344	344	345	349	347	348	344	345	339	341	343	337	331	321	312	311	318	327	335	343	348	348	347	350		1
NOVEMBER	354	358	357	356	356	356	355	353	350	346	339	329	320	314	313	317	327	339	347	351	354	357	357	358		
DECEMBER	350	352	353	352	351	350	349	347	342	338	333	328	323	318	317	320	325	334	344	349	349	351	349	351		

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	400	399	407	401	400	403	398	396	389	375	367	369	363	359	352	353	364	370	372	379	378	382	382	383		
FEBRUARY	395	392	398	400	403	400	395	393	390	390	388	384	373	363	358	356	360	366	370	364	365	368	376	379		
MARCH	381	383	385	384	387	383	385	387	382	382	385	377	363	353	346	341	337	339	345	346	357	364	369	376		
APRIL	356	359	366	368	364	364	365	359	369	369	375	375	361	351	332	322	325	339	337	341	337	331	342	348		
MAY	364	365	373	372	368	367	365	366	368	370	373	372	368	360	356	347	348	347	344	348	349	345	333	341		
JUNE	351	353	351	359	360	350	359	362	361	367	370	367	368	365	359	360	361	360	359	348	351	348	343	343		
JULY	359	360	354	358	360	357	351	347	356	352	356	359	356	352	348	342	344	348	353	356	348	323	342	340		
AUGUST	335	336	322	341	340	343	345	349	351	361	355	356	349	347	338	336	333	341	345	344	338	335	330	339		
SEPTEMBER	345	351	357	364	351	348	342	348	337	338	341	346	340	332	320	319	318	325	321	310	321	327	318	333		
OCTOBER	351	336	341	346	358	353	347	346	351	343	338	324	317	311	303	303	316	324	321	331	323	327	338	336		
NOVEMBER	357	362	350	354	352	353	342	339	338	328	324	316	296	302	304	304	311	319	326	332	342	333	340	342		
DECEMBER	350	348	353	349	344	344	342	338	330	327	322	314	316	310	304	305	313	314	331	331	338	342	333	341		

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

ARGENTINE ISLANDS — Horizontal Intensity

1963 — Tabular Baseline= 23000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	344	344	345	345	343	342	341	342	338	335	330	323	318	315	312	315	322	330	335	339	339	339	340	342		
FEBRUARY	339	341	343	343	342	341	339	336	335	334	333	331	322	311	303	299	302	309	321	329	335	337	338	337		1
MARCH	333	334	335	334	336	336	335	335	333	332	332	331	325	313	301	296	301	309	320	327	329	330	329	329		
APRIL	318	320	322	323	325	325	324	324	325	324	325	325	320	312	303	301	304	310	315	318	318	316	318	320		
MAY	311	312	312	313	315	315	316	315	316	317	318	319	317	313	309	306	307	311	315	315	314	313	312	311		
JUNE	296	296	298	298	299	301	303	302	305	307	308	309	308	306	304	303	305	306	306	305	302	300	300	299		
JULY	302	304	302	303	303	304	305	305	305	307	308	309	310	310	307	304	305	307	310	309	305	303	300	298		
AUGUST	295	295	297	297	299	300	302	301	302	304	306	306	304	298	292	289	289	293	295	297	297	290	291	292		
SEPTEMBER	278	283	280	278	285	287	287	289	287	287	289	287	282	273	265	260	262	267	276	281	285	281	280	280		
OCTOBER	288	288	289	288	289	289	286	286	284	282	282	282	274	265	257	255	258	267	279	285	288	287	284	287		
NOVEMBER	296	295	297	296	295	295	292	289	286	284	280	275	266	260	258	258	262	274	282	287	289	293	295	295		
DECEMBER	304	304	305	305	303	301	298	295	290	285	280	276	271	267	264	264	270	280	288	292	295	299	301	301		1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	343	344	346	346	345	346	345	344	341	337	332	323	317	315	315	320	331	340	347	348	349	348	346	347		
FEBRUARY	341	343	343	343	342	341	339	338	337	336	335	332	323	312	302	298	302	311	322	332	339	342	342	342		
MARCH	332	332	333	334	334	333	332	332	331	332	332	331	326	315	303	297	301	309	320	328	332	333	332	333		
APRIL	321	322	323	323	323	323	322	324	325	325	325	323	317	309	302	300	304	312	318	322	322	322	322	323		
MAY	318	320	318	318	319	318	319	317	320	321	322	323	322	320	315	313	314	318	321	322	323	322	321	321		
JUNE	309	310	308	309	309	309	310	311	311	311	311	312	312	310	308	307	309	313	315	314	312	312	311	311		
JULY	310	309	309	310	309	310	309	310	311	313	314	315	315	314	311	310	310	313	317	315	314	313	311	311		
AUGUST	304	305	305	305	308	307	308	309	310	312	314	315	314	308	302	298	299	301	305	307	305	304	305	304		
SEPTEMBER	295	297	301	301	302	303	303	302	302	302	304	304	299	292	283	280	281	286	294	294	300	295	292	297		
OCTOBER	293	294	294	293	290	290	288	287	287	288	288	286	278	269	261	262	267	276	284	291	295	296	295	296		
NOVEMBER	298	299	298	299	299	298	294	293	290	286	281	275	265	256	253	255	263	275	284	289	295	299	303	304		
DECEMBER	301	302	301	300	300	299	297	295	290	286	282	279	275	272	268	268	272	282	291	298	301	300	300	300		

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	343	335	339	344	334	325	330	339	334	331	327	318	310	298	291	298	306	315	324	329	330	331	330	333		
FEBRUARY	333	333	339	339	335	334	328	324	327	325	322	322	311	300	292	284	292	299	315	316	324	330	330	332		
MARCH	331	334	332	330	336	336	333	335	325	325	324	322	316	304	293	288	295	298	311	318	316	319	323	323		
APRIL	314	318	323	325	330	328	328	328	327	326	324	322	320	311	299	301	306	314	318	318	316	318	318	321		
MAY	311	314	298	302	302	311	313	310	313	314	309	308	308	304	298	297	298	300	308	310	312	309	309	308		
JUNE	274	274	279	274	273	276	288	283	295	292	293	295	297	297	297	298	297	295	293	291	285	278	281	283		
JULY	297	299	299	293	296	300	296	300	299	300	300	304	307	309	307	301	299	299	300	298	289	292	290	285		
AUGUST	282	281	290	281	286	282	287	290	294	296	295	300	296	287	285	280	279	282	273	282	280	268	265	272		
SEPTEMBER	234	242	222	199	245	250	257	268	258	250	259	256	253	249	242	236	244	254	266	270	272	259	271	266		
OCTOBER	262	259	262	262	271	277	272	276	269	255	272	267	257	248	247	246	238	243	260	267	267	263	260	267		
NOVEMBER	300	290	296	292	289	292	285	284	280	275	273	275	264	256	258	252	247	259	270	277	269	284	284	283		
DECEMBER	310	307	312	310	308	307	296	293	283	277	270	265	261	254	252	252	260	267	283	288	293	290	291	292		1

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

ARGENTINE ISLANDS

1964

Horizontal Intensity

Tabular Baseline= 23000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	291	295	297	298	296	294	291	287	282	278	276	271	268	263	261	261	266	275	280	284	285	285	285	289	
FEBRUARY	282	283	284	286	285	285	284	281	278	276	273	271	267	260	255	255	258	265	271	274	277	277	274	277	
MARCH	275	277	276	275	275	275	275	274	274	273	271	268	261	252	246	246	251	257	263	266	266	267	269	272	
APRIL	260	263	263	263	266	267	266	266	267	267	268	267	262	255	248	245	247	252	259	261	257	255	255	251	
MAY	251	254	256	256	258	259	261	261	262	263	263	263	262	258	252	250	253	256	259	258	258	256	255	254	
JUNE	254	253	252	254	252	251	252	253	255	256	258	260	260	259	256	254	254	256	258	257	256	253	252	253	
JULY	248	250	249	251	252	252	253	252	253	254	255	255	257	255	253	251	252	254	255	253	251	249	248	248	
AUGUST	246	247	249	249	248	250	250	250	251	252	252	253	251	248	243	238	239	242	244	246	246	246	246	246	
SEPTEMBER	245	246	249	249	247	247	247	247	247	248	248	246	243	236	229	227	228	233	238	241	242	240	241	243	
OCTOBER	243	245	246	247	248	246	245	243	242	240	239	236	227	216	211	212	219	227	236	239	240	240	241	242	
NOVEMBER	251	252	252	251	251	248	246	245	242	239	234	225	219	214	214	219	226	234	237	241	243	247	248	248	
DECEMBER	255	255	255	255	254	254	251	248	245	241	235	229	224	220	220	223	230	238	243	244	247	249	253	254	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	293	293	294	294	293	292	290	287	284	282	279	276	270	264	261	264	271	281	290	291	291	290	291	294	
FEBRUARY	280	282	283	283	283	282	281	279	277	274	273	272	269	261	255	252	255	265	274	275	281	281	281	283	
MARCH	276	277	277	278	279	278	276	275	274	273	271	268	262	254	250	251	255	261	266	270	272	274	277	279	
APRIL	268	268	269	270	270	269	270	270	270	271	271	271	265	258	252	252	258	265	271	272	271	271	271	270	
MAY	263	263	264	263	263	262	263	263	263	264	264	265	264	259	256	254	256	262	265	265	265	265	264	264	
JUNE	260	261	260	260	260	260	260	260	260	261	263	263	262	261	257	255	258	261	263	264	263	262	261	261	
JULY	251	252	253	253	254	254	254	254	253	254	256	257	258	256	253	250	253	256	259	259	257	256	255	254	
AUGUST	246	248	248	250	252	251	251	251	251	253	254	255	253	248	243	239	240	244	248	247	250	250	251	251	
SEPTEMBER	248	250	251	250	250	249	249	249	249	250	250	248	245	239	233	234	237	242	245	249	249	248	248	249	
OCTOBER	244	245	245	244	243	243	243	243	241	240	238	234	225	216	213	215	223	231	239	243	245	245	246	247	
NOVEMBER	245	245	246	246	246	243	243	242	242	239	234	225	216	214	211	216	224	234	233	239	240	244	246	246	
DECEMBER	258	257	256	257	256	255	253	251	249	245	239	230	225	223	226	228	234	238	241	244	244	245	251	256	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	298	306	309	310	306	298	290	285	275	267	274	266	263	254	249	240	241	254	262	274	280	281	282	283	
FEBRUARY	286	289	289	292	284	285	284	282	277	271	272	267	266	263	258	264	258	264	263	262	265	268	264	269	
MARCH	275	282	276	274	276	266	269	273	272	270	265	262	259	251	243	240	241	241	243	248	242	249	250	257	
APRIL	250	256	252	255	261	267	266	262	265	263	266	261	256	249	242	234	232	233	244	246	229	226	224	219	
MAY	238	244	247	244	250	247	252	254	257	262	263	260	261	258	243	239	240	245	250	247	251	251	246	245	
JUNE	241	238	231	233	225	219	227	236	241	244	247	251	249	251	249	246	243	242	244	241	244	242	238	246	
JULY	250	254	244	252	249	245	250	249	252	254	252	253	257	255	257	253	253	251	250	245	246	239	240	239	
AUGUST	252	254	255	247	248	248	243	244	248	248	248	250	245	246	238	230	233	238	238	236	239	241	244	238	
SEPTEMBER	247	247	251	245	243	245	243	243	246	249	242	241	238	228	217	211	211	218	226	229	228	229	231	237	
OCTOBER	243	245	251	258	257	257	252	243	242	237	236	234	223	210	203	208	213	218	227	220	226	229	224	231	
NOVEMBER	255	252	251	252	250	247	245	242	238	237	238	223	218	212	213	219	224	228	231	236	240	244	242	237	
DECEMBER	260	261	260	260	259	259	255	252	247	243	235	229	224	219	225	230	236	240	244	250	255	256	249	250	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1965

Horizontal Intensity

Tabular Baseline= 23000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	244	245	245	246	243	242	241	239	236	231	228	224	221	217	217	221	226	232	236	238	240	240	242	244	
FEBRUARY	232	234	235	235	234	233	232	230	229	227	223	219	214	208	204	204	210	220	227	232	232	229	228	230	
MARCH	222	225	225	227	228	228	226	224	223	223	223	221	213	205	198	195	198	204	212	218	221	220	220	222	
APRIL	213	213	214	214	213	214	210	211	213	212	213	212	209	202	193	191	196	204	209	212	212	211	211	211	
MAY	207	206	206	208	209	209	208	208	209	211	211	212	212	208	204	202	204	207	210	211	210	207	205	205	
JUNE	197	199	199	200	203	203	203	204	206	208	207	208	208	204	202	200	201	203	203	203	201	199	195	196	
JULY	197	198	198	198	199	201	201	203	203	203	204	205	204	203	200	198	199	202	204	203	201	199	198	196	
AUGUST	191	192	194	196	198	199	199	200	201	202	202	204	202	198	192	189	189	192	195	195	193	191	192	192	
SEPTEMBER	186	189	192	194	195	195	195	194	195	194	196	196	191	183	175	170	171	177	183	188	188	187	187	187	
OCTOBER	196	196	198	200	200	200	198	195	193	192	192	192	186	176	167	163	165	174	182	189	193	193	194	195	
NOVEMBER	197	198	199	199	198	197	195	194	191	188	183	177	169	165	165	169	177	186	191	193	193	194	194	196	
DECEMBER	197	198	199	199	198	195	193	190	187	182	177	172	168	163	163	166	172	181	188	192	193	196	197	196	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	241	242	242	244	242	242	239	236	233	230	227	223	220	218	218	221	223	228	233	236	239	242	245	243	
FEBRUARY	229	232	234	235	235	234	233	233	231	229	226	223	217	214	213	215	221	229	234	236	235	232	232	234	
MARCH	225	227	227	227	227	227	226	226	225	224	225	224	218	208	198	194	196	204	215	222	226	226	226	228	
APRIL	213	215	217	216	217	217	215	215	214	214	214	214	210	201	195	193	197	205	212	217	217	216	216	216	
MAY	207	208	208	208	210	210	210	209	210	213	215	215	215	210	205	203	205	208	213	213	211	210	210	209	
JUNE	200	201	201	201	204	203	203	204	204	205	207	208	208	205	202	201	204	207	209	210	208	208	206	205	
JULY	196	197	199	201	201	202	202	203	203	204	204	205	205	204	200	197	198	200	203	205	204	203	202	200	
AUGUST	196	197	199	200	201	202	201	201	202	203	204	205	204	200	192	191	193	196	200	203	202	199	198	200	
SEPTEMBER	195	196	197	198	196	195	195	195	196	197	199	199	196	187	176	171	172	178	185	191	194	193	194	194	
OCTOBER	195	196	197	199	198	195	193	192	192	192	192	191	186	178	169	162	164	173	182	190	194	195	195	195	
NOVEMBER	197	197	198	197	195	195	193	192	190	186	180	173	167	163	163	167	176	186	192	195	195	197	197	197	
DECEMBER	198	200	201	200	197	195	194	192	189	185	179	172	168	165	165	165	170	179	187	193	196	199	200	200	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	249	248	250	251	250	248	242	240	238	227	227	226	221	216	216	222	227	231	232	232	233	233	239	244	
FEBRUARY	229	233	235	230	224	224	225	223	227	224	222	218	214	204	200	197	196	207	213	224	224	219	214	223	
MARCH	215	216	214	216	214	210	215	217	215	220	214	210	203	199	196	191	197	204	207	210	210	208	210	212	
APRIL	208	205	201	200	189	196	177	188	198	190	195	191	193	194	185	182	189	198	199	203	199	197	196	195	
MAY	207	200	196	201	207	207	203	201	205	206	206	208	210	206	203	200	201	201	203	204	200	191	186	189	
JUNE	181	181	186	188	196	196	196	198	207	209	207	206	203	194	189	186	187	184	179	178	176	175	173	173	
JULY	200	197	194	195	191	199	195	201	201	198	202	201	199	200	197	197	198	199	197	196	195	192	192	189	
AUGUST	180	179	186	192	194	203	190	193	197	197	195	199	196	192	188	188	187	188	189	185	180	179	184	184	
SEPTEMBER	160	167	177	184	186	188	193	188	189	183	187	186	174	172	169	163	169	171	174	180	169	169	173	175	
OCTOBER	194	189	194	205	206	201	199	191	190	188	189	187	179	172	167	163	167	176	182	183	180	179	181	189	
NOVEMBER	194	194	195	196	194	192	192	193	190	188	182	177	165	161	166	173	179	188	190	191	189	186	182	185	
DECEMBER	200	202	200	200	199	196	192	187	187	184	179	179	177	164	161	171	173	179	187	185	185	193	193	195	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

        1966   Tabular Baseline= 23000 nT

                                                                    no of days
                                                                    excluded

                          All-days mean diurnal variation

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     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  190 192 194 193 193 191  190 187 185 181 177 173  167 160 156 156 159 168  175 183 184 186 188 190
FEBRUARY 180 182 183 184 184 181  180 179 177 174 171 166  158 151 145 145 150 159  168 174 174 176 176 178
MARCH    162 164 166 166 167 165  166 166 167 170 168 166  157 148 138 133 137 144  152 158 161 162 159 160
APRIL    158 159 160 162 164 164  163 163 164 164 164 164  158 149 141 138 141 148  154 156 156 155 156 157
MAY      149 149 151 151 152 153  155 155 156 157 158 157  155 151 145 142 143 148  150 148 146 143 143 144
JUNE     143 145 147 146 147 147  148 148 149 150 152 154  153 151 148 146 147 149  149 148 147 147 146 144
JULY     135 136 137 139 140 140  139 142 144 146 147 148  147 144 140 139 140 142  144 145 144 142 139 138
AUGUST   133 135 137 136 139 140  141 142 143 143 145 146  145 138 132 129 130 132  133 138 137 136 133 131
SEPTEMBER 119 123 123 125 124 125  128 130 130 128 131 134  126 116 106  98  99 104  111 118 119 119 119 121
OCTOBER  136 138 139 141 139 137  136 136 133 134 135 133  125 113 103  98 100 108  120 129 132 135 134 133
NOVEMBER 142 145 145 144 142 140  136 133 131 128 122 115  108 101 101 104 112 124  130 134 139 140 140 143
DECEMBER 139 141 143 144 142 139  137 133 127 122 115 107  100  93  89  92 101 110  118 126 130 133 136 137
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                          Quiet-days mean diurnal variation

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     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  191 192 192 192 192 190  190 188 186 183 178 173  167 161 156 153 155 164  176 184 189 190 193 195
FEBRUARY 181 183 182 182 181 180  179 178 176 173 170 167  163 157 150 149 151 157  167 178 181 182 181 182
MARCH    164 167 169 172 173 170  170 168 166 165 165 163  157 147 139 136 137 143  152 162 168 170 169 170
APRIL    165 165 167 167 166 166  165 165 165 165 165 165  160 151 141 138 143 152  160 164 164 165 165 166
MAY      159 160 160 159 159 158  158 159 159 160 161 163  162 157 152 150 154 160  163 163 160 158 159 159
JUNE     151 151 150 150 150 150  150 151 151 153 153 154  155 153 150 149 150 153  155 155 155 155 153 153
JULY     141 142 142 142 143 144  143 144 144 145 146 146  145 143 141 140 142 146  148 149 149 148 147 146
AUGUST   141 143 143 142 143 144  144 144 143 146 147 147  145 140 133 129 131 135  140 144 146 145 143 142
SEPTEMBER 130 133 132 133 132 132  134 132 134 135 136 137  130 119 108 100 102 110  117 126 129 130 133 134
OCTOBER  141 142 143 144 144 142  142 142 140 139 139 136  128 116 106 103 108 118  129 137 141 143 144 145
NOVEMBER 142 144 146 146 145 145  144 142 138 133 126 118  111 104 105 110 119 129  137 141 143 145 148 151
DECEMBER 146 145 146 146 145 145  143 140 137 130 122 114  106  99  97  98 107 117  125 132 141 147 150 149
```

                        Disturbed-days mean diurnal variation

```
     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  184 189 193 190 190 189  188 182 181 178 176 171  163 150 144 152 156 161  171 180 176 179 180 179
FEBRUARY 179 179 181 184 185 175  173 173 171 164 166 163  150 144 139 137 143 157  168 172 157 168 169 170
MARCH    151 151 152 150 153 148  155 154 167 182 166 169  152 149 132 121 122 131  132 131 130 142 144 147
APRIL    147 154 156 157 161 167  165 164 162 161 162 161  155 145 139 135 134 138  143 141 139 135 136 137
MAY      137 138 140 143 145 150  151 153 155 158 154 157  152 147 140 137 138 142  143 145 141 139 141 140
JUNE     122 132 138 138 142 143  143 142 145 147 150 157  153 151 145 142 139 139  136 133 131 132 133 138
JULY     115 118 120 127 127 124  117 132 136 138 142 146  140 135 133 130 129 131  133 133 132 125 124 124
AUGUST   110 114 120 114 122 128  127 132 132 133 141 144  148 129 126 123 122 116  107 120 110 108 105 101
SEPTEMBER  90  92  83  91  86  85  101 115 116 100 105 115  109 111  93  82  86  87   91  95  98  87  81  86
OCTOBER  132 131 131 135 134 130  127 131 124 132 133 125  114 101  92  88  88 100  109 125 116 117 120 120
NOVEMBER 139 144 145 142 138 136  132 124 125 124 115 112  108 102  99  93 101 113  121 127 140 136 133 138
DECEMBER 144 152 158 156 147 142  137 131 126 121 115 107   96  90  82  80  92 104  107 115 120 121 124 128
```

    Note:-The last column shows the number of days excluded
          from the calculation of the means because the
          days include missing hourly values.

        ARGENTINE ISLANDS   Horizontal Intensity

        1967   Tabular Baseline= 23000 nT

                                                                    no of days
                                                                    excluded

                          All-days mean diurnal variation

```
     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  128 128 129 128 127 126  124 121 121 114 109 102   95  87  85  85  95 108  118 123 122 123 125 126
FEBRUARY 116 121 121 124 124 122  119 116 114 112 106  99   91  84  78  78  83  90   99 107 108 110 111 112
MARCH    116 118 121 121 119 118  117 116 115 115 114 110  100  86  74  68  71  80   92 102 107 110 111 115
APRIL    102 102 103 106 107 107  110 108 109 109 110 109  103  90  78  71  75  83   91  97  98 100 101 102
MAY       70  76  68  66  71  65   73  77  83  87  89  88   87  79  71  68  70  74   78  78  79  77  74  75
JUNE      66  65  69  73  75  77   80  82  82  84  86  86   85  83  79  76  76  79   81  79  77  76  73  71
JULY      79  80  80  82  83  84   85  86  88  89  89  89   87  86  85  80  78  80   82  85  87  85  83  81  80
AUGUST    81  83  86  86  89  90   89  90  91  91  92  92   90  82  73  68  63  73   81  85  84  82  80  80
SEPTEMBER 74  78  78  78  80  82   81  81  81  83  85  81   72  59  48  41  40  49   59  67  70  70  71  73
OCTOBER   82  83  85  86  87  85   83  83  83  81  80  75   63  48  37  34  40  53   66  73  75  76  79  83
NOVEMBER  89  88  88  86  86  84   82  80  77  72  66  58   49  42  41  46  54  65   74  82  85  83  86  87
DECEMBER  89  87  86  85  83  80   78  73  70  67  62  56   48  38  32  35  45  55   64  72  77  82  86  88
```

                          Quiet-days mean diurnal variation

```
     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  128 129 131 132 130 129  127 124 120 116 109 102   97  88  83  85  93 106  117 125 127 131 132 133
FEBRUARY 121 124 127 128 129 127  125 123 120 117 116 110  100  90  87  88  93 101  108 114 115 113 115 119
MARCH    120 121 123 124 124 124  122 120 120 120 117 111  100  87  77  73  76  88  102 112 117 120 121 122
APRIL    107 108 108 110 111 110  110 111 111 111 111 110  103  93  83  80  85  93  102 107 108 109 109 110
MAY       90  93  91  92  94  98   98  97  98  98  99  99   98  92  84  79  80  85   91  93  93  93  95  96
JUNE      79  80  83  84  83  84   87  86  87  87  88  89   88  85  79  77  79  84   87  89  89  87  87  86
JULY      85  86  87  86  87  87   87  87  88  89  90  90   89  86  81  79  81  86   90  92  91  90  88  88
AUGUST    86  88  89  88  88  88   90  89  90  91  92  92   90  83  74  68  69  74   83  87  88  87  87  87
SEPTEMBER 77  79  82  84  86  86   85  86  87  88  89  87   80  70  57  49  51  61   71  80  83  84  84  86
OCTOBER   87  90  92  92  91  90   88  88  87  84  81  76   65  51  40  37  45  59   70  80  85  87  90  91
NOVEMBER  90  90  91  91  92  91   90  87  84  79  71  60   49  42  41  48  59  70   81  87  88  85  89  90
DECEMBER  89  85  82  82  82  83   83  80  77  73  67  62   56  45  38  42  53  64   70  73  75  76  83  85
```

                        Disturbed-days mean diurnal variation

```
     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  137 129 124 112 109 106  103 102 116 104  95  88   87  87  89  78  90 112  122 123 119 118 120 116
FEBRUARY 112 122 118 125 121 121  121 115 110 110  92  74   66  70  62  64  67  66   77  97  94  93  91  88
MARCH    114 114 116 120 114 111  115 117 113 111 112 108   98  86  73  69  68  71   80  92  96  97  98 104
APRIL     86  83  85  90  99 100  105 104 109 110 111 106  100  90  79  70  71  79   85  87  83  86  90  92
MAY       13  42  -8 -22  -3 -65  -13   4  37  46  58  48   50  29  29  40  37  40   39  35  39  22  16  26
JUNE      34  16  37  51  51  63   69  68  69  74  78  78   78  79  77  77  77  80   79  67  59  59  49  39
JULY      77  69  66  70  76  72   78  80  89  89  87  86   84  84  78  74  75  75   78  81  75  66  61  65
AUGUST    76  82  86  83  90  92   92  95  94  94  94  96   95  86  78  68  67  73   81  80  75  73  68  67
SEPTEMBER 67  62  59  49  56  64   67  58  58  66  73  62   49  34  20  17  12  27   34  45  51  46  47  50
OCTOBER   76  77  79  79  85  84   82  81  81  76  82  76   63  46  33  33  32  46   56  65  70  69  75  76
NOVEMBER  87  89  84  79  82  84   78  74  73  66  61  57   49  42  39  46  55  66   76  84  81  77  75  83
DECEMBER  92  91  88  81  74  65   64  59  56  59  53  44   35  24  10  15  30  44   61  64  80  86  90  90
```

    Note:-The last column shows the number of days excluded
          from the calculation of the means because the
          days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1968   Tabular Baseline= 22500 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	577	578	578	579	578	577	573	569	567	562	557	551	541	530	521	517	523	536	548	558	566	572	576	576	
FEBRUARY	561	566	567	568	568	565	564	562	562	558	556	549	536	524	512	507	512	523	536	548	554	559	561	559	
MARCH	553	556	558	560	560	559	557	560	557	555	554	551	543	531	518	509	509	518	528	537	542	544	542	547	
APRIL	543	544	546	548	550	551	552	553	554	551	553	552	546	533	520	514	515	523	531	537	540	539	538	541	
MAY	537	537	538	539	541	542	542	542	544	545	546	547	545	539	530	524	524	528	533	536	537	534	534	535	
JUNE	532	530	530	531	530	531	533	538	539	541	542	540	540	536	530	525	525	528	531	531	530	528	527	527	
JULY	530	531	530	530	533	532	533	533	535	537	538	538	534	532	528	526	527	532	535	535	536	536	534	532	531
AUGUST	529	529	529	532	533	534	534	535	536	535	537	537	535	526	517	512	513	519	525	531	530	529	530	528	
SEPTEMBER	524	526	530	527	529	530	530	530	531	532	533	530	524	511	497	489	491	500	510	519	522	521	522	524	
OCTOBER	531	531	532	532	531	529	529	528	528	527	526	522	510	492	479	478	486	494	506	516	521	523	525	528	
NOVEMBER	524	524	524	524	522	520	518	516	514	510	503	494	475	469	467	471	481	493	503	507	514	521	522	525	
DECEMBER	530	532	536	535	532	529	529	524	520	517	514	504	492	481	475	475	485	497	510	520	523	528	529	532	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	576	580	582	583	582	582	578	574	569	568	568	564	551	539	531	525	531	543	555	563	571	576	578	580	
FEBRUARY	567	571	571	571	571	570	569	567	566	566	561	553	541	528	518	515	520	536	550	559	566	566	572	566	
MARCH	558	560	562	563	566	563	562	561	560	560	558	552	544	534	523	515	518	527	540	548	552	553	553	554	
APRIL	554	556	556	557	557	556	555	556	556	557	557	555	548	537	524	520	523	532	543	551	555	554	554	555	
MAY	546	547	546	544	548	548	548	548	549	551	552	553	550	544	534	530	531	537	543	546	549	549	549	548	
JUNE	539	540	540	540	541	542	540	541	540	542	543	543	542	540	537	534	534	538	542	545	545	543	543	544	
JULY	531	533	536	536	538	539	537	537	536	537	539	539	538	535	529	527	532	538	543	545	543	542	542	541	
AUGUST	537	537	536	539	541	540	539	540	541	541	542	541	537	529	523	518	519	523	529	535	537	536	535	537	
SEPTEMBER	532	534	535	536	536	535	534	533	532	533	533	531	522	508	494	487	491	503	515	523	527	530	531	533	
OCTOBER	534	537	537	538	537	535	535	534	535	532	530	524	512	499	489	486	491	503	517	527	532	536	537	537	
NOVEMBER	530	534	534	535	533	530	527	526	523	517	509	502	492	483	478	482	492	503	514	523	526	526	531	534	
DECEMBER	524	527	530	531	532	531	530	527	522	520	516	506	493	480	472	473	485	502	513	521	526	528	532	534	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	572	572	571	571	569	570	564	561	560	548	536	538	533	521	508	508	514	533	543	550	554	566	571	571	
FEBRUARY	555	561	558	563	565	559	557	559	560	550	550	541	521	507	498	501	513	515	523	537	535	539	546	542	
MARCH	554	555	557	559	559	563	555	559	552	551	551	551	538	533	526	515	505	512	519	529	534	536	537	542	
APRIL	531	527	527	535	537	544	548	542	552	541	545	544	539	528	512	502	503	509	514	518	519	525	526	529	
MAY	537	532	533	536	546	542	535	532	538	545	544	542	538	531	521	515	513	515	522	526	519	517	516	518	
JUNE	517	503	499	499	492	491	504	523	532	540	537	526	530	519	512	506	507	509	510	508	502	504	504	502	
JULY	529	531	520	521	530	522	526	526	534	537	535	535	532	533	528	525	525	528	525	522	521	522	513	517	
AUGUST	516	517	520	531	521	526	526	527	526	526	529	527	521	511	503	495	500	507	510	523	519	510	518	517	
SEPTEMBER	501	500	508	493	504	512	519	524	525	524	526	518	514	500	482	464	474	486	491	505	513	511	515	520	
OCTOBER	533	513	518	519	515	505	512	514	514	524	522	530	513	482	448	458	468	461	470	483	487	488	487	496	
NOVEMBER	495	485	487	487	486	488	484	483	485	487	482	468	416	424	426	434	446	465	481	480	492	507	511	507	
DECEMBER	530	535	542	540	528	521	534	526	520	520	519	500	481	468	464	470	476	486	508	518	522	530	529	528	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1969   Tabular Baseline= 22100 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	925	925	925	926	926	925	923	920	916	913	911	909	900	889	879	874	876	884	893	903	912	917	920	922	
FEBRUARY	905	908	912	914	913	912	910	909	908	905	903	898	889	880	868	862	862	872	880	889	899	904	902	902	
MARCH	891	892	894	896	898	897	897	897	898	899	896	890	879	864	851	848	853	862	872	883	888	888	888	890	
APRIL	885	886	889	893	894	893	893	892	892	892	893	892	885	872	861	857	860	866	874	877	880	881	881	886	
MAY	877	878	878	878	879	880	880	883	887	888	890	887	884	877	869	865	867	872	877	879	877	878	876	876	
JUNE	878	878	878	876	881	882	883	883	885	886	886	887	886	884	878	874	873	876	879	881	881	879	878	878	
JULY	877	876	876	876	876	880	881	881	884	885	886	887	886	882	876	874	875	879	882	881	881	881	878	876	
AUGUST	876	875	875	877	877	879	881	882	883	884	886	886	881	872	863	859	860	865	872	875	876	874	875	876	
SEPTEMBER	867	869	870	874	874	875	877	877	878	882	881	877	869	855	841	837	839	844	854	862	865	865	865	866	
OCTOBER	877	879	878	876	876	874	873	872	871	870	869	864	853	841	827	821	824	835	850	861	868	869	872	874	
NOVEMBER	882	883	882	882	880	878	875	872	870	866	860	853	842	834	830	832	842	857	866	874	878	880	881	881	
DECEMBER	881	882	884	884	884	882	879	876	870	865	860	854	848	839	833	834	841	853	865	875	880	882	882	880	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	921	924	926	925	925	925	925	923	919	915	913	910	904	893	881	872	873	881	893	905	915	922	924	924	
FEBRUARY	911	914	916	917	917	916	915	914	913	911	908	903	895	884	872	864	863	873	888	899	907	911	913	914	
MARCH	902	903	905	905	903	902	900	899	901	902	900	895	882	865	853	850	854	866	880	891	898	900	901	904	
APRIL	888	894	896	897	897	897	897	894	894	894	895	894	887	877	866	862	864	871	881	887	891	891	891	893	
MAY	888	888	889	886	888	890	891	893	892	893	893	893	890	884	878	876	878	884	887	890	891	892	893	892	
JUNE	881	881	882	883	882	882	885	885	886	887	888	888	886	884	879	877	877	881	886	888	887	884	884	884	
JULY	882	883	883	882	882	884	885	885	885	886	887	888	888	885	880	877	878	882	887	888	887	886	886	886	
AUGUST	878	882	882	881	882	882	883	883	882	883	884	884	880	871	862	859	861	866	873	878	880	881	882	883	
SEPTEMBER	874	879	881	880	879	880	882	884	883	883	885	883	875	860	849	844	846	853	863	872	878	879	880	881	
OCTOBER	879	880	882	881	880	877	879	879	875	874	874	869	862	850	837	828	829	841	853	864	873	877	881	881	
NOVEMBER	883	882	881	879	878	876	876	877	876	873	868	859	848	838	832	831	839	854	867	875	882	883	885	888	
DECEMBER	887	889	890	890	889	887	896	883	877	871	866	860	851	840	829	826	838	856	870	881	896	887	887	884	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	930	918	919	923	921	919	914	908	904	902	902	896	889	884	878	875	876	887	891	898	903	910	915	919	
FEBRUARY	894	890	896	904	903	902	899	901	899	899	893	890	875	870	856	852	853	873	862	862	873	887	872	871	
MARCH	861	852	857	858	864	866	872	866	876	883	874	864	857	849	836	833	835	843	856	866	871	866	867	861	
APRIL	881	885	887	894	895	889	886	883	881	885	886	891	882	859	850	846	849	853	853	855	864	863	864	876	
MAY	843	847	841	845	843	847	856	864	876	885	885	874	874	862	847	842	841	845	855	853	834	844	845	845	
JUNE	877	876	874	864	872	875	879	882	881	880	878	883	882	882	878	873	871	873	873	877	878	878	872	876	
JULY	868	857	859	857	859	869	869	871	879	880	880	882	885	882	876	874	874	875	875	870	873	873	869	860	
AUGUST	881	876	868	870	873	879	881	881	883	885	889	891	885	874	860	856	853	856	863	866	866	860	861	861	
SEPTEMBER	839	853	852	867	870	871	874	866	869	883	881	861	861	847	825	821	824	824	836	844	846	845	839	843	
OCTOBER	868	870	865	861	858	854	856	858	861	858	858	858	838	831	813	808	821	833	844	852	851	857	860		
NOVEMBER	879	882	879	882	878	877	867	858	857	851	852	848	833	823	816	817	832	847	861	858	865	871	874	878	
DECEMBER	882	894	896	888	886	883	879	877	867	862	856	851	846	836	829	833	842	851	866	881	877	877	878	877	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1970

Horizontal Intensity

Tabular Baseline= 22500 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	477	478	479	479	478	475	475	473	470	467	464	458	448	437	429	425	428	440	452	462	468	473	475	477
FEBRUARY	464	467	468	469	469	466	463	462	461	459	457	455	445	431	416	406	406	416	429	442	452	458	461	461
MARCH	439	443	447	445	443	444	444	444	445	446	446	444	433	415	394	390	394	404	415	426	437	444	437	437
APRIL	430	429	428	429	430	433	437	436	437	437	439	437	430	417	405	398	399	406	415	422	425	426	426	428
MAY	427	427	429	430	431	431	433	433	435	437	439	437	433	425	417	412	413	417	423	428	428	428	427	426
JUNE	420	418	419	421	421	423	423	425	427	429	430	431	429	426	420	417	417	420	423	425	424	423	421	420
JULY	405	409	410	411	412	414	412	414	418	418	418	420	418	416	410	407	408	410	414	415	415	413	408	407
AUGUST	411	410	414	411	409	411	414	414	415	419	420	419	415	408	399	396	397	400	406	411	413	413	411	410
SEPTEMBER	417	420	420	421	420	419	416	418	420	419	420	418	408	395	384	379	382	392	400	407	410	411	412	413
OCTOBER	414	415	416	417	414	413	412	412	412	412	408	402	392	380	369	366	372	385	398	403	409	411	409	413
NOVEMBER	422	423	424	421	419	416	414	412	411	409	405	395	382	368	361	360	369	384	396	405	414	418	418	421
DECEMBER	420	421	420	417	415	413	410	401	400	400	395	387	379	371	368	369	375	388	397	405	409	413	417	419

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	473	477	479	478	478	478	476	474	469	465	464	458	446	434	426	422	425	440	449	457	466	474	474	475
FEBRUARY	464	464	466	467	467	466	463	462	460	460	458	457	447	432	416	402	398	407	423	437	451	459	461	463
MARCH	452	454	454	454	454	453	452	452	452	453	454	450	439	422	407	400	402	413	426	440	449	451	452	454
APRIL	442	443	443	443	444	444	444	446	446	446	446	444	434	420	409	406	409	418	426	433	436	438	439	440
MAY	436	437	437	437	438	437	436	437	437	438	438	437	435	430	421	416	418	424	432	435	436	437	437	435
JUNE	426	425	426	427	427	428	428	428	430	431	433	434	431	429	426	423	424	427	430	433	433	431	431	430
JULY	415	418	418	420	419	422	422	422	424	426	428	426	423	419	415	414	415	418	422	424	423	421	419	417
AUGUST	418	421	422	422	421	421	422	422	422	423	424	425	422	416	409	406	408	411	417	422	422	422	423	424
SEPTEMBER	422	424	425	427	430	427	422	421	422	420	422	420	411	400	389	384	387	395	404	413	415	416	417	420
OCTOBER	420	423	424	424	422	421	420	419	419	419	417	412	402	388	376	372	380	394	407	417	421	421	421	422
NOVEMBER	422	424	426	426	427	426	425	422	418	416	410	402	388	375	366	366	377	394	408	416	420	423	424	425
DECEMBER	416	419	421	421	420	418	414	411	407	403	400	393	383	372	369	372	379	390	399	406	410	416	417	420

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	484	481	480	475	476	468	468	467	470	468	460	449	441	435	427	423	423	435	447	454	459	471	477	477
FEBRUARY	461	467	472	473	470	464	463	463	462	458	456	458	451	435	423	413	415	422	435	446	449	457	462	458
MARCH	411	413	431	424	417	419	421	422	428	431	430	433	415	391	348	369	389	400	403	405	431	460	409	402
APRIL	412	408	404	412	402	415	423	419	422	424	433	428	425	404	390	385	386	387	396	407	410	406	408	412
MAY	418	412	422	426	426	429	428	432	430	433	444	435	428	420	416	407	405	408	411	414	412	411	409	409
JUNE	401	403	405	407	402	405	410	413	421	425	427	433	425	415	408	407	407	406	411	415	411	411	406	407
JULY	387	404	412	407	405	396	392	397	407	415	407	413	408	407	399	395	399	402	403	399	395	394	383	387
AUGUST	389	381	399	387	374	369	383	393	397	411	415	407	393	383	377	378	377	373	380	389	394	394	388	385
SEPTEMBER	413	418	415	418	416	416	409	418	421	410	413	417	406	392	377	373	375	387	392	397	393	399	401	399
OCTOBER	400	396	395	396	397	399	398	399	401	398	390	384	384	375	364	356	360	370	381	379	392	397	392	396
NOVEMBER	422	429	424	413	403	394	394	389	396	397	394	379	370	346	341	345	354	369	382	391	401	410	409	413
DECEMBER	418	423	417	412	408	406	396	359	367	381	377	374	368	358	356	353	358	372	377	382	390	399	406	404

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1971

Horizontal Intensity

Tabular Baseline= 22000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	916	917	919	918	917	914	912	909	905	901	898	893	882	872	865	865	874	887	898	904	910	916	915	916
FEBRUARY	899	900	901	904	901	901	901	899	898	896	894	891	883	867	854	947	850	860	872	884	891	896	894	895
MARCH	884	888	889	891	892	891	891	891	890	888	888	883	876	864	853	849	850	857	868	875	878	878	880	883
APRIL	866	869	871	872	875	876	876	876	877	877	878	877	871	862	852	848	850	857	862	865	866	867	867	865
MAY	863	860	863	866	867	868	871	872	874	873	874	874	872	867	860	858	860	863	866	867	865	865	863	864
JUNE	865	864	864	866	868	868	868	869	870	872	874	875	871	868	866	864	865	868	869	866	864	864	863	865
JULY	857	860	861	859	863	864	867	866	866	868	869	871	871	868	863	861	861	863	866	865	863	861	859	858
AUGUST	857	856	857	859	861	862	862	863	864	866	868	869	866	861	855	852	853	857	861	863	862	860	860	857
SEPTEMBER	850	853	853	853	854	855	855	855	855	856	858	857	851	843	834	831	833	839	845	849	851	851	850	850
OCTOBER	854	856	857	855	855	854	853	852	851	850	849	848	842	831	825	822	826	833	843	849	851	852	852	852
NOVEMBER	863	864	864	862	862	861	859	858	857	854	848	841	833	828	825	828	835	846	853	856	859	861	862	863
DECEMBER	859	858	860	861	861	857	855	852	848	843	837	831	824	819	817	822	829	838	847	854	856	859	859	858

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	911	911	914	915	915	916	916	915	913	908	901	891	880	875	877	884	900	915	920	920	920	918	915	912
FEBRUARY	903	907	908	911	908	906	906	905	904	901	899	896	888	874	860	853	853	864	881	892	900	904	905	907
MARCH	887	889	890	890	890	889	890	888	888	889	888	885	877	866	856	853	858	866	875	883	889	886	888	889
APRIL	881	881	882	881	882	880	880	880	880	882	883	881	876	869	859	854	858	864	871	877	878	878	877	878
MAY	866	868	869	870	871	873	874	875	876	876	877	877	874	871	865	862	864	868	872	873	873	873	871	870
JUNE	870	870	871	872	871	870	871	872	870	871	873	873	873	872	871	869	870	872	873	874	873	872	872	872
JULY	861	868	869	869	869	868	869	869	869	870	871	871	871	868	864	861	862	865	868	870	869	869	868	868
AUGUST	858	863	863	863	864	864	863	863	864	865	866	867	866	859	854	850	853	858	863	867	866	864	861	861
SEPTEMBER	855	855	856	856	856	856	856	855	858	857	859	858	853	847	835	831	831	837	844	850	853	854	856	856
OCTOBER	858	859	860	860	859	857	856	856	855	855	853	849	845	838	834	832	835	842	849	855	859	860	860	860
NOVEMBER	864	864	865	865	865	864	863	862	861	859	853	846	838	830	827	831	840	849	855	860	862	866	868	870
DECEMBER	863	863	865	865	864	862	860	859	857	852	842	834	827	822	819	821	831	842	851	857	861	864	867	870

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	912	915	915	911	907	903	906	898	894	889	891	891	876	862	845	832	849	858	875	883	891	908	904	900
FEBRUARY	881	884	888	898	891	895	898	893	891	888	887	883	877	859	840	835	835	849	857	866	873	877	877	886
MARCH	876	883	887	887	892	889	887	885	891	890	887	875	870	859	846	843	842	844	855	864	867	869	875	875
APRIL	841	854	848	848	865	872	876	872	870	871	874	875	870	856	847	841	841	842	838	844	844	843	843	831
MAY	846	837	851	860	855	857	865	865	872	863	862	867	865	860	846	847	850	848	849	852	850	853	849	851
JUNE	854	851	852	852	857	858	860	863	870	878	881	884	872	865	861	853	855	861	854	856	849	945	847	856
JULY	859	857	860	855	865	864	869	869	866	869	868	873	874	868	860	854	852	853	858	850	846	843	840	837
AUGUST	852	840	843	856	857	859	863	863	865	865	866	866	860	855	851	849	849	852	854	857	853	853	856	855
SEPTEMBER	833	843	835	829	834	842	843	846	844	844	849	845	838	830	821	820	824	826	833	839	844	839	838	840
OCTOBER	851	852	852	837	839	837	839	841	841	840	835	837	838	829	820	812	816	828	837	841	848	845	839	844
NOVEMBER	856	860	862	856	855	855	846	843	845	847	834	827	817	817	814	814	826	836	848	844	859	858	859	858
DECEMBER	855	852	857	858	861	851	849	842	832	827	822	818	816	810	809	814	818	824	844	853	852	853	849	848

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS Horizontal Intensity

1972 Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	855	855	857	857	858	858	855	853	849	844	838	833	826	819	818	817	824	837	846	847	848	848	850	851	
FEBRUARY	845	848	850	851	851	850	848	846	844	842	838	833	824	816	808	809	814	823	832	838	841	841	841	842	
MARCH	833	837	839	839	840	839	840	839	839	840	841	839	831	817	803	795	796	805	816	825	831	834	833	835	
APRIL	826	829	832	832	833	833	834	834	835	836	838	836	828	818	807	803	805	811	817	821	823	822	823	825	
MAY	818	819	822	823	825	826	827	827	828	830	829	829	827	822	815	811	812	818	823	823	823	822	820	818	
JUNE	807	804	804	807	808	810	809	814	814	816	817	819	819	816	813	810	811	814	817	818	816	812	810	806	
JULY	809	810	810	811	810	813	814	814	814	815	818	819	817	814	810	808	809	812	817	817	815	813	810	808	
AUGUST	800	798	797	797	799	795	790	794	798	800	802	800	799	791	783	778	780	786	791	795	797	797	799	801	
SEPTEMBER	802	803	804	806	802	802	803	804	806	807	809	808	802	790	779	774	774	781	788	795	799	800	800	798	
OCTOBER	807	808	809	809	807	806	804	802	803	804	805	800	788	776	765	762	765	779	792	801	806	807	809	806	
NOVEMBER	812	815	812	808	808	804	803	801	799	795	792	784	777	770	767	768	776	786	795	801	804	808	810	812	
DECEMBER	815	818	818	819	819	818	814	810	805	800	795	789	783	776	773	774	781	791	800	807	810	813	813	813	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	861	862	864	865	866	865	864	862	858	855	851	845	836	831	828	830	836	843	849	850	855	859	860	863	
FEBRUARY	846	849	851	851	852	851	850	847	846	845	844	840	830	819	811	810	813	821	832	839	844	847	842	847	
MARCH	838	842	844	844	844	842	841	840	840	842	843	843	836	822	808	799	801	808	820	833	841	843	842	841	
APRIL	833	835	837	837	837	836	836	836	838	838	839	841	836	823	812	809	812	820	829	834	838	838	837	839	
MAY	827	826	827	827	827	829	830	830	831	832	833	832	829	824	816	811	812	819	825	829	831	830	831	829	
JUNE	821	819	821	822	823	824	824	824	825	826	827	828	826	823	820	817	818	823	828	830	830	829	829	829	
JULY	815	815	814	813	813	813	814	814	816	817	817	819	817	814	810	809	812	815	819	820	820	818	817	817	
AUGUST	808	809	810	810	812	813	810	812	812	814	814	814	810	801	793	790	791	794	802	810	811	811	811	814	
SEPTEMBER	807	808	811	811	810	811	811	809	809	810	814	814	808	796	786	780	781	785	794	801	807	806	808	809	
OCTOBER	809	812	812	813	812	812	809	809	808	809	811	809	801	789	779	772	773	783	794	804	810	811	813	812	
NOVEMBER	811	813	814	816	816	813	810	810	808	804	798	791	784	779	776	777	783	794	805	811	813	815	815	815	
DECEMBER	813	818	819	820	818	817	815	812	808	803	798	792	787	782	778	778	786	790	810	814	814	815	818	818	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	849	850	852	853	853	851	851	847	844	834	828	832	828	823	813	795	806	821	833	842	843	837	835	837	
FEBRUARY	840	846	849	852	851	850	850	850	839	840	834	829	819	811	795	794	803	811	827	829	831	828	829	826	
MARCH	820	822	822	823	822	824	827	830	837	835	835	830	825	811	797	788	787	796	807	813	812	819	821	824	
APRIL	821	824	823	817	815	817	826	831	833	830	841	830	821	815	805	799	800	806	809	810	812	808	810	811	
MAY	796	801	813	816	820	820	823	819	823	828	823	822	820	814	810	807	805	815	822	813	812	814	810	804	
JUNE	770	758	755	772	773	777	765	791	797	799	802	808	806	804	807	802	800	797	802	803	793	784	782	765	
JULY	800	800	804	806	801	814	808	811	807	809	820	818	812	808	801	801	799	800	806	806	804	800	793	781	
AUGUST	796	786	781	786	788	755	728	755	768	774	782	770	769	763	755	745	754	763	764	764	774	783	795	800	
SEPTEMBER	786	790	790	793	765	771	781	784	791	788	788	790	789	777	765	762	762	766	768	767	773	784	782	772	
OCTOBER	793	796	795	804	798	799	794	795	799	799	797	792	783	769	754	758	763	779	796	799	804	800	809	806	
NOVEMBER	813	818	798	772	775	771	777	778	778	776	780	767	761	755	748	752	761	767	779	785	788	795	798	801	
DECEMBER	814	815	815	816	817	816	807	801	795	787	786	784	782	771	765	764	771	787	791	802	812	811	803	803	

Note:—The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS Horizontal Intensity

1973 Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	802	802	802	803	804	801	799	796	791	787	783	778	771	767	764	763	770	780	786	791	791	796	800	800	
FEBRUARY	785	788	789	792	793	791	789	785	783	780	781	776	766	754	744	742	745	755	768	774	776	778	780	780	
MARCH	770	773	775	779	777	777	774	779	776	775	774	772	764	749	738	733	736	740	749	759	759	760	758	763	
APRIL	755	751	755	757	757	759	760	761	756	761	761	762	752	742	732	727	730	736	742	748	750	751	748	751	
MAY	750	753	752	753	758	760	761	762	759	761	762	763	760	754	748	747	748	753	757	758	755	754	752	750	
JUNE	747	747	749	752	750	753	754	754	756	759	759	759	760	759	756	755	755	757	757	754	753	752	749	746	
JULY	748	751	754	754	756	755	756	757	756	757	757	761	762	759	755	755	756	758	759	757	756	753	753	750	
AUGUST	747	749	750	752	753	754	755	755	754	755	756	755	754	753	745	743	745	748	750	751	753	752	750	748	
SEPTEMBER	742	746	749	750	750	750	752	750	749	751	753	751	745	735	727	721	723	729	737	741	743	742	740	741	
OCTOBER	746	748	750	748	749	747	747	745	743	744	742	738	731	721	713	709	714	724	733	738	742	745	745	745	
NOVEMBER	750	750	752	752	751	750	747	745	742	739	734	727	722	717	713	717	724	733	740	741	745	747	748	750	
DECEMBER	752	754	754	754	755	754	752	748	743	738	732	726	721	717	716	719	725	733	740	745	750	751	750	751	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	797	800	803	803	804	803	802	799	796	791	786	781	771	762	762	770	780	791	799	799	798	801	805	808	
FEBRUARY	798	802	799	797	797	795	794	789	789	789	788	783	773	761	750	751	758	770	781	789	791	794	797	798	
MARCH	782	784	785	787	787	785	783	781	780	781	782	779	769	755	743	738	744	755	767	777	779	781	781	783	
APRIL	768	770	770	771	771	771	771	771	768	770	770	768	760	748	738	736	742	752	763	768	770	770	770	771	
MAY	762	762	762	761	762	761	762	763	762	763	764	765	765	762	759	758	758	761	765	766	767	766	766	765	
JUNE	756	757	758	757	757	758	758	757	758	758	759	760	761	760	758	755	756	760	763	764	764	763	762	763	
JULY	756	756	755	757	757	757	758	759	759	759	760	762	761	760	758	756	758	761	763	763	763	762	761	760	
AUGUST	756	757	757	759	757	760	761	761	761	763	763	763	761	758	753	752	753	756	760	762	761	758	757	757	
SEPTEMBER	751	753	753	754	755	754	753	753	753	753	755	754	746	735	725	719	721	731	741	748	752	752	753	754	
OCTOBER	754	758	758	759	757	755	753	752	750	748	748	747	742	732	722	718	725	737	747	752	754	757	757	757	
NOVEMBER	748	749	750	750	748	747	745	744	741	737	732	727	722	718	714	715	723	735	742	745	749	753	754	753	
DECEMBER	752	752	752	752	752	751	748	746	743	739	733	728	724	722	721	722	726	737	745	747	751	754	755	757	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	801	796	795	797	806	796	792	787	782	779	779	768	757	760	762	751	755	768	767	778	786	794	801	798	
FEBRUARY	753	757	763	770	769	774	777	775	770	768	777	769	756	744	733	725	722	724	732	743	739	746	751	747	
MARCH	743	755	757	770	759	764	760	776	770	761	760	763	751	733	717	706	709	715	716	734	726	721	716	733	
APRIL	729	718	733	728	739	748	753	756	747	749	753	752	744	732	713	705	702	702	703	718	726	733	733	735	
MAY	720	726	725	724	736	741	750	755	744	744	752	753	749	740	727	733	732	732	738	737	726	731	728	730	
JUNE	715	725	727	737	736	734	742	741	741	754	753	755	754	752	753	748	741	735	739	735	739	737	739	742	
JULY	729	740	748	748	743	752	754	755	755	752	748	757	759	758	749	754	751	751	750	740	744	746	747	732	
AUGUST	733	738	739	737	736	737	745	741	744	745	746	740	739	741	728	723	725	728	735	734	742	743	741	739	
SEPTEMBER	735	743	738	743	740	740	740	743	740	748	745	737	732	721	717	713	716	719	724	727	728	723	721	720	
OCTOBER	749	754	743	739	748	740	740	736	737	741	747	727	715	709	701	706	706	711	724	722	728	735	733	735	
NOVEMBER	754	748	748	754	752	749	743	741	743	738	727	723	721	714	709	720	728	734	737	733	733	737	733	740	
DECEMBER	759	759	758	758	763	758	752	747	743	737	728	719	710	705	707	718	722	727	734	739	743	748	743	744	

Note:—The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1974

Horizontal Intensity

Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	730	732	733	733	732	732	729	726	724	717	713	708	703	699	697	696	702	712	717	720	723	725	726	728	
FEBRUARY	721	722	725	726	727	727	724	724	722	718	714	711	706	701	696	697	705	710	717	717	718	717	717	718	
MARCH	702	705	703	706	708	710	709	708	708	707	707	704	695	687	679	672	674	682	689	692	695	696	694	699	
APRIL	695	700	702	700	700	701	702	704	704	707	705	705	701	693	685	682	684	689	694	697	693	689	688	692	
MAY	685	686	687	693	695	695	699	700	699	700	700	700	700	696	689	685	686	689	693	690	688	686	686	682	
JUNE	682	684	688	687	688	690	690	690	691	694	696	697	697	695	692	691	690	692	693	690	690	687	686	686	
JULY	675	676	673	675	674	668	664	674	680	681	681	685	684	684	680	678	679	683	685	684	680	679	679	678	
AUGUST	677	675	680	684	685	689	688	688	683	688	690	691	690	685	679	675	676	677	681	683	679	679	677	674	
SEPTEMBER	680	678	680	683	684	682	684	685	684	685	689	687	680	670	659	657	659	662	671	675	677	675	676	677	
OCTOBER	679	680	683	683	683	683	678	678	679	679	677	672	664	651	643	643	645	654	667	674	677	679	677	677	
NOVEMBER	684	687	689	688	687	685	683	680	676	672	669	662	654	648	645	645	655	665	671	678	681	681	683	683	
DECEMBER	687	690	693	694	692	689	688	684	678	673	667	661	655	651	647	648	655	664	673	675	679	682	683	685	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	727	729	730	731	731	731	729	726	724	720	715	710	705	701	697	697	702	714	723	727	728	731	732	731	
FEBRUARY	729	728	727	728	728	727	725	724	723	721	717	711	707	701	700	702	712	716	722	724	725	725	726	727	
MARCH	704	705	707	709	708	706	705	701	702	702	703	701	693	682	672	667	671	680	693	702	706	709	711	713	
APRIL	712	712	715	716	716	715	715	714	714	714	715	715	710	701	693	690	693	701	709	713	711	709	710	710	
MAY	695	697	699	701	699	702	700	698	698	699	700	700	701	697	690	684	687	692	697	700	699	698	699	700	
JUNE	699	700	700	700	699	700	698	696	699	699	700	701	701	700	696	694	695	698	700	701	700	699	698	696	
JULY	690	691	691	691	692	692	691	693	698	694	694	698	698	696	692	691	691	695	698	698	696	695	693	691	
AUGUST	691	691	691	694	693	691	694	695	693	696	697	697	696	692	687	684	686	690	695	696	695	693	693	692	
SEPTEMBER	684	687	688	689	690	688	689	686	687	687	691	691	689	679	669	663	664	669	677	685	687	687	686	687	
OCTOBER	688	686	691	692	692	693	690	686	684	683	682	681	671	660	649	645	651	664	678	687	689	692	690	694	
NOVEMBER	692	694	696	696	696	694	693	691	688	685	681	675	666	657	652	651	658	670	682	691	693	692	691	689	
DECEMBER	686	690	693	695	693	692	690	688	684	680	674	665	657	649	646	650	662	676	683	688	689	689	690	693	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	720	723	723	721	721	719	716	715	706	701	700	693	691	682	683	691	698	706	713	708	705	708			
FEBRUARY	711	715	716	721	729	728	719	721	714	713	710	709	700	695	675	676	695	702	716	712	710	711	710	712	
MARCH	685	697	690	696	704	698	699	701	707	707	704	704	684	683	666	648	651	668	673	668	684	680	667	680	
APRIL	682	687	689	688	680	680	681	691	704	705	699	701	693	683	674	671	677	683	683	684	676	668	669	682	
MAY	668	680	683	697	681	684	694	704	700	698	704	701	703	695	683	679	678	681	686	679	671	661	669	673	
JUNE	663	670	683	682	685	680	681	680	684	692	696	693	694	694	692	692	687	687	687	673	678	670	679	670	
JULY	659	671	652	658	654	595	567	620	647	653	651	659	656	662	654	650	652	660	663	655	642	653	661	658	
AUGUST	676	664	668	672	683	691	677	676	679	677	683	681	676	671	666	664	663	668	674	676	669	676	670	664	
SEPTEMBER	669	655	657	664	661	662	670	673	670	670	682	678	664	659	633	637	640	634	644	652	658	653	658	658	
OCTOBER	664	657	652	652	653	665	647	659	661	670	668	658	645	622	624	619	619	628	654	659	665	674	668	669	
NOVEMBER	668	671	676	668	667	669	662	663	657	656	663	644	637	625	626	628	636	651	660	664	668	663	667	667	
DECEMBER	683	688	692	698	698	688	687	685	671	665	660	654	654	652	641	640	647	653	668	659	665	667	674	677	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1975

Horizontal Intensity

Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	686	686	689	690	691	689	687	684	678	673	671	666	660	654	648	649	653	661	669	674	677	676	679	683	
FEBRUARY	677	680	680	681	683	683	678	676	673	669	666	661	656	649	643	642	644	650	661	669	671	670	674	674	
MARCH	662	665	667	667	667	669	670	668	667	666	666	661	654	645	637	632	632	640	648	653	657	657	656	660	
APRIL	652	658	661	661	663	664	665	664	664	664	664	665	659	651	643	639	642	646	651	653	654	650	650	652	
MAY	649	651	652	648	650	655	657	658	658	658	659	659	659	654	648	647	649	652	654	653	651	648	649	648	
JUNE	648	649	648	649	651	653	653	653	655	656	656	657	656	655	654	652	653	654	655	654	651	646	645	647	
JULY	639	640	642	642	643	643	646	647	646	648	650	652	652	649	645	644	644	646	649	649	645	641	639	640	
AUGUST	640	641	641	640	641	639	641	644	645	646	649	648	646	641	635	634	636	639	641	643	642	641	640	640	
SEPTEMBER	640	642	644	645	645	644	644	645	646	646	647	645	640	632	626	624	627	632	637	643	644	640	641	642	
OCTOBER	643	645	643	644	644	643	643	643	641	641	637	634	629	621	614	611	616	623	631	637	642	639	640	642	
NOVEMBER	640	641	642	641	641	640	639	637	634	628	624	620	613	608	604	601	606	613	623	627	632	634	637	639	
DECEMBER	647	648	649	649	647	645	641	638	634	629	625	620	614	610	609	613	620	627	634	637	637	640	642	643	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	684	686	686	687	686	685	683	681	679	675	673	671	663	654	648	648	652	663	675	683	685	687	687	691	
FEBRUARY	683	686	686	687	687	683	679	676	674	674	670	667	663	656	650	649	654	660	667	673	676	678	681	683	
MARCH	670	674	674	675	675	673	672	671	670	669	668	665	658	650	642	639	644	651	659	667	671	671	672	674	
APRIL	661	664	664	666	669	667	666	664	663	664	665	665	662	656	650	648	651	657	663	666	666	665	664	666	
MAY	652	654	654	655	655	657	657	657	657	657	659	659	660	656	651	648	651	656	660	660	659	659	658	658	
JUNE	654	655	655	655	656	656	655	654	655	657	658	658	659	659	656	655	656	660	662	661	660	657	654	652	
JULY	643	644	647	647	648	648	647	649	649	649	651	653	650	647	643	648	640	642	647	651	652	649	647	645	644
AUGUST	643	646	647	648	647	647	646	646	647	648	652	651	648	645	638	636	638	642	644	646	647	645	646	645	
SEPTEMBER	646	648	649	649	649	649	648	647	648	648	649	648	643	634	626	624	628	635	643	649	651	651	650	650	
OCTOBER	647	649	650	651	653	653	651	650	645	643	642	640	634	624	616	613	617	625	636	643	647	648	650	653	
NOVEMBER	640	640	642	642	642	641	639	639	636	631	626	622	617	613	609	612	617	627	631	636	642	645	650	648	
DECEMBER	648	649	649	649	649	647	646	641	638	636	630	625	620	614	611	613	620	626	634	641	643	645	646	646	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	700	689	691	694	696	692	693	689	677	671	664	656	648	644	633	637	647	657	662	661	667	658	669	677	
FEBRUARY	676	681	681	676	682	686	678	679	669	663	654	648	648	641	633	631	633	634	647	659	660	651	662	660	
MARCH	640	636	645	641	651	654	659	653	657	659	657	653	637	630	623	617	610	621	626	628	631	633	628	637	
APRIL	628	640	644	641	645	649	656	656	641	654	657	660	646	642	633	630	623	632	635	638	633	628	635	635	
MAY	652	648	647	640	644	648	655	662	660	656	656	657	653	649	641	639	640	646	643	646	646	640	641	639	
JUNE	645	645	647	638	643	642	648	651	658	656	653	657	655	654	652	651	652	648	647	645	638	625	633	632	
JULY	629	628	628	623	630	625	634	637	639	640	646	650	650	645	640	641	643	643	641	636	634	632	630	636	
AUGUST	637	638	636	636	643	629	633	643	643	642	648	644	641	633	632	631	635	636	634	636	634	636	634	636	
SEPTEMBER	628	631	629	632	631	633	635	638	637	643	648	636	633	623	618	622	626	631	638	638	629	628	635		
OCTOBER	634	636	633	635	636	632	634	628	632	639	629	618	620	615	609	605	610	612	616	620	629	620	625	629	
NOVEMBER	640	638	641	633	636	629	632	628	628	616	618	613	593	592	591	580	586	595	611	611	611	615	621	624	
DECEMBER	648	654	655	651	647	640	635	631	624	621	622	622	615	604	599	603	610	619	629	635	630	631	634	636	

Note:-The last column shows the number of days excluded
from the calculation of the means, days are excluded
if they contain missing hourly values.

ARGENTINE ISLANDS

1976

Horizontal Intensity

Tabular Baseline= 22000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	634	635	637	638	639	639	637	634	631	625	621	616	610	606	604	607	610	620	627	632	628	630	630	631	
FEBRUARY	626	628	630	631	631	631	630	627	626	622	618	613	608	602	598	600	605	613	617	619	619	618	618	621	
MARCH	607	611	611	614	612	611	611	610	601	607	609	606	599	589	582	579	583	589	598	604	606	605	602	607	
APRIL	599	598	601	602	602	602	601	601	603	600	603	603	599	592	585	586	589	594	597	598	599	593	592	597	
MAY	594	594	596	595	598	602	602	606	607	607	607	607	608	605	600	595	597	599	600	600	596	596	595	592	
JUNE	593	594	594	594	595	595	598	599	599	601	601	604	603	602	601	601	602	604	605	604	599	596	596	594	
JULY	592	591	592	592	594	593	595	595	594	595	596	598	600	599	596	596	597	600	602	601	597	596	594	593	
AUGUST	591	590	593	593	594	594	594	594	592	595	596	597	595	590	585	583	585	589	592	594	594	592	591	590	
SEPTEMBER	584	586	589	590	590	587	587	587	586	589	591	590	586	579	571	565	564	570	577	582	584	584	585	586	
OCTOBER	587	589	589	589	588	585	583	583	583	583	581	580	572	562	554	552	558	567	577	584	585	586	584	585	
NOVEMBER	593	594	594	592	590	588	586	584	580	577	574	570	564	558	558	561	567	577	585	589	589	587	589	593	
DECEMBER	593	592	592	590	589	587	586	582	577	573	569	563	559	555	553	554	561	571	577	580	584	587	589	591	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	640	642	643	644	644	641	640	637	635	630	627	622	621	618	617	617	619	630	637	638	635	638	638	638	
FEBRUARY	626	628	629	628	630	632	632	627	627	625	621	618	615	608	602	604	612	619	625	623	623	623	628	629	
MARCH	622	621	621	623	625	625	624	625	622	620	619	617	611	602	595	593	598	605	612	619	623	624	624	625	
APRIL	614	615	617	615	617	615	615	614	614	614	613	611	609	602	596	595	598	604	610	612	614	613	614	613	
MAY	609	607	607	605	607	608	607	608	609	611	611	612	611	608	602	600	602	606	610	611	612	611	612	612	
JUNE	599	599	599	599	598	598	598	598	593	600	600	601	601	600	600	599	600	603	605	606	606	605	604	603	
JULY	596	597	597	599	599	599	600	600	599	600	601	601	603	602	600	599	601	604	606	606	605	604	603	602	
AUGUST	593	593	594	595	594	596	594	595	596	596	597	598	597	592	588	587	590	594	598	598	598	596	595	594	
SEPTEMBER	588	589	589	593	592	589	589	590	588	590	591	594	591	584	576	571	575	579	585	590	591	588	589	590	
OCTOBER	594	594	593	595	595	592	590	588	587	584	583	579	573	565	557	557	563	572	582	588	592	594	594	594	
NOVEMBER	594	597	597	598	595	593	591	588	586	582	579	574	566	559	557	563	572	583	591	594	593	594	594	597	
DECEMBER	593	593	592	591	591	589	588	586	583	578	572	567	563	556	555	559	568	575	580	585	588	589	596	597	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	622	622	634	632	634	630	634	635	629	620	621	617	603	593	591	605	599	604	614	629	622	622	621	621	
FEBRUARY	618	615	620	622	626	626	624	621	622	622	620	612	608	598	589	585	588	601	606	612	610	614	612	609	
MARCH	593	607	603	608	583	581	575	576	534	575	595	587	576	552	551	547	548	553	568	571	576	582	570	573	
APRIL	585	579	574	570	555	559	567	569	572	557	575	572	573	564	554	557	561	570	564	564	569	564	565	571	
MAY	571	572	570	563	573	589	583	592	607	603	598	599	604	601	593	582	585	585	572	578	566	573	565	557	
JUNE	585	579	577	581	578	583	588	600	597	600	595	608	603	598	597	599	599	600	603	601	597	589	591	588	
JULY	586	590	592	582	590	585	584	587	590	592	594	598	603	598	597	598	598	595	598	594	587	587	586	582	
AUGUST	580	575	590	588	586	586	590	587	584	592	594	595	590	583	568	567	572	575	577	579	582	576	578	576	
SEPTEMBER	573	572	582	589	583	577	578	583	579	585	588	581	575	567	560	550	546	554	563	569	573	576	579	577	
OCTOBER	577	582	584	586	587	581	567	572	572	570	567	567	557	547	544	544	550	556	565	568	568	573	570	574	
NOVEMBER	590	592	587	586	586	585	581	579	575	572	569	562	553	549	550	551	556	567	572	579	583	577	585	586	
DECEMBER	599	587	583	579	578	578	581	567	562	566	560	556	552	549	544	538	546	556	567	572	579	584	578	584	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1977

Horizontal Intensity

Tabular Baseline= 22000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	581	584	584	584	585	583	581	579	575	572	570	567	562	555	552	548	551	558	566	570	576	576	578	579	
FEBRUARY	570	571	575	577	578	575	575	573	569	568	567	566	560	547	538	533	534	542	552	558	564	565	566	568	
MARCH	556	559	561	565	566	566	566	565	564	563	563	561	554	546	538	533	534	542	551	556	557	552	553	554	
APRIL	542	542	543	545	548	548	548	549	549	549	549	549	546	538	530	528	531	535	539	543	541	538	539	538	
MAY	537	540	540	539	541	541	543	543	546	546	548	548	549	544	539	535	537	541	542	543	541	540	540	538	
JUNE	543	542	541	542	543	543	545	544	546	547	550	551	551	549	547	545	547	550	552	551	549	546	545	543	
JULY	529	529	528	533	532	529	530	530	532	536	537	538	540	538	534	532	532	535	537	538	536	534	534	531	
AUGUST	520	521	519	521	525	526	524	526	525	525	528	529	528	523	517	515	517	519	521	524	524	523	523	522	
SEPTEMBER	517	517	519	521	519	519	521	522	523	524	527	527	521	508	498	492	492	498	506	512	514	514	515	515	
OCTOBER	519	520	519	519	519	521	520	520	520	516	517	515	507	494	484	483	488	497	509	516	521	521	519	520	
NOVEMBER	529	529	529	529	527	524	523	520	517	513	509	503	497	491	489	492	499	508	515	520	522	525	528	528	
DECEMBER	523	524	524	523	522	517	516	514	510	504	500	494	488	484	478	479	484	496	508	513	517	518	520	522	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	581	585	586	585	585	584	583	580	575	572	571	570	564	554	545	541	542	553	562	571	577	581	583	584	
FEBRUARY	573	573	575	579	579	576	573	572	569	568	568	564	557	542	533	534	538	548	560	569	573	574	573	577	
MARCH	568	570	572	573	572	572	571	570	569	569	567	563	557	548	540	536	541	551	562	570	571	571	571	570	
APRIL	557	556	556	557	558	558	558	557	555	552	555	553	549	539	532	531	537	545	552	557	559	561	563	562	
MAY	546	547	547	547	548	548	547	547	548	546	550	551	550	547	542	542	546	551	556	556	555	554	554	553	
JUNE	540	538	538	540	543	543	545	545	546	548	550	551	550	548	545	544	546	550	552	551	549	547	546	545	
JULY	536	536	538	538	537	538	539	539	540	541	542	543	543	539	534	532	533	537	543	545	544	541	540	540	
AUGUST	528	526	524	526	529	528	532	530	528	528	530	530	529	526	521	519	520	522	525	529	530	527	528	529	
SEPTEMBER	523	526	528	531	531	532	530	528	528	529	532	531	527	516	507	501	499	504	512	520	526	526	528	529	
OCTOBER	527	530	532	532	532	530	529	528	526	526	525	524	514	500	490	489	496	508	518	526	527	527	529	528	
NOVEMBER	530	532	533	532	530	528	528	528	525	522	516	511	502	495	493	496	502	511	518	522	526	528	531	531	
DECEMBER	527	528	526	527	528	527	525	523	520	517	510	504	497	493	492	493	495	504	513	519	521	523	526	526	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	568	576	571	576	575	574	572	568	569	564	562	557	555	555	551	543	544	548	555	564	571	565	573	567	
FEBRUARY	568	568	574	576	577	580	572	575	572	564	564	564	565	565	554	535	529	525	535	546	552	561	565	567	568
MARCH	539	549	547	558	563	564	564	564	561	559	556	552	543	545	537	527	525	527	541	551	548	541	536	537	
APRIL	518	517	531	536	538	525	544	544	538	543	540	543	540	533	524	516	514	515	526	534	516	515	513	508	
MAY	516	529	524	520	526	531	536	534	548	543	542	543	546	534	528	517	519	520	517	522	522	520	525	526	
JUNE	544	542	539	541	541	542	544	542	543	542	549	550	548	546	544	541	543	544	544	541	540	538	533	532	
JULY	528	528	529	524	521	510	519	518	521	532	538	537	543	535	533	530	528	533	531	533	531	529	533	530	
AUGUST	521	514	512	519	526	531	523	531	521	524	531	533	528	518	507	504	508	514	508	513	513	514	512	509	
SEPTEMBER	504	503	517	524	512	503	516	510	516	521	527	523	512	488	477	471	472	475	483	485	478	475	489	490	
OCTOBER	503	491	481	478	484	491	500	503	506	493	500	495	489	475	460	463	471	478	488	498	509	511	510	501	
NOVEMBER	528	525	525	522	518	511	510	503	499	496	490	483	484	480	473	477	492	499	504	512	517	519	528	533	
DECEMBER	532	528	527	517	507	491	494	494	492	482	481	472	465	475	461	465	477	480	497	501	504	505	511	514	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1978   Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	520	522	524	521	520	520	519	514	510	504	501	497	487	482	479	478	487	495	505	513	515	519	516	518	
FEBRUARY	509	509	509	512	510	509	506	504	502	498	499	495	485	473	463	457	459	466	478	487	493	498	502	504	
MARCH	493	492	493	497	499	498	497	496	496	497	495	489	478	463	452	447	452	461	472	478	484	486	488	489	
APRIL	470	474	474	471	475	476	478	481	482	485	485	484	476	466	456	447	450	457	465	470	475	476	472	470	
MAY	465	464	466	465	466	465	469	469	470	473	478	478	472	467	460	453	454	459	466	470	470	468	465	464	
JUNE	464	466	466	467	465	468	469	471	474	477	476	476	476	474	468	467	467	469	471	474	474	470	465	463	
JULY	462	459	461	463	465	465	467	468	468	469	471	472	471	469	463	458	460	465	469	472	471	470	467	464	
AUGUST	458	459	460	462	460	459	458	454	465	463	466	469	465	455	450	447	447	451	457	461	461	459	457	455	
SEPTEMBER	456	460	461	463	463	459	459	459	456	456	456	454	445	431	420	412	415	423	434	445	451	450	451	456	
OCTOBER	464	465	467	467	466	461	456	457	457	457	456	449	437	421	408	404	410	422	436	448	456	458	461	464	
NOVEMBER	467	469	468	468	464	460	460	457	453	449	441	434	423	413	406	407	415	429	442	451	454	458	464	466	
DECEMBER	478	479	479	477	477	472	469	463	458	451	443	432	425	420	418	421	432	444	454	459	463	469	472	474	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	518	522	523	522	520	520	519	517	514	512	507	500	495	489	484	483	487	496	504	512	517	519	521	522	
FEBRUARY	512	514	515	517	515	512	509	506	504	505	506	502	492	479	466	459	462	474	487	495	504	508	509	515	
MARCH	500	501	503	505	505	502	500	499	498	499	496	491	478	465	454	450	456	468	481	493	501	504	507	507	
APRIL	486	489	489	488	490	490	490	491	492	493	494	492	480	468	458	454	457	465	472	480	483	485	486	488	
MAY	476	480	481	480	481	480	483	484	485	486	487	486	483	475	463	457	460	467	475	480	482	481	480	482	
JUNE	481	481	478	480	479	480	476	478	478	480	481	482	483	480	477	476	477	481	483	486	485	485	481	480	
JULY	471	472	473	472	472	472	472	472	473	474	474	474	472	469	464	462	462	467	472	476	477	477	475	471	
AUGUST	471	471	472	469	470	469	469	470	471	473	474	474	471	465	460	457	456	459	464	469	472	472	470	469	
SEPTEMBER	468	472	469	470	471	469	468	467	467	468	470	467	459	447	434	428	430	439	451	462	467	466	464	466	
OCTOBER	472	471	472	471	470	469	468	466	467	466	463	459	448	432	416	407	411	423	438	455	465	464	465	467	
NOVEMBER	474	472	469	468	464	462	462	462	459	454	446	436	426	419	416	419	425	440	449	456	464	473	475	479	
DECEMBER	474	477	477	480	481	480	480	477	470	460	449	440	433	427	427	434	446	461	473	479	481	482	481	477	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	526	526	532	519	519	518	519	506	503	492	492	494	467	458	453	455	471	467	486	500	503	513	504	508	
FEBRUARY	516	511	511	513	506	505	498	503	499	480	487	484	459	445	447	437	434	438	457	465	474	473	484	485	
MARCH	486	483	480	483	495	493	496	496	494	488	488	483	473	455	438	435	443	446	456	452	461	472	471	472	
APRIL	432	445	442	429	446	445	461	472	474	476	480	486	477	472	457	435	435	441	452	450	460	461	459	444	
MAY	457	449	448	439	443	436	438	441	437	445	467	462	433	429	433	422	424	431	438	452	453	455	441	443	
JUNE	456	462	456	451	443	444	454	457	463	467	474	470	464	464	455	455	454	456	458	461	463	456	456	452	
JULY	441	433	437	439	443	446	450	456	457	456	469	467	467	469	456	446	451	462	465	461	462	463	455	443	
AUGUST	424	426	423	427	420	411	408	377	439	424	436	444	432	408	411	414	419	422	427	434	428	428	427	427	
SEPTEMBER	447	447	455	464	464	444	448	451	432	428	415	416	406	384	386	380	386	396	406	423	425	422	429	438	
OCTOBER	456	450	456	452	445	443	427	434	432	435	437	426	418	399	386	384	391	405	422	437	442	451	455	456	
NOVEMBER	464	473	471	471	462	448	451	448	440	437	421	421	410	395	387	384	401	413	429	443	431	439	447	448	
DECEMBER	480	490	491	480	491	474	462	447	438	442	434	415	401	409	403	401	408	427	439	441	452	459	469	477	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1979   Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	461	464	465	464	464	460	459	455	449	444	436	424	417	410	410	411	418	431	445	452	453	454	457	462	
FEBRUARY	447	451	453	451	451	450	446	442	442	440	437	432	422	406	393	388	392	403	420	435	441	442	441	444	
MARCH	426	429	433	433	436	437	439	438	441	441	440	436	421	399	380	366	366	374	388	402	414	421	422	424	
APRIL	411	409	409	414	417	420	423	426	426	428	429	428	421	409	391	379	375	383	394	401	405	406	410	410	
MAY	412	414	414	415	418	421	421	422	422	425	426	426	423	415	402	394	393	399	405	411	413	412	413	415	
JUNE	414	415	416	414	416	418	418	421	421	422	423	424	424	419	411	405	405	410	414	416	416	413	413	414	
JULY	408	407	408	414	412	413	415	416	416	416	417	418	417	412	405	401	402	407	412	414	411	410	410	408	
AUGUST	396	397	399	403	402	404	405	408	410	410	410	409	406	395	384	378	378	383	388	396	397	395	393	392	
SEPTEMBER	400	400	400	399	401	402	401	402	402	402	405	401	392	376	363	356	357	366	378	389	394	397	399	400	
OCTOBER	409	411	411	408	406	405	402	404	405	405	403	395	380	363	348	343	348	359	376	389	398	401	405	406	
NOVEMBER	417	419	419	415	411	408	406	405	403	399	392	382	370	357	349	349	358	372	386	398	407	410	412	414	
DECEMBER	422	424	425	426	423	418	414	412	407	401	396	386	376	366	362	362	369	380	391	402	408	413	417	418	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	467	468	471	469	472	471	471	467	462	458	447	434	425	417	418	420	428	441	453	457	456	460	458	464	
FEBRUARY	455	456	457	458	456	452	453	451	450	447	446	438	422	405	391	387	397	412	430	444	447	450	453	453	
MARCH	430	435	440	440	442	443	441	439	440	440	440	435	420	399	379	366	362	373	391	408	422	430	431	436	
APRIL	433	434	436	440	440	443	440	440	436	438	440	437	430	416	399	390	391	400	413	421	425	431	432	431	
MAY	429	430	428	425	425	427	429	430	428	427	429	430	424	414	403	396	398	404	413	419	423	425	426	425	
JUNE	421	421	422	423	424	424	425	426	427	427	428	428	426	422	414	409	410	416	421	423	422	421	420	420	
JULY	413	412	413	412	412	415	415	414	415	415	416	417	415	410	403	399	402	408	414	419	420	419	418	419	
AUGUST	404	406	407	407	406	409	401	401	412	411	412	414	409	401	391	385	387	393	402	408	406	405	404	406	
SEPTEMBER	399	400	398	396	401	402	401	401	404	405	406	403	394	380	366	362	365	374	384	395	399	400	400	403	
OCTOBER	413	418	414	414	416	415	413	411	410	409	403	392	375	360	352	351	357	368	382	397	406	411	414	416	
NOVEMBER	413	416	417	417	416	414	412	411	409	404	397	387	371	358	348	347	356	374	391	403	409	410	411	412	
DECEMBER	421	426	429	428	426	425	424	423	417	409	399	391	382	373	368	365	370	382	396	409	416	422	425	425	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	463	464	459	452	451	450	451	448	440	439	431	418	416	405	404	406	410	421	434	446	449	446	445	443	
FEBRUARY	425	433	435	438	439	438	435	422	413	422	420	416	410	390	375	371	378	386	412	426	421	419	418	428	
MARCH	425	422	431	426	430	432	432	430	444	445	444	447	430	402	379	357	359	366	373	386	398	414	407	401	
APRIL	372	371	356	371	376	376	387	397	400	417	414	413	406	397	379	366	358	369	376	381	377	375	383	386	
MAY	370	376	383	395	394	407	401	405	415	422	424	417	415	410	397	383	380	382	391	396	398	392	395	396	
JUNE	410	411	413	407	409	408	411	415	417	417	418	420	421	416	408	398	397	404	406	408	410	399	397	406	
JULY	402	392	403	410	410	414	412	412	413	412	415	416	414	408	399	392	400	408	408	410	407	409	409	407	
AUGUST	382	377	374	391	386	391	393	405	412	408	402	397	401	384	370	362	352	351	351	358	365	364	356	359	
SEPTEMBER	388	378	380	380	385	393	393	390	387	383	395	377	371	355	344	334	337	354	366	372	377	382	386	391	
OCTOBER	392	397	385	390	383	386	376	388	392	391	390	393	379	365	344	340	342	344	363	379	390	387	388	393	
NOVEMBER	423	426	422	410	399	390	388	388	389	391	385	373	364	349	336	328	340	350	361	386	398	398	401	405	
DECEMBER	420	417	416	416	411	400	391	392	393	388	390	378	367	357	353	354	360	377	391	404	413	419	425	422	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1980   Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	412	413	414	413	410	409	408	405	400	394	386	375	364	357	354	358	367	379	386	390	396	403	405	408	
FEBRUARY	397	399	399	402	400	398	395	393	391	387	376	364	352	342	339	345	358	374	381	385	386	391	393	
MARCH	394	397	398	395	394	393	393	393	393	394	393	385	371	354	339	334	338	350	364	376	383	386	386	388	
APRIL	374	376	378	378	377	380	381	382	381	382	383	381	371	355	339	330	332	341	353	362	368	371	370	375	
MAY	370	370	370	370	370	372	374	375	375	376	376	375	371	359	346	340	343	349	356	362	366	366	365	367	
JUNE	353	355	356	357	360	361	360	363	364	367	368	366	362	357	350	344	343	348	354	356	357	357	355	355	
JULY	351	353	352	351	353	356	356	358	358	360	360	360	359	355	346	342	343	346	352	357	357	355	352	352	
AUGUST	349	348	349	351	352	353	354	355	355	357	358	358	354	345	335	326	328	335	342	348	351	350	351	351	
SEPTEMBER	355	359	359	359	360	361	361	360	361	363	364	361	353	339	323	313	312	321	333	344	349	351	351	355	
OCTOBER	355	359	361	362	357	352	349	349	348	349	349	339	327	312	295	288	293	307	321	335	345	351	352	353	
NOVEMBER	369	370	370	368	366	361	359	355	351	347	342	331	320	309	301	299	307	321	335	345	353	361	363	366	
DECEMBER	364	366	367	364	362	361	358	353	348	343	333	321	312	303	297	296	305	320	332	343	347	354	358	360	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	410	413	413	414	412	412	411	409	403	398	389	377	366	360	357	362	372	385	392	397	398	403	406	409	
FEBRUARY	401	403	404	407	408	408	405	402	400	397	392	381	367	354	344	343	348	363	378	389	395	397	399	403	
MARCH	395	397	400	400	400	398	398	397	397	399	397	391	378	361	347	339	341	353	367	379	388	393	393	396	
APRIL	375	380	382	382	381	381	381	382	382	393	384	390	371	355	341	334	337	347	359	367	371	372	375	381	
MAY	372	373	374	373	373	374	374	373	373	374	375	373	368	358	344	337	340	350	360	367	371	372	374	376	
JUNE	360	361	358	358	359	361	362	361	362	362	362	362	360	356	349	346	348	354	362	366	367	366	365	365	
JULY	358	360	361	362	363	364	364	364	365	369	367	366	364	360	353	348	348	354	361	366	365	365	363	362	
AUGUST	348	350	350	353	354	355	354	354	356	356	358	359	357	349	338	332	334	341	348	354	357	355	356	357	
SEPTEMBER	361	363	364	363	364	362	359	360	361	362	364	362	354	341	328	317	316	323	335	347	353	356	358	363	
OCTOBER	359	360	361	361	360	358	356	357	354	352	348	340	327	310	297	295	303	319	334	344	352	358	360	362	
NOVEMBER	365	368	370	366	364	362	363	359	357	353	346	336	322	307	299	300	309	322	332	343	352	358	363	364	
DECEMBER	358	361	361	359	361	362	361	358	354	348	338	327	316	309	302	301	311	330	341	346	353	356	359	360	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	410	402	402	402	398	400	398	396	391	389	380	366	358	352	350	355	356	365	383	380	392	402	402	406	
FEBRUARY	397	402	394	401	394	387	379	376	381	381	384	370	364	354	339	330	334	351	372	377	373	376	388	378	
MARCH	387	391	390	372	367	372	371	374	376	377	377	372	357	347	331	322	325	336	350	359	365	367	366	369	
APRIL	366	362	364	367	359	371	374	377	373	373	375	378	363	347	331	321	318	325	336	345	350	355	349	359	
MAY	358	360	362	359	358	361	366	372	371	372	369	372	365	342	329	321	323	328	328	335	343	342	339	342	
JUNE	330	338	340	337	344	348	346	355	363	375	376	363	352	345	337	326	321	327	326	323	326	329	321	323	
JULY	332	340	340	345	350	352	353	356	354	355	355	358	356	351	344	339	339	337	344	350	349	339	330	329	
AUGUST	356	348	345	342	350	349	349	349	349	353	358	358	350	343	333	319	324	333	337	342	342	345	346	347	
SEPTEMBER	345	348	347	346	351	353	353	350	355	360	363	356	347	339	321	305	302	309	321	333	338	341	337	343	
OCTOBER	347	355	355	358	344	335	325	329	332	343	342	326	312	298	277	271	276	292	299	318	329	332	339	341	
NOVEMBER	381	376	371	367	370	367	361	351	350	346	335	318	317	315	304	302	307	324	341	349	354	364	359	362	
DECEMBER	354	358	359	352	350	355	348	336	332	328	320	309	299	275	262	263	275	286	300	319	327	333	337	345	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Horizontal Intensity

1981   Tabular Baseline= 22000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	357	357	359	359	358	357	356	355	350	343	335	327	316	311	311	317	327	341	350	354	352	352	352	354	
FEBRUARY	332	337	341	343	342	341	337	337	339	338	336	328	318	302	289	283	285	292	307	318	327	335	334	334	
MARCH	320	322	323	327	329	326	323	325	326	324	322	317	301	280	263	251	252	261	278	293	304	310	310	315	
APRIL	304	301	299	300	294	300	301	298	308	311	311	312	301	282	263	255	256	265	277	285	292	294	301	307	
MAY	300	301	300	298	295	291	289	301	304	304	307	304	302	295	284	278	279	282	288	293	296	297	299	300	
JUNE	303	302	304	306	303	304	304	303	305	306	310	311	311	307	301	297	298	302	304	306	306	305	305	304	
JULY	285	285	288	286	290	295	296	295	297	299	300	300	299	290	276	281	281	285	289	294	294	292	289	286	
AUGUST	286	296	286	286	288	293	292	290	293	292	294	292	287	278	267	262	264	271	277	284	286	284	286	286	
SEPTEMBER	295	298	296	298	298	298	297	299	299	299	299	293	282	266	253	244	244	254	266	280	286	286	289	292	
OCTOBER	290	295	295	289	289	286	286	286	286	284	281	275	265	245	228	218	222	231	249	263	276	280	285	290	
NOVEMBER	305	305	305	303	298	295	292	287	287	283	277	270	261	247	242	242	249	261	276	286	293	296	296	301	
DECEMBER	311	315	319	317	313	309	303	299	292	286	278	270	260	254	255	258	264	274	286	294	300	303	307	309	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	356	355	358	359	361	360	360	359	354	348	341	331	321	313	311	316	326	345	356	360	356	352	350	355	
FEBRUARY	342	346	347	348	348	348	345	345	343	343	341	337	326	309	293	281	282	292	309	324	336	343	344	346	
MARCH	330	330	332	335	334	330	328	330	330	331	329	323	310	290	271	263	267	279	296	315	325	328	329	333	
APRIL	309	314	317	315	318	319	318	318	320	322	323	318	306	290	272	262	262	273	289	303	310	314	318	321	
MAY	325	324	325	324	323	322	323	323	324	324	323	324	317	305	291	284	289	297	305	311	317	321	323	325	
JUNE	308	306	306	306	305	305	305	306	305	307	309	310	309	306	300	298	299	300	308	311	313	313	312	313	
JULY	300	298	298	298	301	303	303	303	302	304	305	305	303	297	291	289	291	296	301	306	306	307	305	302	
AUGUST	283	286	284	284	291	295	300	300	299	298	299	301	297	285	273	270	269	275	286	293	297	297	296	295	
SEPTEMBER	294	300	300	301	301	301	300	299	300	301	300	297	287	273	259	250	254	262	274	286	293	294	297	301	
OCTOBER	294	295	298	299	303	304	299	298	295	289	286	283	272	256	240	230	234	245	266	280	291	296	298	299	
NOVEMBER	309	314	312	312	311	311	309	303	298	294	286	277	262	249	244	248	257	271	285	294	299	297	304	307	
DECEMBER	306	309	310	310	307	305	304	302	296	290	279	267	260	256	257	264	270	280	288	296	301	303	303	303	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	362	361	362	358	346	342	337	342	340	335	327	325	315	310	309	314	323	335	343	350	345	346	347	351	
FEBRUARY	323	329	332	338	338	336	333	333	338	337	333	319	318	296	283	284	285	288	300	309	316	322	312	315	
MARCH	335	338	339	342	347	348	334	335	340	330	316	318	290	267	251	231	230	235	252	270	288	298	285	295	
APRIL	299	273	255	256	200	232	237	233	276	290	283	301	287	262	246	239	238	243	256	255	256	259	277	284	
MAY	275	280	272	256	243	234	218	268	277	279	292	272	273	272	265	259	258	257	259	263	269	270	278	284	
JUNE	293	292	301	304	294	296	292	290	293	296	305	302	307	304	299	295	297	295	293	297	291	288	286	283	
JULY	257	247	258	244	259	270	272	266	277	283	280	283	283	250	197	244	239	245	249	252	253	253	248	235	
AUGUST	285	283	281	271	280	288	287	290	291	290	293	288	279	267	256	252	254	260	262	270	274	270	269	271	
SEPTEMBER	292	296	292	291	288	292	285	292	286	295	293	285	275	254	243	233	234	243	253	265	273	273	279	281	
OCTOBER	303	309	297	276	281	284	281	275	278	277	270	265	253	225	205	195	195	197	211	222	235	250	255	257	
NOVEMBER	306	300	307	312	306	302	298	285	284	280	273	272	265	243	245	244	242	246	269	277	282	287	285	289	
DECEMBER	310	318	324	324	316	315	298	294	280	273	261	260	242	235	249	256	261	267	281	288	295	299	303	300	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	304	305	306	304	302	299	296	292	288	285	279	269	258	248	245	247	252	268	282	290	293	294	297	301	
FEBRUARY	270	272	272	272	271	264	260	259	260	258	255	254	244	233	217	213	213	222	233	246	256	264	272	268	
MARCH	267	270	269	269	269	268	268	268	267	266	265	263	252	237	220	209	210	221	235	247	256	260	266	267	
APRIL	247	247	247	249	252	252	254	257	257	258	256	255	251	237	225	219	219	223	229	237	241	242	243	247	
MAY	252	253	253	250	249	253	257	259	261	262	262	263	260	253	242	237	236	241	247	251	253	254	250	249	
JUNE	237	236	236	234	234	234	236	239	244	244	246	245	247	246	242	237	238	240	242	243	239	235	236	236	
JULY	216	217	216	218	217	219	225	226	228	231	231	230	230	228	222	217	218	220	223	227	227	225	222	219	
AUGUST	222	220	224	226	227	227	226	229	228	231	232	235	228	221	211	204	206	213	219	226	226	225	223	223	
SEPTEMBER	212	217	215	214	214	211	209	212	213	216	219	214	206	192	180	175	176	184	192	203	209	210	209	207	
OCTOBER	232	232	233	233	232	230	226	223	223	224	227	220	209	192	178	174	179	191	204	213	221	224	223	228	
NOVEMBER	240	241	238	237	232	229	225	222	220	218	213	205	198	187	182	184	190	201	216	223	229	234	238	240	
DECEMBER	245	250	246	247	241	236	230	227	222	215	207	195	186	179	179	184	194	208	219	227	228	236	239	241	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	302	304	306	310	311	310	307	306	299	293	284	275	265	260	260	259	267	283	294	299	304	307	309	306	
FEBRUARY	264	271	274	277	279	274	267	265	266	265	263	259	248	229	217	211	211	223	237	255	262	270	277	275	
MARCH	270	275	277	278	278	277	277	277	275	274	274	269	256	240	223	212	212	225	241	254	262	266	269	272	
APRIL	257	257	259	258	259	259	258	261	261	261	261	258	255	245	231	226	228	234	242	249	254	255	254	262	
MAY	255	259	258	259	260	262	262	263	261	263	266	267	264	258	248	243	247	252	258	262	263	264	262	262	
JUNE	244	245	249	247	249	250	249	249	252	254	256	257	256	254	249	239	244	247	254	257	256	253	252	252	
JULY	241	242	242	242	239	240	247	247	245	247	249	250	254	249	244	241	241	245	249	251	250	250	249	251	
AUGUST	225	223	226	229	230	228	227	230	230	232	233	234	231	222	211	204	206	215	223	229	232	230	228	231	
SEPTEMBER	224	227	234	234	232	235	232	232	237	237	244	233	222	206	189	179	181	189	200	210	223	222	223	226	
OCTOBER	234	238	241	247	243	240	240	240	239	238	237	231	219	202	187	184	191	205	220	228	235	237	237	241	
NOVEMBER	244	247	246	245	240	237	236	235	231	227	220	214	209	204	196	196	200	210	226	232	234	241	242	253	
DECEMBER	236	240	241	243	241	239	237	233	229	223	215	204	196	187	186	190	204	215	222	232	239	239	240	242	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	310	313	302	296	291	285	280	275	274	272	266	252	244	233	229	231	233	246	266	277	280	288	288	296	
FEBRUARY	265	268	268	269	257	249	248	250	250	244	251	255	247	223	207	206	212	210	218	243	248	275	274	268	
MARCH	264	255	247	241	242	239	249	251	245	252	247	247	238	228	205	193	200	208	220	231	242	252	270	261	
APRIL	228	220	212	220	229	229	232	234	246	254	244	237	236	211	203	189	191	192	195	206	210	217	218	218	
MAY	223	233	222	217	217	226	233	239	256	255	248	249	250	241	219	215	206	206	215	222	229	227	205	201	
JUNE	229	230	237	216	205	206	209	224	233	233	236	238	241	238	229	222	228	229	222	226	221	216	220	226	
JULY	195	200	188	184	179	192	197	201	209	217	210	206	203	205	200	194	195	189	191	197	204	207	205	187	
AUGUST	219	211	205	215	208	199	195	202	212	218	218	226	213	204	190	184	195	205	209	213	215	215	213	212	
SEPTEMBER	190	213	178	164	148	140	124	153	144	161	157	146	145	132	128	137	135	144	145	163	172	167	168	160	
OCTOBER	234	230	224	214	213	210	202	199	206	210	220	211	193	177	160	156	157	174	194	194	204	215	210	214	
NOVEMBER	221	223	217	213	212	207	202	196	192	194	195	188	175	148	145	154	154	169	198	203	210	215	216	230	
DECEMBER	264	262	247	245	226	216	207	207	212	207	206	187	176	167	160	163	176	189	206	214	202	223	229	237	

Note:-The last column shows the number of days excluded
     from the calculation of the means because the
     days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

       1958   Tabular Baseline= 1020 minutes

                                                                          no of days
                                                                          excluded
                        All-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  130 129 126 118 111 102   89  75  62  58  58  67   88 105 128 158 187 201  195 182 165 146 135 134    1
FEBRUARY 125 118  87 101 104  95   94  91  90  95  87  88   93 103 120 146 177 197  210 201 183 161 145 131
MARCH    116 109 108  98 101  99   91  98 101 101 101  94   87  89 100 126 155 187  203 199 183 160 143 134
APRIL    120 107  89  83  89  91  100 107 108 109 111 105   94  89  97 119 143 162  168 164 152 145 134 128
MAY      111 100  99  90  87  87   93  93 102 108 111 111  109 104 106 116 128 137  142 143 137 136 130 122
JUNE     109  92  79  75  79  80   80  83  90  98 105 114  112 109 111 118 123 128  128 125 121 123 118 120
JULY     107  98  90  87  83  78   79  81  85  85  99 102  104 104 104 110 121 130  130 127 124 117 118 111
AUGUST    98  93  83  78  70  67   69  77  83  85  88  90   87  81  88 103 118 131  136 133 120 114 110 105
SEPTEMBER 102  95  88  88  86  85   87  84  81  85  82  71   61  61  75  99 126 150  163 161 146 132 120 104
OCTOBER  100 100  96  89  84  78   71  66  61  60  59  56   62  70  85 113 145 171  178 172 153 135 117 106
NOVEMBER 101  97  93  89  82  72   60  49  42  34  34  41   52  73  94 119 146 160  160 148 133 119 110 105
DECEMBER 103 100  96  94  88  76   66  54  42  36  33  41   59  80 105 130 159 174  178 162 145 127 114 109
```

                        Quiet-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  129 127 127 121 110 105   91  73  54  40  41  56   89 115 142 174 203 207  189 166 143 123 117 125
FEBRUARY 123 122 118 115 111 106   95  88  86  80  79  77   69  83  91 117 148 178  189 181 166 144 131 127
MARCH    117 106 109  94 105 103   98  97  97  93  86  77   64  62  74 102 137 169  187 180 167 153 140 131
APRIL    126 118 111 102 103  96   92  97  95  98 100  90   30  76  87 111 134 151  156 149 132 131 131 127
MAY      112 111 106 105 102 103  103 104 104 105 107 103   98  94  97 107 120 129  130 125 121 119 117 113
JUNE     108 106 103 104  98  99   99 101 100 100  99 100  101  97 100 110 119 123  121 117 112 112 107 108
JULY     108 108  99  94  87  92   92  93  93  93  95  97   98  98 104 112 119 123  122 115 112 109 112 113
AUGUST    94  93  93  90  88  85   87  89  89  89  87  82   79  76  84 101 113 122  123 117 108 102  99  97
SEPTEMBER 100  97  94  91  90  88   87  86  85  82  76  61   47  43  55  80 111 135  151 149 129 114 106 103
OCTOBER  100 100  94  88  87  85   79  76  71  67  61  54   46  51  69  95 126 150  160 157 138 120 108 104
NOVEMBER 100  95  93  92  87  81   70  61  51  44  43  47   55  69  85 102 136 151  151 139 124 112 108 105
DECEMBER 100  98  92  90  85  76   65  49  42  37  39  48   62  79 100 126 152 162  159 147 135 121 110 103
```

                        Disturbed-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  132 135 140 130 126 118   96  85  63  70  76  85  102 124 140 178 197 214  217 199 182 159 145 145    1
FEBRUARY 131 116 -42  50  58  29   68  72  84 146 127 143  142 155 164 176 204 228  243 228 204 183 164 138
MARCH    128 119 117  82  90  81   69  83  81 111 119 116  113 118 124 149 175 198  213 210 202 167 151 146
APRIL    113  85  82  56  87  84   83 102 107 117 121 120  110 111 112 133 152 172  178 168 164 164 139 125
MAY       95  77 102  67  74  73   69  74 100 109 124 136  146 136 123 135 138 143  153 168 167 170 160 149
JUNE     127  60  26  68  76  74   55  55  60  78 105 147  138 126 133 136 136 145  145 153 149 158 143 150
JULY     128 105  95  85  80  68   63  71  95  77 123 135  133 135 115 111 126 150  159 173 174 143 165 136
AUGUST    90  85  47  39  14  19   50  68  67  74  87 109  107  93 102 116 128 147  153 153 139 137 132 118
SEPTEMBER 117  82  76  74  57  54   78  70  67  98  91  85   84  90 120 143 155 175  190 199 191 189 160 105
OCTOBER  112 111 108  98  86  67   49  40  34  59  65  65   98 113 132 167 193 227  229 226 200 183 151 131
NOVEMBER 104 101  88  85  81  64   47  30  24  19  32  43   46  77  98 127 157 172  162 151 134 117 107 104
DECEMBER 111 108 101 103  95  84   78  67  46  37  35  44   59  83 119 137 170 194  220 194 176 173 157 144
```

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

       1959   Tabular Baseline= 1020 minutes

                                                                          no of days
                                                                          excluded
                        All-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   91  90  90  89  82  72   66  48  38  27  28  26   47  68  94 119 150 167  163 149 132 113  99 100
FEBRUARY  87  86  87  82  72  65   53  38  39  39  37  39   48  90 116 137 153  158 149 133 116 102  94
MARCH     83  79  80  66  65  65   60  52  59  61  54  53   50  52  72  96 120 136  142 133 119 106  97  95
APRIL     86  74  65  62  60  58   58  63  62  65  66  60   54  58  70  86 104 120  126 121 113 108 102  94
MAY       73  69  68  59  58  55   55  55  53  63  66  70   69  66  70  83  93 101  100  96  91  89  87  83
JUNE      71  63  60  57  48  49   49  52  59  58  63  69   73  73  74  83  87  90   91  86  85  82  79  75
JULY      78  74  66  61  55  52   56  60  71  74  80  80   81  80  78  88  92  93   98  93  92  86  84  82
AUGUST    71  70  59  54  46  42   44  48  57  71  71  78   76  71  79  90 103 113  114 113 103  91  87  80
SEPTEMBER 84  69  52  54  55  51   46  46  60  60  63  57   54  55  70  93 114 129  142 138 127 112  93  85
OCTOBER   80  74  69  61  56  46   44  35  42  39  40  38   41  54  67  88 111 128  136 135 124 108  97  86
NOVEMBER  81  74  62  56  46  40   36  30  24  29  34  40   51  62  77  99 120 141  147 143 130 115 103  93
DECEMBER  88  82  76  69  58  45   30  21  15  15  23  39   56  75  94 112 132 146  149 140 132 117 106  97
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                        Quiet-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   90  88  83  76  70  61   50  41  32  19  16  22   34  50  69  98 124 142  138 126 114  99  90  92
FEBRUARY  86  85  84  83  81  75   70  65  56  46  33  29   30  43  64  91 118 135  131 119 102  89  85  88
MARCH     83  80  74  70  68  63   58  54  52  46  41  31   24  26  36  65  96 113  119 112 100  91  90  91
APRIL     85  77  70  71  68  69   67  67  67  64  61  54   45  43  55  73  94 106  108 101  91  85  84  81
MAY       78  74  74  70  71  73   71  70  71  71  71  71   68  65  68  78  88  93   90  84  77  74  74  74
JUNE      68  72  71  65  62  61   64  65  65  65  64  66   64  63  64  72  80  84   81  75  71  69  71  70
JULY      78  77  72  65  59  70   72  75  77  74  74  75   73  70  70  78  88  93   92  86  80  78  76  76
AUGUST    67  64  66  67  63  61   66  70  71  69  67  61   54  49  55  74  93 104  104  95  85  80  76  74
SEPTEMBER 82  79  77  71  67  68   68  68  64  64  64  51   44  43  56  74  96 110  114 109 100  90  85  78
OCTOBER   79  76  74  70  67  62   53  50  47  42  35  27   25  32  47  66  92 111  120 116 106  94  86  81
NOVEMBER  80  76  67  71  66  58   49  39  36  37  35  37   39  48  64  82  96 111  124 119 115 108  98  93
DECEMBER  85  80  77  75  70  59   45  31  24  20  21  28   42  56  73  86 103 113  117 116 108  97  85  83
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                        Disturbed-days mean diurnal variation

```
      UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   93  99 108 131  98  82   71  47  35  34  76  44   81 101 142 148 188 206  197 178 157 126 104 129
FEBRUARY  88  69  76  82  65  59   37   8  30  42  60  58   73  93 102 131 151 169  183 185 172 144 114 103
MARCH     79  75 110  38  51  66   52  22  62  95  82 108  115  94 153 168 178 192  194 191 158 138 121 119
APRIL     80  76  65  55  59  46   43  53  38  61  67  61   60  88 102 100 113 129  137 137 140 146 118 105
MAY       76  68  69  42  42  20   45  31   7  46  57  81   81  78  82  91  94 110  112 109 104 110 106 102
JUNE      77  41  58  54  39  46   26  26  53  40  64  90   98  98 102 119 111 106  115 115 118 110  93  87
JULY      97  94  61  68  67  58   60  81 115 133 126 103  110 105  89 111  98  78  121 119 142 124 124 106
AUGUST    55  57  34  11 -11  -8   -1   5  36  95  92 132  117 124 126 115 123 130  123 136 118 107  90  81
SEPTEMBER 107 74  -5   5  38  21  -33 -24  63  63  75  80   79  77 102 133 148 161  178 174 156 128 102  73
OCTOBER   89  91  84  73  57  16   28  15  44  38  45  54   77  90  94 113 133 145  155 167 153 138 118  91
NOVEMBER  74  76  45  30   7   2    4  23   4  28  24  58   55  97 105 131 154 187  180 169 155 130 120 103
DECEMBER  85  78  73  69  49  26   13   6   1  16  32  67   65  95 121 136 163 180  187 173 171 143 120  99
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Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS

1960

Declination East (1/10 mins)

Tabular Baseline= 1020 minutes

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	87	82	74	70	61	54	44	32	24	17	17	26	37	53	76	107	137	151	151	142	127	112	100	90	
FEBRUARY	86	80	70	67	63	53	49	45	40	30	24	24	35	42	59	87	115	136	143	135	125	108	98	90	
MARCH	75	70	62	61	55	51	46	50	49	51	50	44	40	45	54	73	96	120	130	129	116	105	91	77	
APRIL	85	60	58	39	36	39	43	48	61	69	71	73	74	73	83	97	107	125	130	129	121	108	105	89	
MAY	69	67	59	58	53	51	51	48	53	58	63	66	66	67	74	85	89	94	97	92	86	83	83	78	
JUNE	67	56	42	31	29	28	32	31	39	50	61	69	70	70	71	75	81	84	82	76	73	71	67	72	
JULY	66	55	42	49	46	37	33	37	44	46	55	62	71	70	73	80	86	91	88	81	77	74	73	69	
AUGUST	61	56	52	36	35	19	25	41	46	55	54	61	58	56	61	74	89	100	102	95	90	84	79	75	
SEPTEMBER	67	56	48	49	38	31	35	29	33	42	46	45	38	40	50	68	89	105	116	115	106	94	80	78	
OCTOBER	66	49	48	45	37	34	30	23	33	40	48	52	53	57	77	98	118	135	143	131	121	101	80	62	
NOVEMBER	65	63	56	50	45	38	25	13	21	21	29	34	43	56	76	98	115	127	131	123	112	103	88	79	
DECEMBER	68	63	59	46	40	25	13	6	4	7	10	15	33	56	76	103	130	142	143	132	114	94	80	74	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	85	84	79	74	63	52	38	29	15	4	1	8	22	41	64	95	123	139	140	127	114	102	92	90	
FEBRUARY	85	81	73	62	57	50	43	40	35	32	25	21	26	35	52	77	101	116	119	112	101	91	86	87	
MARCH	74	75	71	67	60	54	51	54	54	54	53	45	36	37	43	58	78	99	112	114	106	93	85	81	
APRIL	81	78	70	58	51	51	47	56	58	65	60	57	50	49	59	76	91	99	100	92	85	79	77	76	
MAY	69	69	64	63	61	56	56	58	58	61	61	61	59	55	59	69	80	85	84	78	70	69	70	70	
JUNE	66	65	54	61	58	61	55	56	58	61	64	62	61	61	64	70	78	83	80	72	67	65	65	65	
JULY	68	65	60	59	55	53	56	54	55	55	56	59	59	57	61	68	76	79	75	68	64	62	62	63	
AUGUST	59	52	51	53	53	45	52	52	51	55	52	54	47	43	49	61	74	84	86	79	74	69	68	68	
SEPTEMBER	63	61	61	58	54	50	49	49	50	49	46	38	29	27	35	56	79	96	106	104	93	80	72	67	
OCTOBER	67	66	64	57	53	49	44	41	39	34	29	24	22	27	42	64	88	104	111	104	91	77	67	64	
NOVEMBER	74	67	63	58	52	45	33	26	16	14	8	18	30	44	65	82	102	111	110	103	94	84	76	73	
DECEMBER	72	64	63	57	50	41	34	22	12	6	6	9	18	45	70	96	113	123	120	107	96	84	74	73	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	110	95	62	61	57	59	47	24	15	5	15	29	49	62	90	125	156	177	177	179	155	135	122	98	
FEBRUARY	85	76	59	61	65	46	51	56	52	32	19	27	34	40	70	103	123	144	156	145	131	100	94	87	
MARCH	85	63	44	55	45	30	21	43	54	60	61	62	54	68	80	97	117	162	169	165	137	133	95	53	
APRIL	114	70	62	-68	-23	20	13	6	75	85	94	109	131	131	138	135	127	173	192	212	198	141	135	129	
MAY	56	39	47	54	50	59	67	67	63	55	62	68	77	93	95	118	107	116	125	120	121	110	103	89	
JUNE	61	54	35	11	-2	-12	18	16	13	57	67	78	81	77	80	82	85	87	88	82	75	71	68	87	
JULY	73	37	3	50	30	19	-7	12	17	21	56	76	116	102	100	101	109	128	113	103	104	88	94	78	
AUGUST	42	38	37	-2	5	-68	-24	30	50	57	72	70	68	66	71	89	109	129	135	126	130	112	101	86	
SEPTEMBER	76	31	45	53	22	-7	11	-7	0	40	50	63	70	74	81	96	110	125	143	130	133	119	80	89	
OCTOBER	71	13	16	-7	-30	-12	6	-8	44	53	56	79	89	102	143	164	172	176	193	173	166	129	79	33	
NOVEMBER	44	62	36	42	47	68	58	17	51	60	104	72	66	73	103	135	143	153	157	128	125	108	55	50	
DECEMBER	78	73	56	12	10	-15	-25	-33	-23	7	25	37	66	98	115	132	162	175	189	173	145	115	96	83	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1961

Declination East (1/10 mins)

Tabular Baseline= 960 minutes

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	669	664	656	652	643	634	625	616	610	608	609	619	633	645	662	684	708	720	719	709	697	688	680	674	
FEBRUARY	665	657	657	652	642	637	635	630	622	619	622	627	632	639	652	672	692	705	708	706	698	689	678	669	
MARCH	654	650	645	637	635	628	625	623	620	625	629	622	622	632	647	663	680	690	687	682	674	667	662	659	
APRIL	642	643	627	626	625	626	626	631	635	633	638	637	635	634	642	656	668	677	678	672	667	661	656	654	
MAY	637	632	631	630	625	622	619	629	629	635	638	643	645	646	649	655	660	661	659	655	650	650	651	650	
JUNE	637	634	636	629	621	621	624	632	629	633	638	643	649	649	651	656	658	658	656	650	648	647	646	646	
JULY	646	641	631	627	623	618	619	625	622	637	646	652	663	659	659	661	668	668	664	659	654	646	651	652	
AUGUST	641	637	631	623	621	617	620	621	625	631	630	633	637	635	638	647	655	663	664	661	654	649	645	642	
SEPTEMBER	636	636	630	626	625	619	621	621	623	625	627	624	619	619	627	644	661	673	676	675	666	657	649	639	
OCTOBER	637	631	636	628	627	619	616	613	616	620	617	619	622	628	635	650	669	685	691	685	675	665	656	648	
NOVEMBER	643	640	634	630	621	613	607	603	601	601	602	611	620	629	641	653	665	676	681	680	673	665	659	652	
DECEMBER	647	638	633	626	618	609	601	597	593	592	595	605	619	634	650	663	677	682	681	676	669	659	657	652	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	669	663	656	649	643	633	625	620	610	610	608	616	627	636	652	672	696	712	718	714	703	690	682	672	
FEBRUARY	658	658	656	652	648	643	637	630	625	621	617	617	619	626	641	663	686	700	699	689	678	669	662	658	
MARCH	657	655	653	651	644	641	639	637	634	630	623	618	613	622	636	657	675	681	681	676	669	663	661	660	
APRIL	646	645	640	639	637	640	638	637	636	638	635	634	630	629	637	653	666	673	675	670	664	657	652	650	
MAY	644	641	638	636	634	629	635	638	640	640	638	640	640	640	643	651	657	659	654	648	647	648	647	648	
JUNE	642	639	642	639	637	633	634	638	636	638	640	640	641	641	642	647	653	653	650	645	640	639	639	639	
JULY	648	649	639	640	635	634	637	637	637	642	647	650	649	646	647	650	657	662	659	655	646	645	646	648	
AUGUST	640	638	631	630	632	633	631	632	634	636	635	635	632	628	629	639	649	657	659	654	646	643	640	639	
SEPTEMBER	639	637	634	632	630	620	629	628	627	627	624	620	612	610	621	638	656	666	671	665	656	646	642	641	
OCTOBER	638	637	635	631	628	624	618	618	614	610	610	607	604	607	622	638	657	674	681	673	660	648	643	637	
NOVEMBER	641	638	639	635	629	623	615	608	602	603	604	608	614	620	628	640	654	670	676	675	670	660	652	647	
DECEMBER	641	638	635	629	625	618	612	605	596	588	587	592	607	620	635	651	666	671	665	656	648	642	642	641	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	675	668	650	660	641	632	618	602	602	611	614	630	641	655	681	716	747	760	753	742	723	712	694	676	
FEBRUARY	663	637	652	649	638	628	627	618	613	613	633	639	652	658	668	689	710	723	730	738	745	735	717	689	
MARCH	668	650	642	613	619	591	579	587	582	607	637	627	640	659	675	682	693	709	698	692	685	673	661	658	
APRIL	607	632	613	616	598	603	616	630	632	625	652	653	657	652	660	677	684	702	704	694	684	665	653	644	
MAY	643	630	635	637	625	596	553	601	601	609	631	650	658	666	668	668	668	669	669	663	659	656	659	658	
JUNE	619	612	636	609	583	589	599	627	618	621	630	646	676	670	670	679	677	676	674	663	665	668	665	656	
JULY	646	640	630	615	609	589	579	607	586	643	670	673	720	699	683	679	697	688	697	694	670	635	653	660	
AUGUST	645	627	612	592	600	598	612	613	619	619	618	641	666	661	663	666	672	680	673	670	669	660	649	632	
SEPTEMBER	627	631	627	620	614	604	608	610	604	614	621	621	616	629	636	655	664	677	686	684	684	672	657	632	
OCTOBER	633	608	634	608	619	591	585	567	592	628	620	651	670	685	670	682	700	714	720	723	713	704	687	666	
NOVEMBER	639	636	620	622	618	606	599	591	591	606	612	628	643	653	673	689	692	693	700	704	692	674	672	661	
DECEMBER	656	626	623	616	602	585	569	580	591	597	607	641	647	660	698	699	715	709	718	716	713	679	687	673	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1962   Tabular Baseline=   960 minutes

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	644	643	639	631	626	618	612	604	597	593	595	602	614	628	642	658	674	682	679	670	661	654	647	644		2
FEBRUARY	641	640	636	632	624	618	617	615	611	605	601	603	608	616	630	653	671	683	684	679	667	657	650	646		
MARCH	636	633	628	628	623	618	618	616	617	617	614	609	608	614	625	640	658	672	677	672	661	651	643	640		1
APRIL	628	631	628	618	611	615	617	617	621	627	629	629	627	624	631	648	659	667	668	664	656	647	640	638		
MAY	632	627	625	620	618	619	618	622	627	626	631	631	631	629	632	638	644	648	647	642	639	638	636	633		
JUNE	623	620	621	616	610	608	615	618	624	629	629	631	635	635	635	639	641	641	639	636	634	633	633	626		
JULY	627	619	619	614	612	610	612	615	622	625	630	631	632	633	637	640	644	642	641	635	634	632	627	630		
AUGUST	617	612	607	608	607	606	607	617	626	627	628	629	631	631	632	638	646	650	650	644	639	635	630	631		
SEPTEMBER	620	622	614	608	606	607	608	615	616	621	625	624	620	622	631	646	661	669	674	668	651	643	637	626		
OCTOBER	624	611	604	609	610	605	603	608	609	610	614	617	622	625	636	650	666	681	682	674	667	646	637	632		2
NOVEMBER	630	627	619	615	611	606	597	591	587	585	592	602	617	625	634	646	658	666	670	664	657	647	643	637		
DECEMBER	634	628	621	617	613	606	598	590	585	585	589	597	609	620	637	655	672	681	680	672	660	649	642	640		

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	644	643	639	636	631	625	618	611	605	600	596	600	610	620	634	651	667	677	674	664	652	641	638	639	
FEBRUARY	640	638	636	633	629	624	621	618	613	608	603	604	608	612	626	645	668	685	682	670	660	649	641	640	
MARCH	637	636	634	632	629	624	622	619	619	619	616	610	605	609	621	638	654	665	670	662	652	642	638	637	
APRIL	624	633	631	628	629	629	629	629	630	633	631	628	622	619	622	646	647	657	659	655	650	646	642	640	
MAY	631	629	627	624	620	621	626	624	625	625	625	625	624	624	628	635	640	640	638	634	629	628	628	628	
JUNE	629	627	626	624	621	620	619	621	623	626	627	628	628	629	629	634	638	640	636	630	626	626	626	627	
JULY	631	629	619	612	613	619	622	624	627	628	629	629	628	628	629	633	636	637	636	631	629	628	628	626	
AUGUST	625	626	622	619	622	624	625	626	629	628	627	625	622	616	619	628	638	645	645	638	632	629	628	627	
SEPTEMBER	624	627	623	619	624	625	623	621	619	617	613	609	604	604	615	629	649	662	664	657	646	639	634	624	
OCTOBER	618	609	611	618	616	612	613	611	605	609	609	605	608	613	624	640	658	672	676	667	659	650	639	637	1
NOVEMBER	630	627	625	623	619	616	610	602	596	590	587	590	597	607	620	637	650	656	653	647	638	634	635	635	
DECEMBER	631	628	625	620	615	608	599	591	583	580	582	583	600	613	626	639	653	658	656	649	640	635	634	635	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	641	642	636	622	621	604	601	586	575	573	595	617	633	649	662	679	694	700	690	685	672	663	651	639	
FEBRUARY	643	641	636	631	624	615	610	612	607	606	613	603	595	613	632	663	682	693	698	706	688	668	651	642	
MARCH	643	633	631	632	612	605	606	607	607	613	607	606	618	630	641	650	666	682	692	688	680	665	644	643	
APRIL	606	624	631	606	586	606	602	600	606	638	645	651	658	650	657	673	682	684	691	687	674	655	628	624	
MAY	634	630	626	620	610	605	600	613	624	627	638	640	650	645	646	646	652	661	663	659	654	655	639	630	
JUNE	602	620	621	607	573	582	600	601	613	629	621	628	643	644	642	643	640	640	646	648	641	643	641	627	
JULY	616	610	619	605	601	587	587	593	627	628	653	642	647	652	656	654	651	647	640	636	637	621	619	627	
AUGUST	622	586	562	574	565	575	589	604	624	627	618	625	637	643	645	649	656	655	656	651	644	642	629	635	
SEPTEMBER	628	639	605	584	582	581	593	617	601	635	653	646	637	638	638	658	669	675	691	675	655	644	629	586	
OCTOBER	627	580	596	616	616	606	602	600	606	609	618	620	638	644	647	662	682	693	681	682	683	644	633	630	
NOVEMBER	634	626	597	593	593	597	566	577	583	578	596	608	642	646	657	663	673	684	691	675	666	644	641	636	
DECEMBER	636	622	601	605	607	602	592	584	589	590	599	608	621	629	647	665	690	711	720	724	703	680	662	655	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1963   Tabular Baseline=   960 minutes

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	627	624	623	618	610	601	593	586	585	584	581	588	600	615	634	653	664	671	667	660	650	640	633	626		
FEBRUARY	623	618	616	613	608	604	602	597	595	592	591	589	589	594	606	625	647	664	671	668	656	642	631	624		3
MARCH	614	614	612	606	603	603	604	601	599	601	598	596	592	594	603	621	639	655	659	653	641	628	622	618		
APRIL	609	610	604	602	601	600	602	606	608	603	609	606	602	602	610	624	636	642	641	634	627	624	620	616		1
MAY	611	603	597	593	596	601	604	607	613	616	618	617	615	613	614	620	627	629	625	621	618	616	612	612		
JUNE	611	606	599	599	594	598	601	604	609	609	612	615	617	618	620	622	625	624	622	618	617	619	615	616		
JULY	606	603	599	592	593	592	596	596	606	610	609	613	618	619	620	623	625	624	620	617	613	614	614	611		
AUGUST	598	596	595	592	590	594	596	602	608	616	616	617	613	612	615	620	627	630	632	626	619	615	614	607		
SEPTEMBER	601	594	587	583	593	590	589	597	608	620	620	617	615	614	618	630	642	653	657	645	636	630	621	607		
OCTOBER	610	606	603	597	598	595	594	596	594	596	599	599	598	605	614	627	643	656	660	654	643	631	613	613		
NOVEMBER	613	609	605	602	597	590	585	581	579	575	576	583	593	604	615	631	649	658	659	651	641	629	624	617		
DECEMBER	617	616	611	605	599	590	581	574	566	566	567	573	586	604	618	636	651	658	653	644	633	625	624	620		1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	627	628	627	623	620	622	608	601	591	584	579	580	589	608	628	651	668	670	660	652	642	632	627	625		
FEBRUARY	622	622	621	618	615	610	604	599	593	589	587	587	585	586	599	618	641	660	668	661	648	636	626	622		1
MARCH	615	613	614	613	612	609	608	607	606	605	602	597	590	587	593	612	635	650	654	646	633	622	618	617		
APRIL	617	616	615	614	612	612	611	611	617	610	609	607	602	600	607	621	633	639	635	627	620	617	616	616		
MAY	613	605	606	608	608	608	609	610	612	612	611	611	608	606	608	615	621	623	619	613	610	609	610	611		
JUNE	614	612	609	610	609	608	607	609	609	613	614	614	614	613	614	617	622	621	617	614	612	611	611	612		
JULY	611	611	606	608	607	606	607	608	609	610	610	609	609	608	609	613	618	618	615	611	609	609	609	610		
AUGUST	609	605	598	600	605	606	606	608	608	609	607	606	603	599	600	609	618	625	624	618	612	610	609	607		
SEPTEMBER	603	604	609	605	606	606	608	608	610	612	611	606	597	591	596	610	623	635	638	632	620	617	611	612		
OCTOBER	618	615	613	606	600	600	599	598	600	598	598	594	589	591	601	613	629	643	648	646	636	625	619	616		
NOVEMBER	613	613	610	607	606	603	596	588	580	574	572	576	582	594	607	622	635	645	645	639	631	624	620	616		
DECEMBER	617	615	611	607	602	595	589	580	570	563	565	574	586	598	612	631	648	652	643	629	619	616	616	617		

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	628	621	611	596	581	545	553	548	571	594	595	613	629	645	666	684	672	699	697	689	672	659	646	619		
FEBRUARY	629	611	605	603	594	593	599	597	602	598	604	601	608	620	628	644	665	679	691	694	680	656	639	617		
MARCH	611	613	607	594	587	589	589	584	574	602	594	597	605	611	620	640	654	675	671	674	657	636	629	619		
APRIL	603	606	602	600	605	604	599	601	612	604	604	605	598	607	621	637	646	645	645	641	643	638	620	605		
MAY	615	582	568	570	588	604	605	620	633	631	636	634	624	619	622	627	637	635	631	626	623	620	603	610		
JUNE	610	589	570	565	556	578	592	595	612	607	617	621	625	629	628	628	629	627	627	628	625	628	622	631		
JULY	591	600	603	574	575	578	577	576	587	602	601	612	637	635	628	631	640	634	630	628	615	620	615	594		
AUGUST	583	598	586	567	567	568	567	589	598	602	614	633	626	629	634	628	634	636	646	639	625	616	618	613		
SEPTEMBER	578	562	519	497	572	536	539	570	614	627	621	622	637	646	648	661	668	672	673	653	639	648	636	619		
OCTOBER	587	584	580	566	577	584	577	588	593	612	629	625	620	637	647	654	673	687	685	680	674	649	597	612		
NOVEMBER	604	598	588	592	592	584	569	565	570	575	588	603	618	630	636	646	671	683	684	682	664	637	637	614		
DECEMBER	613	617	609	598	599	587	573	564	549	556	564	575	594	617	640	651	669	678	673	680	659	641	638	622		1

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1964   Tabular Baseline= 960 minutes

All-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   616 612 606 601 597 588 581 577 569 570 574 579 591 599 610 627 646 651 646 636 630 625 621 618
FEBRUARY  610 605 600 593 589 589 586 584 581 578 575 578 585 591 604 619 636 645 644 635 626 621 619 614
MARCH     604 600 597 591 586 587 590 593 591 587 586 583 583 590 602 617 630 637 636 630 621 611 608 606
APRIL     600 594 589 592 594 593 591 595 600 600 605 602 600 599 604 612 623 627 625 620 615 609 607 592
MAY       598 596 596 592 586 596 594 598 599 603 603 604 603 603 605 613 617 617 615 612 609 609 605 603
JUNE      598 595 593 591 583 585 586 592 597 599 602 601 602 605 605 608 611 611 606 602 600 601 599 599
JULY      593 582 586 586 583 587 590 592 595 597 599 602 600 601 601 605 607 603 605 600 599 595 596 594
AUGUST    591 590 580 579 580 579 584 589 592 594 597 596 594 591 594 601 610 615 615 609 603 600 594 593
SEPTEMBER 591 587 581 581 579 581 585 589 592 592 591 587 584 584 592 602 613 621 625 620 610 604 598 594
OCTOBER   588 589 589 587 584 581 580 581 580 578 577 577 578 584 594 608 623 629 627 621 610 604 599 589
NOVEMBER  600 597 590 586 580 573 569 564 559 558 561 568 579 592 604 613 621 624 621 614 609 606 605 604
DECEMBER  599 592 591 588 582 575 568 561 554 551 550 558 572 587 599 613 624 628 623 615 608 604 603 601
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Quiet-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   615 611 605 606 600 595 587 579 576 574 574 578 583 590 599 616 633 637 629 622 622 616 616 617
FEBRUARY  606 606 604 600 598 596 592 586 580 575 571 576 582 586 598 614 631 638 635 626 620 614 610 609
MARCH     609 608 607 604 600 597 593 592 592 589 585 581 580 584 592 609 620 626 626 622 616 612 609 608
APRIL     605 604 602 600 598 596 597 597 597 598 598 595 591 591 597 609 619 623 619 612 606 606 604 604
MAY       604 602 600 597 594 593 593 596 599 600 600 598 597 597 600 611 619 617 612 606 604 603 602 602
JUNE      596 594 594 593 593 594 596 597 597 600 599 597 598 599 602 605 606 606 604 600 598 597 597 597
JULY      599 595 593 593 593 593 595 592 593 595 597 598 596 595 596 600 605 606 602 597 599 598 599 599
AUGUST    593 594 592 590 590 589 592 594 594 594 594 592 587 584 586 594 603 610 611 607 602 598 597 597
SEPTEMBER 591 592 591 589 588 586 587 587 588 588 586 583 578 580 587 598 608 614 619 614 606 599 598 594
OCTOBER   596 596 594 594 589 586 584 582 578 574 573 575 575 578 589 605 619 624 622 618 611 604 600 599
NOVEMBER  602 601 599 595 591 585 579 573 566 560 560 566 578 588 599 611 619 620 614 607 603 604 606 604
DECEMBER  602 597 593 591 584 580 573 565 555 550 549 558 572 585 593 604 610 610 610 609 608 605 605 603
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Disturbed-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   613 604 602 592 584 550 552 555 538 561 587 601 614 611 622 644 672 680 670 657 642 630 617 605
FEBRUARY  618 595 585 575 572 574 572 581 576 577 579 594 606 604 611 628 642 652 654 653 639 634 623 617
MARCH     608 595 591 596 576 571 583 588 582 578 590 596 601 604 614 629 649 660 661 657 641 607 608 594
APRIL     598 577 569 593 598 601 596 595 614 613 618 609 608 610 617 625 636 648 656 646 640 628 628 580
MAY       595 585 588 567 549 579 584 602 603 615 606 614 615 613 613 626 623 624 622 618 610 611 602 591
JUNE      604 581 576 576 547 556 567 589 605 604 614 610 616 624 618 619 623 624 617 611 605 611 597 600
JULY      596 567 568 563 552 579 577 579 593 591 594 616 603 608 608 612 609 614 612 601 605 587 594 598
AUGUST    593 590 557 566 572 544 559 580 593 594 608 601 606 603 606 611 616 618 622 615 610 609 589 584
SEPTEMBER 602 589 564 568 565 565 572 582 592 591 595 596 597 597 603 612 625 634 640 629 614 610 589 581
OCTOBER   576 584 582 576 578 576 576 575 575 581 583 581 584 594 598 604 619 629 618 608 581 594 590 566
NOVEMBER  599 590 581 580 566 552 549 555 552 556 559 562 577 587 609 626 634 641 637 628 623 616 606 597
DECEMBER  602 586 590 586 578 570 559 548 544 542 543 560 573 588 603 612 631 635 626 619 612 613 611 606
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Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1965   Tabular Baseline= 960 minutes

All-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   600 597 594 589 583 576 570 563 557 552 553 560 573 584 596 608 620 628 628 619 613 607 604 602
FEBRUARY  595 592 589 586 580 576 575 571 565 562 560 562 570 579 593 611 627 632 629 621 612 605 599 597
MARCH     591 589 587 585 582 579 574 574 577 578 574 571 570 574 585 600 615 628 631 624 615 605 599 597
APRIL     594 590 584 580 572 573 579 581 584 586 589 586 581 582 589 602 614 620 617 610 603 600 598 596
MAY       589 588 583 582 582 579 579 584 588 589 591 591 598 589 592 597 602 603 600 596 594 593 591 590
JUNE      582 582 582 582 579 577 582 586 589 594 596 597 598 600 602 606 605 601 596 595 593 594 587
JULY      583 587 580 577 578 579 575 583 584 589 591 593 595 595 596 599 602 603 600 595 592 592 590 587
AUGUST    584 581 580 578 578 580 582 585 587 587 590 590 588 587 589 595 603 607 608 604 600 596 592 588
SEPTEMBER 585 583 579 579 578 579 580 581 583 582 584 580 578 578 586 599 613 622 627 622 613 600 598 594
OCTOBER   586 582 583 581 578 574 571 571 570 570 571 569 569 570 576 588 605 621 627 624 615 604 596 592
NOVEMBER  593 591 585 580 575 571 565 560 555 552 554 559 567 578 590 603 613 620 622 617 608 607 603 597
DECEMBER  594 590 588 582 577 570 562 555 548 545 548 560 572 583 596 610 624 632 632 626 617 608 603 600
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Quiet-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   602 597 595 593 588 585 580 573 566 562 559 563 571 583 595 608 619 625 623 612 608 606 605 604
FEBRUARY  596 594 595 590 585 581 581 577 572 562 559 559 567 579 589 602 615 620 615 607 599 595 591 593
MARCH     592 589 586 587 585 584 582 582 580 579 577 573 567 567 576 593 611 623 626 619 609 599 594 593
APRIL     593 591 593 590 587 588 588 589 590 588 587 583 579 579 586 597 610 617 616 607 600 596 596 595
MAY       592 592 591 590 589 589 588 589 590 591 590 588 587 586 588 593 599 602 598 595 593 592 594 594
JUNE      591 592 588 589 589 587 588 589 591 591 591 590 589 589 590 594 598 599 596 591 589 587 588 588
JULY      590 589 589 589 587 589 589 589 590 592 593 592 588 588 590 594 598 599 597 593 590 588 588 588
AUGUST    585 586 586 582 583 584 586 588 588 588 590 588 583 583 586 594 599 602 603 599 592 590 588 587
SEPTEMBER 590 589 586 585 582 586 588 588 589 588 587 584 578 572 577 591 606 620 623 619 607 597 592 591
OCTOBER   587 588 587 585 583 582 582 583 581 579 579 575 572 571 574 585 602 618 623 619 608 597 590 587
NOVEMBER  592 590 588 586 580 576 571 563 557 555 557 562 568 576 586 598 611 620 623 619 611 607 605 599
DECEMBER  594 589 586 581 576 572 567 558 549 546 550 558 567 578 593 610 624 629 628 621 614 605 601 598
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Disturbed-days mean diurnal variation

```
UT    0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   598 595 592 585 577 562 555 543 537 546 559 581 593 604 612 622 632 638 632 627 618 613 608
FEBRUARY  588 585 587 577 568 561 564 558 551 556 559 559 573 583 599 621 643 654 657 646 634 619 604 603
MARCH     594 582 574 572 575 568 549 546 570 575 569 567 576 587 598 612 626 638 632 626 610 604 602
APRIL     597 584 569 557 540 540 559 556 565 573 592 598 607 603 607 619 624 625 622 616 609 609 605 596
MAY       585 579 573 569 576 555 552 576 588 587 598 600 592 597 599 601 606 607 604 599 602 598 590 596
JUNE      562 562 570 575 560 548 567 583 590 596 615 620 634 640 645 636 637 636 626 620 623 607 609 574
JULY      580 581 567 554 550 555 533 572 571 584 591 592 600 598 599 604 606 609 608 603 599 597 596 581
AUGUST    580 581 580 584 584 583 569 578 594 589 595 591 591 589 593 598 607 611 614 612 618 611 597 581
SEPTEMBER 585 584 579 581 580 582 572 569 577 569 586 580 588 595 598 613 627 633 641 641 635 617 615 606
OCTOBER   577 570 575 576 568 554 558 566 566 566 568 570 579 577 582 596 608 622 630 630 622 609 594 594
NOVEMBER  592 587 576 570 563 558 556 554 545 542 554 566 576 591 603 617 626 633 639 634 610 625 615 598
DECEMBER  595 593 587 572 571 563 556 549 548 537 535 554 569 582 605 620 635 645 643 640 624 611 603 602
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Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS — Declination East (1/10 mins)

1966 — Tabular Baseline = 960 minutes

no of days excluded

All-days mean diurnal variation

UT	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	592	591	587	584	579	573	567	558	553	548	548	551	560	571	585	601	619	632	632	624	613	603	597	594
FEBRUARY	589	588	585	582	576	572	569	566	563	560	556	554	559	566	580	599	618	630	630	625	613	601	593	589
MARCH	587	583	580	577	577	574	573	572	571	573	575	567	566	568	578	597	614	626	632	623	612	604	597	592
APRIL	581	580	575	574	573	572	571	575	575	575	576	574	572	572	580	593	604	610	609	603	597	592	590	587
MAY	581	581	580	575	574	574	578	578	580	581	584	584	584	583	585	592	599	602	600	598	593	591	589	582
JUNE	576	578	576	573	572	573	575	577	579	582	584	584	583	584	586	589	592	592	591	588	585	584	584	581
JULY	575	574	571	568	566	563	563	568	576	584	584	587	585	584	586	591	594	596	593	588	584	583	582	583
AUGUST	578	573	570	566	564	565	568	569	570	575	578	579	580	574	577	585	593	600	604	597	589	583	580	580
SEPTEMBER	574	573	561	561	556	560	567	572	577	585	588	582	573	572	577	590	608	620	627	624	610	594	586	580
OCTOBER	579	579	574	572	567	566	564	561	559	560	561	561	560	562	576	584	605	620	628	625	617	606	595	585
NOVEMBER	585	583	579	573	568	559	552	544	538	536	542	549	558	569	583	601	614	622	622	615	605	599	592	589
DECEMBER	585	579	577	576	569	561	553	541	533	529	533	541	555	571	587	602	619	632	634	629	619	608	597	590

Quiet-days mean diurnal variation

UT	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	593	590	587	584	581	574	569	564	558	552	546	551	559	569	582	597	612	620	621	614	609	601	598	597
FEBRUARY	591	590	589	587	585	581	576	571	567	560	555	555	555	558	571	590	611	627	629	620	607	595	590	589
MARCH	590	582	587	586	585	583	583	579	576	576	573	569	564	565	574	591	611	626	630	622	609	599	595	593
APRIL	583	583	582	581	579	579	578	578	578	578	578	574	570	565	572	587	600	605	603	596	587	584	582	582
MAY	582	582	582	581	580	578	576	576	577	578	579	579	578	578	580	588	595	595	592	587	583	581	581	581
JUNE	582	581	580	578	576	578	579	579	579	580	581	581	581	580	581	585	589	590	588	584	580	579	581	581
JULY	584	586	580	580	581	578	576	579	583	584	585	586	584	582	584	590	594	594	592	586	581	580	581	581
AUGUST	577	572	573	572	572	574	575	573	576	577	577	576	573	568	570	580	590	596	599	594	586	581	580	579
SEPTEMBER	579	581	581	579	574	579	580	582	583	580	579	571	564	559	565	579	597	612	618	615	605	594	588	586
OCTOBER	581	583	583	580	577	573	570	567	561	559	557	553	553	555	562	579	599	615	622	620	610	597	589	585
NOVEMBER	587	584	581	576	571	567	561	550	542	535	536	544	557	567	580	594	605	610	609	604	599	594	592	588
DECEMBER	577	577	576	572	567	561	554	541	530	523	524	532	544	560	575	595	610	622	623	615	607	601	595	592

Disturbed-days mean diurnal variation

UT	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	589	592	588	590	582	571	567	548	541	539	542	543	559	577	603	619	635	653	649	633	615	601	594	592
FEBRUARY	588	586	582	577	578	548	542	545	552	568	569	563	567	576	586	605	627	637	637	644	623	608	598	593
MARCH	591	580	572	573	567	543	546	547	546	564	590	584	606	603	607	625	631	640	650	624	608	610	609	593
APRIL	581	580	565	568	568	568	564	568	567	571	572	573	575	584	599	609	615	623	622	618	620	608	602	594
MAY	569	573	579	566	545	555	565	564	569	561	594	592	596	599	603	608	619	625	627	618	608	599	589	569
JUNE	550	567	571	575	572	569	568	582	584	585	591	594	588	589	593	598	598	597	597	602	597	596	589	582
JULY	551	555	557	555	548	529	513	535	564	597	592	604	599	595	601	601	603	603	600	595	589	580	581	589
AUGUST	578	567	580	565	553	566	575	581	580	586	596	594	595	575	583	590	598	614	636	607	598	587	584	574
SEPTEMBER	576	570	523	551	535	506	531	533	553	602	632	636	609	601	597	618	635	640	641	631	621	588	566	559
OCTOBER	579	569	552	542	536	533	537	537	544	554	549	579	577	588	594	605	621	637	644	642	637	628	611	599
NOVEMBER	587	587	578	570	563	555	540	531	530	539	554	565	573	585	589	610	625	643	646	638	622	612	591	592
DECEMBER	590	574	572	572	558	546	536	510	521	521	534	546	556	581	593	612	639	656	655	646	633	615	596	585

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS — Declination East (1/10 mins)

1967 — Tabular Baseline = 960 minutes

no of days excluded

All-days mean diurnal variation

UT	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	616	599	595	593	584	576	571	558	549	566	567	572	584	601	620	639	656	662	657	645	661	654	649	647
FEBRUARY	583	580	576	573	568	563	559	554	547	539	533	536	547	558	574	592	610	623	626	619	607	596	588	584
MARCH	575	575	571	567	562	560	560	558	557	553	547	540	537	540	553	575	599	617	623	618	607	595	585	582
APRIL	573	568	559	555	554	557	560	561	564	564	563	558	553	551	560	576	594	605	606	602	594	586	581	578
MAY	565	564	559	541	546	554	552	565	564	575	578	580	578	579	579	586	594	599	599	594	592	590	584	581
JUNE	573	561	564	566	565	566	567	569	573	576	580	580	579	580	580	585	589	589	587	583	581	580	584	580
JULY	570	566	563	562	559	555	559	565	569	568	571	573	572	572	574	579	584	586	585	579	575	573	573	574
AUGUST	566	563	560	558	557	555	558	561	562	563	566	568	564	561	565	575	586	595	596	591	582	575	573	570
SEPTEMBER	561	563	558	549	551	554	556	556	563	569	569	562	557	556	564	582	603	619	627	621	607	594	583	571
OCTOBER	569	562	562	562	561	559	557	557	554	551	547	543	545	548	561	582	605	622	630	626	611	593	584	577
NOVEMBER	581	574	569	566	561	554	542	533	527	525	529	539	551	567	581	597	614	625	625	621	612	601	593	589
DECEMBER	578	574	572	567	560	550	541	534	527	528	530	539	549	565	586	612	631	642	639	627	610	599	586	582

Quiet-days mean diurnal variation

UT	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	582	582	580	578	576	572	565	553	540	530	526	528	543	560	579	599	616	620	617	605	596	590	587	587
FEBRUARY	576	577	574	573	569	567	563	556	548	539	535	534	541	554	569	583	601	613	620	616	605	591	583	580
MARCH	580	578	577	574	570	567	563	559	556	552	543	537	532	537	549	571	593	610	612	605	595	587	584	581
APRIL	571	572	570	567	565	564	566	566	564	564	563	558	551	551	558	575	589	599	599	592	584	579	575	573
MAY	567	562	566	566	566	562	557	561	565	569	569	569	567	564	564	574	583	589	590	585	581	577	578	576
JUNE	576	574	572	568	571	572	572	572	574	575	575	575	574	573	573	579	585	586	583	578	574	573	573	574
JULY	572	573	575	574	573	572	570	570	571	572	572	571	569	566	569	575	582	584	583	578	573	572	573	574
AUGUST	569	569	570	564	567	568	568	568	569	569	569	569	561	556	557	568	583	593	595	588	579	573	572	573
SEPTEMBER	573	571	568	565	564	566	565	568	569	568	566	555	547	545	554	570	590	608	615	608	590	581	575	574
OCTOBER	570	568	566	565	563	558	556	552	546	540	535	531	528	536	551	570	593	612	622	619	606	590	582	577
NOVEMBER	579	577	574	572	564	555	545	533	522	517	517	527	542	556	574	595	611	613	608	601	594	588	586	584
DECEMBER	576	576	574	572	569	562	554	543	528	526	528	533	544	561	583	596	605	613	616	609	596	587	585	587

Disturbed-days mean diurnal variation

UT	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	575	575	572	576	541	525	539	501	490	518	533	545	563	598	629	648	671	675	666	649	620	605	597	588
FEBRUARY	590	590	575	568	557	550	557	549	543	534	526	544	580	582	590	605	625	652	648	644	627	613	600	592
MARCH	577	570	565	556	538	540	554	557	557	553	550	536	545	548	563	580	600	624	631	634	627	605	588	587
APRIL	574	565	541	543	534	543	563	561	574	563	560	557	558	557	562	578	598	609	609	610	607	597	593	582
MAY	533	566	597	517	514	558	528	555	564	580	613	623	625	632	621	616	620	627	621	617	615	585	591	
JUNE	566	536	535	559	559	568	557	566	579	586	585	589	585	583	583	586	591	590	589	586	599	602	621	615
JULY	575	566	546	550	547	520	527	544	558	548	567	577	579	586	586	588	590	593	590	584	585	586	587	583
AUGUST	563	557	547	540	541	536	542	555	558	566	567	575	579	570	569	578	588	599	596	594	583	573	572	565
SEPTEMBER	543	543	541	516	515	521	531	516	554	586	593	590	589	586	590	614	629	640	653	646	637	620	587	557
OCTOBER	565	552	549	550	557	552	550	550	551	564	561	543	571	572	594	614	631	641	635	621	595	586	573	
NOVEMBER	592	573	557	554	565	560	544	535	537	532	538	552	564	571	589	607	625	641	643	639	630	613	593	592
DECEMBER	585	576	574	559	543	517	514	514	517	532	547	579	577	591	605	641	664	677	673	655	631	627	598	581

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1968   Tabular Baseline= 960 minutes

no of days excluded

All-days mean diurnal variation

```
UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    587 584 583 581 576 570  561 547 539 534 535 540  547 558 578 606 633 649  654 647 634 618 604 594
FEBRUARY   580 573 575 573 569 562  560 548 543 544 542 545  545 556 570 589 608 630  642 638 624 605 589 583
MARCH      577 573 568 564 557 556  554 560 559 556 556 552  551 554 564 581 603 622  631 626 614 600 586 576
APRIL      574 567 562 551 549 556  561 566 566 563 567 565  559 555 562 580 596 607  612 607 597 589 583 579
MAY        568 555 555 552 548 549  554 557 562 564 570 571  570 568 572 583 592 595  594 588 582 577 572 573
JUNE       563 561 557 556 550 541  548 554 549 562 570 580  583 580 579 584 588 589  586 581 576 575 568 565     1
JULY       565 560 558 557 552 551  553 552 561 566 565 568  570 570 569 576 582 586  583 577 571 568 567 566
AUGUST     562 556 557 554 547 546  550 554 561 563 567 566  562 559 565 575 586 594  595 589 579 570 570 569
SEPTEMBER  563 555 551 550 550 552  553 557 560 563 559 556  550 549 556 577 600 615  618 612 600 586 578 572
OCTOBER    570 561 560 561 558 552  550 550 547 543 546 545  540 544 560 581 604 625  632 627 613 596 582 574
NOVEMBER   577 570 576 574 567 562  552 545 536 534 533 542  556 572 587 609 622 628  627 618 607 599 595 586
DECEMBER   572 571 570 564 555 550  541 529 524 523 525 527  538 549 571 605 636 648  639 625 605 589 575 570
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Quiet-days mean diurnal variation

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UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    588 586 584 580 577 573  561 548 540 535 535 533  531 543 562 592 620 636  640 635 623 606 596 590
FEBRUARY   580 582 580 578 576 570  565 554 546 538 530 528  534 543 557 573 593 614  621 616 606 591 586 583
MARCH      580 576 573 573 568 568  568 565 563 557 550 544  542 546 554 568 590 609  617 611 598 590 583 579
APRIL      576 573 568 566 565 564  567 567 568 566 563 558  552 549 557 573 589 599  601 594 585 578 575 575
MAY        572 570 562 561 559 560  565 566 568 567 566 565  560 556 560 572 582 589  586 582 575 571 570 570
JUNE       568 566 566 566 564 563  566 566 568 568 568 567  566 566 564 569 575 580  579 574 570 567 567 566
JULY       568 564 566 566 566 557  556 559 564 566 566 568  566 564 565 573 580 584  581 573 568 566 566 567
AUGUST     568 566 562 564 561 561  561 563 564 563 563 561  553 550 555 565 578 586  589 586 578 570 567 567
SEPTEMBER  570 570 573 570 565 562  562 562 559 557 552 543  535 533 543 567 595 612  618 613 597 583 579 575
OCTOBER    575 574 572 569 565 562  558 553 550 546 542 534  531 537 548 565 587 606  611 603 599 589 581 577
NOVEMBER   581 577 571 566 558 552  544 539 532 526 524 530  542 553 569 591 606 615  613 605 595 586 583 584
DECEMBER   573 575 577 574 571 566  557 551 531 526 526 532  536 544 568 603 634 643  631 609 586 570 565 567
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Disturbed-days mean diurnal variation

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UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    597 595 588 587 581 569  553 534 533 532 546 569  579 582 607 631 652 666  675 670 650 630 616 601
FEBRUARY   593 571 571 573 563 558  539 518 534 547 554 555  548 569 592 609 626 653  665 659 646 624 594 579
MARCH      576 560 562 557 560 541  527 522 532 548 551 546  555 568 566 582 608 629  635 637 625 609 589 573
APRIL      587 571 551 531 541 553  560 561 568 548 566 576  577 568 568 589 604 619  635 631 621 614 609 592
MAY        559 533 542 542 532 512  529 526 553 563 579 592  597 594 592 599 609 602  599 596 592 585 576 576
JUNE       560 552 540 543 527 484  512 533 515 547 586 627  636 626 621 626 609 605  604 600 593 593 567 569
JULY       563 551 541 545 538 528  538 537 564 572 563 573  581 588 573 577 580 581  583 580 578 576 566 559
AUGUST     541 544 548 530 514 516  516 527 553 571 577 579  574 576 587 596 605 610  610 601 586 563 573 571
SEPTEMBER  554 514 503 503 536 536  547 547 563 584 572 584  586 584 585 606 626 646  643 629 610 591 599 567
OCTOBER    573 549 545 551 540 514  521 537 537 533 554 580  562 554 585 612 633 666  674 663 643 613 585 572
NOVEMBER   548 540 584 585 586 586  564 572 558 559 559 567  582 619 621 651 662 663  664 654 638 621 615 578
DECEMBER   570 568 570 558 527 520  514 510 515 521 525 519  534 548 575 612 643 655  656 647 627 610 588 579
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Note:- The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1969   Tabular Baseline= 960 minutes

no of days excluded

All-days mean diurnal variation

```
UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    567 564 562 562 556 550  544 536 530 530 531 534  536 543 555 578 609 628  631 622 609 594 584 576
FEBRUARY   570 567 566 563 560 554  552 550 544 539 536 535  537 544 557 575 605 626  634 633 623 608 593 578
MARCH      573 567 558 559 557 553  553 551 552 550 553 542  538 542 557 581 604 621  625 619 609 595 585 573
APRIL      564 560 559 552 552 547  547 552 555 557 558 555  553 554 561 576 591 600  601 597 588 581 576 575
MAY        559 558 550 543 543 537  540 552 561 566 566 565  568 566 568 578 588 591  589 584 577 574 573 566
JUNE       567 561 554 547 549 547  545 550 555 554 558 561  562 563 566 572 577 579  578 575 571 568 568 568
JULY       558 556 552 542 543 546  549 549 555 560 561 561  559 558 562 569 576 578  576 570 566 564 564 563
AUGUST     561 555 545 545 544 549  553 555 555 559 560 557  553 549 555 567 580 589  590 584 575 571 568 566
SEPTEMBER  560 557 550 547 545 547  548 550 554 553 554 550  548 542 554 572 590 606  613 609 594 581 572 566
OCTOBER    568 563 557 556 554 549  547 544 540 541 542 534  535 543 553 573 597 616  625 618 606 589 578 573
NOVEMBER   570 567 566 560 558 546  535 525 520 519 523 528  537 555 569 588 606 617  618 612 602 586 578 574
DECEMBER   568 566 562 558 554 546  536 528 517 513 516 525  538 549 566 586 607 619  620 612 600 586 577 573
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Quiet-days mean diurnal variation

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UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    571 568 564 561 558 554  546 538 531 525 525 525  526 529 539 565 601 621  622 613 600 587 580 573
FEBRUARY   563 562 562 562 561 558  556 554 546 539 533 528  528 534 549 571 597 619  628 626 613 594 578 571
MARCH      571 569 568 566 560 558  556 556 558 557 547 537  527 525 538 567 593 611  617 614 601 587 583 581
APRIL      565 567 565 562 562 559  554 554 555 554 553 550  543 546 553 570 586 596  599 594 588 578 578 574
MAY        555 563 559 554 554 553  554 559 561 563 562 557  556 553 557 568 578 581  580 574 568 564 562 559
JUNE       567 566 564 559 558 558  560 561 564 563 563 561  560 560 562 568 572 573  571 566 562 561 562 563
JULY       560 561 560 559 560 559  558 560 560 560 560 560  557 554 555 563 570 575  571 565 561 560 560 561
AUGUST     562 560 559 559 556 558  558 556 558 557 556 553  549 543 549 561 574 584  588 582 574 569 567 566
SEPTEMBER  566 565 563 558 553 556  560 560 560 562 556 549  539 535 543 559 578 593  598 596 585 573 569 567
OCTOBER    569 568 566 562 558 552  550 542 537 534 533 529  528 532 541 558 578 602  613 608 596 584 576 571
NOVEMBER   563 562 560 557 553 549  543 536 529 524 520 521  528 540 555 572 590 599  604 598 591 583 577 572
DECEMBER   566 563 559 558 554 547  541 530 521 514 514 519  528 544 567 589 608 619  616 606 588 571 563 563
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Disturbed-days mean diurnal variation

```
UT          0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23  24
JANUARY    552 551 562 567 553 543  537 524 523 528 528 545  550 560 567 581 607 632  637 632 611 594 584 579
FEBRUARY   570 566 564 564 567 559  557 556 543 539 537 545  551 568 579 581 633 664  679 679 662 646 632 602
MARCH      578 573 537 557 553 534  537 519 530 543 581 558  558 567 574 595 620 638  640 632 634 609 609 579
APRIL      555 557 551 540 542 528  518 530 544 566 576 569  568 573 579 588 594 603  605 601 599 596 564 578
MAY        547 547 514 515 522 506  499 532 578 602 599 602  616 610 593 602 618 619  615 615 595 584 585 563
JUNE       577 559 549 528 537 530  517 528 540 542 557 565  567 578 579 585 590 590  594 599 591 584 582 580
JULY       555 546 534 497 491 513  525 514 534 560 565 564  567 568 574 577 581 582  580 576 574 572 571 566
AUGUST     551 541 519 521 526 534  547 550 549 565 567 564  554 552 554 570 584 597  598 589 584 580 577 575
SEPTEMBER  541 548 521 530 546 535  531 536 561 545 558 565  581 555 568 591 607 629  639 626 599 586 565 533
OCTOBER    572 553 538 539 546 535  538 537 535 550 565 561  555 565 579 601 618 629  641 634 620 598 581 574
NOVEMBER   571 567 571 558 546 527  508 495 511 527 548 550  550 585 595 609 619 625  634 626 604 581 577 570
DECEMBER   574 566 557 547 542 532  520 518 505 509 516 529  549 553 578 595 611 624  629 622 610 593 586 580
```

Note:- The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	567	565	562	559	556	548	542	533	528	527	528	529	531	537	554	578	609	629	633	625	612	598	585	576	
FEBRUARY	570	567	564	561	558	553	548	543	537	531	527	530	525	528	539	560	593	624	637	634	619	600	584	575	
MARCH	569	571	566	562	557	556	552	553	550	553	554	549	540	539	550	571	596	618	631	630	614	601	588	578	
APRIL	568	559	557	548	549	546	550	551	555	561	563	560	559	559	563	577	595	607	610	603	591	586	582	576	
MAY	564	561	560	557	550	549	554	556	558	560	560	561	559	559	562	572	583	588	588	583	579	575	574	570	
JUNE	569	563	556	552	549	545	545	549	549	554	560	566	570	570	572	578	582	585	583	578	574	571	572	569	
JULY	554	563	556	549	542	539	541	546	553	559	571	575	574	578	577	581	586	589	588	583	577	576	572	567	
AUGUST	566	559	560	549	547	547	545	549	555	566	568	572	567	564	566	577	589	597	600	594	584	579	574	570	
SEPTEMBER	568	563	559	554	549	546	546	550	551	552	555	552	547	546	557	577	596	610	614	609	598	588	579	574	
OCTOBER	571	568	563	560	555	556	551	548	547	544	540	538	540	547	561	586	614	631	637	629	615	602	587	576	
NOVEMBER	574	565	565	561	557	552	546	535	530	529	532	537	546	553	575	599	619	633	637	626	610	593	583	579	
DECEMBER	582	578	572	568	563	555	544	536	525	520	522	530	547	566	587	604	622	631	629	618	604	594	588	585	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	569	566	563	559	556	550	543	533	528	528	529	527	524	524	542	568	602	622	627	616	606	593	581	574	
FEBRUARY	571	569	567	565	562	556	551	547	539	535	531	526	518	518	528	551	584	619	639	639	623	604	584	573	
MARCH	566	565	563	561	560	560	558	558	554	552	546	535	524	522	533	558	587	609	618	614	597	581	573	570	
APRIL	571	559	562	558	558	557	559	561	558	558	555	548	543	540	548	567	588	601	602	594	585	578	575	573	
MAY	564	562	562	562	558	558	560	560	559	560	559	559	555	551	556	567	577	585	584	578	571	567	567	563	
JUNE	567	564	558	559	557	557	559	561	564	563	564	563	562	560	563	570	576	580	577	571	567	563	563	565	
JULY	566	569	566	556	558	564	564	566	567	570	568	570	567	563	565	572	578	583	580	574	568	567	567	565	
AUGUST	568	566	563	558	558	560	563	564	565	565	563	563	560	558	561	569	580	587	589	581	574	570	569	568	
SEPTEMBER	571	568	565	563	558	559	560	557	561	558	555	548	540	540	549	569	587	598	603	598	586	579	572	570	
OCTOBER	570	570	570	568	566	559	557	555	552	546	541	536	534	537	550	575	603	621	621	609	593	581	575	573	
NOVEMBER	574	572	569	568	565	560	552	539	531	531	527	529	534	541	560	582	606	624	632	622	605	588	580	579	
DECEMBER	580	576	572	569	566	560	552	538	526	514	511	518	538	560	582	601	615	623	621	613	601	592	586	584	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	572	566	562	551	546	530	529	523	516	516	530	535	548	562	572	596	618	633	636	634	621	611	601	588	
FEBRUARY	573	564	561	558	554	550	548	542	538	532	525	539	538	539	544	568	604	632	641	637	618	597	585	571	
MARCH	575	578	565	560	544	548	538	548	540	546	573	571	564	562	581	602	625	640	658	671	645	655	629	592	
APRIL	577	547	560	537	537	514	528	534	547	571	597	584	583	584	586	592	608	621	617	610	580	588	600	579	
MAY	574	562	566	554	544	541	545	542	549	557	573	576	575	587	583	586	595	597	596	594	595	588	588	586	
JUNE	582	565	550	539	522	525	530	521	527	550	569	586	595	600	596	601	597	600	595	587	589	584	589	582	
JULY	541	571	555	533	492	500	520	521	534	549	585	601	600	620	610	604	604	600	603	600	600	599	587	575	
AUGUST	560	524	540	518	506	500	503	507	544	582	601	637	614	609	597	601	610	620	619	610	598	589	582	570	
SEPTEMBER	566	560	556	555	553	542	522	534	525	533	550	553	557	562	577	593	606	619	624	625	619	608	594	582	
OCTOBER	586	580	562	558	550	563	551	546	546	538	528	537	555	566	583	612	640	657	664	653	645	629	598	583	
NOVEMBER	574	544	543	540	528	532	530	508	512	524	548	565	581	574	623	640	650	656	658	646	624	605	589	580	
DECEMBER	580	573	561	556	552	554	534	550	523	529	535	547	569	597	622	632	647	654	659	640	619	608	602	593	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	575	573	571	569	565	558	551	536	532	528	528	535	541	554	573	604	629	642	642	632	618	601	589	578	
FEBRUARY	568	565	565	566	564	563	557	551	545	539	535	533	532	537	554	580	609	631	641	634	617	599	584	574	
MARCH	560	560	558	554	553	554	554	552	553	547	543	539	537	540	552	572	593	612	616	612	597	582	566	565	
APRIL	558	553	551	547	542	543	553	554	558	559	562	562	554	552	560	577	591	600	602	595	588	581	578	565	
MAY	559	544	541	547	544	543	550	545	553	554	561	563	563	562	568	577	583	583	581	577	573	572	566	565	
JUNE	560	554	553	550	551	548	546	548	552	556	562	566	568	570	571	574	577	577	574	569	565	566	564	564	
JULY	558	552	551	550	548	548	552	552	555	559	561	564	564	562	564	568	571	575	572	569	565	564	563	561	
AUGUST	561	553	544	542	540	538	542	545	549	554	557	556	558	558	561	569	577	580	580	575	568	566	566	566	
SEPTEMBER	561	555	553	541	541	547	545	546	547	552	551	550	546	546	552	568	582	592	597	594	585	574	565	563	
OCTOBER	558	550	550	548	544	543	543	543	545	545	547	546	543	546	553	567	586	601	610	607	595	582	572	565	
NOVEMBER	565	563	558	553	546	541	534	530	526	524	526	531	536	549	563	577	590	599	603	600	592	584	574	570	
DECEMBER	575	571	567	563	558	547	537	525	520	516	519	530	543	558	574	591	607	618	616	609	598	588	582	579	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	574	577	577	573	570	563	557	546	534	525	526	531	540	553	573	604	628	628	614	600	587	577	575	573	
FEBRUARY	568	572	572	573	569	562	557	553	543	536	530	530	530	535	547	573	603	627	633	622	606	588	580	576	
MARCH	565	564	564	561	560	557	555	555	551	551	547	539	533	533	543	561	579	599	594	594	584	574	570	565	
APRIL	568	566	564	560	557	557	556	555	557	555	555	552	550	548	553	567	579	588	584	581	577	572	574	577	
MAY	563	558	559	559	560	556	563	563	561	563	561	559	554	554	557	565	572	574	570	566	562	562	563	563	
JUNE	561	561	560	558	557	556	555	551	552	556	561	559	559	561	564	569	572	572	569	565	561	560	560	559	
JULY	561	559	560	560	559	558	559	560	561	561	561	561	559	554	558	564	569	570	569	566	562	560	561	562	
AUGUST	563	560	560	561	560	559	559	559	560	560	559	557	554	553	557	568	577	581	581	570	564	561	560	558	
SEPTEMBER	564	559	552	554	554	554	555	554	555	553	554	551	543	541	546	560	576	587	592	590	579	568	565	563	
OCTOBER	562	562	557	555	553	551	549	547	543	540	539	535	533	535	541	552	569	587	597	592	586	578	568	562	
NOVEMBER	562	562	561	560	556	549	544	537	532	529	526	528	532	540	553	565	575	585	591	589	582	576	569	563	
DECEMBER	571	568	567	563	560	551	541	530	521	512	513	521	530	549	565	579	594	607	606	597	588	581	579	576	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	576	569	564	560	550	538	538	514	524	536	532	549	554	572	584	622	649	667	675	668	658	637	607	578	
FEBRUARY	574	544	545	553	553	561	558	548	542	540	535	537	530	538	564	602	635	661	669	657	635	614	591	581	
MARCH	560	565	545	521	540	547	549	548	572	548	543	549	553	559	567	587	607	631	630	630	609	585	567	555	
APRIL	549	518	526	522	525	537	569	548	553	561	568	583	570	563	571	586	606	621	634	620	608	598	597	549	
MAY	576	522	498	540	522	507	531	486	515	523	560	576	578	583	597	609	603	605	602	590	583	589	558	562	
JUNE	552	540	532	530	530	533	532	529	530	543	560	583	595	604	590	588	589	592	589	581	566	578	572	573	
JULY	559	547	549	551	551	546	547	541	544	557	562	572	568	570	576	577	572	588	586	582	577	572	569	558	
AUGUST	565	538	508	504	511	520	536	535	546	560	565	557	561	565	565	572	583	589	590	585	571	567	568	565	
SEPTEMBER	566	561	527	517	519	528	519	524	528	539	539	557	562	561	566	588	603	609	612	608	594	582	572	574	
OCTOBER	559	539	529	519	513	507	518	537	547	553	565	584	576	567	563	581	595	607	615	612	599	589	573	560	
NOVEMBER	569	566	554	545	520	523	510	520	516	521	529	541	551	582	591	606	613	615	627	621	621	608	580	578	
DECEMBER	590	575	563	562	561	539	529	518	516	522	521	536	559	571	580	600	624	645	649	649	620	609	602	591	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1972   Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	579	574	564	561	558	553	543	530	522	516	520	527	545	561	576	598	616	620	616	604	588	579	577	579	
FEBRUARY	567	564	563	558	558	553	546	537	530	525	523	523	532	542	559	584	602	613	613	602	590	579	570	568	
MARCH	556	557	554	550	546	545	544	547	548	547	544	540	537	535	545	567	592	607	613	608	592	578	570	566	
APRIL	560	550	549	542	538	541	545	544	545	551	552	550	548	547	553	569	582	590	592	588	579	572	567	565	
MAY	556	553	547	545	544	546	547	548	554	552	554	571	553	552	554	564	574	579	576	571	569	567	566	562	
JUNE	555	541	538	544	545	541	537	541	541	548	556	563	566	565	570	572	576	577	575	568	564	563	561	560	
JULY	561	556	552	550	543	547	545	545	547	553	557	559	558	559	561	568	574	576	572	567	564	562	564	562	
AUGUST	558	550	548	540	540	533	533	545	554	561	565	564	559	556	562	574	583	589	593	588	578	563	559	564	
SEPTEMBER	561	557	552	545	536	533	541	548	550	550	548	546	540	535	544	561	581	597	607	607	596	584	577	567	
OCTOBER	557	556	552	549	544	538	532	529	531	535	536	533	534	540	552	572	592	608	614	613	600	585	574	562	
NOVEMBER	564	559	554	545	539	532	526	518	513	511	517	528	538	552	568	586	597	604	606	604	592	582	576	566	
DECEMBER	567	560	554	548	542	535	524	514	508	507	513	523	537	551	565	582	601	613	610	601	589	579	571	567	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	575	573	565	562	557	552	545	536	525	518	517	520	531	550	563	580	598	607	605	593	577	568	568	571	
FEBRUARY	565	565	564	561	559	554	551	546	540	529	525	521	525	529	545	567	587	602	609	603	592	583	571	571	
MARCH	558	560	559	558	558	556	554	550	551	550	547	539	531	526	534	554	578	597	603	600	589	575	567	563	
APRIL	554	557	555	553	550	550	550	550	549	548	548	543	537	532	539	555	571	578	580	575	569	564	561	561	
MAY	557	552	553	552	550	551	554	556	556	554	553	554	550	547	549	560	572	577	572	566	560	558	557	558	
JUNE	557	553	553	552	550	546	545	549	553	553	555	553	552	551	552	558	566	570	566	561	556	554	554	554	
JULY	558	557	555	553	550	549	551	553	555	555	556	557	556	554	555	561	568	570	568	563	560	559	557	559	
AUGUST	562	560	560	558	556	554	554	554	554	557	555	553	548	545	550	563	577	587	587	582	571	564	563	562	
SEPTEMBER	563	555	555	553	549	548	546	546	546	546	545	542	531	527	534	553	574	588	599	595	584	572	566	565	
OCTOBER	560	560	558	557	554	549	547	546	544	541	540	534	526	525	532	548	571	591	601	598	584	571	563	559	
NOVEMBER	563	563	562	559	554	546	539	532	525	520	522	527	535	543	555	570	584	596	597	589	578	573	572	566	
DECEMBER	564	559	558	554	549	542	533	521	512	508	509	520	533	544	558	574	588	596	595	586	575	566	563	564	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	581	580	567	558	557	555	546	529	520	514	540	550	561	574	587	614	634	630	627	626	603	591	592	590	
FEBRUARY	568	563	559	554	552	552	545	527	516	520	527	528	543	545	565	609	629	643	643	622	603	582	570	565	
MARCH	551	549	538	518	518	512	518	543	550	543	544	550	566	558	564	586	610	622	622	617	582	578	570	561	
APRIL	559	531	535	522	503	510	540	514	521	549	562	569	574	572	572	588	597	604	601	603	593	580	579	574	
MAY	558	551	540	543	550	546	546	548	561	557	557	558	556	556	559	569	582	583	578	575	586	584	582	576	
JUNE	531	477	487	533	537	519	481	501	493	523	560	579	596	595	617	603	593	593	597	583	578	580	565	555	
JULY	568	561	556	544	533	546	530	523	527	549	559	565	563	572	581	589	589	590	587	581	578	574	586	577	
AUGUST	540	515	519	494	499	483	468	519	546	579	587	587	583	587	593	607	599	597	601	598	578	523	517	567	
SEPTEMBER	571	557	541	528	483	490	524	538	562	557	560	562	560	545	561	576	596	618	630	638	626	615	611	568	
OCTOBER	544	539	542	541	536	533	528	522	524	541	541	540	543	550	572	594	607	612	623	632	621	594	580	577	
NOVEMBER	572	566	545	498	488	478	479	468	479	488	518	542	548	575	589	605	607	615	620	625	605	589	584	557	
DECEMBER	574	562	545	534	533	526	511	500	508	519	533	547	555	562	580	598	617	641	638	624	615	607	590	583	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1973   Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	563	556	557	552	542	538	532	529	522	517	520	528	540	557	570	587	605	614	612	601	594	584	577	574	
FEBRUARY	559	557	548	551	548	543	540	536	534	531	533	532	533	540	555	579	603	625	632	627	609	589	575	562	
MARCH	549	554	548	548	546	545	552	548	546	552	551	547	547	552	562	578	598	615	615	605	594	572	557	549	
APRIL	547	540	530	530	526	527	536	545	547	564	566	569	564	566	573	582	593	599	602	589	578	569	563	556	
MAY	541	540	536	534	540	542	545	548	554	567	571	569	563	562	566	571	576	577	573	569	558	562	557	544	
JUNE	550	545	543	537	533	540	546	546	549	554	559	563	566	567	570	573	574	572	569	565	563	557	555	552	
JULY	548	544	548	547	539	539	542	544	547	550	555	558	562	561	563	568	571	570	566	559	556	557	559	552	
AUGUST	550	548	545	542	539	542	541	543	546	553	555	557	557	556	558	566	573	577	578	573	563	560	555	555	
SEPTEMBER	558	550	547	543	541	542	544	542	548	551	553	552	553	552	555	567	584	597	604	599	586	575	561	560	
OCTOBER	551	546	544	534	537	536	532	534	539	539	539	539	544	547	556	572	589	604	613	607	593	581	568	558	
NOVEMBER	560	556	551	548	546	539	534	530	522	518	518	526	537	550	563	576	588	597	604	600	592	583	574	568	
DECEMBER	565	558	554	549	540	534	526	517	513	511	515	522	538	553	564	576	592	602	606	600	591	584	575	570	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	570	565	565	562	556	549	540	531	524	514	512	522	534	553	573	585	594	596	590	578	570	567	568	573	
FEBRUARY	559	561	554	552	553	551	545	534	529	523	522	525	529	533	547	569	591	614	621	616	599	581	569	564	
MARCH	556	560	559	558	556	551	547	546	543	542	537	530	525	527	539	561	584	600	604	596	582	569	563	562	
APRIL	565	563	560	558	556	552	549	542	546	550	548	542	536	536	547	564	582	592	593	582	569	564	563	565	
MAY	557	555	552	552	552	551	552	555	554	555	555	553	552	553	557	563	568	569	564	558	556	554	554	556	
JUNE	557	554	555	554	554	552	552	552	553	554	557	557	556	555	556	561	565	567	562	559	556	555	555	556	
JULY	558	547	553	555	555	554	551	552	553	554	555	554	556	555	556	560	564	565	562	557	555	555	555	557	
AUGUST	557	556	554	554	549	549	551	553	554	556	553	552	550	551	551	558	567	573	571	564	557	555	556	556	
SEPTEMBER	557	555	553	552	548	548	546	547	550	549	548	537	531	534	544	561	580	597	601	593	577	566	561	560	
OCTOBER	555	552	546	546	548	548	546	541	533	529	529	529	527	532	538	554	575	592	600	595	584	571	565	564	
NOVEMBER	562	561	558	554	550	544	537	531	523	521	520	525	536	548	558	571	581	591	594	591	583	576	571	570	
DECEMBER	567	563	559	553	546	535	523	514	510	507	510	517	532	545	559	573	586	593	591	582	576	572	570	569	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	547	531	539	537	525	519	521	522	522	521	526	536	555	573	574	595	614	630	628	608	603	591	572	578	
FEBRUARY	556	552	528	544	550	549	558	557	558	557	559	563	561	561	571	589	620	657	662	668	644	614	592	546	
MARCH	549	542	528	529	529	534	564	560	539	584	594	584	580	598	596	607	629	642	628	603	605	527	525	511	
APRIL	555	506	491	497	485	499	532	544	562	577	577	588	580	594	600	608	619	627	645	630	610	589	589	574	
MAY	502	505	499	486	507	537	558	536	559	606	627	616	599	598	599	593	590	586	581	578	534	564	554	507	
JUNE	534	534	513	503	483	524	548	553	555	562	564	571	581	584	593	594	594	585	583	580	575	553	545	546	
JULY	521	540	549	537	513	525	543	542	536	534	557	556	571	570	580	584	584	580	572	561	556	567	568	529	
AUGUST	555	540	517	506	492	511	530	537	562	565	567	570	573	571	573	585	591	592	600	594	573	571	546	547	
SEPTEMBER	553	550	539	543	533	533	541	537	552	550	556	566	595	585	575	579	597	614	635	631	610	585	551	536	
OCTOBER	557	535	530	519	521	509	482	500	534	539	539	545	574	576	583	591	608	619	643	627	610	603	569	557	
NOVEMBER	564	548	533	527	538	529	526	525	510	509	511	528	540	554	576	594	604	609	624	629	618	603	591	575	
DECEMBER	564	558	553	542	533	518	516	505	508	520	520	528	553	571	590	601	618	629	632	630	618	605	581	570	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1974

Declination East (1/10 mins)

Tabular Baseline= 960 minutes

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	563	562	554	550	546	539	532	527	519	514	515	521	535	553	570	587	602	609	606	595	585	577	573	566		
FEBRUARY	555	553	554	551	549	542	537	537	534	525	526	534	541	551	567	583	596	601	597	589	578	570	560	555		
MARCH	542	545	542	544	541	543	543	548	549	551	553	548	551	556	564	581	598	606	607	599	585	564	555	544		
APRIL	543	530	534	530	529	534	540	549	552	556	553	555	558	563	566	575	582	587	586	577	566	560	554	554		
MAY	545	541	536	534	536	539	544	549	550	562	561	563	565	568	572	574	579	580	577	568	561	558	558	549		
JUNE	538	539	534	535	529	531	535	540	543	554	558	560	563	564	566	569	569	567	564	560	555	552	553	545		
JULY	550	542	537	530	533	538	531	542	548	553	567	569	571	578	577	579	579	577	572	567	561	559	557	561		
AUGUST	532	532	537	532	532	532	539	549	550	556	561	564	562	559	563	574	584	587	582	578	566	559	561	551		
SEPTEMBER	542	535	538	541	530	535	537	542	550	559	559	556	555	555	557	572	586	597	601	596	585	571	564	553		
OCTOBER	546	540	536	538	537	528	524	527	533	535	545	550	553	559	572	583	601	614	615	613	598	582	564	551		
NOVEMBER	561	559	553	545	538	531	528	523	521	523	531	537	546	555	565	582	594	602	606	601	594	582	571	568		
DECEMBER	566	558	553	547	537	529	523	519	513	513	515	529	548	562	577	593	607	615	611	604	589	582	576	572		1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	562	560	556	552	549	542	535	529	522	513	509	514	529	547	566	583	596	595	589	580	574	571	572	568	
FEBRUARY	558	561	568	560	555	551	545	543	537	528	523	527	534	546	561	579	604	595	587	574	568	565	562	563	
MARCH	565	560	561	560	547	543	544	546	549	549	544	538	533	537	548	566	588	595	595	590	579	571	569	570	
APRIL	554	552	551	549	547	547	546	545	546	546	544	539	533	531	538	555	569	576	575	568	561	559	557	553	
MAY	552	548	550	552	551	546	546	546	547	546	547	547	547	545	554	558	568	572	568	562	558	555	554	553	
JUNE	550	549	548	545	537	534	534	537	543	542	545	549	551	551	553	558	562	563	561	554	552	551	552	554	
JULY	558	556	551	542	545	545	545	553	541	546	556	558	558	559	562	566	569	571	568	564	561	560	560	560	
AUGUST	554	552	552	549	544	539	551	548	552	557	553	553	550	546	551	561	569	574	571	564	559	558	559	558	
SEPTEMBER	551	550	553	554	551	552	550	552	554	555	553	548	543	539	547	564	577	589	594	592	578	570	565	562	
OCTOBER	554	553	550	550	547	548	547	541	535	534	536	536	533	537	546	564	586	599	603	598	588	575	562	560	
NOVEMBER	564	559	555	549	547	542	537	528	521	518	519	524	528	536	548	568	587	598	598	592	583	576	571	571	
DECEMBER	565	563	559	553	548	541	529	518	510	506	508	514	529	543	567	588	602	608	607	596	584	580	582	580	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	556	562	547	546	545	544	535	520	513	517	528	526	539	561	581	597	617	623	620	610	597	581	568	561		
FEBRUARY	543	541	549	552	552	536	527	530	536	531	537	552	557	556	582	607	609	611	612	603	573	568	549	539		
MARCH	543	533	526	533	534	540	544	555	555	562	588	567	568	559	570	593	615	622	641	625	603	554	520	521		
APRIL	549	511	524	504	492	500	516	557	550	564	564	571	576	579	590	601	602	605	607	594	583	570	554	556		
MAY	543	539	513	521	511	524	546	558	547	572	573	572	585	597	598	587	594	589	587	568	564	565	553	531		
JUNE	520	513	507	514	493	500	506	528	528	570	572	570	584	581	573	576	572	570	570	566	563	540	555	526		
JULY	542	539	526	505	501	504	469	507	520	532	582	591	601	636	624	618	606	597	588	579	559	551	567	577		
AUGUST	507	514	524	512	542	529	519	546	544	559	565	574	576	572	580	596	603	595	594	583	553	561	556	536		
SEPTEMBER	535	506	514	523	495	510	508	522	551	567	572	571	593	588	565	594	606	623	629	624	619	591	582	573		
OCTOBER	526	508	506	527	526	505	482	495	512	545	582	592	600	603	606	611	636	643	637	629	616	606	572	544		
NOVEMBER	562	566	561	527	509	497	499	501	520	540	545	555	564	587	602	606	618	617	634	620	615	597	569	575		1
DECEMBER	568	554	554	554	536	513	513	519	509	520	521	544	565	574	594	606	618	624	627	619	606	589	576	564		

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1975

Declination East (1/10 mins)

Tabular Baseline= 960 minutes

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	565	556	552	548	544	536	531	527	521	517	519	525	537	546	563	583	601	611	609	599	592	578	570	569	
FEBRUARY	548	547	539	543	541	535	527	528	530	526	528	533	540	546	559	574	591	604	607	594	578	563	557	552	
MARCH	546	547	540	540	540	540	543	541	543	547	541	542	544	550	559	575	595	601	599	588	577	562	547	535	
APRIL	542	527	534	530	532	536	541	544	545	549	549	548	544	542	550	563	573	579	576	568	562	557	543	545	
MAY	537	538	526	523	524	527	530	536	536	539	548	551	552	553	555	560	563	563	559	555	553	550	550	544	
JUNE	534	535	534	532	536	537	539	539	543	541	545	548	551	553	554	558	561	559	555	550	547	544	544	546	
JULY	546	537	537	535	533	531	534	535	541	546	547	554	556	558	562	563	565	565	560	556	552	551	548	549	
AUGUST	544	540	539	531	519	521	530	535	540	546	548	549	550	547	551	561	568	572	572	566	560	556	553	548	
SEPTEMBER	541	540	533	530	528	531	532	535	537	536	536	533	534	536	545	558	571	579	581	574	566	558	555	551	
OCTOBER	546	541	537	532	527	527	527	524	523	524	528	530	530	534	543	556	572	588	595	589	579	565	555	551	
NOVEMBER	553	546	541	540	532	528	521	515	510	512	522	532	542	552	558	572	588	600	605	601	586	576	571	557	
DECEMBER	552	548	543	539	531	525	516	507	505	504	507	519	532	544	558	573	583	589	588	583	572	567	562	558	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	559	557	554	551	550	546	538	533	527	518	515	518	524	533	555	579	601	607	599	589	576	564	563	563	
FEBRUARY	559	559	551	549	544	533	526	526	528	521	517	518	523	532	546	562	577	588	589	581	570	563	562	560	
MARCH	551	553	554	550	548	547	545	546	545	542	539	532	529	531	541	555	572	581	583	575	565	556	551	550	
APRIL	546	542	542	540	539	538	540	541	542	542	539	535	534	534	541	552	560	565	560	553	549	548	547	546	
MAY	550	548	545	543	544	544	546	546	546	546	546	545	544	542	545	551	557	556	552	546	544	544	546	546	
JUNE	547	545	543	542	541	539	539	542	544	546	545	545	546	546	548	553	554	553	549	544	543	543	544	546	
JULY	545	543	539	541	543	544	546	549	546	552	553	553	550	550	551	561	563	563	557	551	547	544	541	540	
AUGUST	546	545	546	546	540	539	538	540	542	545	548	541	542	543	547	556	565	570	569	564	556	552	549	546	
SEPTEMBER	546	544	543	540	540	539	540	540	540	539	536	532	529	532	539	551	568	578	580	572.559	551	547	544		
OCTOBER	551	546	543	542	538	534	531	527	524	526	526	525	525	526	532	545	563	579	585	580	569	558	553	550	
NOVEMBER	552	555	554	548	540	538	533	527	519	517	523	533	540	546	553	560	568	579	583	580	574	568	564	557	
DECEMBER	551	547	545	542	537	529	519	511	505	503	503	513	524	537	551	565	574	581	590	574	567	562	558	557	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	563	535	535	537	537	517	521	527	514	510	515	528	545	554	580	604	621	630	640	616	607	593	581	576	
FEBRUARY	547	530	529	528	524	529	523	524	532	531	545	556	573	581	576	591	609	625	646	604	582	540	533	535	
MARCH	531	530	506	525	531	540	541	541	554	558	547	564	568	583	586	607	634	631	621	601	594	554	533	486	
APRIL	535	494	512	494	506	518	549	555	554	571	580	577	568	562	567	578	590	594	588.578	564	549	508	535		
MAY	512	522	518	503	502	521	533	541	516	519	549	558	569	567	565	571	571	567	565	557	556	545	539	543	
JUNE	499	521	526	526	514	524	540	536	546	538	547	556	554	561	560	563	572	565	557	557	553	540	532	556	
JULY	551	526	529	519	507	481	484	492	518	538	537	562	566	578	595	582	578	573	573	571	563	557	541	551	
AUGUST	538	533	534	516	492	483	511	526	522	541	545	553	566	562	563	573	579	582	582	573	567	553	550	552	
SEPTEMBER	523	527	521	500	499	518	525	533	531	533	539	537	546	546	568	573	579	584	588	577	571	563	560	547	
OCTOBER	543	535	532	522	496	505	513	507	522	520	539	549	553	554	566	581	590	606	617	613	597	563	540	545	
NOVEMBER	555	546	508	519	503	496	504	493	500	520	538	555	562	585	581	595	625	637	644	638	606	594	585	561	
DECEMBER	554	548	539	537	516	508	501	482	490	504	518	535	550	560	574	599	612	618	609	606	581	586	569	557	

Note:-The last column shows the number of days excluded
from the calculation of the means, days are excluded
if they contain missing hourly values.

ARGENTINE ISLANDS Declination East (1/10 mins)

1976 Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	554	551	547	541	534	525	517	512	507	502	504	510	524	543	558	575	592	595	588	583	576	570	564	562	
FEBRUARY	544	539	537	534	530	528	526	521	518	511	511	520	530	539	554	569	581	587	586	576	564	554	551	541	
MARCH	533	525	526	523	519	519	523	527	526	530	530	530	531	541	550	563	575	584	584	575	565	553	536	532	
APRIL	533	522	515	515	517	512	513	525	533	545	550	548	544	543	553	560	566	568	566	557	553	547	536	536	
MAY	521	523	511	514	518	521	523	532	532	533	544	547	547	543	543	547	551	553	551	547	546	541	535	528	
JUNE	528	526	520	518	513	515	519	521	522	526	534	534	536	537	538	541	543	542	538	535	534	534	536	531	
JULY	531	524	521	521	523	519	520	522	524	527	529	537	538	537	536	541	545	544	540	536	534	533	533	532	
AUGUST	528	526	524	518	520	519	521	519	523	525	526	532	529	528	532	541	547	551	550	544	538	536	533	531	
SEPTEMBER	524	518	520	508	505	508	506	510	519	523	526	522	520	522	526	536	548	559	566	562	552	543	538	531	
OCTOBER	527	521	517	513	508	500	502	504	505	506	511	508	506	514	523	538	556	569	572	566	557	547	539	530	
NOVEMBER	533	527	525	518	513	506	501	493	486	486	490	503	514	523	534	548	559	563	560	553	550	544	543	540	
DECEMBER	540	531	523	518	512	504	496	487	481	481	486	493	509	526	541	561	576	578	573	563	555	548	545	544	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	551	549	546	540	534	526	520	512	505	495	496	504	523	540	553	564	573	581	578	569	562	555	554	552	
FEBRUARY	544	544	544	539	537	533	527	521	516	509	507	511	519	526	538	554	567	572	570	556	547	545	544	547	
MARCH	540	537	536	537	535	535	532	534	529	529	524	516	511	515	526	540	555	565	568	562	553	547	539	537	
APRIL	541	539	536	533	534	531	532	531	531	531	533	532	527	527	536	548	556	559	557	550	544	541	539	538	
MAY	537	533	531	527	531	532	533	534	534	533	533	534	533	531	534	540	546	547	545	541	537	537	535	534	
JUNE	531	531	528	525	521	524	524	523	529	530	531	533	533	532	533	538	542	543	540	534	531	531	530	529	
JULY	529	527	526	526	526	529	526	527	529	529	531	533	533	530	529	534	539	541	536	530	527	529	531	531	
AUGUST	529	528	529	524	525	524	524	525	526	528	528	528	526	524	528	534	541	544	544	539	534	532	533	534	
SEPTEMBER	529	530	523	522	523	518	519	518	519	522	520	515	515	516	520	533	546	555	560	556	546	536	532	532	
OCTOBER	525	522	520	519	513	506	505	502	500	496	498	500	505	505	513	533	554	563	562	556	549	543	537	533	
NOVEMBER	533	530	528	524	519	513	507	498	488	486	489	501	513	520	529	540	550	554	552	546	538	536	538	537	
DECEMBER	537	533	527	522	514	510	503	494	483	482	486	494	506	519	529	544	558	565	566	559	554	551	547	546	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	553	544	555	541	533	514	508	507	502	496	503	509	518	550	578	593	609	613	611	618	610	605	585	580	
FEBRUARY	541	520	519	522	518	514	510	503	511	508	508	529	535	548	560	581	597	596	597	589	560	543	560	498	
MARCH	532	519	523	510	474	473	484	481	502	527	542	551	565	600	595	594	604	615	618	608	583	557	525	501	
APRIL	529	481	467	477	474	464	458	492	517	580	599	593	588	586	610	606	599	599	597	574	572	557	522	514	
MAY	502	499	450	482	479	490	489	531	556	532	570	594	591	575	562	558	564	564	564	556	565	551	521	488	
JUNE	527	511	491	496	491	482	494	505	494	503	544	544	554	557	557	556	554	552	544	541	541	541	542	540	
JULY	540	517	501	508	527	499	504	519	525	531	533	554	556	550	543	542	547	546	543	542	544	533	533	527	
AUGUST	519	517	528	510	516	516	519	513	518	518	521	542	526	528	541	563	560	563	559	553	549	550	533	517	
SEPTEMBER	510	500	515	482	480	481	473	482	503	521	545	542	543	548	548	550	561	570	584	583	571	542	544	529	
OCTOBER	521	519	512	505	506	472	471	489	496	512	529	522	521	550	552	559	569	575	584	578	558	544	534	518	
NOVEMBER	529	517	515	517	507	495	487	482	478	485	488	507	524	537	544	557	573	584	585	574	574	554	541	536	
DECEMBER	547	508	482	498	496	488	483	476	484	490	501	518	539	548	554	574	592	594	589	576	566	555	546	543	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS Declination East (1/10 mins)

1977 Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	532	524	519	517	513	506	501	493	487	486	487	491	500	511	529	548	567	579	580	574	569	559	551	543	
FEBRUARY	529	524	522	520	511	511	511	505	500	497	496	497	497	506	522	538	556	571	577	573	559	547	536	531	
MARCH	521	511	513	511	510	510	511	513	512	511	506	503	502	506	514	532	551	565	566	560	550	539	530	529	
APRIL	512	510	507	507	501	503	510	512	526	525	530	526	522	518	526	541	553	557	555	550	541	530	524	517	
MAY	522	516	511	509	514	510	511	516	519	519	523	528	528	528	531	536	542	545	542	536	534	534	533	530	
JUNE	521	516	517	514	509	509	510	514	516	520	524	525	528	526	527	532	536	536	532	527	525	525	526	523	
JULY	517	515	515	513	509	501	499	503	509	519	523	529	535	536	538	541	543	545	540	535	531	530	530	525	
AUGUST	521	516	515	511	503	508	509	512	509	516	526	527	531	528	533	541	547	551	552	547	539	535	534	525	
SEPTEMBER	523	514	508	500	494	502	509	517	518	518	521	517	512	514	522	537	552	563	571	566	555	543	536	530	
OCTOBER	529	524	517	513	509	506	504	501	502	502	507	503	506	508	520	538	558	574	579	572	563	551	542	532	
NOVEMBER	531	527	524	517	509	502	499	489	484	483	489	498	507	517	532	548	561	569	571	568	562	555	549	543	
DECEMBER	536	528	521	515	508	496	491	485	483	480	478	485	495	509	526	545	565	579	580	573	561	551	543	541	1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	534	527	524	522	519	514	508	499	493	488	485	489	496	503	517	537	560	577	574	566	557	547	541	537	
FEBRUARY	528	527	522	522	519	516	509	503	497	495	493	493	491	496	512	528	549	564	566	560	549	539	534	533	
MARCH	525	524	522	518	516	510	507	507	504	500	500	498	492	493	505	526	542	553	554	546	536	527	526	528	
APRIL	526	523	520	521	516	514	513	511	513	515	516	512	507	508	517	533	545	549	545	536	530	526	525	527	
MAY	523	522	522	520	522	522	521	522	524	524	525	523	522	521	523	530	537	537	532	525	523	522	523	524	
JUNE	520	522	517	518	515	517	520	523	524	527	527	525	524	525	525	531	536	533	529	525	522	520	522	528	
JULY	522	521	523	521	521	519	521	524	525	527	527	527	526	524	525	531	536	539	537	530	525	526	526	527	
AUGUST	530	528	523	522	521	519	520	516	513	515	516	519	519	520	523	530	538	542	543	542	537	533	533	528	
SEPTEMBER	523	523	522	520	517	516	514	513	514	514	511	507	504	506	511	524	537	549	553	549	539	531	527	526	
OCTOBER	525	525	522	519	517	513	512	509	508	507	505	499	495	496	507	525	544	560	567	560	547	535	531	529	
NOVEMBER	539	534	527	520	513	506	498	491	485	481	479	494	505	516	533	547	557	562	560	559	556	552	548	544	
DECEMBER	535	531	524	522	516	509	502	494	484	479	480	490	502	513	525	541	559	572	570	557	541	534	533	536	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	535	520	511	510	515	507	499	477	475	490	503	510	530	536	543	560	581	589	589	588	587	579	566	556	
FEBRUARY	538	519	516	516	485	499	500	490	489	491	493	503	505	506	528	546	563	577	588	589	575	559	542	529	
MARCH	510	483	503	491	504	512	521	530	524	524	512	504	518	524	526	549	574	589	581	571	557	537	513	519	
APRIL	470	489	500	496	464	477	515	483	539	544	554	553	555	536	535	554	569	572	571	571	552	526	507	485	
MAY	507	496	487	478	504	482	486	503	517	506	526	548	540	543	552	551	553	568	565	555	550	551	544	540	
JUNE	522	499	508	512	507	510	511	507	503	514	525	523	533	531	530	536	539	541	538	535	533	532	530	520	
JULY	510	512	515	503	504	475	455	454	471	500	511	517	557	554	557	549	549	553	546	541	543	538	529	527	
AUGUST	520	496	490	498	488	509	492	500	485	496	539	537	546	537	547	559	560	562	559	553	542	540	536	521	
SEPTEMBER	502	502	496	482	472	489	510	521	523	531	543	532	524	538	546	560	577	587	598	596	580	553	542	521	
OCTOBER	531	524	503	482	471	484	488	472	494	501	524	514	538	536	553	574	589	606	609	592	590	570	562	520	
NOVEMBER	513	522	515	502	489	485	486	474	474	483	509	518	533	541	563	576	584	596	591	585	579	570	560	544	
DECEMBER	545	528	504	486	474	438	437	440	464	474	480	494	504	526	540	563	582	606	618	617	599	580	562	556	1

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1978   Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	536	529	520	513	509	505	497	484	479	484	491	503	517	532	551	572	579	578	570	562	553	546	541		
FEBRUARY	525	523	520	515	511	506	502	496	490	485	490	494	492	504	519	542	568	586	591	582	570	556	542	532	
MARCH	522	516	509	500	505	502	503	505	507	506	501	493	491	499	514	535	554	568	576	574	563	548	537	524	
APRIL	513	506	493	489	489	489	495	505	513	513	511	510	510	507	512	527	547	556	559	556	545	534	533	525	
MAY	517	511	505	498	486	489	489	491	505	516	529	528	531	537	527	531	540	545	544	540	533	528	522	519	
JUNE	512	503	499	491	485	486	483	490	501	503	509	517	518	516	519	524	529	532	528	524	518	517	517	518	
JULY	507	500	502	499	492	488	489	492	497	498	502	503	507	508	512	521	529	528	526	520	515	514	518	512	
AUGUST	505	500	497	491	485	479	475	497	496	503	508	516	509	511	515	519	530	537	541	535	526	520	517	514	
SEPTEMBER	514	510	505	496	490	488	488	491	496	503	504	505	502	497	506	526	548	565	570	565	551	533	523	517	
OCTOBER	510	509	508	504	498	488	478	478	479	479	477	476	479	486	504	526	553	574	579	572	554	537	522	517	
NOVEMBER	516	512	509	505	498	488	479	465	458	463	464	470	482	499	518	538	559	575	579	572	558	539	527	519	
DECEMBER	514	513	506	497	491	482	469	454	446	444	444	457	478	501	521	544	562	573	571	561	545	528	519	516	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	528	524	522	519	514	508	502	496	485	477	474	481	494	505	521	540	557	565	561	553	544	537	535	534	
FEBRUARY	527	525	523	520	514	508	499	493	483	481	490	477	477	481	499	526	551	570	573	562	550	539	532	530	
MARCH	527	525	522	517	514	511	507	505	502	499	492	484	478	482	500	522	545	561	563	552	541	533	532	528	
APRIL	516	515	517	515	514	509	514	514	511	512	506	501	495	497	505	521	538	548	553	549	540	530	527	523	
MAY	520	516	515	510	506	507	514	512	515	514	516	512	510	506	509	518	532	539	536	530	523	519	519	515	
JUNE	513	509	509	503	497	488	493	501	506	505	505	505	508	507	510	516	519	523	517	512	509	509	508	511	
JULY	506	504	503	503	502	503	503	503	503	503	506	503	502	500	504	513	522	524	521	512	507	505	505	504	
AUGUST	508	508	507	503	500	499	502	504	507	503	504	501	500	496	497	505	519	529	533	527	515	511	510	511	
SEPTEMBER	509	505	500	502	504	502	500	498	497	495	493	486	478	477	489	509	530	548	555	548	534	519	516	511	
OCTOBER	510	506	502	502	502	497	496	493	488	483	475	470	467	471	484	507	543	569	569	563	544	524	515	513	
NOVEMBER	514	509	507	500	494	486	477	471	461	454	450	455	471	490	508	529	548	569	557	550	541	529	520	517	
DECEMBER	512	508	504	500	495	488	476	461	447	442	444	455	472	495	515	531	544	550	549	542	529	516	508	508	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	539	523	500	496	492	495	492	466	472	490	516	522	534	559	572	576	596	600	601	582	578	575	558	546	
FEBRUARY	545	532	518	517	498	480	474	474	478	476	504	511	489	527	533	559	590	605	614	598	590	557	536	529	
MARCH	518	504	494	468	503	482	496	498	505	513	508	496	492	502	527	563	573	589	606	616	593	568	543	515	
APRIL	506	492	477	458	443	437	449	483	506	519	518	520	538	531	528	530	564	573	570	568	555	539	546	515	
MAY	521	508	481	476	461	455	417	425	471	501	576	574	604	648	581	568	575	577	579	566	548	534	511	524	
JUNE	536	506	493	471	458	466	421	442	490	500	519	524	524	521	526	541	546	548	546	548	532	528	538	524	
JULY	484	489	500	491	467	427	431	446	465	473	485	495	518	527	538	546	557	541	535	536	528	531	540	519	
AUGUST	515	483	471	469	456	423	410	505	483	529	546	567	543	575	575	557	565	567	573	568	557	539	528	523	
SEPTEMBER	513	515	507	488	471	470	461	450	472	505	520	559	567	545	546	562	593	605	596	592	582	538	527	519	
OCTOBER	508	507	506	503	492	474	429	439	460	474	493	495	504	512	537	555	582	590	591	588	568	547	531	520	
NOVEMBER	525	506	503	509	492	464	463	425	421	446	465	490	505	522	546	571	595	607	610	601	580	556	544	528	
DECEMBER	517	519	504	484	490	478	456	436	434	448	444	447	498	528	537	566	584	587	587	583	560	537	522	518	

Note:-The last column shows the number of days excluded
    from the calculation of the means because the
    days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1979   Tabular Baseline= 960 minutes

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	520	521	518	512	510	502	492	478	463	454	453	464	483	502	523	550	580	593	587	572	555	538	526	521	
FEBRUARY	519	512	512	508	507	500	494	485	479	476	473	473	470	479	500	528	563	583	590	582	565	544	529	525	
MARCH	516	503	499	500	504	499	500	496	494	499	496	490	480	479	491	518	550	580	593	590	575	552	538	526	
APRIL	509	497	483	486	488	485	490	501	504	508	510	514	504	493	501	517	540	557	564	559	547	535	531	524	
MAY	506	499	492	487	489	485	486	492	497	503	508	505	503	500	504	515	526	535	537	532	526	523	520	512	
JUNE	509	503	499	492	492	486	487	492	498	503	505	505	506	505	503	517	524	527	524	519	515	513	514	511	
JULY	508	501	494	492	489	488	493	498	498	500	506	505	504	503	510	518	525	527	526	520	515	510	514	511	
AUGUST	507	503	498	492	489	486	489	495	497	501	505	504	505	501	502	515	532	544	548	542	534	528	524	518	
SEPTEMBER	516	506	493	488	491	491	490	493	493	495	494	487	479	480	495	516	544	564	573	570	555	538	530	522	
OCTOBER	515	511	505	502	498	494	489	487	479	475	474	470	467	477	493	518	547	569	581	579	564	546	531	522	
NOVEMBER	515	512	504	500	495	481	470	458	450	449	451	459	469	482	502	528	554	573	579	574	562	544	531	523	
DECEMBER	511	509	506	500	489	475	461	443	443	437	444	453	463	489	511	535	559	575	578	573	558	540	525	517	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	518	520	515	511	506	498	489	477	462	449	447	451	470	492	514	545	578	593	580	562	539	521	508	509	
FEBRUARY	525	519	516	510	505	498	496	489	480	469	460	456	460	468	487	517	551	578	583	570	552	535	523	516	
MARCH	519	516	513	510	507	502	504	504	500	502	490	471	456	454	465	494	532	568	588	584	567	541	525	521	
APRIL	514	508	510	506	502	503	505	506	502	502	500	496	485	475	482	503	526	545	550	547	533	524	524	518	
MAY	511	507	495	493	501	502	501	500	499	501	502	500	496	492	497	511	522	531	532	528	519	514	513	512	
JUNE	507	506	506	505	497	500	503	503	506	505	504	502	499	495	497	505	516	521	518	511	508	508	508	510	
JULY	510	509	496	493	495	499	500	497	499	499	502	502	499	497	502	514	526	530	528	519	512	508	508	510	
AUGUST	511	512	509	505	498	500	502	502	499	502	501	498	493	490	493	509	528	539	540	534	522	514	515	514	
SEPTEMBER	518	509	504	498	507	505	505	506	505	499	499	490	480	478	489	509	531	551	559	553	544	532	526	524	
OCTOBER	516	514	512	512	508	498	490	485	479	468	464	460	459	469	483	508	531	551	566	568	556	539	527	520	
NOVEMBER	512	511	509	506	500	492	481	472	459	450	450	457	464	471	488	515	539	560	570	564	551	538	528	522	
DECEMBER	512	509	506	501	489	479	469	460	445	441	440	446	455	472	494	517	538	559	569	568	557	538	525	519	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	526	518	518	504	508	507	492	477	460	459	461	477	497	500	533	562	591	607	611	594	568	549	538	532	
FEBRUARY	514	507	515	516	516	500	500	481	471	482	483	488	476	488	516	538	572	585	595	599	577	551	529	540	
MARCH	501	496	477	496	491	497	490	475	489	509	525	543	523	509	512	549	572	601	605	604	598	584	568	544	
APRIL	492	475	441	475	453	422	440	493	497	516	532	579	560	509	519	527	553	565	574	565	558	532	538	523	
MAY	494	479	468	455	456	460	448	481	505	513	534	530	533	535	522	526	534	542	544	534	527	525	511	490	
JUNE	509	492	491	475	485	456	462	470	493	508	507	503	510	512	524	529	535	537	536	530	522	524	518	503	
JULY	516	504	494	497	486	494	491	495	493	495	502	506	508	507	524	530	533	532	533	526	519	514	521	510	
AUGUST	505	492	459	473	468	451	452	476	483	491	516	516	544	528	517	524	549	561	576	558	559	557	548	517	
SEPTEMBER	523	500	478	486	486	495	485	478	477	490	500	501	495	507	527	543	572	581	591	587	568	549	537	529	
OCTOBER	517	513	486	480	481	484	484	492	479	481	500	492	487	497	516	535	553	571	591	595	584	567	536	527	
NOVEMBER	513	510	509	502	498	473	460	442	439	443	456	469	490	497	517	542	569	588	592	584	574	550	530	520	
DECEMBER	510	512	503	499	486	464	443	437	443	444	462	474	484	512	529	553	578	587	583	578	560	554	537	526	

Note:-The last column shows the number of days excluded
    from the calculation of the means because the
    days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1980   Tabular Baseline=   960 minutes

no of days excluded

All-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   510 507 505 500 495 488   478 464 450 439 434 442   464 488 512 539 564 577   575 559 543 526 511 508
FEBRUARY  507 506 502 499 494 490   484 474 460 453 447 446   454 471 494 524 550 566   568 558 541 523 514 508
MARCH     504 501 497 491 487 482   478 477 477 477 469 457   453 460 476 502 529 548   555 548 535 522 514 511
APRIL     498 492 490 484 482 481   484 486 488 488 491 483   473 469 477 499 523 538   544 539 527 520 511 503
MAY       504 499 494 489 486 488   491 491 491 489 493 495   492 488 491 505 518 526   529 524 517 512 508 508
JUNE      500 493 492 490 489 484   484 489 490 494 503 506   507 503 506 512 520 524   524 520 513 509 503 500
JULY      502 499 497 487 486 491   494 496 498 499 498 499   497 493 496 506 516 522   523 516 510 511 509 509
AUGUST    503 496 490 488 485 482   484 483 489 495 498 497   492 486 489 505 522 533   535 531 520 510 508 508
SEPTEMBER 510 504 492 491 487 487   487 486 488 489 485 478   471 467 475 499 526 548   562 559 543 528 517 514
OCTOBER   509 506 503 499 489 482   473 468 467 472 470 469   472 479 495 518 544 569   580 575 561 543 528 518
NOVEMBER  513 506 498 498 491 481   471 454 450 448 452 463   477 492 509 530 552 569   573 568 552 539 527 517
DECEMBER  517 513 510 500 493 481   465 445 432 430 430 445   468 492 513 542 576 592   583 565 545 528 517 517
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Quiet-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   500 502 500 491 483 478   473 462 451 445 435 440   455 482 503 531 559 571   561 547 526 512 504 506
FEBRUARY  505 503 500 498 496 491   485 477 463 451 440 433   441 464 492 522 542 554   551 543 529 514 508 510
MARCH     501 500 499 497 492 490   490 488 485 479 466 454   447 451 467 493 520 541   551 545 528 514 509 505
APRIL     508 498 497 493 493 496   497 497 495 494 489 480   470 466 478 498 521 534   540 536 527 519 512 506
MAY       503 499 495 499 497 496   491 490 494 495 495 490   487 483 486 502 518 527   527 522 514 507 502 502
JUNE      504 501 497 498 497 497   498 497 496 499 501 500   498 496 499 509 518 521   519 513 506 502 502 502
JULY      503 502 499 492 495 497   496 497 501 500 499 502   496 491 492 500 508 514   516 510 505 500 500 501
AUGUST    505 504 496 497 498 488   493 498 500 501 501 498   492 484 488 502 517 528   530 524 515 506 506 507
SEPTEMBER 508 502 502 498 496 490   489 489 489 488 485 475   466 460 469 490 519 545   560 556 537 522 514 509
OCTOBER   512 511 509 507 503 497   494 489 481 472 465 462   462 468 488 510 536 555   563 556 543 530 519 514
NOVEMBER  513 510 505 501 494 489   479 463 457 449 449 451   455 469 486 510 531 551   560 555 546 537 528 520
DECEMBER  509 510 505 498 494 485   472 455 438 435 436 444   464 489 511 539 568 587   579 555 533 516 510 510
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Disturbed-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   522 513 512 506 494 489   481 472 451 431 426 434   474 500 531 559 592 602   615 594 580 555 527 523
FEBRUARY  516 513 498 496 494 482   466 447 407 412 431 441   470 490 514 547 575 583   586 582 569 543 532 508
MARCH     508 499 484 470 465 451   443 445 456 476 474 467   480 498 503 519 539 552   558 553 548 538 527 511
APRIL     504 485 477 478 475 484   483 471 480 487 506 488   480 477 482 506 536 553   559 558 538 534 515 494
MAY       498 491 476 458 460 480   486 488 479 467 498 524   518 513 505 514 524 531   542 535 530 524 497 513
JUNE      497 481 474 470 471 462   454 460 468 477 517 534   529 521 532 534 540 547   548 545 525 525 495 487
JULY      498 500 500 485 487 492   492 493 492 497 499 502   503 496 500 509 518 528   536 521 517 542 541 540
AUGUST    507 490 470 483 482 467   457 450 467 483 503 507   495 490 494 515 538 545   543 541 528 514 510 512
SEPTEMBER 516 506 474 476 471 478   471 468 475 484 484 485   484 483 483 508 532 548   562 563 550 533 521 527
OCTOBER   499 509 514 504 481 472   452 436 440 470 472 485   495 519 527 553 571 593   596 586 572 556 529 524
NOVEMBER  521 498 480 500 500 480   461 445 450 439 439 459   500 513 524 545 566 582   590 577 563 550 529 519
DECEMBER  527 525 519 499 500 480   451 427 426 433 436 457   479 492 523 557 608 623   618 594 576 558 541 537
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Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1981   Tabular Baseline=   960 minutes

no of days excluded

All-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   497 496 494 491 484 475   464 451 438 430 428 438   454 479 503 526 550 559   552 539 523 508 498 497
FEBRUARY  502 490 490 489 484 480   474 470 468 455 448 447   450 458 479 509 538 563   571 567 552 536 522 512
MARCH     502 492 490 491 483 478   471 476 471 470 466 459   454 460 480 504 533 556   566 557 541 524 513 509
APRIL     503 488 477 464 469 467   466 470 482 482 484 484   477 469 480 504 528 544   549 541 529 518 513 508
MAY       495 489 482 469 455 452   450 461 471 485 490 496   494 489 491 501 513 518   519 517 512 508 503 501
JUNE      487 483 480 477 472 467   460 467 471 476 480 482   486 485 485 494 500 502   501 499 495 494 493 489
JULY      497 485 472 467 461 461   463 467 477 480 484 488   494 495 497 501 508 514   512 506 503 499 497 492
AUGUST    497 485 476 468 467 469   463 471 472 477 480 482   478 477 486 504 518 530   532 528 517 507 504 505
SEPTEMBER 494 489 479 476 472 467   470 474 467 472 470 464   458 458 469 489 517 540   552 551 537 523 513 503
OCTOBER   497 496 493 486 481 475   471 467 460 453 453 457   459 469 487 507 536 559   572 568 556 534 517 504
NOVEMBER  498 494 489 483 472 466   451 437 433 432 436 447   462 476 498 519 540 554   559 552 542 530 517 507
DECEMBER  497 495 491 481 471 458   441 430 417 417 423 440   458 482 503 522 541 554   558 551 538 521 509 503
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Quiet-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   490 492 491 490 488 478   466 456 441 434 433 438   450 469 492 521 548 556   546 529 509 498 492 493
FEBRUARY  498 493 489 485 480 476   470 470 461 451 445 438   432 437 454 486 524 555   569 567 551 530 511 501
MARCH     501 498 497 495 487 482   482 478 473 468 456 441   434 441 461 490 523 547   553 542 523 510 506 506
APRIL     500 496 481 484 486 485   487 484 479 477 474 468   453 451 464 490 517 538   544 533 519 510 506 505
MAY       490 487 487 486 479 479   480 478 475 477 476 477   467 463 469 484 503 512   514 515 508 500 497 493
JUNE      488 486 483 482 479 475   478 479 479 481 481 480   481 481 484 491 497 500   498 495 490 488 487 487
JULY      491 489 479 478 479 477   481 476 481 485 483 484   484 479 491 491 501 505   503 497 492 489 488 490
AUGUST    492 483 483 485 489 489   488 490 490 490 488 485   475 468 475 490 508 520   524 516 506 496 491 491
SEPTEMBER 492 491 489 488 486 481   480 481 480 476 471 461   452 453 462 481 509 533   550 546 532 517 508 502
OCTOBER   491 491 495 492 488 487   482 478 470 461 452 446   446 455 465 486 517 540   551 548 535 518 507 503
NOVEMBER  495 492 482 485 483 477   467 447 435 432 432 441   455 472 492 513 531 544   546 536 522 510 502 498
DECEMBER  496 496 494 489 476 465   453 442 433 434 434 440   456 477 496 515 538 547   545 536 524 509 500 495
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Disturbed-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23  24
JANUARY   502 503 500 497 474 457   445 432 435 437 444 457   465 486 506 530 546 547   543 544 537 523 507 505
FEBRUARY  499 479 485 488 480 476   468 462 472 455 452 462   468 476 508 538 556 579   584 579 553 541 525 513
MARCH     505 486 488 492 473 453   419 442 437 455 455 473   478 482 517 526 552 577   585 570 560 541 525 527
APRIL     538 489 475 418 444 438   443 460 482 486 493 509   507 492 499 529 550 554   560 555 546 546 534 534
MAY       499 485 476 426 396 398   390 420 455 510 515 539   551 542 528 525 539 539   535 532 526 518 511 508
JUNE      487 481 475 475 463 449   432 411 446 462 478 489   509 492 489 499 504 506   508 508 513 514 509 496
JULY      507 477 416 427 419 415   412 431 470 473 493 503   534 549 554 537 533 541   538 543 547 530 512 503
AUGUST    507 481 467 454 466 468   472 471 453 463 480 476   479 485 495 514 527 542   544 548 544 533 523 532
SEPTEMBER 503 487 465 457 447 441   451 448 426 463 474 481   484 485 496 507 531 554   570 571 552 537 527 515
OCTOBER   582 503 497 483 472 473   461 436 427 421 434 461   471 495 531 536 566 588   599 597 583 556 533 507
NOVEMBER  515 495 491 483 465 447   437 423 435 428 426 441   461 477 513 526 550 573   577 568 556 540 525 505
DECEMBER  493 495 489 468 463 449   423 429 388 391 409 437   453 505 533 546 561 575   582 565 555 529 512 505
```

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Declination East (1/10 mins)

1982   Tabular Baseline= 960 minutes

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	494	491	486	478	473	465	454	443	433	428	424	430	444	462	488	519	545	558	558	550	534	517	503	496	
FEBRUARY	498	495	486	486	479	473	463	450	455	449	447	460	470	480	497	521	547	571	586	584	567	549	522	502	
MARCH	487	487	471	474	469	469	464	465	462	461	456	453	447	452	465	490	521	540	548	542	531	516	509	501	
APRIL	484	469	462	458	457	450	456	462	463	469	475	480	474	473	482	494	510	522	526	526	521	514	502	491	
MAY	476	472	455	448	452	458	462	459	471	471	474	482	480	479	482	493	500	506	506	500	493	491	485	478	
JUNE	479	475	460	455	447	446	445	457	462	470	477	482	488	489	490	493	497	498	498	493	491	488	493	484	
JULY	452	464	461	452	450	453	458	462	474	483	484	492	497	495	500	505	508	509	512	505	499	495	492	485	
AUGUST	486	467	461	460	448	445	450	455	462	467	477	480	480	476	481	496	506	516	519	514	505	495	493	489	
SEPTEMBER	482	472	451	441	430	439	448	463	460	472	483	480	473	476	482	499	522	544	550	547	534	512	503	480	
OCTOBER	490	481	473	472	469	462	454	451	451	454	460	457	460	467	484	506	531	554	564	559	545	528	508	500	
NOVEMBER	501	483	486	483	473	464	459	446	442	443	446	449	462	480	499	522	539	552	563	561	550	534	520	507	
DECEMBER	497	493	485	494	473	463	450	433	423	421	425	444	472	498	517	540	558	565	562	553	537	520	507	502	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	490	490	486	484	481	476	467	456	442	434	426	432	449	466	484	511	537	547	539	524	511	496	489	488	
FEBRUARY	510	499	491	488	490	476	476	472	464	452	447	448	460	464	482	507	536	557	562	561	541	521	507	503	
MARCH	497	494	482	475	474	478	479	477	473	467	460	448	439	438	452	478	507	532	543	538	520	504	497	493	
APRIL	494	489	486	480	479	480	477	477	470	474	474	473	467	458	464	480	501	511	515	512	509	504	488	497	
MAY	476	473	468	462	466	471	472	469	470	471	472	473	471	465	469	481	493	498	496	490	484	480	481	481	
JUNE	481	469	478	469	463	459	466	472	475	479	478	480	476	473	474	483	488	491	491	484	483	481	481	482	
JULY	477	475	473	464	458	460	474	465	471	473	474	477	477	477	478	483	491	493	492	486	480	480	479	474	
AUGUST	484	481	478	475	466	456	467	476	474	473	473	469	463	457	461	478	495	505	510	506	496	491	488	485	
SEPTEMBER	489	488	480	473	474	473	474	472	471	475	462	461	457	459	463	480	508	531	545	540	526	515	506	498	
OCTOBER	494	489	482	478	473	470	468	462	457	453	456	450	444	447	462	483	523	548	556	545	529	510	500	493	
NOVEMBER	498	495	489	483	471	465	458	444	434	430	431	438	449	463	477	490	507	528	540	542	532	522	512	504	
DECEMBER	491	486	487	488	482	481	471	452	436	428	425	434	456	479	499	518	532	540	537	523	511	500	492	492	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	504	489	478	463	459	448	431	417	416	423	427	431	447	468	495	533	563	580	582	573	559	542	522	514	
FEBRUARY	482	490	470	472	467	468	465	438	452	469	471	500	499	495	516	542	558	580	597	598	579	565	537	510	
MARCH	482	469	436	458	449	466	461	449	443	467	456	461	459	475	478	509	544	550	564	560	548	530	532	502	
APRIL	489	449	448	429	432	396	413	434	445	464	483	519	507	513	535	536	543	549	552	553	556	551	534	512	
MAY	468	465	430	399	421	423	426	434	479	473	482	511	528	533	521	526	519	524	519	514	505	503	478	468	
JUNE	461	492	446	417	396	417	420	476	476	480	479	487	513	503	503	507	513	508	515	502	493	487	497	492	
JULY	357	478	434	432	442	465	447	450	492	493	488	519	528	524	533	533	537	526	547	548	543	519	520	484	
AUGUST	511	474	458	444	388	386	390	416	452	449	501	514	518	504	507	536	528	529	537	534	515	493	508	496	
SEPTEMBER	457	453	367	357	315	372	358	412	386	458	534	550	540	559	534	545	577	605	603	585	565	530	522	468	
OCTOBER	498	436	445	444	454	441	428	425	439	459	489	482	482	496	510	535	557	575	580	577	556	538	501	500	
NOVEMBER	500	482	510	501	498	482	480	467	467	470	462	455	476	489	518	549	580	601	616	607	589	556	534	507	
DECEMBER	506	498	477	484	469	440	436	425	417	441	441	462	501	528	538	567	584	578	576	573	565	545	523	509	

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1958

Tabular Baseline= 36500 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	excl
JANUARY	462	458	457	454	449	443	441	439	437	430	425	418	411	406	406	404	409	419	433	444	452	460	459	459	1
FEBRUARY	461	457	451	444	436	426	416	415	418	413	416	417	418	418	414	409	409	418	429	443	456	462	463	462	
MARCH	456	450	442	434	432	429	422	416	422	423	427	427	425	420	415	409	407	414	425	439	451	458	459	458	
APRIL	439	435	430	424	420	418	414	412	411	412	414	417	420	419	414	409	410	415	422	430	435	435	437	438	
MAY	420	417	416	412	409	406	405	403	401	401	404	406	409	410	402	407	407	408	410	414	417	419	420	424	
JUNE	419	410	404	406	402	396	392	393	395	395	398	399	401	404	404	404	404	405	406	408	408	409	410	412	
JULY	406	405	402	401	399	396	394	389	386	389	391	386	392	397	396	394	396	400	403	403	407	414	409	408	
AUGUST	391	390	387	381	377	373	373	373	374	374	376	378	380	379	375	372	372	375	380	387	391	391	391	391	
SEPTEMBER	392	387	384	380	373	374	373	371	371	372	371	373	371	366	359	353	354	358	362	378	389	395	393	392	
OCTOBER	376	372	367	363	360	356	353	352	348	349	345	344	342	339	335	330	330	339	351	363	374	382	381	379	
NOVEMBER	359	358	355	352	348	345	343	341	339	336	329	324	318	314	311	312	317	326	337	347	355	357	358	358	
DECEMBER	358	354	351	347	343	339	336	333	329	323	318	312	307	302	303	301	305	315	329	342	356	363	363	361	

Quiet-days mean diurnal variation

UT	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	458	456	458	459	457	454	450	446	441	436	430	419	408	403	405	406	413	428	443	452	454	456	452	451
FEBRUARY	448	447	444	441	437	434	430	430	432	431	426	421	417	415	411	406	404	411	420	433	442	444	445	445
MARCH	447	443	436	430	431	430	427	425	426	425	427	427	422	422	413	404	400	404	415	428	438	444	444	443
APRIL	431	430	428	426	423	419	416	417	416	414	415	417	418	414	406	403	404	409	418	426	430	428	426	428
MAY	412	411	410	409	407	407	406	405	406	406	405	406	407	407	405	402	402	406	408	411	412	411	411	410
JUNE	408	408	405	406	404	402	402	402	402	402	401	401	402	403	402	401	400	401	403	405	405	402	403	403
JULY	405	402	401	401	399	398	398	396	396	395	395	395	397	396	394	393	394	398	400	402	401	400	399	399
AUGUST	389	388	388	386	385	383	383	383	381	382	383	383	384	381	378	375	374	377	382	386	389	387	387	386
SEPTEMBER	378	377	375	373	372	371	370	371	371	371	371	372	369	362	353	346	344	349	359	367	376	378	377	377
OCTOBER	370	367	366	363	360	359	359	358	358	357	355	354	350	342	335	331	331	336	346	358	363	367	369	370
NOVEMBER	357	356	354	352	351	349	348	346	344	340	334	328	325	321	318	317	320	329	340	348	351	352	353	353
DECEMBER	348	349	347	346	343	341	339	337	331	323	318	312	306	303	304	301	307	315	325	335	344	347	346	349

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	excl
JANUARY	482	470	464	459	449	437	441	443	441	430	422	426	419	413	408	414	421	434	449	459	474	482	477	478	1
FEBRUARY	480	481	470	453	431	401	350	342	360	341	367	390	422	434	438	430	430	436	447	468	475	480	482	478	
MARCH	468	464	449	426	429	422	410	376	404	423	426	428	424	420	414	414	417	421	434	448	462	473	477	473	
APRIL	444	436	429	424	417	418	408	394	399	405	409	407	414	416	416	410	416	420	429	441	447	446	447	448	
MAY	417	414	420	407	409	406	397	390	385	380	387	391	402	407	407	410	409	410	413	426	432	434	449		
JUNE	452	402	395	413	412	390	378	384	378	375	384	384	394	402	408	411	414	414	414	416	422	427	434		
JULY	409	411	405	404	400	393	387	369	362	375	382	354	379	398	398	395	400	419	418	439	433	476	448	440	
AUGUST	394	396	387	363	346	344	354	353	353	350	368	376	379	380	378	377	377	376	383	392	398	400	402	403	
SEPTEMBER	412	398	392	383	352	368	372	365	366	366	361	356	367	363	359	353	361	368	381	398	416	437	433	427	
OCTOBER	382	377	370	362	358	352	345	340	317	313	309	312	321	325	331	328	335	355	370	383	409	422	422	411	
NOVEMBER	365	367	360	358	352	345	341	341	343	342	334	329	320	316	313	315	321	332	340	353	363	365	367	367	
DECEMBER	384	371	364	356	351	350	348	344	339	330	322	319	310	303	304	305	311	325	347	370	393	407	404	407	

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1959

Tabular Baseline= 36000 nT

no of days excluded

All-days mean diurnal variation

UT	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	842	838	835	832	829	825	824	823	820	815	809	800	792	789	788	786	790	801	815	826	835	841	844	845
FEBRUARY	845	841	837	830	823	818	817	812	814	815	808	806	800	795	793	792	797	805	818	829	837	842	847	851
MARCH	837	836	827	825	820	813	810	813	816	818	820	816	813	808	803	800	805	813	822	832	839	845	844	838
APRIL	831	828	826	823	820	814	811	809	809	810	814	817	817	814	810	808	807	811	817	823	827	829	829	831
MAY	821	818	818	815	811	806	803	800	800	803	805	808	810	812	811	809	808	811	814	818	818	818	820	821
JUNE	798	798	797	794	791	791	789	787	783	782	783	785	789	791	791	791	793	794	796	798	797	796	796	797
JULY	799	794	788	784	782	777	775	776	776	782	776	782	786	789	790	787	789	791	791	795	793	797	796	796
AUGUST	782	781	779	774	768	766	759	757	761	764	766	764	770	771	769	767	768	773	778	783	785	785	785	785
SEPTEMBER	787	783	774	769	762	755	754	750	751	755	761	764	763	758	752	749	751	757	763	771	780	786	787	788
OCTOBER	767	764	760	754	747	745	745	740	742	743	741	740	736	734	731	729	731	737	745	755	763	770	771	770
NOVEMBER	759	755	751	743	734	731	729	727	725	723	718	717	714	712	710	710	714	721	730	740	749	756	759	759
DECEMBER	747	743	740	736	731	725	721	716	711	705	700	696	694	692	692	692	697	704	714	726	738	743	745	747

Quiet-days mean diurnal variation

UT	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	825	824	826	826	825	824	825	821	817	813	807	798	791	790	786	786	789	799	809	812	815	817	818	819
FEBRUARY	835	833	831	828	825	825	824	823	822	822	821	818	813	807	800	796	799	807	820	830	831	830	830	829
MARCH	826	826	825	824	822	821	820	818	818	818	818	818	814	808	804	794	796	803	812	818	822	824	823	823
APRIL	821	820	819	817	815	814	813	812	812	811	813	814	814	811	807	803	804	808	815	818	820	820	819	818
MAY	813	812	811	809	810	808	808	807	808	808	807	807	807	808	807	805	806	810	812	814	814	812	811	809
JUNE	795	795	793	792	791	791	790	790	790	791	792	792	792	793	791	790	792	792	794	794	794	793	791	791
JULY	792	791	789	788	783	783	781	783	782	784	786	786	786	786	786	783	783	785	788	790	790	789	787	786
AUGUST	777	776	774	774	771	771	770	770	771	772	772	773	773	771	766	762	762	766	773	776	777	776	776	775
SEPTEMBER	779	777	775	773	771	770	770	769	767	767	767	768	765	761	754	750	751	756	763	768	774	776	774	774
OCTOBER	760	759	757	755	754	752	750	748	748	748	747	744	740	737	732	728	728	731	740	747	754	757	757	758
NOVEMBER	752	750	746	745	743	741	740	737	734	731	726	722	718	715	711	710	713	718	725	731	736	741	745	746
DECEMBER	739	738	737	736	734	731	728	727	722	715	707	699	696	695	696	697	699	703	707	714	722	732	735	735

Disturbed-days mean diurnal variation

UT	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	870	852	846	844	835	826	825	826	823	818	813	802	796	795	792	798	792	805	830	850	867	877	885	891
FEBRUARY	854	854	846	827	828	819	810	791	811	826	816	809	799	796	789	790	797	806	827	839	857	870	884	883
MARCH	859	857	826	823	808	786	774	777	809	824	815	809	809	806	801	804	802	814	850	866	881	899	900	870
APRIL	836	831	832	832	823	806	805	800	793	799	813	819	811	804	808	809	807	814	814	822	832	839	836	838
MAY	823	817	821	813	801	788	769	766	764	784	792	802	809	816	817	814	807	814	818	823	823	821	830	833
JUNE	807	804	801	796	794	793	780	776	760	755	759	765	780	786	789	791	794	796	800	803	802	801	808	809
JULY	828	811	788	773	775	761	760	772	763	802	750	780	795	813	816	799	799	825	801	817	800	833	827	827
AUGUST	780	774	772	763	744	748	716	723	729	737	756	766	772	773	782	791	796	798	800	800	801			
SEPTEMBER	805	796	777	756	743	713	706	697	706	729	756	762	763	760	755	749	755	765	773	784	794	806	809	805
OCTOBER	781	777	775	761	737	733	721	730	740	742	738	736	743	745	740	746	736	760	775	786	803	800	795	
NOVEMBER	782	772	762	729	707	699	699	719	710	706	704	709	705	707	716	719	725	735	753	763	774	786	786	780
DECEMBER	758	752	744	734	728	719	714	706	698	695	689	689	692	686	686	684	697	717	732	750	774	773	760	759

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1960   Tabular Baseline= 36000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	732	731	729	725	720	717	714	710	705	700	697	692	690	685	680	678	681	692	705	715	722	731	733	731
FEBRUARY	719	716	713	709	706	702	700	697	699	699	695	691	688	683	676	672	673	679	691	703	713	718	719	720
MARCH	706	704	701	697	695	690	687	686	683	685	687	684	685	684	681	677	674	678	687	695	702	708	712	708
APRIL	718	718	704	691	691	687	678	677	681	686	693	692	691	691	691	692	693	693	707	713	715	718	718	721
MAY	701	698	696	693	689	684	682	681	680	678	684	687	687	687	686	686	689	690	692	695	696	696	697	698
JUNE	674	673.	671	664	661	658	660	658	659	661	664	665	668	671	671	671	672	672	674	675	674	673	674	675
JULY	668	664	665	664	663	658	655	652	651	652	654	654	657	659	660	660	660	662	666	667	668	667	667	668
AUGUST	657	656	656	648	643	637	638	636	634	640	644	646	648	648	645	642	642	644	648	654	656	656	656	658
SEPTEMBER	656	653	647	642	638	635	628	622	622	624	629	637	637	635	631	628	629	631	636	644	653	657	657	656
OCTOBER	654	649	641	628	622	618	614	615	620	617	616	617	619	615	611	612	615	625	636	645	655	663	666	658
NOVEMBER	652	644	637	633	626	621	602	609	600	599	599	611	609	607	605	608	613	620	630	645	645	654	657	655
DECEMBER	632	630	627	622	615	610	606	600	598	594	592	589	586	583	581	580	585	596	610	622	631	637	638	635

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	723	724	722	721	718	715	713	711	709	704	698	692	687	684	678	674	677	687	698	706	714	721	721	721
FEBRUARY	716	713	712	709	705	701	701	699	700	700	698	695	691	685	682	679	679	685	695	703	706	707	707	707
MARCH	702	701	699	698	696	693	691	690	690	690	689	690	689	685	682	679	677	678	683	690	697	701	702	702
APRIL	699	699	698	693	689	689	687	688	689	689	691	692	692	690	686	684	685	688	692	694	695	696	696	696
MAY	689	689	688	686	686	683	681	681	681	682	684	684	684	685	684	682	683	684	687	689	688	686	686	686
JUNE	676	675	673	673	672	671	670	671	670	670	670	671	671	671	671	670	671	673	675	676	675	673	674	673
JULY	662	663	663	662	661	660	659	659	657	656	657	659	660	661	660	659	659	660	662	663	662	661	660	659
AUGUST	651	651	650	650	649	642	646	645	644	643	642	645	646	645	642	640	641	643	646	650	651	650	650	650
SEPTEMBER	650	649	647	646	645	642	640	640	641	642	642	643	640	635	629	625	626	627	634	641	647	649	649	648
OCTOBER	643	641	639	638	635	635	633	632	632	631	629	627	623	617	611·608	611	617	625	632	639	643	642	641
NOVEMBER	639	641	638	635	635	634	631	628	626	622	618	611	607	603	602	601	604	612	621	627	631	635	634	635
DECEMBER	625	626	624	622	619	615	612	609	607	606	600	593	587	583	581	583	590	599	610	618	625	627	627	628

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	738	747	734	730	725	725	719	710	698	692	689	684	685	681	677	680	679	696	716	725	736	757	758	755
FEBRUARY	728	723	717	707	706	699	695	693	701	707	698	693	693	687	678	676	680	686	695	709	723	730	729	730
MARCH	722	718	702	692	696	682	676	685	676	685	691	664	677	689	688	686	675	681	698	711	716	728	749	723
APRIL	743	764	695	641	670	690	661	644	659	670	695	685	667	669	686	705	707	695	758	766	761	774	756	751
MAY	723	707	707	709	697	690	691	695	691	661	680	696	695	685	685	689	699	698	699	707	712	714	722	724
JUNE	673	668	666	636	638	632	649	641	654	658	666	669	673	675	673	674	674	673	674	680	678	677	676	678
JULY	676	650	658	660	662	659	640	627	626	626	631	634	645	651	658	660	660	658	670	675	679	680	683	687
AUGUST	657	655	658	631	620	600	622	623	607	626	644	646	651	652	646	640	642	642	646	659	663	665	671	671
SEPTEMBER	666	657	638	621	618	606	593	575	570	566	589	624	634	644	643	640	645	645	645	658	672	681	674	675
OCTOBER	664	654	637	590	554	549	556	577	594	572	586	590	599	599	597	610	621	644	667	675	692	709	712	681
NOVEMBER	695	658	635	626	608	604	503	562	526	534	536	629	635	633	628	638	649	654	674	707	686	692	690	687
DECEMBER	645	641	637	621	607	608	604	583	584	581	582	581	580	582	583	581	592	608	626	644	652	672	672	659

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1961   Tabular Baseline= 36000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	610	610	609	605	603	600	596	592	589	586	584	580	578	575	573	572	574	583	592	598	603	607	609	610
FEBRUARY	602	599	597	595	591	588	586	584	582	578	575	575	571	569	567	566	568	575	584	591	597	603	604	606
MARCH	584	583	580	577	574	572	569	566	564	566	565	567	566	564	562	562	565	570	575	579	581	582	583	584
APRIL	573	571	570	566	566	563	560	561	561	561	561	563	563	562	560	558	561	564	568	571	572	572	574	574
MAY	559	558	555	554	553	548	545	547	547	548	549	551	554	554	554	554	555	558	558	560	560	559	558	558
JUNE	546	545	545	544	540	538	538	538	537	537	538	539	540	542	542	543	544	545	545	546	546	545	544	544
JULY	548	545	542	543	538	533	531	531	529	523	520	529	534	539	538	540	541	543	545	547	547	547	547	548
AUGUST	534	534	533	531	527	524	522	523	523	526	526	526	526	526	525	524	525	527	530	533	534	534	533	533
SEPTEMBER	522	521	518	516	514	509	507	506	509	510	510	511	510	508	504	502	503	508	513	518	521	523	524	525
OCTOBER	521	516	509	510	511	506	503	505	503	501	503	502	498	497	496	495	494	499	508	526	527	525	524	521
NOVEMBER	508	587	504	502	499	498	497	495	491	488	485	482	480	479	479	479	481	485	491	497	502	506	507	508
DECEMBER	494	494	492	490	488	486	484	482	477	473	468	465	463	460	461	462	465	472	479	485	490	495	496	494

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	605	606	607	606	606	603	600	598	594	591	589	585	583	581	575	573	573	580	590	598	604	604	605	606
FEBRUARY	591	590	590	590	589	590	588	587	584	582	580	577	575	570	565	566	569	574	582	590	592	592	590	590
MARCH	583	582	583	583	581	578	577	575	574	574	575	574	570	566	562	561	563	569	574	578	579	580	579	580
APRIL	576	576	575	573	571	571	568	566	566	567	568	569	569	567	564	562	562	566	569	572	574	573	573	573
MAY	558	558	557	555	555	552	552	553	552	552	553	553	555	555	555	554	555	557	559	558	556	556	556	555
JUNE	543	543	543	542	542	540	540	540	540	540	540	539	540	541	541	542	543	544	545	544	543	542	541	541
JULY	541	542	541	541	539	536	536	533	534	534	536	538	539	540	539	539	539	539	542	541	540	541	540	539
AUGUST	533	532	530	531	531	531	528	528	529	529	529	529	529	529	526	524	524	527	530	533	534	533	531	531
SEPTEMBER	518	518	516	515	514	514	513	513	512	512	512	513	511	507	503	501	502	506	511	515	518	518	517	517
OCTOBER	510	509	508	507	505	504	503	504	504	502	501	500	496	493	489	488	488	491	498	506	510	511	510	509
NOVEMBER	499	497	497	496	496	496	495	493	490	486	484	481	477	475	474	473	473	478	483	489	494	497	498	499
DECEMBER	485	486	486	486	486	486	485	482	478	474	470	466	465	462	460	461	465	472	478	482	484	484	484	484

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	618	617	612	601	603	600	592	585	583	578	578	575	578	574	567	565	570	586	600	611	617	627	631	627
FEBRUARY	604	595	594	593	589	587	581	579	576	569	565	566	565	564	566	567	568	575	586	593	612	631	632	638
MARCH	592	590	575	571	574	571	559	559	546	545	533	542	555	563	566	571	573	575	582	586	590	591	591	591
APRIL	573	563	572	553	553	555	549	559	558	553	553	557	559	561	561	558	560	564	573	579	580	583	589	582
MAY	559	557	559	560	553	527	513	529	533	534	544	551	552	554	557	561	562	563	566	565	563	562	563
JUNE	551	550	547	547	538	535	535	534	532	532	531	534	532	541	544	546	549	547	547	553	554	553	554	556
JULY	554	551	545	544	533	519	520	537	514	458	437	487	507	536	532	544	546	548	550	563	569	569	569	569
AUGUST	539	541	538	534	521	511	510	520	521	527	524	523	525	526	527	531	534	539	539	540	541	541
SEPTEMBER	522	522	519	514	506	493	492	495	501	504	500	507	503	500	500	499	502	507	512	519	520	532	541	546
OCTOBER	539	520	489	497	510	495	483	497	488	480	494	487	476	485	496	500	496	506	528	599	575	560	553	542
NOVEMBER	516	514	504	503	501	498	494	489	483	480	479	477	474	476	479	481	488	492	501	507	521	526	523	524
DECEMBER	505	500	495	491	487	483	478	476	466	460	460	461	457	446	456	461	470	484	488	501	517	529	529	521

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS Vertical intensity (Modulus of field)

1962 Tabular Baseline= 36000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	486	485	484	483	481	481	480	478	475	471	467	462	459	458	457	458	462	467	472	476	480	483	484	484		2
FEBRUARY	474	473	473	471	469	466	465	464	462	460	457	454	452	449	446	445	448	454	460	466	470	474	474	475		
MARCH	460	459	457	456	453	451	451	449	449	449	449	449	446	443	440	438	439	442	449	456	459	461	460	459		1
APRIL	453	452	451	448	446	444	440	439	440	440	441	442	444	443	440	438	440	444	448	452	454	454	455	454		
MAY	440	440	439	437	436	435	433	433	434	434	434	434	435	436	435	435	435	437	439	440	440	439	439	440		
JUNE	427	427	427	426	423	420	419	419	419	420	421	423	424	425	425	425	426	427	427	425	426	426	425	426		
JULY	416	415	415	413	411	409	407	406	408	410	410	412	413	413	413	413	414	415	415	416	415	414	415	415		
AUGUST	411	410	409	407	405	399	395	395	397	401	404	406	406	406	404	404	404	405	409	412	411	410	410	411		
SEPTEMBER	409	408	406	398	395	392	390	388	389	394	396	398	399	396	392	390	391	396	401	407	412	412	411	410		1
OCTOBER	405	401	397	394	391	387	386	385	386	384	383	383	382	382	379	379	381	386	393	402	408	410	410	407		2
NOVEMBER	394	392	389	387	385	381	378	375	373	371	368	365	363	364	363	364	368	373	379	385	390	392	393	394		1
DECEMBER	385	384	382	378	376	374	372	369	365	362	358	354	353	351	350	351	353	358	365	375	379	384	385	385		

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	481	481	482	482	483	482	482	480	477	474	471	466	461	461	461	461	464	469	474	478	479	481	481	481		
FEBRUARY	473	472	471	471	469	468	466	465	464	464	463	459	456	453	448	447	449	454	461	466	470	471	470	470		
MARCH	456	456	454	453	452	451	450	450	449	449	449	449	447	443	439	438	440	444	450	455	458	457	455	455		
APRIL	452	452	450	449	448	447	446	445	445	445	445	445	446	444	441	441	440	441	445	448	449	450	450	450		
MAY	437	437	436	434	434	434	433	433	433	433	433	434	434	434	434	433	434	436	438	438	437	436	435	435		
JUNE	425	424	424	424	424	422	422	423	422	422	423	422	423	424	424	424	424	426	426	426	425	425	424	423		
JULY	413	414	413	411	411	411	409	410	412	412	412	412	412	412	412	412	413	414	415	415	414	414	413	412		
AUGUST	411	411	410	409	409	408	408	407	407	408	408	409	409	406	403	402	403	406	410	412	412	410	409	407		
SEPTEMBER	406	404	401	399	399	397	396	396	396	397	398	398	395	390	387	384	384	389	396	402	405	405	404	403		
OCTOBER	403	400	398	398	395	392	389	389	386	385	385	386	385	382	378	377	378	381	387	396	401	402	402	400		1
NOVEMBER	389	389	387	386	385	384	384	382	379	375	371	367	364	362	360	361	366	372	377	382	384	385	384	384		
DECEMBER	381	381	381	380	378	377	376	373	370	367	364	360	358	355	355	355	356	360	367	373	374	376	375	376		

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	487	488	488	484	477	481	477	476	473	468	460	456	451	451	449	454	464	473	478	484	488	491	493	491		
FEBRUARY	476	472	475	473	471	467	462	461	458	455	451	447	445	440	437	437	442	449	457	464	472	476	481	482		
MARCH	463	462	462	460	455	452	453	449	446	446	446	445	440	440	439	438	439	444	451	458	464	467	470	469		
APRIL	453	452	457	451	443	440	432	433	435	430	433	436	436	439	435	435	441	450	451	459	465	467	469	466		
MAY	440	441	441	436	435	432	429	431	434	434	431	426	427	430	432	433	435	437	439	443	445	444	442	447		
JUNE	424	425	426	425	414	410	410	408	407	404	409	415	416	420	421	424	424	425	423	420	424	425	425	428		
JULY	419	415	411	410	400	394	387	391	398	404	404	405	412	412	414	412	416	420	420	421	417	412	419	419		
AUGUST	412	409	403	408	400	403	389	382	379	386	393	404	403	404	404	405	405	409	410	411	411	412	411	415		
SEPTEMBER	410	413	409	394	379	369	364	369	372	388	387	395	398	397	392	393	396	402	403	409	421	421	418	416		1
OCTOBER	408	397	392	399	395	388	383	376	372	370	375	375	377	380	380	381	381	389	398	408	415	422	422	414		
NOVEMBER	396	395	385	383	378	365	358	361	360	361	361	360	351	359	364	364	368	373	381	390	400	404	404	402		
DECEMBER	397	392	386	379	374	373	371	364	356	359	356	354	356	353	350	349	351	355	363	384	394	408	405	404		

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS Vertical intensity (Modulus of field)

1963 Tabular Baseline= 36000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	369	368	367	365	362	360	359	358	354	350	346	342	339	337	337	339	344	350	356	361	363	366	368	369		
FEBRUARY	365	363	362	358	356	354	351	349	348	348	347	345	342	338	336	334	335	341	348	356	363	366	366	365		3
MARCH	351	350	348	345	344	343	342	340	339	340	340	340	337	335	331	329	331	335	342	349	353	354	352	351		
APRIL	342	343	341	340	338	335	334	334	333	334	336	337	338	335	332	330	332	335	340	344	344	344	344	343		
MAY	327	325	323	321	320	319	317	317	319	318	320	322	323	324	324	323	323	325	327	328	327	326	326	326		1
JUNE	319	317	315	314	312	312	309	308	310	312	313	313	314	315	315	315	316	317	317	317	316	317	318	318		
JULY	307	306	304	302	299	299	297	296	298	302	302	303	303	303	304	303	304	305	307	306	305	305	304	305		
AUGUST	299	298	295	293	292	287	286	288	290	290	292	293	294	293	292	291	291	294	296	299	299	299	299	300		
SEPTEMBER	303	298	285	282	281	280	280	280	280	283	287	290	290	288	286	283	286	290	296	302	306	308	307	306		
OCTOBER	297	294	292	286	287	286	282	282	281	281	280	281	280	277	276	275	276	281	288	295	301	302	300	299		
NOVEMBER	289	287	286	284	282	279	278	277	275	273	270	267	264	262	262	261	262	270	278	285	289	291	291	290		
DECEMBER	276	275	274	273	271	268	265	262	259	256	253	249	246	245	244	244	247	255	262	268	272	275	276	275		1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	362	363	364	363	362	362	362	361	359	354	349	343	338	337	338	340	345	352	356	359	360	361	362	362		
FEBRUARY	358	357	356	355	354	353	353	352	351	349	346	344	342	339	336	335	335	340	347	354	360	362	362	360		1
MARCH	347	346	345	344	344	343	342	341	341	341	341	341	340	337	332	328	330	335	342	347	351	351	348	346		
APRIL	342	342	341	340	339	338	337	337	337	337	337	337	337	335	333	331	334	337	342	344	344	342	341	340		
MAY	322	321	320	320	319	319	319	319	319	319	319	320	320	321	320	320	321	323	323	323	322	321	321	320		
JUNE	315	315	314	315	314	313	312	310	311	313	314	314	315	315	314	315	316	317	318	317	315	314	313	313		
JULY	304	304	304	303	303	303	303	303	303	304	305	304	304	304	303	303	305	305	305	304	304	303	302	303		
AUGUST	297	296	295	295	295	294	293	294	294	294	295	295	295	293	290	288	288	290	293	296	296	294	295	294		
SEPTEMBER	294	294	294	294	291	291	289	289	289	289	289	290	290	287	283	280	281	284	290	294	296	292	291	294		
OCTOBER	296	295	294	293	291	291	290	289	289	290	288	288	286	282	277	277	278	282	287	292	296	297	295	294		
NOVEMBER	285	285	285	284	283	282	281	280	278	275	270	267	263	260	259	258	262	268	276	282	286	286	286	286		
DECEMBER	272	271	271	270	269	268	268	265	264	257	254	251	248	248	248	247	249	256	261	266	267	269	270	269		

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	377	373	371	365	351	348	349	347	340	329	328	331	334	333	334	341	348	355	365	374	377	379	381	384		
FEBRUARY	384	378	376	361	354	351	343	341	339	347	350	349	344	341	340	339	341	349	357	361	371	380	379	379		
MARCH	362	359	354	345	342	344	339	333	330	338	340	339	334	331	328	329	332	333	345	354	360	364	364	362		
APRIL	344	345	343	340	335	334	336	334	331	332	335	336	337	333	327	328	333	336	340	343	343	346	346	346		
MAY	332	327	320	322	320	317	313	314	315	312	315	322	328	332	329	329	329	329	334	335	335	333	333	333		
JUNE	318	317	318	304	302	309	301	294	305	312	313	313	318	314	315	316	317	317	316	317	317	315	322	324		
JULY	302	303	300	294	295	294	287	290	289	296	296	298	291	291	299	300	299	302	303	303	302	305	305	304		
AUGUST	303	304	306	289	290	279	274	278	284	282	284	288	289	290	292	292	293	295	295	302	303	300	304	308		
SEPTEMBER	318	299	238	228	250	248	258	255	248	272	296	303	296	294	295	293	298	304	311	319	323	339	332	329		1
OCTOBER	300	293	286	270	280	285	264	265	257	257	259	275	281	277	279	280	276	281	294	310	321	322	315	311		
NOVEMBER	295	290	283	284	282	272	265	268	275	272	268	265	262	259	268	263	258	269	284	296	302	310	307	305		
DECEMBER	286	283	281	276	272	268	259	251	249	253	249	246	242	240	239	242	246	255	266	277	286	287	287	285		1

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1964   Tabular Baseline= 36000 nT

no of days excluded

All-days mean diurnal variation

```
 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   267 268 267 266 263 259 256 255 252 249 246 242 242 241 240 237 240 248 254 258 261 262 263 265
FEBRUARY  256 256 254 252 249 248 246 245 244 243 241 238 236 235 233 232 234 238 243 249 251 254 254 255
MARCH     245 242 241 238 236 235 234 232 232 232 234 234 232 230 228 228 231 235 240 243 244 246 246 245
APRIL     238 236 233 232 231 228 229 227 227 226 227 229 230 230 228 226 227 230 235 238 237 238 239 237
MAY       231 230 231 228 224 224 221 221 221 221 224 226 228 228 227 227 229 230 232 231 231 231 230 230
JUNE      218 218 217 216 214 213 211 212 214 214 215 217 217 217 217 216 217 218 219 219 218 217 217 218
JULY      206 205 205 204 202 201 201 202 203 203 203 203 205 205 205 205 206 206 207 206 206 205 206 206
AUGUST    197 198 197 195 193 192 192 192 193 193 194 195 195 195 192 190 191 193 195 198 199 198 198 198
SEPTEMBER 193 192 190 185 184 184 183 182 183 183 185 185 185 182 179 178 179 182 186 190 192 192 191 191
OCTOBER   188 186 185 184 181 179 179 178 176 175 175 175 173 169 167 166 169 174 181 186 189 190 190 189
NOVEMBER  178 178 175 174 172 170 170 169 166 163 159 155 153 152 152 154 158 163 168 172 174 175 177 177
DECEMBER  164 164 163 162 161 159 157 155 153 149 145 141 138 135 135 138 142 149 154 157 159 161 162 163
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Quiet-days mean diurnal variation

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 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   263 263 262 262 261 260 258 256 256 255 252 248 245 243 239 236 241 249 256 256 256 256 257 259
FEBRUARY  254 254 253 252 252 251 250 248 248 247 246 243 240 238 236 233 233 237 243 249 251 251 251 253
MARCH     241 240 239 239 238 237 236 233 233 235 236 235 233 230 228 228 231 233 236 239 240 240 241 240
APRIL     233 233 232 231 230 230 230 229 229 229 229 229 229 229 227 226 228 230 233 233 233 232 231 230
MAY       231 231 231 230 228 228 228 227 227 227 228 229 230 230 229 229 230 233 234 232 232 231 231 230
JUNE      217 217 217 216 216 216 216 215 215 215 216 216 216 216 216 216 216 217 218 218 218 217 217 216
JULY      204 204 204 203 203 202 201 201 202 202 202 202 203 203 202 202 202 203 204 204 203 203 203 202
AUGUST    198 197 196 196 195 194 194 194 193 194 194 195 194 193 190 188 189 192 195 197 196 196 196 195
SEPTEMBER 189 189 188 187 186 185 185 185 185 185 186 185 183 180 177 176 178 179 181 186 187 187 186 186
OCTOBER   185 184 183 182 181 181 180 180 180 178 176 174 171 168 165 164 167 172 178 180 185 184 184 184
NOVEMBER  176 175 173 173 172 172 172 171 169 165 160 156 153 151 149 151 156 161 169 172 174 171 172 172
DECEMBER  163 163 162 161 159 158 157 155 153 148 144 140 136 134 136 138 142 147 150 153 154 154 156 158
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Disturbed-days mean diurnal variation

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 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   269 273 270 269 263 248 244 247 243 232 229 227 237 240 239 235 239 252 262 270 274 275 276 275
FEBRUARY  260 258 254 249 243 242 236 239 240 240 236 232 233 236 233 230 231 236 241 249 253 260 261 263
MARCH     249 244 240 239 234 225 227 227 226 228 226 228 230 230 227 227 228 233 240 247 250 258 257 256
APRIL     242 237 230 233 228 223 231 221 224 219 225 228 230 229 227 223 224 228 237 241 242 247 254 243
MAY       232 229 233 226 212 214 212 215 214 205 218 225 228 228 227 226 229 230 235 235 237 236 233 232
JUNE      222 220 218 217 211 207 202 208 220 215 215 221 221 222 221 222 222 223 225 224 226 224 223 225
JULY      208 204 203 201 192 197 203 203 205 205 204 200 206 208 208 208 209 207 208 207 209 205 210 212
AUGUST    197 201 199 194 191 183 185 186 186 187 191 194 193 197 194 191 193 197 197 197 201 202 202 201
SEPTEMBER 197 197 191 175 181 177 178 173 175 174 176 180 181 179 175 175 179 184 189 196 191 192 189 191
OCTOBER   188 189 186 185 181 175 172 171 172 168 171 174 171 166 167 166 170 172 182 190 193 196 192 194
NOVEMBER  181 181 177 176 171 166 167 167 166 164 158 154 153 152 153 157 162 165 171 177 181 184 188 185
DECEMBER  167 167 166 164 161 161 159 157 153 148 142 138 134 131 136 140 142 149 153 158 160 164 164 164
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Note:—The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1965   Tabular Baseline= 36000 nT

no of days excluded

All-days mean diurnal variation

```
 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   156 156 156 155 154 152 150 147 146 143 139 136 133 132 131 131 133 137 142 145 149 151 154 155
FEBRUARY  147 147 147 145 142 140 138 137 137 137 134 130 128 126 123 123 126 132 138 142 145 146 147 146
MARCH     141 141 139 138 137 133 130 129 128 129 132 132 130 127 123 122 124 127 133 139 143 143 142 141
APRIL     133 132 131 128 125 124 115 115 120 121 126 128 129 127 124 122 124 128 131 134 134 133 132 132
MAY       120 120 119 119 117 115 114 114 116 117 117 118 119 119 119 118 118 120 121 121 121 119 119 119
JUNE      114 113 114 113 112 109 108 107 106 108 107 108 110 110 111 112 113 114 115 115 114 113 113 114
JULY      103 104 103 101 100  98  97  98  99 100 100 101 102 101 102 102 104 104 103 103 102 102
AUGUST     96  95  95  95  93  91  89  89  90  91  92  93  92  92  90  89  89  91  94  95  96  95  96  96
SEPTEMBER  91  90  89  87  86  82  82  80  79  81  84  84  82  80  77  74  75  79  84  89  92  93  92  91
OCTOBER    82  80  78  78  77  74  73  73  72  71  70  70  68  66  64  61  61  65  70  76  81  83  83  82
NOVEMBER   74  73  72  70  69  68  67  66  63  59  55  53  49  48  49  50  53  58  62  66  69  71  72  73
DECEMBER   66  66  65  64  61  59  58  56  52  47  43  40  39  38  37  38  39  45  52  58  62  65  66  66
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Quiet-days mean diurnal variation

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 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   154 154 153 154 153 151 150 149 147 145 142 139 136 134 133 133 134 138 143 146 149 150 153 152
FEBRUARY  143 144 145 146 144 143 143 142 141 140 137 133 131 130 130 129 131 133 138 141 142 143 143 143
MARCH     140 140 139 138 137 136 135 134 133 133 134 133 132 127 123 122 124 127 135 140 143 143 141 139
APRIL     133 133 132 131 130 129 128 128 128 128 128 129 129 129 125 124 125 127 131 135 135 134 132 132
MAY       122 122 122 122 121 120 120 120 120 120 120 121 121 121 120 119 120 120 122 122 121 120 120 119
JUNE      114 114 114 113 113 112 112 112 112 113 113 113 113 114 113 113 114 114 115 114 113 113 112 111
JULY      104 105 106 105 104 104 103 103 103 103 103 103 104 104 102 102 103 104 106 106 105 104 103 102
AUGUST     98  97  97  96  95  95  94  94  94  94  94  94  95  94  92  91  93  94  96  97  97  95  95  95
SEPTEMBER  88  88  87  86  84  83  84  84  84  84  84  84  83  80  75  72  73  76  82  88  91  90  88  87
OCTOBER    80  79  78  78  78  76  75  75  75  74  73  74  74  71  69  65  63  66  72  78  83  84  83  80
NOVEMBER   73  71  70  69  69  69  68  67  66  63  58  56  54  52  51  51  53  56  60  64  66  68  68  69
DECEMBER   62  62  62  61  59  58  57  56  53  49  44  40  38  37  36  35  36  43  51  57  61  61  60  60
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Disturbed-days mean diurnal variation

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 UT   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY   160 159 159 158 157 154 148 142 143 139 134 133 131 130 129 133 137 141 143 148 154 156 160 162
FEBRUARY  149 147 148 144 135 133 125 129 131 130 129 126 125 121 121 118 119 128 136 147 153 155 154 154
MARCH     146 145 141 139 137 125 114 117 115 120 128 129 128 128 126 123 125 127 132 137 143 146 146 146
APRIL     135 133 130 120 110 107  57  61  90 100 120 128 134 133 128 126 131 136 136 139 137 137 136 136
MAY       126 123 123 124 120 109 106 106 113 116 118 117 124 124 122 122 122 123 124 125 125 122 122 126
JUNE      120 113 118 116 113 104  96  87  87  92  90  95 100 103 108 112 115 116 118 121 124 123 122 124
JULY      100 101 101  95  90  85  83  92  96  96  98  99 100 103 104 104 104 104 104 106 105 106 105
AUGUST     98  98  99  99  96  87  75  79  82  87  90  93  93  92  92  92  90  90  92  94  95  98  97
SEPTEMBER 104  98  97  92  92  87  84  76  67  72  84  85  77  79  80  76  78  81  85  93  96 101 104 101
OCTOBER    85  81  79  81  76  68  69  69  71  70  69  68  66  67  66  63  65  67  73  77  81  85  86  88
NOVEMBER   75  73  71  68  66  65  64  63  59  54  49  46  42  43  48  49  53  59  64  68  73  76  77  80
DECEMBER   65  66  64  61  59  57  53  49  44  39  36  35  36  32  31  34  35  43  54  58  63  71  72  71
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Note:—The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

Vertical intensity (Modulus of field)

1966

Tabular Baseline= 35500 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	557	557	556	555	553	552	550	548	546	543	539	535	532	529	528	529	530	536	544	551	553	556	557	557	
FEBRUARY	548	548	546	545	542	539	538	536	536	535	533	531	527	524	521	522	525	532	540	546	548	550	549	549	
MARCH	545	544	542	540	537	535	533	531	532	532	530	531	529	527	524	522	524	530	536	543	548	548	547	545	
APRIL	533	533	531	530	528	526	525	525	525	525	525	527	527	526	523	521	523	526	530	532	534	534	534	534	
MAY	519	519	518	517	514	514	513	513	513	512	511	512	514	516	515	515	516	518	520	521	520	519	521	521	
JUNE	508	509	508	507	506	505	505	505	505	505	505	506	507	507	507	507	507	508	508	507	507	507	507	507	
JULY	495	495	495	494	489	488	486	487	489	490	493	493	494	496	495	494	494	496	496	497	497	495	495	495	
AUGUST	496	497	495	493	493	492	491	491	490	491	492	492	492	492	490	489	490	491	494	498	499	499	498	497	
SEPTEMBER	500	495	492	491	485	484	484	486	486	485	487	491	492	490	487	484	485	489	495	502	506	507	505	504	
OCTOBER	489	487	485	482	480	477	476	475	475	474	473	473	471	468	466	463	466	468	477	484	489	492	492	491	
NOVEMBER	475	474	474	471	469	466	464	462	460	456	452	450	448	446	445	445	450	458	464	469	473	474	474	476	
DECEMBER	466	464	464	462	459	455	453	449	445	442	438	433	429	427	426	427	432	438	447	455	460	463	465	466	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	556	556	555	554	553	551	551	550	547	544	540	536	531	529	528	528	528	533	543	550	552	553	555	555	
FEBRUARY	547	546	544	543	542	542	541	540	539	538	535	531	529	525	522	521	523	528	536	545	548	549	548	546	
MARCH	545	544	544	543	542	539	538	536	536	536	535	535	533	530	526	524	525	528	535	543	547	547	544	543	
APRIL	529	528	527	526	525	524	524	523	522	522	523	524	525	524	520	518	519	523	527	531	531	529	528	527	
MAY	515	515	514	513	513	512	512	512	512	512	512	513	513	513	513	513	514	517	518	518	517	516	515	514	
JUNE	507	507	507	506	505	505	506	505	505	505	505	506	506	507	507	506	507	507	508	507	507	506	506	506	
JULY	497	497	496	496	496	495	494	494	494	495	495	496	496	496	496	495	495	496	497	498	497	496	495	495	
AUGUST	491	492	491	491	491	491	490	489	489	490	491	491	491	490	487	484	485	488	492	495	495	494	492	491	
SEPTEMBER	499	499	497	496	494	492	492	491	493	494	495	496	495	492	487	484	484	489	494	501	503	503	501	499	
OCTOBER	485	483	482	481	481	480	480	479	477	476	474	473	471	468	465	463	464	470	476	482	486	487	487	485	
NOVEMBER	470	471	471	470	468	467	467	465	461	456	451	446	444	443	443	445	449	455	462	465	465	466	468	472	
DECEMBER	462	460	459	458	457	456	455	452	449	445	438	431	426	426	425	426	431	437	443	449	455	458	459	458	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	558	558	557	554	553	550	544	541	541	539	536	532	526	520	520	528	531	535	546	555	557	562	562	561	
FEBRUARY	551	551	548	547	539	528	527	524	524	529	531	527	525	522	523	525	535	543	547	548	557	553	552		
MARCH	548	546	542	539	531	527	520	510	514	514	505	512	514	523	520	520	526	535	541	551	557	560	555	553	
APRIL	538	538	534	530	532	528	523	524	524	526	526	527	526	522	520	521	521	525	530	534	539	542	543	544	
MAY	518	518	520	519	507	512	511	507	503	498	490	496	504	511	515	515	515	518	522	527	527	527	535	536	
JUNE	513	514	511	512	510	506	505	507	510	509	507	506	507	509	508	508	507	508	507	507	509	512	514	516	
JULY	497	495	494	494	468	470	456	459	474	477	490	487	492	498	500	500	500	501	502	502	502	499	500	503	
AUGUST	502	503	498	490	494	496	497	498	498	497	495	491	490	491	491	489	490	487	489	500	507	509	510	508	
SEPTEMBER	500	476	468	480	470	461	466	468	466	456	456	479	497	504	502	497	501	504	512	523	529	527	522	517	
OCTOBER	497	495	488	479	474	465	465	461	463	464	463	465	466	464	464	467	468	474	483	496	497	500	503	506	
NOVEMBER	477	473	473	470	467	462	453	448	449	445	440	441	444	445	444	440	445	453	463	470	482	483	481	482	
DECEMBER	467	469	467	465	455	444	444	440	439	435	433	430	426	424	417	414	426	438	451	463	470	470	472	476	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

Vertical intensity (Modulus of field)

1967

Tabular Baseline= 35500 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	458	458	456	453	453	451	446	444	440	435	432	429	425	422	421	420	426	437	446	452	454	456	458	459	
FEBRUARY	453	452	449	447	445	442	441	439	438	435	432	426	423	421	419	420	422	427	435	443	447	449	452	452	
MARCH	439	438	436	434	432	430	429	428	428	428	428	427	424	419	415	413	414	419	427	434	439	440	440	440	
APRIL	429	427	425	422	421	420	419	418	417	416	418	419	420	417	414	412	413	418	423	427	428	429	429	428	
MAY	426	433	422	414	415	403	403	405	410	414	414	418	422	421	422	423	423	424	426	427	428	431	433	436	
JUNE	421	419	421	422	418	416	415	415	416	418	418	418	419	420	420	419	419	421	422	421	420	421	422	422	
JULY	404	405	404	403	401	399	400	400	400	401	401	402	402	403	402	402	402	404	405	405	405	404	403	404	
AUGUST	395	395	394	392	391	389	387	387	387	387	388	389	390	389	386	384	385	387	392	394	395	394	393	393	
SEPTEMBER	393	391	387	383	383	380	374	374	376	378	381	381	380	376	373	371	371	376	383	391	396	397	396	395	
OCTOBER	386	383	381	379	378	376	375	375	374	372	371	369	366	363	360	358	359	364	371	379	384	386	387		
NOVEMBER	376	374	372	370	369	367	364	363	361	357	354	350	348	346	346	347	350	354	360	368	374	375	377	376	
DECEMBER	371	367	364	363	359	356	354	350	346	343	340	336	332	329	327	330	334	343	352	360	367	370	373	372	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	451	451	451	451	449	449	447	445	443	441	436	428	423	420	421	419	423	429	437	442	445	448	448	447	
FEBRUARY	448	446	446	445	443	442	441	440	439	437	434	428	423	419	418	418	418	423	428	435	440	440	442	444	
MARCH	436	436	435	435	434	433	432	430	430	430	430	428	423	419	416	414	416	421	429	434	437	437	435	434	
APRIL	422	421	420	419	418	417	417	417	417	416	416	417	417	416	413	411	412	415	420	424	424	423	423	421	
MAY	423	422	421	421	420	419	417	415	416	416	418	419	419	420	418	416	416	418	421	422	422	422	422	422	
JUNE	417	417	417	417	415	415	415	413	414	414	415	415	416	417	416	416	416	418	419	419	418	416	416	415	
JULY	405	405	405	405	404	404	404	403	404	403	404	404	404	404	403	402	403	405	406	406	406	405	403	403	
AUGUST	397	397	396	394	395	394	394	393	394	394	394	394	395	394	391	388	388	391	396	398	399	398	397	396	
SEPTEMBER	390	389	388	387	386	385	384	384	382	383	385	385	382	377	373	370	371	374	380	388	391	390	389	388	
OCTOBER	378	378	376	375	374	374	373	373	371	368	366	365	362	358	355	351	350	355	361	369	375	378	378	377	
NOVEMBER	373	372	371	371	370	369	369	367	364	360	356	351	349	346	345	348	354	359	362	366	369	368	368	368	
DECEMBER	364	361	360	359	359	358	357	354	350	348	343	336	332	329	328	330	335	341	345	349	353	355	358	359	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	475	463	451	437	447	444	428	424	417	411	413	422	421	421	425	417	426	444	455	461	463	472	482	484	
FEBRUARY	461	462	456	449	442	441	444	441	435	426	419	411	412	421	420	425	426	428	441	458	460	465	475	474	
MARCH	440	439	437	434	427	424	424	423	422	426	427	423	417	416	414	413	415	425	435	441	447	448	448		
APRIL	429	428	427	424	422	420	420	419	412	406	410	415	417	417	415	412	412	416	420	425	425	430	432	433	
MAY	413	464	425	384	399	355	351	347	372	393	399	408	427	423	437	449	446	447	449	450	453	467	477	492	
JUNE	413	409	422	433	422	416	416	420	422	422	421	421	423	422	422	421	422	421	417	417	420	420	426	435	
JULY	405	405	405	405	404	394	392	391	391	391	395	400	401	403	404	404	406	407	408	410	408	406	408	411	
AUGUST	390	392	390	386	386	384	382	380	381	383	384	385	383	384	384	381	382	384	389	390	391	391	392		
SEPTEMBER	398	390	379	362	368	356	339	337	348	360	369	368	372	372	372	372	371	382	386	399	411	413	414	409	
OCTOBER	388	385	381	379	378	375	372	371	373	378	370	369	366	359	357	359	359	365	371	379	389	396	394	396	
NOVEMBER	377	375	370	368	369	366	358	361	360	355	352	350	350	346	345	347	350	355	364	375	382	383	380	379	
DECEMBER	374	373	369	364	355	343	340	340	335	334	331	327	325	326	323	328	334	346	363	376	391	395	400	396	

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1968   Tabular Baseline= 35500 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	372	368	365	363	360	357	353	350	347	342	339	336	333	329	326	325	329	336	345	354	362	368	372	372	
FEBRUARY	360	357	351	348	346	343	340	338	337	334	332	329	326	325	323	322	322	325	336	347	355	361	365	363	
MARCH	349	346	344	341	335	331	329	330	327	329	330	329	327	325	322	320	321	325	333	341	348	351	350	349	
APRIL	337	335	333	329	325	324	322	320	318	320	324	325	326	324	321	319	319	323	328	333	336	336	337	336	
MAY	325	322	321	319	317	312	310	310	311	313	315	317	318	319	318	316	317	320	323	325	326	324	324	325	
JUNE	316	314	311	307	303	302	300	299	296	299	302	304	307	310	310	311	312	314	316	316	316	315	314	315	
JULY	300	299	297	296	295	294	294	293	293	294	295	297	297	298	298	297	298	300	301	301	301	300	299	299	
AUGUST	290	288	288	287	283	281	281	281	282	283	284	286	286	284	281	279	280	284	289	293	293	292	291	290	
SEPTEMBER	291	288	284	280	278	275	274	276	277	278	279		278	274	268	265	267	274	282	289	292	292	291	291	
OCTOBER	286	282	279	276	275	270	271	270	268	268	266	265	262	257	252	254	258	263	273	281	287	290	289	288	
NOVEMBER	292	289	284	280	278	276	275	272	271	268	264	259	252	252	251	254	260	267	276	282	288	293	294	295	
DECEMBER	270	269	268	266	262	260	260	257	253	247	244	239	234	230	227	225	228	239	252	263	268	271	273	273	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	367	365	364	362	361	359	356	353	350	347	344	344	341	333	327	324	327	333	342	352	360	365	365	366	
FEBRUARY	350	349	348	346	346	345	344	342	343	342	338	332	328	325	322	321	321	323	331	339	347	349	351	346	
MARCH	349	348	346	343	341	338	337	335	335	335	332	328	326	324	321	322	325	334	340	344	346	345	344		
APRIL	332	331	330	328	326	325	324	324	324	324	324	325	325	322	319	316	317	321	326	330	332	330	329	328	
MAY	323	323	321	320	319	319	319	318	318	318	318	319	319	319	317	316	316	318	322	324	324	323	322	320	
JUNE	313	312	312	311	310	308	308	308	309	309	310	310	311	311	311	311	310	312	314	314	313	311	311	311	
JULY	296	296	297	296	296	294	292	292	293	294	295	295	295	296	295	294	295	298	299	299	297	296	295	295	
AUGUST	286	286	285	285	285	284	284	285	284	284	284	285	283	280	277	275	276	280	283	286	288	288	286	286	
SEPTEMBER	287	286	284	284	282	281	281	280	280	280	280	280	277	271	265	263	266	273	280	287	289	289	286	286	
OCTOBER	282	280	279	279	278	277	277	275	274	272	271	269	263	259	257	255	255	261	269	275	279	281	281	279	
NOVEMBER	277	277	276	276	274	273	271	270	268	265	260	256	252	249	246	246	249	255	264	271	274	276	278		
DECEMBER	264	265	264	264	263	262	261	259	257	252	246	239	234	230	226	226	231	243	256	265	270	268	267	264	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	382	380	375	372	365	363	356	348	343	333	329	324	330	329	326	329	338	346	350	359	367	378	383	381	
FEBRUARY	365	364	354	350	347	343	337	331	326	322	319	320	319	322	324	329	330	338	342	355	360	368	386	383	
MARCH	347	344	342	338	331	323	312	315	318	322	325	325	320	321	321	317	313	319	327	338	347	353	352	351	
APRIL	344	341	339	333	330	330	323	315	313	316	329	329	324	327	324	322	324	327	331	339	345	351	355	350	
MAY	324	317	318	321	315	298	285	291	301	302	307	312	317	319	320	321	321	325	329	331	329	329	331	333	
JUNE	328	318	309	293	276	283	285	281	261	264	280	285	296	307	314	319	324	327	328	327	326	328	327	329	
JULY	300	300	292	293	290	285	291	289	287	290	292	296	296	298	300	301	302	302	301	301	303	305	304	304	
AUGUST	294	290	294	290	278	269	268	269	274	275	281	285	285	285	283	281	284	288	294	302	301	298	299	298	
SEPTEMBER	298	286	272	262	268	261	263	265	263	265	271	276	274	274	268	262	271	281	289	298	304	302	300	299	
OCTOBER	297	280	279	277	270	252	255	258	257	268	260	255	253	247	234	252	267	268	283	297	306	310	301	302	
NOVEMBER	321	312	291	281	284	275	280	276	275	278	282	279	257	270	269	281	289	297	303	309	321	334	339	340	
DECEMBER	275	273	274	269	258	254	264	257	246	233	236	232	229	225	223	224	224	237	255	268	276	283	287	284	

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1969   Tabular Baseline= 35000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	774	772	770	768	766	764	763	760	757	753	750	747	744	739	734	728	727	735	745	755	763	767	770	770	
FEBRUARY	767	762	760	758	755	752	750	749	749	748	746	742	738	734	729	724	722	727	735	745	757	767	769	769	
MARCH	759	756	748	746	747	743	737	735	732	733	735	739	740	736	729	725	726	730	737	746	753	758	760	760	
APRIL	746	743	742	741	738	733	729	727	726	730	732	734	735	733	730	727	728	731	735	738	742	744	744	745	
MAY	732	731	728	725	723	719	717	718	717	717	717	720	722	724	724	722	723	726	729	731	731	731	731	732	
JUNE	720	720	719	718	717	714	713	713	712	713	715	715	716	717	717	716	716	715	716	718	719	720	719	719	
JULY	707	707	707	706	704	706	704	700	703	704	705	707	707	705	704	704	705	706	707	708	708	707	706		
AUGUST	700	700	699	697	695	695	695	695	694	694	694	695	696	695	692	690	689	691	695	698	700	700	700	700	
SEPTEMBER	696	695	692	690	689	688	687	685	681	680	682	686	683	682	676	673	674	676	682	688	695	698	699	698	
OCTOBER	694	692	689	687	686	683	681	680	680	679	678	678	674	670	667	663	661	665	673	682	691	694	696	694	
NOVEMBER	682	681	679	678	676	674	671	670	670	666	662	657	652	648	646	646	650	656	662	671	678	683	684	683	
DECEMBER	670	670	669	668	666	663	663	661	657	652	647	642	638	634	632	631	632	639	648	657	662	666	669	668	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	772	772	771	770	768	767	767	765	763	758	754	751	748	744	736	731	731	739	748	757	761	766	767	769	
FEBRUARY	756	755	753	751	751	749	748	748	749	746	744	741	736	729	725	720	719	724	733	741	747	753	757	756	
MARCH	754	751	750	749	747	745	744	744	745	744	745	745	743	739	731	725	725	730	739	746	752	755	754	752	
APRIL	741	741	739	737	736	734	732	730	731	731	732	733	734	732	728	723	722	725	729	733	738	738	739	739	
MAY	727	725	725	724	723	723	722	720	720	720	721	722	723	724	722	720	720	722	724	725	726	725	725	723	
JUNE	717	717	718	717	716	717	716	715	715	715	716	716	717	716	715	715	719	719	718	717	717	715			
JULY	708	707	707	706	705	706	705	704	705	705	705	706	706	706	705	704	704	705	706	708	708	707	706	706	
AUGUST	698	698	697	696	696	695	695	694	694	694	695	695	696	695	692	689	689	691	694	697	700	700	699	698	
SEPTEMBER	694	694	693	692	690	690	689	688	687	687	689	689	680	684	680	675	675	677	682	687	693	695	694	692	
OCTOBER	689	687	686	685	685	684	684	682	681	681	679	677	673	669	666	662	658	660	667	676	685	689	690	689	
NOVEMBER	683	682	679	678	676	676	676	677	675	673	669	663	658	655	652	650	651	656	662	668	674	677	679	681	
DECEMBER	662	662	662	661	659	658	657	656	653	647	641	635	628	623	621	623	628	637	645	652	656	659	659	658	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	791	780	774	771	765	761	759	755	751	748	748	742	738	734	730	727	724	730	740	751	760	767	772	771	
FEBRUARY	779	764	762	760	756	755	752	747	745	743	741	738	732	732	726	719	720	731	732	749	779	808	795	790	
MARCH	781	766	735	734	754	742	717	718	709	707	708	728	743	743	738	736	734	736	744	752	766	773	783	783	
APRIL	743	743	741	741	736	718	711	708	701	717	722	730	731	724	727	727	733	734	735	738	745	748	751	752	
MAY	745	745	722	711	716	714	709	706	702	699	694	713	716	722	727	727	728	734	741	742	741	750	753	757	
JUNE	725	724	721	716	715	709	708	709	703	708	714	717	718	719	720	718	720	710	709	712	717	729	726	728	
JULY	706	703	706	702	695	700	703	679	693	701	705	707	708	707	706	706	705	706	707	706	709	709	708		
AUGUST	696	696	693	690	681	691	694	694	693	690	688	690	690	692	689	686	684	684	690	695	699	700	700	702	
SEPTEMBER	697	696	685	677	684	682	682	679	659	649	653	663	666	672	670	669	674	675	681	693	703	706	708	708	
OCTOBER	706	703	698	693	699	683	680	680	682	681	677	681	679	680	674	671	675	683	688	696	706	710	713	709	
NOVEMBER	687	685	679	680	676	666	653	656	659	655	654	655	649	646	644	645	655	662	670	675	686	690	690	689	
DECEMBER	672	673	673	672	669	663	663	660	653	650	645	641	637	634	631	634	636	638	648	661	666	671	675	673	

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1970

Tabular Baseline= 35000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	665	662	661	659	657	654	654	651	647	644	640	637	634	629	624	621	619	625	635	645	653	660	663	665		1
FEBRUARY	655	654	652	650	648	646	644	643	641	640	638	635	632	627	621	616	612	615	623	635	646	653	657	656		
MARCH	659	658	655	650	650	649	647	643	640	641	639	640	640	637	630	628	629	632	637	649	661	672	666	661		
APRIL	651	650	648	645	639	640	638	637	637	634	635	638	640	638	636	633	633	635	640	645	650	651	651	652		
MAY	640	641	640	639	637	634	634	632	633	632	631	631	632	634	633	631	632	634	637	639	640	640	640	640		
JUNE	629	629	629	628	626	624	622	622	621	620	621	622	622	624	624	624	624	626	627	628	628	628	628	628		
JULY	622	623	622	620	616	612	607	607	606	607	609	612	615	616	616	616	617	619	620	621	622	621	621	621		
AUGUST	616	614	614	612	611	609	608	607	605	605	606	607	608	609	607	604	604	606	610	613	615	615	615	615		1
SEPTEMBER	609	608	606	604	601	598	597	596	595	595	597	598	598	594	590	586	587	591	595	600	605	608	608	608		
OCTOBER	603	601	599	596	593	593	592	589	589	590	589	587	585	581	577	572	572	577	585	593	600	604	606	605		
NOVEMBER	597	595	593	591	588	586	586	586	582	579	576	571	568	563	560	559	562	567	576	585	592	597	597	596		1
DECEMBER	582	581	580	578	576	576	574	572	569	565	561	557	553	548	547	546	547	554	561	567	572	576	579	581		1

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	659	658	658	657	657	655	654	652	649	644	642	640	634	627	621	617	617	624	634	642	651	659	661	664	
FEBRUARY	652	651	650	649	649	647	646	646	645	643	640	637	636	631	624	615	610	612	621	632	646	652	655	654	
MARCH	651	651	649	648	647	645	644	643	643	644	645	645	643	638	631	623	621	626	633	643	651	652	650	649	
APRIL	647	646	644	643	642	641	639	639	638	638	639	641	641	638	634	629	626	629	633	638	642	643	644	643	
MAY	639	638	637	636	636	634	634	634	634	634	635	635	635	635	633	631	631	634	637	639	640	640	639	638	
JUNE	627	627	627	626	626	626	625	625	625	626	626	626	625	626	625	625	625	626	628	628	628	627	625	625	
JULY	620	619	619	618	617	616	616	616	616	615	614	615	616	618	618	616	615	617	618	620	619	617	617	616	
AUGUST	616	616	615	614	613	612	612	612	611	610	611	611	611	611	608	606	606	608	611	615	616	615	615	614	
SEPTEMBER	607	606	604	604	603	598	597	597	599	600	602	601	597	592	587	587	589	592	598	603	605	607	605		
OCTOBER	597	596	595	594	593	593	593	593	592	592	591	588	586	581	576	570	570	576	584	592	596	596	595	595	
NOVEMBER	588	588	589	588	587	586	587	585	583	580	576	572	567	562	558	557	559	565	574	580	587	589	590	587	
DECEMBER	578	579	579	579	578	576	575	575	572	569	564	560	555	551	550	550	552	557	562	566	569	573	575	576	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	excl
JANUARY	672	667	665	660	655	650	651	648	639	637	633	629	628	626	623	619	619	627	640	648	657	670	673	674		
FEBRUARY	654	654	654	651	646	644	642	639	636	632	631	631	628	622	619	620	618	619	626	637	645	653	661	660		
MARCH	665	665	657	645	652	653	650	635	624	629	620	625	634	633	616	631	644	648	645	665	698	744	706	683		
APRIL	652	650	646	638	615	637	639	638	636	630	627	628	634	632	633	634	636	639	645	654	660	658	661	662		
MAY	639	642	644	640	637	633	631	628	631	632	626	618	620	624	628	628	630	632	635	638	640	640	642	643		
JUNE	633	633	636	628	622	623	617	616	617	608	609	612	612	615	619	625	627	628	632	634	633	633	632	635		
JULY	630	635	634	622	609	604	590	584	580	583	584	590	600	603	607	615	622	625	624	623	623	628	630	633		
AUGUST	624	618	617	611	609	600	602	598	594	591	589	588	597	605	611	612	612	613	618	623	625	624	623	625		1
SEPTEMBER	608	608	604	603	602	597	592	587	582	584	589	591	591	588	586	586	586	593	595	600	604	612	615	615		
OCTOBER	613	609	604	598	594	599	598	593	590	591	591	588	586	582	578	573	575	583	595	602	613	621	625	623		
NOVEMBER	601	602	602	594	586	585	582	578	572	569	563	558	559	553	556	558	564	573	583	593	601	607	606	605		1
DECEMBER	591	590	582	577	575	576	574	572	569	567	564	559	554	548	549	547	549	557	564	569	579	585	587	588		1

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1971

Tabular Baseline= 35000 nT

no of days excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	581	578	577	574	572	569	567	565	561	558	556	552	549	546	541	540	543	550	558	565	572	578	580	582	
FEBRUARY	582	579	575	571	568	568	567	565	564	563	561	559	557	550	542	538	538	542	552	566	576	582	583	582	
MARCH	568	566	564	562	559	557	555	551	549	549	553	553	552	547	541	538	537	542	551	560	566	569	570	568	
APRIL	563	560	555	554	550	547	544	545	546	544	547	550	552	551	547	544	544	548	553	558	561	563	564	563	
MAY	547	545	545	541	538	538	533	533	535	535	537	538	541	541	539	538	540	543	545	546	545	546	546	546	
JUNE	534	534	534	533	530	528	526	525	525	526	526	527	527	529	530	531	533	534	534	535	534	534	534	534	
JULY	522	521	521	521	520	519	519	518	518	519	520	520	520	520	519	518	518	520	522	521	521	521	520	521	
AUGUST	516	517	516	514	512	510	508	509	510	510	511	511	511	510	509	507	507	509	512	515	516	515	515	515	
SEPTEMBER	515	514	509	508	506	505	503	501	499	501	503	504	505	502	497	494	495	498	503	508	513	515	515	515	
OCTOBER	509	507	503	499	498	496	496	496	494	495	495	495	493	489	485	482	480	483	489	496	503	508	510	510	
NOVEMBER	497	495	492	491	490	487	485	482	480	478	474	471	467	465	463	463	466	471	477	481	487	493	496	497	
DECEMBER	492	491	491	490	488	485	484	481	477	472	467	462	458	456	454	455	457	464	474	485	488	491	492	491	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	570	569	571	572	572	572	572	571	568	565	559	552	548	546	542	541	546	557	565	568	569	568	567	567	
FEBRUARY	576	576	573	571	567	566	566	565	561	560	558	555	552	547	542	537	536	540	552	564	572	575	574	572	
MARCH	563	562	560	559	559	558	556	555	554	554	556	556	554	548	543	541	543	548	554	559	563	561	561	561	
APRIL	556	555	553	552	551	549	549	547	548	548	549	550	550	549	546	543	543	547	551	554	554	553	552	552	
MAY	541	541	541	540	539	539	538	538	538	538	538	538	538	539	538	538	539	541	542	542	542	541	540	539	
JUNE	534	534	533	533	531	531	530	529	529	530	530	531	532	532	532	532	533	534	535	534	534	533	532	532	
JULY	521	521	520	520	519	518	518	518	518	518	519	519	520	518	517	517	519	521	522	522	520	519	519		
AUGUST	516	516	516	515	514	512	512	513	512	513	513	513	514	512	509	507	507	509	512	514	515	513	511	511	
SEPTEMBER	515	514	512	510	510	508	507	507	506	507	507	507	508	508	504	499	494	494	498	503	507	512	515	514	512
OCTOBER	498	498	498	497	497	496	495	495	496	495	493	490	488	485	482	479	477	478	483	490	497	500	501	500	
NOVEMBER	491	491	490	490	489	489	489	488	487	483	479	474	470	467	465	465	469	472	474	478	482	488	491	492	
DECEMBER	486	485	485	485	483	482	482	482	480	475	467	461	455	453	451	451	454	460	468	472	477	481	483	485	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	588	586	582	570	570	566	562	557	553	546	550	551	548	545	537	534	542	550	564	573	583	597	605	607	
FEBRUARY	587	584	576	568	564	564	568	565	565	560	558	559	557	547	536	530	531	536	550	569	581	589	594	592	
MARCH	572	571	569	560	555	553	548	539	535	529	536	542	544	544	539	538	535	539	553	564	571	576	576	574	
APRIL	577	561	539	547	555	556	543	538	537	533	546	547	549	551	546	542	544	546	552	565	572	577	582	582	
MAY	550	547	547	533	522	527	508	504	521	514	520	523	533	537	532	534	541	541	545	551	554	555	556	555	
JUNE	536	535	535	530	528	524	521	518	517	514	516	514	516	519	526	527	531	536	534	538	538	542	546	546	
JULY	525	524	522	519	521	520	520	516	515	519	519	521	520	518	515	515	517	520	523	520	520	524	525	526	
AUGUST	515	516	514	509	505	506	500	502	503	506	506	507	508	508	508	507	506	507	510	514	516	517	517	515	
SEPTEMBER	519	515	493	499	502	502	498	495	491	495	501	498	500	501	495	495	498	500	507	515	523	522	520	522	
OCTOBER	519	517	507	488	491	489	491	494	497	498	495	494	495	495	495	489	489	493	498	503	512	516	517	519	
NOVEMBER	518	510	500	495	491	481	471	456	460	464	462	462	459	460	458	460	470	477	484	486	499	514	520	518	
DECEMBER	502	500	497	493	487	478	480	473	466	460	461	455	454	452	452	454	454	458	480	506	506	502	500	498	

Note:-The last column shows the number of days excluded from the calculation of the means because the days include missing hourly values.

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ARGENTINE ISLANDS                      Vertical intensity (Modulus of field)

       1972                            Tabular Baseline= 35000 nT
                                                                                         no of days
                                                                                          excluded
                          All-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  489 489 489 487 484 482 469 477 475 472 467 462 457 454 453 450 454 464 473 479 484 486 486 486
FEBRUARY 482 481 479 477 474 472 470 469 470 469 465 461 457 453 448 447 449 454 463 471 476 480 482 482
MARCH    477 475 472 469 467 464 463 461 461 463 463 462 460 457 452 447 447 452 460 467 475 479 478 478
APRIL    465 464 462 459 456 453 452 451 450 450 451 452 453 453 449 448 449 452 456 460 462 464 464 464
MAY      455 455 454 452 449 448 447 447 445 446 447 448 449 450 448 447 447 449 452 452 453 453 453 454
JUNE     445 441 436 441 441 436 435 434 437 436 437 438 439 441 441 441 443 443 445 446 445 443 443 444
JULY     438 439 438 436 434 434 431 431 432 433 433 433 434 435 434 433 433 434 436 437 436 436 435 436
AUGUST   446 442 436 429 425 413 414 422 428 427 424 426 435 434 430 428 430 432 435 439 443 443 443 448
SEPTEMBER 432 431 429 424 417 416 418 419 419 419 420 422 421 419 413 410 408 411 416 424 431 433 434 432
OCTOBER  426 423 421 417 415 414 410 409 409 405 405 406 404 401 397 394 395 400 408 416 424 428 430 427
NOVEMBER 418 418 413 404 403 403 402 399 396 394 390 387 385 383 381 381 385 390 398 405 410 413 415 418
DECEMBER 398 399 398 398 397 395 391 388 386 382 377 372 368 366 365 364 365 371 379 387 393 399 399 399

                          Quiet-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  482 483 485 484 483 481 480 478 476 472 470 465 460 457 454 451 454 463 471 475 479 484 482 481
FEBRUARY 476 476 475 474 473 472 471 470 470 469 466 463 459 454 448 446 447 450 457 466 472 476 475 476
MARCH    475 472 470 469 467 465 465 464 464 464 464 465 463 460 454 450 448 451 458 466 473 477 475 473
APRIL    461 460 459 458 457 455 455 454 454 454 454 456 457 454 449 446 447 449 453 456 458 458 457 457
MAY      454 453 454 452 450 449 448 448 448 448 449 448 448 450 447 444 444 448 452 454 454 453 453 451
JUNE     441 441 441 441 439 438 437 436 437 438 438 438 439 440 439 439 439 441 442 442 442 440 439 439
JULY     436 436 435 435 435 434 434 434 434 435 434 435 435 434 433 431 432 434 436 437 437 436 435 435
AUGUST   435 434 434 433 433 430 429 429 428 428 428 430 431 429 425 423 423 426 431 436 438 437 436 435
SEPTEMBER 428 428 428 427 425 423 421 421 421 421 421 421 422 418 412 407 406 408 413 419 427 427 427 427
OCTOBER  422 421 419 418 418 417 415 415 415 414 413 414 412 409 404 400 399 402 407 414 422 426 425 423
NOVEMBER 413 411 410 409 408 407 407 407 404 401 395 391 387 385 383 384 385 388 395 402 406 410 411 411
DECEMBER 394 397 396 397 396 396 394 393 389 386 383 376 371 369 368 367 368 373 379 386 391 392 394 394

                          Disturbed-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  496 491 492 489 481 484 479 475 473 467 461 458 460 458 452 442 452 465 474 485 495 492 486 490
FEBRUARY 479 481 479 476 473 471 468 465 463 462 458 454 448 448 438 436 444 451 465 475 485 491 493 493
MARCH    481 478 471 462 463 463 461 458 462 464 465 459 456 455 452 448 449 456 465 471 479 485 484 482
APRIL    461 460 457 450 447 446 449 456 432 430 431 434 441 447 448 448 452 456 459 461 465 468 469 471
MAY      465 470 463 460 454 452 452 450 444 445 449 450 452 452 452 450 448 452 456 452 456 459 458 467
JUNE     449 429 397 436 440 414 412 413 432 422 424 430 431 437 437 442 448 446 449 452 449 447 452 457
JULY     442 444 442 438 432 433 429 431 431 431 431 433 437 439 438 437 438 442 437 439 438 437 438 442
AUGUST   482 457 437 407 387 325 340 385 418 403 385 388 440 439 438 437 446 450 448 453 460 469 470 499
SEPTEMBER 445 439 435 412 387 391 404 414 421 423 422 424 423 423 416 416 412 413 418 427 440 448 454 447
OCTOBER  431 423 421 413 410 413 404 399 398 390 394 400 401 398 391 391 396 403 413 418 428 429 436 430
NOVEMBER 426 428 413 375 381 387 388 379 373 375 376 379 382 383 382 388 397 400 408 414 420 426 430 437
DECEMBER 403 405 403 398 399 394 382 378 380 374 367 365 365 363 362 361 364 371 379 393 402 414 408 407
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Note:-The last column shows the number of days excluded
     from the calculation of the means because the
     days include missing hourly values.

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ARGENTINE ISLANDS                      Vertical intensity (Modulus of field)

       1973                            Tabular Baseline= 35000 nT
                                                                                         no of days
                                                                                          excluded
                          All-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  397 396 393 392 389 385 385 383 382 379 375 369 365 364 362 361 364 369 376 384 387 392 395 396
FEBRUARY 398 395 390 386 384 380 377 376 377 377 373 372 369 366 361 358 359 364 374 384 395 403 404 401
MARCH    388 386 383 378 374 374 367 370 370 368 369 371 370 366 363 362 362 366 375 386 392 396 395 393
APRIL    386 380 375 371 370 361 357 358 355 363 368 372 373 373 371 371 372 375 381 388 391 393 390 389
MAY      370 364 363 360 360 356 352 349 348 352 356 361 364 365 364 365 366 367 370 370 369 369 369 369
JUNE     354 355 352 348 347 346 345 342 341 345 347 348 350 352 351 352 353 354 355 354 354 355 354 354
JULY     343 344 343 341 338 337 336 333 335 337 337 339 340 341 341 342 342 343 344 344 344 342 342 343
AUGUST   336 336 335 334 331 329 328 325 326 327 331 330 332 333 331 329 329 331 333 336 338 337 336 336
SEPTEMBER 335 335 333 330 327 326 325 322 323 322 321 321 320 318 317 315 315 319 324 330 334 337 337 335
OCTOBER  330 327 324 322 320 318 314 314 314 313 312 312 312 310 308 305 305 309 315 323 329 334 335 333   1
NOVEMBER 322 321 320 316 316 315 313 310 307 306 304 300 297 295 293 293 295 299 304 310 315 320 321 322
DECEMBER 311 310 310 309 307 305 303 299 296 293 288 284 281 280 279 280 282 287 293 299 304 308 310 311

                          Quiet-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  388 389 391 390 391 391 389 387 385 382 377 372 368 367 368 370 373 375 379 383 384 384 385 386
FEBRUARY 390 389 387 384 382 382 381 378 378 377 374 370 368 366 362 361 362 366 373 381 386 391 392 391
MARCH    382 380 380 379 378 377 375 374 374 374 374 375 372 366 361 357 358 363 371 379 382 383 380 380
APRIL    383 383 382 381 380 378 375 374 375 377 377 378 377 374 369 367 367 370 376 382 384 383 382 381
MAY      360 360 359 358 358 357 357 357 357 358 358 358 359 358 358 359 359 360 362 363 362 361 360 359
JUNE     352 353 353 352 352 351 350 350 350 351 351 351 353 353 353 352 352 353 354 354 354 352 352 351
JULY     346 345 345 346 345 344 344 344 343 344 344 345 345 345 345 344 344 345 346 347 346 346 345 344
AUGUST   333 333 333 334 334 333 332 331 331 331 332 331 331 331 329 328 327 329 333 335 335 333 332 332
SEPTEMBER 330 330 329 328 327 326 326 325 324 323 323 324 322 317 312 310 310 314 321 327 331 332 331 329
OCTOBER  324 323 322 321 320 319 318 319 319 316 314 313 312 310 307 304 302 304 310 317 321 323 323 322
NOVEMBER 318 318 318 317 316 316 315 315 314 311 307 303 300 298 297 297 298 303 307 310 313 316 319 319
DECEMBER 308 308 309 308 308 307 305 303 300 297 293 289 286 283 281 280 281 288 295 297 300 304 304 305

                          Disturbed-days mean diurnal variation

     UT  0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
JANUARY  407 401 394 393 387 375 383 381 378 375 374 368 360 362 365 359 362 369 375 388 393 402 410 407
FEBRUARY 413 407 400 384 384 380 380 379 378 382 377 377 375 373 370 365 361 365 376 395 421 438 437 429
MARCH    400 390 379 367 356 371 343 352 355 345 345 362 363 361 361 363 366 373 385 403 411 419 415 407
APRIL    402 392 372 373 367 355 354 356 348 355 360 367 372 370 368 368 371 377 392 406 416 429 419 412
MAY      377 347 350 346 348 341 319 309 297 317 333 350 366 368 366 371 372 372 375 376 375 376 377 375
JUNE     354 357 349 333 330 341 341 321 322 335 341 345 348 351 352 351 351 352 357 357 360 360 360 360
JULY     342 347 346 337 327 329 325 317 321 326 327 329 333 337 334 339 340 343 344 343 347 346 347 346
AUGUST   339 338 330 326 316 318 321 315 312 307 321 321 327 331 327 324 326 330 335 336 342 342 341 339
SEPTEMBER 342 338 332 322 320 322 323 319 321 322 321 317 312 310 317 318 318 320 325 334 341 351 355 344
OCTOBER  330 326 319 318 317 311 305 309 306 294 294 294 294 301 302 308 304 307 316 333 342 351 354 347   1
NOVEMBER 324 321 320 314 313 314 309 296 294 298 297 294 293 289 284 287 293 297 303 311 323 335 332 333
DECEMBER 316 312 312 310 305 299 295 287 283 280 278 276 272 270 272 277 277 284 292 301 308 319 325 322
```

Note:-The last column shows the number of days excluded
     from the calculation of the means because the
     days include missing hourly values.

ARGENTINE ISLANDS

1974

Vertical intensity (Modulus of field)

Tabular Baseline= 35000 nT

All-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   303 302 300 298 297 295  293 289 289 287 285 281  277 274 272 272 276 282  288 293 298 301 301 303
FEBRUARY  297 297 295 293 292 288  285 285 286 285 282 279  273 271 271 271 275 280  286 290 295 297 299 299
MARCH     296 292 290 287 284 280  277 277 277 277 278 280  278 277 275 273 274 280  287 292 297 300 300 300
APRIL     290 286 283 277 270 268  266 265 265 268 272 277  278 277 275 275 276 279  282 286 288 288 289 290
MAY       278 276 274 270 268 266  264 260 259 262 265 268  271 272 271 271 272 273  276 276 277 276 277 277
JUNE      264 265 263 258 256 253  251 252 254 255 257 258  260 261 261 262 263 264  265 264 265 265 265 265
JULY      261 260 257 251 241 231  225 240 245 243 247 255  255 256 256 257 258 260  261 261 261 261 262 262
AUGUST    247 243 244 242 237 233  232 233 234 235 236 238  240 242 240 237 239 241  244 247 248 248 247 247
SEPTEMBER 243 239 237 232 230 226  227 227 227 223 225 229  229 227 224 223 224 227  234 239 245 246 246 246
OCTOBER   238 232 226 219 217 212  209 211 211 211 212 213  212 208 206 207 208 213  223 231 236 241 242 240
NOVEMBER  228 225 223 220 215 213  210 208 205 201 198 195  194 193 191 191 196 202  209 218 222 226 228 228
DECEMBER  214 213 211 208 205 202  201 197 192 188 185 180  176 176 174 174 177 185  195 202 208 210 213 213
```

Quiet-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   294 296 297 297 297 296  295 293 291 290 287 282  277 275 275 276 277 285  290 294 295 296 294 296
FEBRUARY  291 289 291 291 290 289  288 288 288 288 286 281  279 277 275 275 280 282  287 291 293 293 293 292
MARCH     295 294 293 292 290 285  283 284 286 287 288 288  286 281 277 273 275 280  285 290 292 293 291 291
APRIL     281 281 281 279 278 277  278 277 276 276 277 278  278 277 274 270 270 273  277 281 281 280 280 281
MAY       278 277 276 276 274 273  272 272 272 273 273 273  273 274 273 271 272 275  277 279 278 277 277 276
JUNE      265 265 264 264 262 261  260 261 262 263 263 263  263 263 262 263 264 265  266 267 267 266 265 265
JULY      252 252 253 251 251 250  249 246 245 247 247 249  250 250 249 248 249 250  250 251 251 251 250 249
AUGUST    244 245 245 245 243 241  241 241 241 242 242 244  245 244 242 239 240 242  245 246 245 243 243 243
SEPTEMBER 239 239 239 238 236 235  234 233 234 235 235 235  234 231 226 224 222 225  230 236 240 240 239 238
OCTOBER   232 228 228 227 225 224  222 222 223 222 220 219  216 212 208 205 205 212  220 227 229 233 232 232
NOVEMBER  217 218 218 218 217 215  215 214 211 206 203 199  197 194 190 188 192 197  205 213 215 215 216 215
DECEMBER  207 208 208 208 207 207  206 204 200 196 190 184  178 175 173 173 176 187  194 201 205 208 209 210
```

Disturbed-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   311 307 300 295 294 294  292 280 279 278 280 285  281 275 274 271 275 281  291 299 307 313 312 315
FEBRUARY  304 303 298 296 290 281  273 275 280 287 282 276  252 256 262 261 273 282  287 291 300 304 308 307
MARCH     299 290 284 282 268 269  279 272 270 272 261 272  271 280 273 266 268 281  290 299 308 310 311 306
APRIL     301 291 285 271 252 247  248 247 256 260 267 277  278 279 276 275 280 282  284 290 293 294 299 299
MAY       282 282 273 263 252 264  263 254 241 244 254 261  269 270 270 275 273 276  278 278 279 279 285 285
JUNE      262 266 261 249 238 237  236 238 237 235 242 250  254 258 261 264 263 264  265 261 266 265 269 268
JULY      267 264 256 246 191 132  107 200 221 202 224 251  253 252 257 264 271 275  276 275 274 281 284 283
AUGUST    244 232 241 243 228 221  212 215 220 214 220 227  229 236 236 235 238 243  248 250 251 253 250 249
SEPTEMBER 252 237 236 226 228 211  219 221 222 211 220 227  218 224 216 224 228 227  241 247 258 261 264 265
OCTOBER   251 232 214 208 196 186  178 189 173 169 182 195  201 200 210 212 214 221  240 246 251 256 258 254
NOVEMBER  244 231 226 217 202 204  194 190 185 179 186 186  192 192 197 202 212 220  226 238 243 247 247 245
DECEMBER  221 220 216 211 204 194  195 190 182 184 182 177  176 178 171 169 173 183  201 205 213 215 219 221
```

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS

1975

Vertical intensity (Modulus of field)

Tabular Baseline= 35000 nT

All-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   211 209 209 208 204 202  200 196 193 190 188 185  182 181 177 176 178 184  192 199 204 207 210 211
FEBRUARY  203 201 198 195 192 187  183 182 183 184 180 177  177 176 174 173 173 176  134 192 197 201 202 203
MARCH     195 194 190 186 184 183  179 176 175 176 178 179  178 177 175 174 174 181  188 194 198 200 200 199
APRIL     187 185 180 178 175 171  170 169 172 172 172 176  178 178 175 173 175 177  181 184 187 186 185 186
MAY       169 169 171 165 165 164  164 160 160 164 166 168  169 169 169 169 170 173  174 174 174 174 174 175
JUNE      162 161 161 160 157 156  156 154 154 153 156 157  158 159 160 160 160 161  162 162 161 160 160 162
JULY      156 155 155 152 150 147  145 141 143 146 148 150  150 151 151 152 153 154  155 155 154 153 154 155
AUGUST    147 147 145 143 139 137  137 137 137 138 139 140  141 141 140 139 139 141  143 146 147 146 147 147
SEPTEMBER 144 145 143 141 139 139  137 137 136 136 137 137  136 133 131 128 130 133  137 143 146 146 145 146
OCTOBER   144 142 139 136 133 132  130 128 126 127 126 126  127 126 124 122 121 124  130 137 142 145 145 145
NOVEMBER  150 148 145 142 139 138  135 132 129 124 121 119  117 117 117 115 117 123  134 142 148 149 151 152
DECEMBER  142 142 140 138 136 133  130 127 124 122 117 112  108 108 108 110 114 119  125 130 134 138 139 140
```

Quiet-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   204 204 204 204 202 201  199 197 196 194 192 189  185 181 175 173 174 183  194 199 200 200 201 203
FEBRUARY  198 198 197 196 192 190  187 187 188 185 184 181  179 177 174 173 173 177  183 189 191 193 194 196
MARCH     192 191 190 189 187 185  184 183 182 182 183 183  181 178 175 174 176 179  183 188 190 190 189 189
APRIL     180 180 179 179 176 173  174 174 174 173 174 175  176 176 174 173 174 176  179 181 180 179 178 178
MAY       172 172 171 170 169 168  167 168 169 169 169 170  170 170 169 169 170 173  174 173 172 171 170 169
JUNE      160 160 160 161 160 159  159 158 158 158 159 159  160 160 160 160 160 162  163 162 161 159 157 157
JULY      153 153 152 149 149 148  148 147 148 149 151 152  151 151 151 151 151 152  154 154 153 152 152 151
AUGUST    147 146 146 145 143 143  142 142 142 141 141 141  140 140 139 138 139 141  144 145 146 146 146 146
SEPTEMBER 141 142 141 141 139 138  137 137 137 138 139 139  138 135 132 129 129 131  137 143 145 145 143 142
OCTOBER   140 138 137 137 136 135  134 133 132 131 129 129  128 125 122 120 118 120  126 133 138 140 140 139
NOVEMBER  147 145 146 145 145 145  145 145 141 137 133 130  129 129 128 128 127 129  131 135 142 144 147 148
DECEMBER  138 138 138 137 136 135  134 132 130 126 121 113  110 110 109 110 113 117  122 128 133 136 137 137
```

Disturbed-days mean diurnal variation

```
UT         0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY   220 214 217 217 211 203  203 192 183 182 182 179  179 180 172 177 183 190  197 205 213 214 219 219
FEBRUARY  207 204 199 197 195 184  171 171 171 176 169 164  170 174 171 172 172 172  186 197 204 210 214 212
MARCH     198 198 186 177 175 179  178 162 157 166 169 175  175 176 178 177 175 185  196 208 212 218 217 216
APRIL     193 189 168 162 155 144  151 163 163 163 166 173  175 180 177 175 177 176  185 190 196 195 193 193
MAY       147 143 172 156 154 161  164 143 142 155 164 168  167 170 171 171 172 176  175 177 179 178 179 180
JUNE      161 156 158 156 143 147  156 151 145 148 153 155  155 155 157 158 157 157  160 159 160 159 162 164
JULY      160 159 157 152 142 134  129 113 118 134 139 144  144 147 147 151 156 157  157 157 158 159 159 161
AUGUST    148 147 147 145 136 127  126 125 128 131 131 133  133 138 140 138 140 142  144 148 150 149 149 150
SEPTEMBER 149 148 143 134 129 136  132 135 132 131 132 133  136 132 129 129 134 137  141 147 151 149 148 152
OCTOBER   152 148 144 138 125 117  112 114 111 117 119 117  127 129 129 127 130 131  136 146 156 163 162 157
NOVEMBER  154 150 140 132 125 122  112 114 112  98  99 105  102 108 116 109 114 122  143 156 166 163 165 165
DECEMBER  148 146 142 139 136 127  119 113 113 112 110 110  106 104 101 106 115 124  134 140 146 148 153 158
```

Note:-The last column shows the number of days excluded
from the calculation of the means, days are excluded
if they contain missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1976   Tabular Baseline= 35000 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	134	132	133	131	130	127	125	124	121	116	114	109	104	103	102	100	104	112	121	132	131	135	135	134	
FEBRUARY	129	128	125	122	118	116	114	111	112	113	110	105	103	101	99	100	102	108	114	120	124	127	128	129	
MARCH	127	122	118	112	108	106	101	98	94	103	109	112	110	106	104	105	108	113	119	125	128	130	129	128	
APRIL	119	117	113	106	99	89	95	95	89	90	101	109	111	110	109	109	111	113	116	119	120	119	119	120	
MAY	109	105	101	97	96	95	96	95	92	94	97	98	101	103	103	101	102	103	104	106	106	106	107	107	
JUNE	93	93	92	90	89	89	87	85	85	87	86	88	90	91	91	91	92	93	94	93	91	91	92	92	
JULY	84	84	83	83	82	80	78	77	78	80	80	80	82	83	83	83	83	84	85	85	84	84	83	84	
AUGUST	77	77	76	75	74	73	71	70	70	71	71	72	73	73	71	71	71	73	76	78	79	78	77	77	
SEPTEMBER	74	73	72	70	66	61	58	60	60	62	63	64	64	62	59	57	57	61	65	70	75	76	76	75	
OCTOBER	65	64	62	59	56	54	52	52	53	51	50	52	50	46	43	42	43	48	55	61	65	66	68	68	
NOVEMBER	58	57	56	54	51	50	49	47	46	42	37	33	30	29	29	29	32	38	45	50	53	53	55	57	
DECEMBER	59	58	56	54	52	50	48	45	41	36	33	30	27	26	25	25	29	37	44	49	54	58	59	59	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	126	127	128	128	127	125	124	123	120	116	112	105	103	104	103	103	106	111	115	119	119	121	121	123	
FEBRUARY	121	121	120	119	119	119	116	113	113	113	112	108	107	106	102	100	103	107	115	116	118	118	119	118	
MARCH	114	113	113	112	112	111	109	108	107	108	109	109	107	103	100	99	101	103	106	111	115	115	115	114	
APRIL	112	111	111	109	108	108	107	106	106	106	105	105	106	105	103	102	104	107	110	112	113	112	111	110	
MAY	105	105	105	103	103	103	102	103	103	104	103	103	103	104	102	102	103	105	106	107	107	106	106	105	
JUNE	93	93	93	92	91	90	90	90	91	91	90	91	92	92	92	92	93	94	95	94	93	92	92	91	
JULY	82	82	82	82	83	82	81	79	79	80	81	81	82	82	82	82	82	83	84	84	83	82	80	79	
AUGUST	75	75	76	76	75	75	74	75	75	74	74	75	74	73	71	71	71	72	75	77	77	76	75	74	
SEPTEMBER	71	71	71	71	70	68	67	67	67	67	67	67	65	62	57	56	57	60	64	70	73	73	72	71	
OCTOBER	59	58	56	57	56	54	53	53	51	49	47	44	42	40	36	34	36	41	48	53	56	58	58	57	
NOVEMBER	52	53	53	52	50	49	48	48	46	43	39	33	30	28	28	28	30	35	42	46	46	48	49	50	
DECEMBER	56	55	56	55	54	54	54	52	49	46	40	36	33	31	31	31	34	37	42	46	51	55	58	57	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	148	133	136	132	133	128	129	131	123	115	112	108	101	94	97	96	101	107	122	168	154	172	166	161	
FEBRUARY	134	131	126	123	115	102	99	106	113	117	111	103	102	99	94	93	98	111	116	123	131	136	136	138	
MARCH	137	124	113	92	83	89	58	47	20	59	100	111	111	97	105	113	120	127	135	146	147	152	150	146	
APRIL	132	124	106	78	55	10	52	59	26	16	70	111	120	121	119	123	127	131	132	142	145	148	144	141	
MAY	125	107	86	81	75.	65	80	85	70	78	88	85	95	104	106	103	105	105	102	112	115	119	121	121	
JUNE	90	91	92	83	86	87	84	74	69	76	68	74	81	87	90	94	96	96	98	97	96	93	96	96	
JULY	85	85	79	78	74	70	69	73	78	81	81	76	77	76	81	82	81	82	84	83	81	84	85	84	
AUGUST	78	78	76	72	70	70	63	65	62	57	59	59	69	71	65	66	70	73	75	80	83	82	83	83	
SEPTEMBER	74	74	76	70	57	39	25	34	37	42	45	53	56	60	60	59	58	63	68	73	79	83	83	80	
OCTOBER	71	67	63	56	45	37	25	26	42	41	42	50	48	43	44	46	51	54	59	65	72	76	79	78	
NOVEMBER	66	61	56	56	53	51	49	44	46	42	38	32	29	31	33	31	31	38	46	56	64	63	68	66	
DECEMBER	62	62	52	48	49	47	40	29	19	16	20	23	28	33	30	27	32	41	51	59	65	70	67	66	

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1977   Tabular Baseline= 34500 nT

no of days
excluded

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	556	554	551	549	546	543	540	537	535	533	531	527	524	521	519	518	520	525	532	538	545	549	553	554	
FEBRUARY	546	544	542	541	536	534	533	531	530	530	528	526	524	517	512	511	512	518	526	535	542	545	547	548	
MARCH	533	531	529	527	525	523	522	519	519	520	522	522	519	516	514	511	511	516	523	529	533	533	533	532	
APRIL	524	523	520	524	516	514	506	508	510	510	515	518	519	519	516	514	515	518	522	526	527	527	527	526	
MAY	521	520	520	518	516	511	512	512	512	512	513	514	517	517	517	516	516	519	520	521	521	521	521	521	
JUNE	509	508	509	508	507	505	505	504	506	507	507	507	507	508	508	507	508	509	510	509	509	508	508	508	
JULY	501	501	500	498	493	490	491	491	492	494	496	497	497	498	499	499	500	501	502	503	503	502	502	501	
AUGUST	499	498	497	494	490	487	487	485	484	486	487	490	491	491	490	489	489	491	494	497	498	498	498	498	
SEPTEMBER	493	491	489	484	481	479	481	478	479	478	478	481	481	477	474	473	475	478	480	490	495	495	495	494	
OCTOBER	492	489	485	482	480	480	477	475	475	476	475	474	472	469	466	464	465	470	478	485	492	494	495	492	
NOVEMBER	484	482	481	479	477	475	474	471	468	465	461	458	457	454	453	454	458	463	470	474	478	481	482	485	
DECEMBER	477	476	475	472	468	463	463	463	462	459	455	450	445	443	441	441	444	452	461	468	474	475	476	475	

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	549	549	547	545	543	542	541	540	537	533	532	529	527	522	518	516	517	525	534	541	546	547	547	547	
FEBRUARY	544	541	540	540	537	534	532	531	531	530	529	527	524	519	514	514	514	518	527	534	538	540	539	539	
MARCH	528	527	527	526	525	522	521	520	520	520	518	516	515	511	507	505	506	512	518	523	525	525	523	521	
APRIL	521	520	520	520	519	517	516	513	514	514	516	517	518	516	512	511	514	518	521	524	524	523	522	520	
MAY	517	517	516	516	515	515	514	514	514	515	515	516	516	516	516	514	515	517	518	518	517	516	515	515	
JUNE	509	509	509	510	509	508	509	509	510	510	510	510	510	510	511	510	510	511	512	511	511	510	509	509	
JULY	497	497	497	496	496	495	495	495	495	496	496	496	497	497	496	495	495	496	498	499	498	497	496	495	
AUGUST	496	495	495	495	495	494	491	489	489	489	490	490	490	489	487	486	486	486	489	493	494	493	493	494	
SEPTEMBER	487	488	488	488	486	485	484	483	484	484	485	485	483	479	476	473	473	476	479	484	487	486	486	485	
OCTOBER	484	483	483	482	481	480	479	478	478	477	476	477	474	469	465	463	464	468	475	481	484	483	483	481	
NOVEMBER	476	476	477	476	475	474	473	471	469	465	459	456	454	451	450	454	458	463	468	471	473	473	474	474	
DECEMBER	474	474	473	472	471	470	468	466	464	461	456	451	447	446	445	444	445	453	460	467	469	469	469	469	

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	569	561	555	552	549	544	536	525	525	527	527	524	520	519	518	514	515	521	531	541	550	555	566	566	
FEBRUARY	557	551	549	547	532	533	534	532	530	533	530	525	523	517	509	510	512	519	530	538	547	551	555	557	
MARCH	543	536	532	528	524	521	517	514	515	516	524	520	518	519	516	511	510	516	528	538	543	547	545	544	
APRIL	517	520	519	543	500	499	474	480	492	489	501	511	514	519	518	513	511	517	526	535	531	535	532	528	
MAY	522	521	522	518	512·	489	497	498	499	504	509	513	519	516	515	513	515	518	522	528	532	533	534	533	
JUNE	508	505	505	506	507	503	502	502	502	501	502	503	503	504	505	504	505	506	506	507	508	509	508	510	
JULY	501	503	504	497	488	489	469	476	482	482	489	491	484	487	494	497	499	501	504	504	504	506	506	504	
AUGUST	502	500	497	488	489	487	483	468	463	473	474	479	486	490	487	488	492	495	498	498	502	502	501	500	
SEPTEMBER	501	500	490	477	471	470	477	461	463	460	457	471	475	469	469	472	480	481	489	500	511	513	517	511	
OCTOBER	505	496	481	473	468	479	474	465	472	478	472	465	466	466	465	470	474	479	488	501	515	517	520	506	
NOVEMBER	495	490	488	480	474	470	475	469	463	458	452	451	456	454	450	456	463	467	475	480	485	488	490	497	
DECEMBER	494	491	485	474	457	439	442	455	459	459	454	448	448	449	448	447	449	456	473	485	492	493	495	491	

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

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ARGENTINE ISLANDS                        Vertical intensity (Modulus of field)

        1978                             Tabular Baseline= 34500 nT
                                                                                             no of days
                                                                                             excluded
                                  All-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  472 470 469 465 464 461  458 455 452 449 447 443  440 439 437 438 442 448  457 464 465 470 471 471
FEBRUARY 472 468 463 459 455 453  451 449 449 446 443 440  438 435 433 431 432 438  449 458 465 472 474 472
MARCH    461 459 454 450 448 444  444 442 442 441 443 444  441 437 434 433 435 441  448 455 461 463 464 462
APRIL    461 457 452 448 446 442  440 443 445 447 446 447  447 447 446 442 443 447  451 456 461 463 462 463
MAY      455 452 447 444 438 431  423 417 420 430 433 437  438 440 445 445 446 449  451 454 454 455 457 457
JUNE     442 441 437 433 431 427  425 426 427 427 428 429  433 435 434 435 435 436  438 439 440 438 437 439
JULY     433 434 433 429 426      426 421 423 425 425 424  428 428 425 424 426 429  432 433 432 431 430 431
AUGUST   419 418 418 415 410 404  399 398 396 399 403 404  410 408 408 408 409 410  413 417 419 419 418 419
SEPTEMBER 424 422 421 417 412 406 403 394 389 394 398 401  401 404 401 397 398 402  409 418 425 427 426 426
OCTOBER  418 415 412 408 405 402  399 400 399 398 398 397  392 388 383 381 381 387  396 406 416 420 420 420
NOVEMBER 414 411 409 406 403 401  399 397 393 390 386 382  377 372 370 369 373 381  391 401 407 414 418 417
DECEMBER 401 400 398 396 391 389  387 385 381 375 371 364  358 355 353 354 358 365  377 387 395 401 402 401

                                  Quiet-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  463 464 464 463 463 463  462 460 459 457 454 447  443 441 441 442 446 450  456 462 463 464 465 465
FEBRUARY 468 465 461 460 458 456  455 454 452 451 448 446  441 436 431 429 431 438  448 456 462 463 460 461
MARCH    457 455 454 453 452 450  448 448 447 448 448 447  443 439 435 434 437 442  449 454 457 457 456 453
APRIL    456 455 454 452 450 447  447 447 447 447 447 449  449 446 444 443 445 447  450 455 456 457 457 455
MAY      451 451 450 447 444 444  444 443 445 444 444 445  446 446 445 443 443 446  449 450 450 448 447 446
JUNE     438 437 436 436 434 432  431 431 431 431 433 434  434 434 433 433 434 435  438 438 437 436 434 433
JULY     422 422 423 422 421 421  420 419 419 419 419 419  420 421 419 417 417 420  423 425 424 422 421 420
AUGUST   415 415 415 414 414 412  412 412 412 413 414 415  414 412 410 407 405 407  410 414 417 416 414 414
SEPTEMBER 415 415 414 412 412 411 410 409 409 409 410 410  408 403 397 394 394 397  403 410 416 416 413 413
OCTOBER  415 412 411 408 407 405  404 404 405 405 404 402  398 394 388 383 378 382  392 404 412 414 413 412
NOVEMBER 410 407 405 403 402 402  403 401 397 394 389 384  378 373 369 366 368 377  387 393 399 406 408 410
DECEMBER 393 394 394 394 395 394  393 391 386 379 370 361  356 356 357 361 364 368  375 384 391 395 395 393

                                  Disturbed-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  477 469 467 443 446 438  431 423 422 422 422 421  425 427 430 436 447 450  467 479 472 478 476 477
FEBRUARY 475 471 461 452 449 444  438 436 432 425 420 423  430 428 434 429 428 436  453 464 478 486 486 478
MARCH    468 465 442 439 439 431  439 427 429 435 444 448  444 436 430 430 436 439  450 459 476 476 479 477
APRIL    474 463 450 442 438 426  427 441 448 451 442 439  440 446 447 438 440 449  454 458 474 474 475 472
MAY      474 461 437 443 427 390  345 311 315 362 378 400  407 414 449 456 460 466  470 478 481 488 499 492
JUNE     451 447 432 422 418 407  400 402 411 411 415 418  429 437 433 435 437 438  440 444 445 443 444 446
JULY     440 445 443 444 424 410  416 392 404 419 418 420  427 427 421 421 427 439  441 438 439 439 437 443
AUGUST   430 422 419 407 386 357  338 343 326 335 356 365  404 396 404 413 419 418  419 426 430 434 436 435
SEPTEMBER 432 419 424 417 397 381 377 337 308 328 335 353  352 387 398 397 399 409  419 431 441 450 451 444
OCTOBER  424 417 411 406 397 390  385 381 373 375 378 386  385 383 380 382 384 393  405 417 427 435 434 431
NOVEMBER 415 415 410 408 402 390  387 382 375 375 368 363  362 356 355 360 380 388  405 418 416 424 428 426
DECEMBER 403 404 402 396 383 377  369 366 360 361 363 354  348 354 352 351 356 368  384 395 409 417 421 420
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Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

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ARGENTINE ISLANDS                        Vertical intensity (Modulus of field)

        1979                             Tabular Baseline= 34000 nT
                                                                                             no of days
                                                                                             excluded
                                  All-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  902 898 896 893 889 885  886 884 879 875 869 861  855 851 849 846 847 859  874 887 894 901 904 907
FEBRUARY 889 887 885 881 876 873  870 866 868 871 868 864  860 853 845 839 840 849  863 876 886 891 891 891
MARCH    884 881 877 873 869 865  862 859 856 855 857 858  857 852 845 838 838 843  855 868 881 887 889 888
APRIL    881 877 869 868 862 856  854 855 849 855 857 859  863 863 857 852 850 854  861 869 875 879 880 880
MAY      860 859 854 852 849 847  844 842 844 845 846 847  850 852 850 848 847 850  852 856 858 857 858 861
JUNE     843 843 843 841 839 836  835 833 834 835 837 838  838 838 837 836 837 839  841 842 842 842 841 843
JULY     834 833 831 829 829 828  827 826 826 826 826 827  828 828 826 825 827 829  831 832 832 831 831 832
AUGUST   833 831 831 827 823 820  818 820 819 817 818 819  819 818 816 814 813 816  822 829 831 831 831 832
SEPTEMBER 832 832 830 825 821 819 818 815 814 816 818 818  817 811 805 801 800 806  813 821 828 832 833 832
OCTOBER  827 825 819 816 815 813  810 811 809 806 804 803  800 795 789 785 785 790  801 812 821 827 831 830
NOVEMBER 817 815 813 809 805 804  803 801 798 794 791 785  779 775 773 771 773 780  790 800 810 815 817 817
DECEMBER 801 800 799 797 794 791  789 787 782 778 773 766  761 757 755 754 755 762  772 783 793 801 804 804

                                  Quiet-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  889 889 891 890 889 888  886 883 877 874 867 860  852 847 846 844 841 852  868 878 882 889 888 891
FEBRUARY 881 881 879 877 875 873  873 873 873 872 869 863  855 849 843 837 838 846  861 874 878 881 881 880
MARCH    878 878 875 873 869 865  862 861 860 862 865 867  863 855 845 837 833 836  846 860 871 879 879 877
APRIL    867 865 864 863 859 855  849 850 853 854 856 856  858 855 849 844 845 849  856 861 866 869 867 865
MAY      856 856 853 850 850 850  849 846 846 847 848 850  851 851 849 847 847 849  853 855 857 857 856 854
JUNE     842 842 842 841 840 839  838 838 839 838 839 839  840 840 839 837 837 839  840 841 841 840 839 839
JULY     828 828 829 827 828 826  825 824 824 824 825 825  826 826 824 822 823 826  829 831 830 828 827 827
AUGUST   829 830 829 829 827 825  823 822 824 824 824 824  824 822 819 814 814 817  822 827 828 827 826 827
SEPTEMBER 831 830 828 828 826 825 822 822 821 820 823 825  824 818 811 808 808 811  817 824 829 830 829 830
OCTOBER  820 819 814 813 813 811  810 810 809 806 803 800  794 789 784 781 781 783  791 802 810 817 820 819
NOVEMBER 810 810 809 809 807 806  806 805 802 798 792 787  782 777 774 775 777 782  791 798 804 807 807 805
DECEMBER 799 798 799 797 796 795  794 793 788 781 774 768  764 762 758 754 754 759  770 781 791 795 795 793

                                  Disturbed-days mean diurnal variation

    UT   0   1   2   3   4   5    6   7   8   9  10  11   12  13  14  15  16  17   18  19  20  21  22  23   24
JANUARY  905 902 900 892 889 887  887 884 878 877 866 860  856 851 850 844 848 861  878 904 919 930 937 935
FEBRUARY 890 888 886 884 870 870  863 842 847 872 869 869  867 858 846 842 844 853  870 883 894 903 900 900
MARCH    887 885 874 867 866 865  859 849 844 839 850 842  840 842 841 835 844 850  865 882 897 903 909 914
APRIL    906 885 861 882 862 826  846 857 821 858 854 847  858 873 866 862 858 866  870 879 885 889 890 892
MAY      867 868 855 850 845 845  830 827 831 832 830 835  844 850 852 852 849 852  857 860 863 862 864 865
JUNE     847 846 844 842 838 842  826 824 830 832 837 840  839 837 835 834 835 838  841 843 846 843 844 850
JULY     845 839 838 827 831 831  830 828 825 822 823 824  827 826 824 824 829 833  832 835 835 836 835 837
AUGUST   837 831 833 819 816 809  803 817 816 801 802 802  809 809 813 814 808 811  822 839 846 845 847 842
SEPTEMBER 838 840 839 830 822 823 816 800 793 799 802 802  809 805 802 798 803 814  820 826 836 841 841 842
OCTOBER  839 837 822 816 820 818  802 810 809 806 802 803  803 803 795 799 800 802  811 819 830 837 842 843
NOVEMBER 823 822 817 809 799 800  800 795 791 788 789 783  780 778 772 768 774 784  794 813 829 836 840 839
DECEMBER 808 802 800 795 786 781  778 778 776 773 771 763  756 753 752 751 754 763  771 785 799 809 819 819
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Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1980   Tabular Baseline= 34000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	796	793	792	790	787	786		785	783	780	776	769	760		753	749	747	747	750	759		770	781	790	798	799	798
FEBRUARY	789	787	784	783	780	778		777	775	774	773	771	767		760	755	751	750	753	761		772	780	786	789	791	792
MARCH	775	774	772	769	767	766		764	763	762	764	765	764		760	754	748	746	747	754		762	770	775	777	775	775
APRIL	773	773	771	768	764	760		760	758	760	761	761	763		764	762	757	752	752	755		762	768	773	774	774	774
MAY	761	759	757	755	754	753		752	750	749	749	749	750		752	753	751	749	751	753		755	760	761	760	760	761
JUNE	757	756	755	754	752	750		748	747	744	744	745	745		748	751	752	751	751	754		755	756	757	757	757	757
JULY	747	747	746	745	744	743		742	742	742	742	742	743		744	744	743	741	741	743		746	748	749	749	748	749
AUGUST	736	736	736	735	734	731		731	729	728	728	730	731		732	732	728	724	724	727		731	735	738	738	737	737
SEPTEMBER	733	733	731	728	726	725		723	722	722	723	724	724		722	718	712	706	705	709		716	725	732	735	734	734
OCTOBER	734	731	728	726	722	720		714	713	711	711	713	710		708	704	699	696	696	700		709	720	729	736	738	737
NOVEMBER	726	724	722	718	714	711		711	708	704	699	694	690		686	684	681	680	682	689		699	709	717	725	726	727
DECEMBER	719	717	716	714	711	710		707	704	700	695	689	682		676	672	670	669	674	686		700	713	719	723	723	719

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	786	784	785	788	787	786		784	781	776	773	768	761		754	749	747	745	748	756		766	774	779	783	785	784
FEBRUARY	782	782	782	782	781	780		778	778	778	777	773	765		755	749	745	746	750	756		764	770	775	777	777	779
MARCH	773	773	772	771	769	768		767	767	767	769	768	767		763	755	749	744	744	750		758	768	773	776	773	772
APRIL	776	776	775	771	769	768		766	766	765	765	766	768		769	765	758	756	756	758		764	769	773	774	774	775
MAY	761	759	757	756	755	754		752	751	752	752	753	754		756	757	754	752	753	756		760	763	764	763	762	761
JUNE	753	753	752	751	750	750		749	749	749	749	750	751		752	752	752	751	752	754		757	758	758	757	755	754
JULY	746	747	747	746	745	744		744	743	744	745	744	744		745	746	745	743	743	745		747	749	748	747	745	744
AUGUST	738	738	737	737	736	733		732	732	732	733	734	735		735	735	730	727	727	729		732	737	739	738	737	737
SEPTEMBER	731	730	729	726	726	724		722	722	723	723	723	724		722	717	711	705	704	706		712	722	729	731	731	731
OCTOBER	727	725	723	721	719	720		720	721	720	719	716	712		708	703	697	694	694	698		707	715	723	729	728	727
NOVEMBER	725	723	722	718	715	714		715	714	713	707	702	697		691	687	684	685	686	690		694	702	710	715	719	719
DECEMBER	712	711	711	711	710	711		709	707	704	699	693	686		679	673	672	671	675	686		699	707	712	712	711	709

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	800	794	791	788	786	784		786	785	779	776	769	758		749	744	741	740	743	755		774	791	811	836	839	834
FEBRUARY	787	789	781	780	776	771		771	764	763	762	761	757		751	747	745	744	750	764		778	788	793	798	809	809
MARCH	781	779	775	764	763	761		758	753	754	757	763	765		760	758	757	754	756	764		771	776	779	782	781	784
APRIL	780	776	774	768	764	754		759	751	757	761	759	766		768	767	762	755	749	754		763	771	781	784	783	785
MAY	769	762	759	756	752	756		754	750	740	738	735	737		743	749	752	753	755	758		756	763	769	768	768	770
JUNE	767	764	762	758	753	748		739	738	727	727	728	730		737	749	755	755	755	758		758	761	770	771	771	770
JULY	752	753	753	752	749	747		745	743	742	743	743	744		744	745	746	746	747	751		754	755	759	766	766	774
AUGUST	738	736	733	734	735	730		727	724	723	719	723	724		727	730	727	720	722	727		733	734	737	740	739	739
SEPTEMBER	742	740	737	731	726	725		723	717	716	718	721	723		722	719	715	707	708	713		721	730	737	741	741	743
OCTOBER	737	733	729	726	718	715		696	689	689	690	696	697		698	696	690	694	700	698		706	719	729	735	740	741
NOVEMBER	730	727	723	717	713	711		710	706	699	690	686	680		680	683	680	677	678	688		702	715	725	736	734	733
DECEMBER	739	731	728	722	719	717		712	702	698	695	689	683		678	667	663	667	683	702		722	740	751	749	745	738

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1981   Tabular Baseline= 34000 nT

All-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	703	702	702	700	699	699		698	697	693	687	680	673		668	665	664	664	666	675		685	693	698	703	703	703
FEBRUARY	711	707	702	698	695	691		690	691	690	689	685	680		676	670	665	663	663	668		681	693	705	714	717	716
MARCH	707	704	700	699	695	690		687	687	686	686	683	683		680	676	672	669	672	678		690	700	708	712	710	709
APRIL	708	702	696	694	680	678		674	672	678	683	682	684		686	686	683	680	680	685		691	697	703	704	706	707
MAY	697	693	689	685	677	665		659	667	671	676	678	678		680	684	683	685	688	691		694	694	695	699
JUNE	670	670	670	667	666	665		661	660	661	661	662	664		664	665	665	665	666	668		668	669	669	669	669	669
JULY	668	664	661	658	658	656		650	654	655	656	658		658	657	656	661	661	663		665	667	668	667	666	669
AUGUST	667	665	663	661	659	657		653	651	649	650	652	654		656	655	651	648	650	654		658	662	665	665	664	667
SEPTEMBER	659	659	657	654	650	645		644	642	641	644	645	646		644	639	638	631	630	635		642	651	658	660	660	660
OCTOBER	665	660	653	649	648	645		643	639	635	634	636	635		632	627	623	621	623	628		640	652	663	668	670	670
NOVEMBER	654	649	646	641	636	634		632	630	626	621	618	614		611	607	606	607	611	618		628	637	645	650	652	655
DECEMBER	633	631	631	629	626	622		619	615	609	603	596	589		585	584	585	586	589	596		606	617	627	632	636	634

Quiet-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	698	698	699	698	698	697		697	695	693	689	681	674		668	665	663	660	664	674		684	692	694	694	693	694
FEBRUARY	702	701	699	697	696	694		691	690	691	691	687	684		679	673	666	661	660	665		676	688	698	703	704	704
MARCH	698	695	694	693	691	689		688	687	688	689	689	689		685	678	671	667	668	674		684	694	700	700	696	695
APRIL	701	699	696	693	691	689		689	689	689	689	689	689		689	684	679	674	673	678		685	693	697	698	696	695
MAY	687	685	683	682	681	680		679	678	676	677	679	680		681	681	677	674	675	678		680	685	688	688	688	687
JUNE	672	671	671	670	670	668		668	667	668	668	668	668		669	668	668	667	669	671		672	672	672	671	670	669
JULY	661	661	660	660	659	658		657	657	658	658	659	658		660	661	659	658	658	660		662	663	662	663	661	659
AUGUST	665	664	663	664	662	660		657	656	656	657	657	658		659	657	654	651	649	653		658	661	664	663	662	660
SEPTEMBER	661	660	657	655	653	651		650	650	649	649	650		647	642	637	633	633	634		641	650	658	658	657	657
OCTOBER	655	652	650	649	648	648		644	641	640	638	639	637		631	626	622	618	616	621		631	640	648	651	652	650
NOVEMBER	640	641	638	635	634	634		634	632	629	623	618	613		607	601	600	604	609	615		625	632	638	637	641	641
DECEMBER	628	626	625	625	624	624		623	620	615	607	599	595		593	589	588	588	593	601		609	618	625	628	627	626

Disturbed-days mean diurnal variation

UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
JANUARY	708	706	705	699	692	693		694	699	695	688	676	671		668	666	665	664	669	676		683	691	697	704	707	709
FEBRUARY	719	713	706	699	695	689		688	688	683	684	677	668		668	661	656	662	663	669		686	702	728	739	739	741
MARCH	705	702	698	697	694	682		671	679	682	670	659	658		653	656	661	660	671	681		701	714	721	732	726	726
APRIL	732	715	691	696	641	646		641	631	663	685	680	680		679	686	689	688	691	697		701	704	708	716	724	729
MAY	720	705	692	684	660	610		584	624	654	675	673	664		670	683	689	695	696	698		704	709	712	711	713	711
JUNE	673	675	676	665	662	664		654	645	649	651	654	657		659	663	666	666	669	668		667	667	668	674	675	676
JULY	686	662	644	634	647	647		617	642	659	653	652	660		656	642	640	672	673	676		681	678	685	692	688	707
AUGUST	672	670	662	657	658	657		658	652	638	638	639	644		649	645	642	647	650		654	659	665	666	668	678
SEPTEMBER	660	662	661	656	651	639		636	622	621	631	631	636		638	635	650	635	635	639		645	657	665	667	668	669
OCTOBER	672	665	650	646	644	643		636	626	623	627	625	620		621	614	613	620	629	639		657	678	686	697	700	698
NOVEMBER	660	650	651	645	635	633		628	629	625	615	613	608		605	597	603	607	607	616		633	641	653	663	663	673
DECEMBER	630	632	636	632	625	621		609	595	580	577	573	572		568	567	580	581	583	590		606	619	634	645	645	638

Note:-The last column shows the number of days excluded
from the calculation of the means because the
days include missing hourly values.

ARGENTINE ISLANDS   Vertical intensity (Modulus of field)

1982   Tabular Baseline= 34000 nT

All-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23   24
JANUARY   623 622 621 617 614 611   610 608 604 599 594 588   583 580 578 577 580 590   601 610 616 621 623 625
FEBRUARY  652 643 634 625 613 608   605 605 605 609 610 603   596 595 590 592 593 600   611 626 640 651 662 657
MARCH     628 624 616 610 606 605   604 600 602 600 602 605   603 597 592 588 588 594   603 613 620 624 627 631
APRIL     625 622 618 613 607 602   598 598 600 598 599 605   608 608 605 604 605 608   613 619 623 625 626 626
MAY       611 609 605 601 599 595   594 593 592 594 596 597   600 601 601 601 601 604   607 610 612 611 610 610
JUNE      599 599 596 591 588 583   577 574 579 583 587 588   591 592 592 591 593 594   595 596 595 595 597 599
JULY      588 604 588 585 580 577   571 574 579 578 582 587   589 592 591 590 591 592   594 599 602 598 598 597
AUGUST    596 594 591 589 585 579   567 572 576 575 575 578   581 583 579 576 578 582   586 593 595 596 595 597
SEPTEMBER 600 597 587 570 559 565   556 554 551 553 558 565   575 576 574 571 571 577   585 594 601 604 604 602
OCTOBER   590 586 580 573 569 563   557 559 560 560 559 557   555 549 544 542 543 551   562 572 583 590 591 591
NOVEMBER  581 577 571 567 561 558   553 551 549 547 543 539   534 528 526 528 532 540   551 562 573 580 583 582
DECEMBER  578 577 572 563 558 556   551 547 540 531 524 514   510 508 508 515 522 534   549 563 571 578 579 578
```

Quiet-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23   24
JANUARY   617 616 615 615 615 614   613 611 607 602 595 588   580 579 577 575 578 587   600 609 612 614 615 612
FEBRUARY  641 638 635 629 622 619   616 615 616 616 611 606   601 596 594 593 594 600   610 623 630 634 637 633
MARCH     621 620 618 617 612 611   610 608 609 609 610 609   604 598 591 587 586 591   599 610 616 619 619 618
APRIL     623 621 619 617 616 614   613 613 610 608 605 608   612 613 609 604 604 607   611 615 618 620 619 620
MAY       606 605 605 603 603 603   602 602 601 601 601 601   602 603 601 600 601 604   607 608 608 607 605 604
JUNE      595 595 596 593 592 588   586 590 592 592 592 593   593 593 594 591 592 593   597 597 595 592 591 591
JULY      585 585 584 583 579 577   577 576 580 581 580 580   581 581 581 580 580 581   582 582 581 581 581 580
AUGUST    595 593 591 592 589 587   588 588 589 588 588 588   588 588 583 579 579 583   588 593 602 602 600 600
SEPTEMBER 593 591 588 583 583 582   581 579 573 567 568 574   574 571 567 562 560 565   573 583 595 596 596 594
OCTOBER   583 581 581 579 575 573   572 571 569 564 560 559   557 552 544 539 538 545   558 568 578 584 581 582
NOVEMBER  567 566 565 563 560 559   560 557 555 553 546. 539   534 531 530 530 529 532   542 551 558 566 567 574
DECEMBER  567 569 568 567 565 562   561 559 556 553 549 541   530 521 518 517 521 526   534 541 549 557 561 559 557
```

Disturbed-days mean diurnal variation

```
UT         0   1   2   3   4   5     6   7   8   9  10  11    12  13  14  15  16  17    18  19  20  21  22  23   24
JANUARY   630 632 625 622 614 601   602 601 597 593 587 583   580 575 574 574 574 586   601 610 620 630 633 637
FEBRUARY  662 652 637 622 608 590   582 587 585 594 610 597   594 592 590 595 601 603   613 633 652 686 697 682
MARCH     660 641 606 583 579 582   589 571 585 571 575 599   602 594 589 587 589 598   609 618 627 635 654 678
APRIL     627 620 622 608 596 580   553 582 588 571 572 588   597 596 597 600 607 613   621 628 631 637 643 639
MAY       622 612 600 591 586 564   565 569 563 572 584 589   592 593 594 600 598 602   609 615 619 617 612 617
JUNE      598 605 602 583 570 562   557 547 573 595 598 592   591 594 592 591 597 598   596 604 604 606 609 612
JULY      558 672 581 587 576 569   561 575 577 572 588 605   611 616 614 611 611 611   618 636 659 644 641 629
AUGUST    610 605 600 597 579 563   517 544 562 555 549 559   569 581 580 580 590 593   593 600 602 605 602 603
SEPTEMBER 605 601 552 482 451 504   466 457 423 433 461 491   544 571 589 599 596 606   618 634 636 640 640 624
OCTOBER   588 584 567 549 553 537   520 534 533 541 546 547   549 547 541 542 546 558   572 578 593 606 606 602
NOVEMBER  601 587 575 574 572 560   551 549 541 541 548 547   538 517 520 533 540 557   580 595 602 607 609 615
DECEMBER  594 585 572 549 546 545   543 535 519 495 494 493   494 504 505 517 530 543   561 576 573 585 585 586
```

Note:-The last column shows the number of days excluded
      from the calculation of the means because the
      days include missing hourly values.

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APPENDIX

1 Fixed-marks and determination of the true meridian

The first fixed-mark was a pole in a bucket of concrete over survey station no. 277 (Wynne-Edwards, 1959), which is on Grotto Island, and was known as the Grotto fixed-mark. Using sun-shots from the Kew pier, its true azimuth was determined in June 1957. Sun-shots were carried out by viewing the sun directly with the Kew declinometer telescope and noting contact times of the sun's limbs, timed so that the middle of the sun crosses the crosshairs at local apparent noon. The true azimuth was in doubt due to possible errors in the determination of the position of survey station no. 277; such errors were quantified and the necessary corrections made by Murray (1961) in 1960. The position of the Kew pier is at:

$$65°14'58.7''S, 64°15'33.0''W$$

Using the 1957 sun-shot, the azimuth of Grotto fixed-mark was $19°15.4' \pm 0.2'$. Sun-shots in October 1960 gave, when reworked in 1972, $19°15.8'$ (error unknown). Star-shots in June 1963 gave $19°15.5 \pm 0.1'$ and, in January 1964, $19°19.2'$. Using an azimuth of $19°15.5'$ and a divided-circle reading of Grotto fixed mark, $16°6.3'$ gave a divided circle reading for the true meridian of $175°50.8'$.

From 1957 to 1973, observations were taken assuming that the divided-circle reading of the true meridian remained constant between observations. The true meridian readings were:

$$175°50.8' \text{ for } 1957 \text{ to August } 1965$$

and

$$175°56.1 \text{ for August } 1965 \text{ to } 1973.$$

Divided-circle readings of the fixed-mark were checked three or four times a year, increasing to twice monthly in 1966, and were taken at every observation after 1973.

The mean divided-circle readings of the Grotto fixed-mark were:

$$15°5.3' \pm 0.2' \text{ for } 1957 \text{ to August } 1965$$

and

$$15°10.8' \pm 0.1' \text{ for August } 1965 \text{ to } 1967.$$

The change in 1965 was due to the declinometer being knocked off its stand.

Large snow accumulation during 1967 covered the Grotto fixed-mark, so readings were taken from the top of the pole or using the new fixed-mark which was on Galindez Island. The Galindez fixed-mark is a white mark on a pole, erected approximately 100 m to the east of the main hut. Observations using this were less accurate as it was too close to the declinometer pier. On 22 March 1968, the Grotto fixed-mark was accidentally moved, as the bucket of concrete was no longer fixed to the ground. Divided-circle reading at Grotto fixed-mark gave a mean of:

$$15°11.7' \pm 0.3' \text{ for the rest of } 1968.$$

As the Grotto fixed-mark was obscured and the Galindez one too close, a new fixed-mark was erected on Uruguay Island, termed Uruguay j. This was used from October 1969. The true azimuth of the Galindez and Uruguay fixed-marks were calculated assuming the Grotto fixed-mark azimuth and divided-circle readings were $19°15.6'$ and $15°11.7'$. This gave true azimuths of:

$$61°3.8' \pm 0.3' \text{ for Uruguay j}$$

and

$$104°32.9' \pm 0.3' \text{ for Galindez.}$$

Grotto fixed-mark was reconstructed over survey station 277 in 1976 when ice cleared. A sun-shot in June 1977 gave its true azimuth to be $19°15.7' \pm 0.1'$, confirming the Grotto fixed-mark true azimuth and divided-circle readings used to calculate the azimuths of the other fixed marks in 1968.

After 1973, magnetic declination was calculated using a constant true azimuth of a fixed mark, and divided circle reading of the fixed-marks were taken at each observation.

True azimuths were:

19°15.6′ for Grotto ±0.1′
61°3.8′ for Uruguay j ±0.3′

and

104°32.6′ for Galindez ±0.3′ measured from the Kew pier.

After 1973, Uruguay j has normally been used for observations, except in poor visibility when Galindez has been used.

2 Asymmetry of the Z scale tests

After the new Z monad magnet was installed in July 1969, it was noticed that the Z scale tests were not symmetrical, one deflection being larger than the other. When scale tests were carried out with zero current between deflections, the trace was displaced in the direction of the first deflection. Checks for extraneous magnetic material were made and a small piece of wire removed from the thermometer; however, this did not affect the asymmetry. Disconnecting the coils between deflections or using the Z variometer coils while those on the H variometer were disconnected was also tried, but made no difference to the asymmetry. However, moving the coils from the H variometer to the Z variometer or changing the misorientation angle of the Z monad magnet did. After resetting up in 1971, it was found that the scale value decreased as the field component trace moved up the magnetogram. In mid-1973, this asymmetry reversed so that the scale value increased with increasing trace ordinate but when the coils were moved from the H variometer, the scale value decreased for high or low ordinates. When the original coils were placed over the Z variometer, the scale value again increased with trace ordinate. After March 1979, this asymmetry was reduced and reversed in 1981. When the new monad magnet (no. 214) was installed in 1982 there was no variation of scale value with trace ordinate but, when it was reinstalled in October 1982, the asymmetry was again evident, the scale value increasing with trace ordinate.

This effect appears to be dependent on the position of the monad magnets, the asymmetry changes when the misorientation angle changes.

Plotting the amplitude of the deflections, which are inversely proportional to scale value, against magnetogram ordinate shows this variation in the asymmetry. Some adjustments to the La Cour magnetographs causes a reversal of the direction of the asymmetry.

Scale values were also evaluated from a graph of Z field component against magnetogram ordinate of absolute observations (see section 4). Assuming a linear relationship between them (that is, for a uniform scale value), the scale values evaluated are almost the same as the mean scale values from scale tests using the coils (±0.1 nT/mm). However, this is not a conclusive test as the scatter is too large to detect a change in scale value with ordinate. So it is not certain that the apparent asymmetrical scale value is a real effect caused by an unknown problem with the Z variometer. It may be caused by the scale test method and the true scale value may be independent of ordinate.